

**Travis Air Force Base  
Environmental Management  
Environmental Management, Building 570, Travis AFB, California  
Environmental Restoration Program  
Remedial Program Managers Meeting  
Meeting Minutes**

**9 June 2004, 0930 Hours**

Mr. Mark Smith, Travis Air Force Base (AFB), conducted the Remedial Program Managers (RPM) meeting held on 9 June 2004 at 0930 in the Base Civil Engineering Conference Room, Building 570, Travis AFB, California. Attendees included:

- Mark Smith Travis AFB
- Glenn Anderson Travis AFB
- Dale Malsberger Travis AFB
- Tom Sreenivasan Travis AFB
- Wilford Day Travis AFB
- Gregory Parrott 60 AMW/JA
- John Lucey U.S. Environment Protection Agency (U.S. EPA)
- Elizabeth Allen TechLaw
- Sarah Raker Regional Water Quality Control Board (Water Board)
- Jose Salcedo Department of Toxic Substances Control (DTSC)
- Kristine Escarda DTSC
- Mike Wray CH2M Hill
- Amir Matin URS
- Eric Rixen Shaw Engineering and Infrastructure (Shaw E&I)

Handouts distributed throughout the meeting included:

- Attachment 1 Meeting Agenda
- Attachment 2 Master Meeting, Teleconference, and Document Schedules
- Attachment 3 SBBGWTP Monthly Data Sheet (May 2004)
- Attachment 4 CGWTP Monthly Data Sheet (May 2004)
- Attachment 5 NGWTP Monthly Data Sheet (May 2004)
- Attachment 6 URS Field Activities, Travis AFB (May 2004)

## **1. ADMINISTRATIVE**

### **A. Introduction**

Mr. Mark Smith introduced Ms. Christine Escarda, DTSC's Public Participation Specialist.

### **A. Previous Meeting Minutes**

The previous meeting minutes from the May 2004 RPM meeting were distributed during today's meeting. These minutes will be approved and finalized during July's RPM meeting.

### **B. Master Meeting and Document Schedule**

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

#### **Travis AFB Master Document Schedule**

- Page 3, LF008 Groundwater Extraction System Operation and Maintenance (O&M) Manual and DP039 Groundwater Dual Phase Extraction System O&M Manual final due dates were changed to 28 May 2004.
- Page 4, the *Guardian* Newsletter schedule was updated.
- Page 5, the Groundwater Sampling and Analysis Plan (GSAP) schedule was added to the schedule. Dates are to be determined (TBD).

## **2. OPERABLE UNIT UPDATE**

### **A. North, East, West, Industrial Operable Unit Plan of Action and Milestones**

#### **1. Ecological Technical Memorandum**

##### **a. Field Sampling Plan for Union Creek**

Mr. Malsberger stated that the electronic final Field Sampling Plan (FSP) for Union Creek was submitted on 27 May 2004.

##### **b. Union Creek Sampling**

Mr. Malsberger stated that the Union Creek field sampling started on 2 June 2003 and should be completed by today. Mr. Mike Anderson and Mr. Jose Salcedo observed the sampling.

Crayfish traps were set at three sites along Union Creek and a sufficient amount of crayfish were caught for tissue sampling. The crayfish trap set upstream of the Duck Pond for a reference sample

did not collect any crayfish after several attempts at different locations.

An update on the results will be given by the next RPM meeting.

## **2. Human Health Technical Memorandum**

Mr. Malsberger stated that the Air Force has received comments from the agencies for the Human Health Technical Memorandum.

Mr. Malsberger stated that he received and responded to comments concerning hits above the residential preliminary remedial goals (PRGs) level at no further action sites from Mr. Salcedo. It was agreed that if the risk at a no further action site was below industrial levels but above residential levels, a land use control would be required.

Ms. Raker asked what is the exposure pathway that the Air Force is concerned about with sediment sampling. Mr. Malsberger stated that there were human health issues with the sediment.

