

**Meeting Minutes  
Travis Air Force Base  
Environmental Management  
Building 246, Upstairs Conference Room  
Installation Restoration Program  
Remedial Program Managers Meeting**

**8 May 2002, 0930 hours**

Mr. Allen Brickeen, Travis Air Force Base (AFB), conducted the Remedial Program Managers (RPM) meeting held on 8 May 2002 at 0930 in Building 246, Upstairs Conference Room, Travis AFB, California. Attendees included:

- Allen Brickeen Travis AFB
- Glenn Anderson Travis AFB
- Dale Malsberger Travis AFB
- Tom Sreenivasan Travis AFB
- DeAnn Lehigh Travis AFB
- Roger Johnson Air Force Center for Environmental Excellence (AFCEE)
- John Lucey U.S. Environmental Protection Agency (U.S. EPA)
- Elizabeth Allen TechLaw
- Jose Salcedo Department of Toxic Substances Control (DTSC)
- Sarah Raker Regional Water Quality Control Board (RWQCB)
- Wayne Williams CH2M Hill
- Deena Stanley URS
- Elise Willmeth URS
- Brian Garber Shaw Engineering and Infrastructure (SE&I)
- Kevin Spala Environmental Chemical Corporation (ECC)
- Keith Anderson ECC

Handouts distributed throughout the meeting included:

- Attachment 1 Meeting Agenda
- Attachment 2 Master Meeting, Teleconference, and Document Schedules
- Attachment 3 SBBGWTP Monthly Data Sheet
- Attachment 4 CGWTP Monthly Data Sheet
- Attachment 5 RAB Topics and Newsletter Articles
- Attachment 6 CH2M Hill Field Activities, May 2002
- Attachment 7 URS Field Activities, April 2002

## 1. ADMINISTRATIVE

Mr. Al Brickeen introduced Mr. Keith Anderson (ECC) who will work on the radiological waste removal project at RW013.

### A. Previous Meeting Minutes

The 10 April 2002 draft meeting minutes were submitted at today's meeting. Comments are to be submitted to Mr. Brickeen.

### B. Four-Month Calendar of Upcoming Milestones and Meeting Dates

The revised Travis AFB Master Meeting, Teleconference, and Document Schedules were distributed (see Attachment 2).

#### Master Meeting and Document Schedule

- Page 2, Central Groundwater Treatment Plant (CGWTP) Operations and Maintenance (O&M) Manual, Revision 1, will be updated after today's meeting.
- Page 2, LF008 Groundwater Extraction System O&M Manual schedule was revised to read "sequence to U.S. EPA's comments." *Mr. Lucey stated that he has not reviewed this document, but he will look at it today.*
- Page 3, LF007/CAMU Soil Design Package funding was received. The draft final due date was changed to 24 June 2002 and the final due date was changed to 24 July 2002.
- Page 4, the Basewide Soil Remedial Design/Remedial Action (RD/RA) Plan draft final date was changed to 15 May 2002 and the final due date was changed to 14 June 2002.
- Page 4, SD042 Soil Remedial Design Package final due date was changed to 8 May 2002 to reflect the actual date.
- Page 5, the SD045, LF008, and LF044 Soil Remedial Design Package schedules were revised.
- Page 6, the LF044, RW013, and SD045 Site-Specific Remedial Action Work Plan schedules were established.
- Page 7, SS016 Expansion Interim Remedial Action Report agency comments due date was corrected to read 8 May 2002.
- Page 8, the Quarterly Newsletter schedule was updated. (Articles are due one month after the prior Restoration Advisory Board [RAB] meeting.)

- Page 8, LF007/CAMU Construction Quality Control Plan (CQCP) schedule was moved to the informational document section and the final due date was changed to 24 July 2002.
- Page 10, the Groundwater Sampling Analysis Program (GSAP) Semi-Annual Report was moved to the historical section.

## **2. OPERABLE UNIT UPDATE**

### **A. North/East/West/ Industrial Operable Unit**

#### **1. NEWIOU ROD Plan of Action and Milestone**

##### **ARAR Review**

Mr. Malsberger stated that Ms. Raker has completed her review and submitted her comments. Mr. Salcedo will submit his comments within the next two weeks. Mr. Lucey stated that once the U.S. EPA attorney returns, Mr. Lucey would speak with her about the applicable or relevant and appropriate requirements (ARARs).