Ms. Raker stated that the Human Health Technical memorandum deferred the sediment sampling until the data was collected. Mr. Malsberger stated that the Air Force is hoping that the sediment will come back low enough that it would not be an issue. If the sediment PRG level is still high and will impact human health, land use controls may be appropriate.

Ms. Raker asked if the Air Force has land use controls for Union Creek. Mr. Malsberger stated that he is not sure how formal the land use controls are.

Ms. Raker asked if the Air Force excavates portions of Union Creek, where will the sediment material be placed. Mr. Malsberger stated that currently the Air Force's dredging policy for flood control is to remove vegetation only with the minimum removal of sediment possible. The removed vegetation (with minimal sediment) is placed at nearby upland areas. If sediment were dredged as a remedial action, the sediment would be placed in an appropriate location based on the levels of contamination in the dredge material. It is quite possible that the material would not pose a human or ecological risk if placed in an upland area.

## **3. Vapor Intrusion Consideration for PRGs**

Based on a comment from U.S. EPA on the Draft Human Health Technical Memorandum, the Air Force is looking at contaminants in the soil that might pose a threat to human health for indoor air. For the NEWIOU Soil ROD, the Air Force is looking at the vadose zone to see what samples indicate VOC hits. Mr. Malsberger stated that there is a difference between the Water Board and U.S. EPA's screening numbers for vapor intrusion. The Air Force will review the calculations and

determine which sites will be impacted if these numbers are used for the risk criteria.

Mr. Malsberger will keep the RPMs updated.

Mr. Malsberger asked the agencies what is taking place concerning vapor intrusion at other installations.

Ms. Raker stated that there is a PCE plume at Treasure Island. The Water Board evaluated the existing tenants that are above the PCE plume to determine if they were having any problems. However, the assumptions were different than for a long-term human health condition because the building was well ventilated alleviating any threat. Now that the building is vacated, remediation is taking place. The site will not be closed until the residual concentrations in soil and soil gas are evaluated.

Other sites were discussed such as Moffett Federal Airfield and Hill AFB.

Mr. Malsberger asked the agencies what would be necessary to do to be protective of human health concerning the indoor air issue. The groundwater may be an issue; however, it is not being addressed in the Soil ROD.

Ms. Raker stated that the Air Force should evaluate the groundwater threat to indoor air in the groundwater ROD, when determining the cleanup levels.

Mr. Malsberger asked if it would appropriate to place in the Vadose Zone ROD that potential significant indoor air problems are generated from the groundwater and will be addressed in the future Groundwater ROD or in an interim risk assessment. Ms. Raker stated that this should be demonstrated in the data.

Mr. Malsberger stated that for the NEWIOU Soil ROD he would like to differentiate if there is a source in the vadose zone or if there is a problem at the site due to the saturated zone.

#### **4. Early Remedial Designs for FT003 and FT005**

Mr. Malsberger stated that the early Remedial Designs for FT005 and FT003 were submitted to the agencies requesting review and concurrence of the ecological risk assessment and risk management decisions.

Comments were received from Mr. Mike Anderson and Ms. Sonce Devries. Many of the comments were about the confusion between risk assessment and risk management decision due to the format of the table. To avoid further confusion, Mr. Malsberger submitted an email with a revised table of risk assessment only.

The Air Force is requesting concurrence on the risk assessment for FT003 in order to develop the proposed risk management decision. Due to the funding deadline, the Air Force will proceed with the design for FT003.

The risk assessment table for FT005 will also be revised. The Air Force's position for eco is that no excavation is required. For human health, there are PAHs that are above PRGs with the source being asphalt. Since it is ubiquitous contamination due to asphalt, the recommendation would be institutional controls.

## **5. Overall Schedule**

Mr. Malsberger stated that the Air Force will try to adhere to the schedule for FT003 design.

## **3. CURRENT PROJECTS**

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

Mr. Sreenivasan reported that the SBBGWTP performed at 100% uptime with approximately 7.1 million gallons of groundwater extracted and treated during the month of May 2004. The average flow for the SBBGWTP was 155 gallons per minute (gpm). Approximately 3.0 pounds of volatile organic compounds (VOCs) were removed during May 2004. The total mass of VOCs removed since startup of the system is approximately 251 pounds (see Attachment 3).

The plant experienced no shutdowns during the month of May.

Approximately 4,000 gallons of hydrant pit water was processed at this plant over a four day period at the end of April. The results from this sample were received in May and are reported in Table 1 of the monthly data sheets.

No optimization activities were planned or performed at this plant during May 2004.

Ms. Raker asked if there is a possibility of using the treated water from this plant for irrigation purposes. Mr. Sreenivasan stated that Ms. Barbara Settles has been using approximately 3% of the total water treated for irrigation during each summer.

Ms. Raker asked if there is a need for irrigation for the south portion of Travis AFB. Mr. Sreenivasan stated that the Air Force is determining if this is necessary. Mr. Smith stated that he is unaware of any specific irrigation plans for the south portion of Travis AFB.

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

Mr. Sreenivasan reported that the Central Groundwater Treatment Plant (CGWTP) performed at 100% uptime with approximately 3.6 million gallons of

groundwater extracted and treated during the month of May 2004. The average flow for the CGWTP was 81 gpm. Approximately 611 pounds of VOCs (of which 589 pounds were from vapor) were removed during May 2004. The total mass of VOCs removed since startup of the system is 5,354 pounds (see Attachment 4).

The thermal oxidation system continued to treat soil vapor from the 2-phase well as part of the SS016 focused vapor extraction activities. System vapor samples are scheduled to be collected in June 2004.

The West Treatment and Transfer Plant (WTTP) vacuum blowers remained off line during the rebound study. Rebound samples will be collected and analyzed in September 2004.

The irrigation system was restarted May 2004. Approximately 1.94 million gallons of the 3.62 million gallons of the treated water from CGWTP was used for irrigation this month. The remainder was discharged to the storm drain.

No optimization activities were planned or performed at CGWTP during May 2004.

### **C. North Groundwater Treatment Plant**

Mr. Sreenivasan reported that the North Groundwater Treatment Plant (NGWTP) performed at 96% uptime with approximately 0.8 million gallons of groundwater extracted and treated during the month of May 2004. The average flow for the NGWTP was 17.3 gpm. Five pounds of VOC mass were removed from vapor and one pound was removed from groundwater through extraction during May 2004. The total mass of VOCs removed since startup of the system is 5,281 pounds (see Attachment 5).

The NGWTP experienced two shutdowns during the month of May 2004. One was caused by failure and the subsequent replacement of the plant eductor supply pump. The other was to replace the eductor jet pump at EW580x04.

The soil vapor extraction (SVE) system was restarted on 18 May 2004 and approximately five pounds of vapor were extracted and treated during the last two weeks of May 2004.

The project for the enhanced contaminant removal at site FT004 is with AFCEE contracts for procurement. The anticipated award date will be early July 2004.

All treated groundwater from the plant was sent to the duck pond for beneficial use.

Ms. Raker suggested that the data sheet should state that modifications are ongoing for optimization activities. Mr. Sreenivasan concurred.

**D. Groundwater Sampling and Analysis Program**

Mr. Sreenivasan stated that the annual event of the GSAP for 2003-2004 is complete and the samples have been sent to the laboratory for analysis.

**E. CAMU**

**1. CAMU Presentation at the Water Board**

Mr. Malsberger will give a presentation to the Water Board in Oakland, California, on 23 June 2004 at 1:00 p.m.

**2. CAMU Wetland Mitigation Performance Criteria**

Mr. Malsberger stated that the field inspections are completed. A report will be issued describing the condition of the pools along with recommendations for any necessary actions.