##### **Cleanup Table**

Mr. Malsberger stated that he emailed the latest/final version of the soil standard cleanup table, which has the values for the hazard quotients (HQs). He requested the agencies to review this email as a draft document and submit comments within 30 days.

Mr. Malsberger stated that the email included a list of all the references for the ecological toxicity values used to derive the HQ levels. There was one compound for which a toxicity value could not be found.

##### **Sections 1 – 4 of the Draft ROD**

Mr. Malsberger stated that comments on Sections 1 through 4 of the draft record of decision (ROD) are due 21 May 2002.

##### **Set 1 Sites**

Mr. Malsberger requested that the agencies indicate agreement for the information in the site summaries and on the site summary table.

Sites 34, 36, and 37 are primarily total petroleum hydrocarbon (TPH)-contaminated sites for which Ms. Raker has taken the lead determining if sites should be no further action (NFA) or monitored natural attenuation (MNA) or if additional pre-ROD sampling should be conducted to determine if any action is required. Mr. Malsberger and Ms. Raker will further discuss this issue after today's meeting.

Mr. Malsberger stated that Ms. Raker had asked for information on underground storage tanks in relationship to the Installation Restoration Program (IRP) sites and monitoring wells. This will also be discussed after today's meeting.

Mr. Malsberger stated Mr. Salcedo had indicated that SS035 may be considered an NFA site, depending on the rationale. Mr. Malsberger stated that the Air Force is in the process of developing the rationale and will submit a revised summary sheet with the rationale to support SS035 as NFA. If it is not possible for SS035 to be an NFA site, then the selected remedial action will be land use controls.

Ms. Deena Stanley stated that only one PCB sample result from SS035 exceeded residential preliminary remedial goals (PRGs). Ms. Stanley asked what additional rationale is required to consider this site NFA. Mr. Salcedo stated that the rationale should indicate how many samples were collected, how many of those samples had hits, and a site use factor.

Mr. Malsberger stated that no excavation will be conducted at the four sites in Set 1. The original soil volume estimates were conservative and it appears that the corrective action management unit (CAMU) will be smaller than originally thought.

Ms. Raker asked if the next group of sites will begin in June 2002. Mr. Malsberger stated yes; LF007, SS015, and SS016.

## **B. West/Annexes/Basewide Operable Unit**

### **1. ROD Dispute Status**

Mr. Anderson reported that a 30-day extension was requested by the dispute resolution committee (DRC), giving them until 30 May 2002 to provide a solution to the ROD dispute.

Ms. Lehigh stated that she was informed that U.S. EPA recently had an internal meeting, in which a proposal was placed on the table for the Langley AFB dispute. Ms. Lehigh was not sure of the nature of the proposal.

Mr. Brickeen stated he had received word from Air Mobility Command (AMC) that the proposal would include all requirements to ensure land use controls are in place, but not require post-ROD primary documents.

Mr. Lucey stated that he has not heard anything specific; however, it appears that there is not agreement at U.S. EPA's headquarters.

Ms. Lehigh has requested her contact to keep her informed when the land use control issues are closer to being resolved in order to allow Travis AFB to proceed.

Mr. Lucey stated that if there is an impasse, DRC might be pressured to act.

Mr. Brickeen stated that the ROD is the driver for the Phase 2 work this summer. The Air Force needs to know by the middle of June, if the ROD will be signed by mid-July in order to go forward with Phase 2 activities.

Ms. Allen asked why the reluctance to begin construction and engineering work. Mr. Brickeen stated that the CAMU must be approved in the ROD.

Mr. Lucey asked what the increase in cost will be for the deferment. Mr. Brickeen stated higher labor rates contribute to a higher project cost. Mr. Brickeen stated that the Air Force needs to know by 23 June 2002 with a very high degree of certainty that the ROD is going to be signed. That is, the resolution has been reached; the revised ROD text has been drafted and reviewed by all the parties, all agree on the ROD changes, and the draft final ROD is distributed for signatures.

### **3. CURRENT PROJECTS**

#### **A. South Base Boundary Groundwater Treatment Plant**

Mr. Sreenivasan reported that the South Base Boundary Groundwater Treatment Plant (SBBGWTP) performed at 96.7% uptime with approximately 6.2 million gallons of groundwater extracted and treated during the month of April 2002. The average flow was 148 gallons per minute (gpm). Approximately 2.0 pounds of volatile organic compounds (VOCs) were removed during April 2002. The total mass of VOCs removed since startup of the system is 175.4 pounds (see Attachment 3).

The air stripper system continues to operate successfully with no indication of scale buildup in the system. During the last month, two pumps (EW05x05 and EW05x30) were shut down due to low flow alarms. The pumps were removed and inspected 30 April 2002 and both were found to have stripped splines. Both pumps were replaced.

#### **B. Central Groundwater Treatment Plant**

Mr. Sreenivasan reported that the Central Groundwater Treatment Plant (CGWTP) performed at 86.2% uptime with approximately 3.4 million gallons of groundwater extracted and treated. The average flow for the CGWTP was 92.2 gpm during April 2002. Approximately 25 pounds of VOCs were removed during April 2002. The total mass of VOCs removed since startup of the system is 2,060 pounds (see Attachment 4).

In the month of April, approximately 20,000 gallons of groundwater and construction water from Area 300 was treated through the CGWTP. As in the previous month, TPH samples were collected at the CGWTP influent and effluent to determine if the JP-8 concentrations would affect the destruction

removal efficiency of the ultraviolet oxidation (UV/Ox) system as it did in the previous month. Sample results indicate the UV/Ox was unaffected this month.

On Friday, 12 April 2002 at approximately 1700, Travis AFB experienced a power outage on the west side of the base that shut down the West Treatment Transfer Plant (WTTP) and associated extraction systems in the West Industrial Operable Unit (WIOU), LF008, and DP039. There was still power at the CGWTP, so it continued to operate normally, extracting groundwater from SS016. Meanwhile a mechanical failure of the check valve at the WTTP effluent transfer pump occurred, allowing water from EW03x16, EW605x16, and EW610x16 (at SS016) to flow in reverse, past the check valve and back through to the recirculation tank at the WTTP. (The check valve failed because of corrosion associated with brass fittings combined with normal wear.) Continuous backflow caused the recirculation tank to overflow into the containment of the WTTP and subsequently into the grassy area between the plant, Ragsdale Avenue, and the parking lot.

It is estimated that 8,000 gallons were spilled outside the containment area and onto the lawn south of the WTTP. However, there was no evidence that any water had overflowed into the West Branch of Union Creek. On Saturday, 13 April 2002, Mr. Brickeen stopped the backflow by shutting the valve on the transfer line from the WTTP to the CGWTP. On Monday, 15 April 2002, URS collected samples from each of the four corners of the containment berm at the WTTP and had them analyzed. Pesticides were not analyzed since LF008 was without power and did not contribute to the spill.

Results of the samples indicated levels of trichloroethene (TCE) at 5, 5.2, 5.2, and 5.3 micrograms per liter ( $\mu\text{g/L}$ ). Cis 1,2-dichloroethene (DCE) was also detected but was less than the reporting limit of 0.5  $\mu\text{g/L}$ . The maximum instantaneous limit for irrigation purposes is 5  $\mu\text{g/L}$  for TCE.

To prevent this problem from occurring again, the following corrective actions were or will be implemented:

- Check valves on both effluent transfer pumps were replaced with check valves containing stainless steel parts that are less susceptible to corrosion. As an added redundancy, a 4-inch PVC ball check valve was installed after the WTTP effluent transfer pumps.
- Signs will be posted at the WTTP, CGWTP, Thermal Oxidizer, and the North Groundwater Treatment Plant (NGWTP) identifying emergency contacts as well as the single button to push to shut down each of the systems in case of an emergency. A special note will be placed at the WTTP identifying that it is connected to the CGWTP and may require shutting the power off at the CGWTP in the event of a spill at the WTTP if the spill is not controlled by powering down the WTTP alone.

Travis AFB sent a memo to the RWQCB to notifying them of the overflow on 18 April 2002.

Ms. Raker asked if the Air Force received the notice of violation (NOV) from the RWQCB, which will require no action. Mr. Sreenivasan stated that he had not.

Mr. Brickeen asked if there is a possibility of issuing a notice of non-compliance (NON) in the future. Ms. Raker stated that she will look into this.

The O&M plan and the recommendation to reduce pumping will be discussed after today's meeting.

Ms. Raker commented that she would also like to discuss how to make the SBBGWTP quarterly report more like the CGWTP quarterly report.

**C. North Groundwater Treatment Plant**

Mr. Sreenivasan stated that the NGWTP transition from GTI to URS has been made. The plant is operating normally.

Currently there are some ongoing funding and contracting issues to be resolved. Once these issues are addressed, the NGWTP monthly sampling will occur and the monthly report will be emailed to the agencies.