**3. Quarterly Inspection and Monitoring Report**

Mr. Malsberger stated that the Second Quarter CAMU Inspection and Monitoring Report was submitted on 21 May 2004.

Ms. Raker asked about the gypsum block. Mr. Rixen stated that the gypsum blocks were installed at the end of the project. During the first rainfall event, the top two gypsum blocks (six inches and one foot deep) showed soil moisture. The second report stated that the gypsum blocks showed no signs of water. This could have been because the bentonite material that surrounds the gypsum block affected the reading by keeping the moisture from the gypsum blocks or causing the block to dry out quickly. It was recommended that after the next rainfall event, the gypsum blocks be checked to determine if the blocks accurately reflect whether water is infiltrating the cap.

**F. LF007 C Groundwater Remedial Action**

Mr. Malsberger stated that Shaw E&I is starting the LF007 C Groundwater Interim Remedial Action. Pumps are being installed in the two extraction wells, solar panels are being placed to power the pumps, and the pipeline will go back to the NGWTP. Anticipated startup is August 2004.

The kickoff meeting will be 10 June 2004.

**G. RW013 Closeout Report**

Mr. Anderson stated that the draft final RW013 Closure Report was submitted to the Air Force vice-Wing Commander for signature. However, a policy change took place March 2004, stating that any type of decision document and statement of basis are to be coordinated with AMC/A7V prior to release to the regulatory

agencies. Therefore, the Air Force signing of the RW013 Closeout Report signature page has been temporarily delayed.

The next closeout site will be SD042.

#### **H. DP039 Optimization Project**

Mr. Anderson stated that the DP039 Optimization Project began on 7 June 2004, which entails collecting groundwater samples from 23 monitoring points. The phytostabilization program manager will oversee this project.

The arrival of the Kansas City District Corps of Engineers Site Characterization and Penetrometer System (SCAPS) truck was delayed due to a flat tire. Travis AFB will request the SCAPS truck to remain on the base until the majority of the field work is complete.

The direct-push investigation is tentatively planned to begin on 11 June 2004 around the Battery Shop. The priority is to focus on the potential leach field associated with the former battery acid neutralization sump.

Mr. Anderson reported that during the last groundwater sampling events, there were complications because of the growth of tree roots into the local piezometers. It appears that the root systems have reached the water table and are now in the capillary fringe.

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

#### **A. Air Mobility Command Remedial Process Optimization**

Mr. Smith stated that Air Mobility Command (AMC) has taken an interest in Travis AFB's long-term monitoring and remedial action operations. AMC has asked for an inventory on long-term monitoring projects such as treatment plants, GSAP, CAMU, etc. AMC is starting a Remedial Process Optimization effort and will visit Travis AFB in September 2004 to determine how the remedial processes may be optimized.

#### **B. Funding**

Mr. Smith stated that in 2005, there will be a push to do performance-based contracting over a five year period with specific objectives for groundwater cleanup. An optimization push is also expected. How this will affect future funding is unclear and specific guidance on multi-year funding has yet to be provided. He will keep the RPMs posted as developments happen.

#### **C. Field Activity Reports**

Mr. Smith distributed the field activity reports from URS (see Attachment 6).



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

<b>ITEM #</b>	<b>RESPONSIBLE</b>	<b>ACTION ITEM</b>	<b>DUE DATE</b>	<b>STATUS</b>
1.	Air Force	Issue the revised risk management design package for FT003 and FT005	13 May 2004	Completed. <b>Item Closed.</b>

## ACTION ITEM LIST

(Action Items Open)

ITEM #	RESPONSIBLE	ACTION ITEM	DUE DATE	STATUS
1.	Air Force	Develop a presentation on the CAMU to the Water Board's landfill regulators.	23 June 2004	Completed. <b>Item Closed.</b>
2.	Air Force	To develop the NFRAP document for SS041.	October 2004	Ongoing. Additional coordination with AMC required.