**D. SS016 Draft Interim Remedial Action Report**

Mr. Sreenivasan stated that he is waiting for Mr. Lucey to provide comments.

**E. FT005 Interim Remedial Action**

Mr. Sreenivasan stated that the Air Force sent the renewal insurance certificates to the property owner.

The CPT locations have been surveyed, marked, and cleared. The Air Force has completed the vernal pool survey, the collected data will be combined with existing GIS data for easy viewing of the wells, pipeline, and vernal pools in one map. CPT drilling work has been rescheduled for 21 and 22 May 2002.

The easement boundaries were staked in April; however, they were broken at ground level by the cattle. The Air Force will re-stake the boundaries with more durable stakes before starting the CPT work.

Mr. Brickeen stated that when conducting CPT the redefined plume may require moving well locations and/or installing additional wells. Mr. Brickeen asked the agencies if they want to review any changes to the design before modifications are made. Ms. Raker requested the Air Force to email a figure of the preliminary results to see the contaminant distribution.

**F. SS030 Easement**

Mr. Brickeen reported that the only Air Force access to the off-base property according to the easement is through a gate in the perimeter fence, which is normally locked. With the additional base security, there is concern about opening this gate at all.

Ms. Lehigh stated that she would contact the Security Forces commander concerning this issue.

**G. Landfill Cap Design**

Mr. Malsberger stated that funding has been received to complete the landfill cap design. Mr. Malsberger will meet with the contractors to determine what is required to complete the document.

The draft final design is tentatively scheduled for 24 June 2002. Mr. Malsberger stated the document will most likely be completed prior to this date. The Air Force is hoping that Phase 2 will be conducted this year.

Mr. Lucey asked if the agencies will be able to comment on the draft final design. Mr. Malsberger stated that Travis AFB historically has addressed comments that were submitted on the draft final. However, the agencies would need to do an accelerated review in order to get the final out in time to conduct the Phase 2 work.

Mr. Malsberger will notify the agencies of the revised due date of the draft final.

**H. US F&WS Review of Draft LF007C Remedial Design**

Mr. Malsberger stated that he is still working with the U.S. Fish and Wildlife Service (US F&WS). Mr. Malsberger is working with Mr. Ken Fuller, who informed him that the US F&WS is short of personnel.

Mr. Fuller stated that he did review some parts of the draft and requested a revision of the proposed alternate pipeline route, which will go over the vernal pool rather than along the fence line. He wants the Air Force to run the pipeline more to the west; approximately 250 feet away from vernal pool. Mr. Malsberger and Mr. Brian Garber will send a revised sketch.

Mr. Malsberger will contact Mr. Fuller's supervisor to get the document reviewed.

**I. Draft Final SD042 Remedial Design Package**

Mr. Anderson stated that the changeout package to convert the draft final SD042 Soil Remedial Design Package to a final SD042 Soil Remedial Design Package was distributed at today's meeting.

**J. Draft SD045 Remedial Design Package**

Mr. Anderson stated that the draft SD045 Soil Remedial Design Package is in agency review.

**K. Draft LF008 Remedial Design Package**

Mr. Anderson stated that the draft LF008 Soil Remedial Design Package is still in the pre-draft stage. Mr. Anderson explained that the remedial design packages

were delayed because he wants to ensure that any existing land use controls on Travis AFB are addressed in the package to avoid conflicts during the remedial action.

**L. Draft LF044 Remedial Design Package**

Mr. Anderson stated that the draft LF044 RD Package was submitted on 29 April 2002. This is a design package for the construction of a fence and a berm, the physical aspects of land use controls. Administrative land use controls will be addressed later in the Travis AFB Land Use Control Plan to be published at a later date.

**M. RW013 Remedial Action Preparation**

Mr. Anderson stated that discussions with ECC have begun concerning the work plan and coordinating with various Air Force agencies. The Air Force is planning to excavate this summer because the soil will not be consolidated to the CAMU.

**N. LF008 O&M Manual**

Mr. Anderson stated that Mr. Lucey has received a second copy of the Air Force's response to comments. The Air Force is now waiting to hear from Mr. Lucey.

**O. DP039 Treatability Study Report**

Mr. Anderson stated that approximately two weeks ago the Air Force proposed removing the discussion concerning the rebound study in order to close out document. This proposal was emailed to the U. S. EPA; however, the message contained an incorrect title.

Ms. Raker asked about a 5-year review report. Mr. Brickeen stated that it will be developed after the Annual Groundwater Sampling and Analysis Report so the data from the report can be included in the 5-year review.

**P. Reactive Wall Report**

Mr. Anderson stated that the agencies' comments are due in approximately one week. Mr. Salcedo stated that DTSC comments will be sent shortly. Ms. Raker stated that she has deferred to U.S. EPA and DTSC.

Mr. Lucey stated that he will defer to DTSC; however, he may have minor comments.

**Q. RD/RA Plan Response to Comments Review**

Mr. Malsberger stated that the Air Force has received U.S. EPA's response to the Air Force's response to comments. These responses will be incorporated into the draft final version of the Basewide Soil RD/RA Plan to be issued on 15 May 2002.

#### **4. PROGRAM ISSUES UPDATE**

##### **A. CQCP as Informational Document**

The agencies concur that the CQCP for the soil designs should be an informational document.

##### **B. Funding FY02**

Mr. Brickeen reported that AMC is working on additional funds for three Travis AFB projects; 5-Year Review, GIS, and the Strategic Plan Update.

Travis AFB has awarded contracts for GSAP, SBBGWTP O&M, free product removal, landfill cap design, project estimating support, and RAB support.

Projects that have not been awarded are SS041 remedial design, off-base monitoring well installation for LF007C, the LF007C easement, and Title 2 support.

All issues have been resolved regarding the MILCON; Travis AFB does not have any project considered MILCON. AMC will provide approximately \$7 million to fund remaining projects. AMC expects to release all funds to the service centers (AFCEE) by mid-June 2002. Travis AFB projects will be 100% funded.

##### **C. RAB Topics and Newsletter Articles**

Mr. Brickeen distributed a handout on the future RAB topics and newsletter articles (see Attachment 5).

Ms. Raker requested additional information on the Union Creek protection.

Mr. Brickeen stated that in February 2000, Travis AFB experienced a significant fuel spill at a tank farm, which discharged several thousand gallons in the west branch of Union Creek. It took some time to put the counter measures in place to stop the migration of the fuel in the creek. The counter measures included responding with the right equipment and getting the booms deployed.

Mr. Steve Stopher wanted to put something in place that would allow a quicker response. Mr. Stopher, in his spare time over the last year, has found excess materials and placed storage containers at five points along the creek, each stocked with spill prevention equipment. He designed and installed a "clothesline" deployment system. This system allows the first person who gets to the site to take action to halt the migration.

Mr. Stopher has salvaged approximately \$100,000 of building materials and equipment from around the base and the only cost to Air Force is \$241 for signs.

Ms. Raker asked if Mr. Stopher is on the contact sheet. Mr. Brickeen stated that Mr. Stopher is on the list.

Mr. Brickeen commented that Mr. Stopher did this because of his own recognition of the problem and the need for a solution.

**D. Field Activity Reports**

Mr. Brickeen distributed the field activity reports from CH2M Hill and URS (see Attachments 6 and 7).

**ACTION ITEM LIST  
(Action Items Closed)**

AGENDA	RESPONSIBLE	ACTION ITEM	DUE DATE	STATUS
1.	Agencies	To review the CQCP and determine if it is necessary to review the draft document in the future.	Open	The Air Force and the agencies agreed that it was not necessary to review the CQCP as a primary document. The CQCPs will be considered as informational documents. Completed. <b>Item Closed.</b>
2.	U.S. EPA	To review and comment on the CGWTP O&M Manual.	4-19-02	Mr. Lucey stated that he did have comments. To be discussed after today's meeting. Completed. <b>Item Closed.</b>
3.	U.S. EPA	To review and comment on the RD/RA plan response to comments.	4-19-02	Mr. Malsberger stated that Mr. Lucey was okay with the Air Force's response to comments and wanted to clarify what documents are considered primary documents in the FFA. The remaining responses will be incorporated in the draft final. Completed. <b>Item Closed.</b>
4.	DTSC	To provide recent PCB guidance.	Open	Completed. <b>Item Closed.</b>

**ACTION ITEM LIST  
(Action Items Open)**

<b>AGENDA</b>	<b>RESPONSIBLE</b>	<b>ACTION ITEM</b>	<b>DUE DATE</b>	<b>STATUS</b>
1.	RWQCB	Follow up on the letter from the Air Force in response to the notice of violation for the NGWTP.	Open	Pending.