

**Travis Air Force Base
Environmental Management
Building 570, Civil Engineering Conference Room
Environmental Restoration Program
Remedial Program Managers Meeting
Meeting Minutes**

10 March 2004, 0930 Hours

Mr. Glenn Anderson, Travis Air Force Base (AFB), conducted the Remedial Program Managers (RPM) meeting held on 10 March 2004 at 0930 in the Civil Engineering Conference Room in Building 570, Travis AFB, California. Attendees included:

- Glenn Anderson Travis AFB
- Mark Smith Travis AFB
- Dale Malsberger Travis AFB
- Wilford Day Travis AFB
- Tom Sreenivasan Travis AFB
- Roby Gregg Air Force Center for Environmental Excellence (AFCEE)
- 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)
- Amir Matin URS
- Elise Willmeth 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 Water Board's Draft "Agree to Disagree" Language Regarding Basin Plan ARARs for Travis NEWIOU ROD
- Attachment 4 SBBGWTP Monthly Data Sheet (February 2004)
- Attachment 5 CGWTP Monthly Data Sheet (February 2004)
- Attachment 6 NGWTP Monthly Data Sheet (February 2004)
- Attachment 7 Monthly Amount of Product Removed (in gallons) at SD034
- Attachment 8 Monthly Amount of Product Removed (in gallons) at SS014
- Attachment 9 URS Field Activities, Travis AFB (February 2004)

1. ADMINISTRATIVE

A. Previous Meeting Minutes

The minutes from the February 2004 RPM meeting were approved with changes and finalized.

B. Master Meeting and Document Schedule

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

Travis AFB Master Meeting and Document Schedule

- Page 2, SD042 Remedial Action Report schedule was corrected. Draft final due date was changed to NA (not applicable) and final due date was changed to 28 January 2004 to reflect the actual submittal date.
- Page 3, South Base Boundary Treatment Plant Operation and Maintenance (O&M) Manual. Mr. Sreenivasan asked the agencies to submit comments by 5 March 2004 in order to stay within the schedule.
- Page 4, Groundwater Sampling and Analysis Program (GSAP) Annual Report response to comments and final due date was changed to 20 February 2004.

Note: Ms. Raker requested that all references to the RWQCB be changed to the Water Board.

2. OPERABLE UNIT UPDATE

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

1. Ecological Technical Memorandum

a. Comments, Responses, Meeting Minutes

Mr. Malsberger stated that the Ecological Technical Memorandum response to comments table is being updated to reflect the response from the technical meeting. Agreement was reached on many issues. The revised response to comments will be submitted within two weeks.

A schedule for the revised technical memorandum will be developed.

b. Union Creek Sampling

Mr. Malsberger stated that the Air Force has not received comments from the agencies on the proposed sampling locations. Mr. Lucey stated that he will have his comments by the end of next week.

Mr. Salcedo stated that he spoke with Mr. Mike Anderson who is requesting tissue sampling of crayfish. DTSC will submit a formal request to the Air Force. Mr. Mike Anderson is in agreement with the proposed sampling.

Ms. Raker made the following comments on the rationale for the SD001/SD033 field sampling plan:

- Travis AFB's stormwater program – The report states “in addition, industrial activities at Travis AFB have changed to eliminate sources of contamination.” She asked for clarification of when the change began. Was it from 1995 when the remedial investigations (RIs) were conducted; since Travis AFB was identified as a Superfund site; or since stormwater practices were implemented? Mr. Malsberger agreed that “eliminate” may be too strong of a word, perhaps the word “reduce” would be more appropriate. He will add clarification to the statement as requested.
- On page 1 – Amend the statement “samples will be collected at a depth of one foot” to include the statement “and surface samples.”
- The west branch sampling rationale – Ms. Raker asked if this sampling location is really based on curves and outfalls. Ms. Willmeth stated that for the west branch, the sampling location was chosen based on results of previous sampling. The locations of the previous samples tended to be at curves or near the outfalls.
- Sample U-24 where the creek flows into a culvert under the runway. Sample U-17 where the outfall is located. Is the Air Force looking at places where it suspects to see the most accumulation of sediment? Ms. Willmeth stated yes. Mr. Malsberger stated that another reason for the sampling location is that there are low hits with a sudden high hit that indicates the introduction of a source.

It was agreed that these responses to Ms. Raker's comments would be added to the sampling plan.

Mr. Lucey stated that the following were not addressed:

- Representation of the background sampling;
- Upstream sampling of the duck pond;
- Depth of sediment (survey of sediment thickness);
- Vertical characterization (depth profile); and
- Data on the spawning areas for salmon.

Mr. Malsberger asked Mr. Lucey for specifics regarding sediment depth and vertical characterization. Mr. Lucey stated that thickness

does not have to be an analytical vertical profile. There may be hot spots within Union Creek. The purpose of this characterization is to define the sediment thickness.

Mr. Malsberger stated that revisions will be made to the sampling plan based on Mr. Lucey's comments.

Mr. Lucey stated that the best approach for gathering data on the spawning areas for the salmon is to consider Union Creek as potential habitat.

Mr. Lucey also requested that the Air Force expand on the information concerning dredging of Union Creek. Mr. Malsberger stated that this information is presented in the draft Ecological Tech Memorandum. Because of the dynamic nature of dredging, current data are required. The results of the sampling will be included in Appendix A.

Ms. Raker asked if a timeline has been developed for the sampling event and for analyzing data. Mr. Malsberger stated not yet but he will develop one by the next RPM meeting.

Ms. Raker asked when is the optimum time to sample the water column. Mr. Malsberger asked the agencies if there was a preference; the Air Force plan is to do it as soon as the sampling plan is finalized.

2. Big Picture Issues

a. Human Health Technical Memorandum

Mr. Malsberger stated that the Air Force requires an internal copy of the record of decision two months (3 October 2004) before it is sent to the agencies.

Mr. Malsberger stated that the Water Board suggested the Air Force develop a human health technical memorandum that would include site information such as the human health risk, contamination, and proposal for actions and cleanup levels. This is the information that was presented at RPM meetings in 2002 and 2003, but the Air Force will formally issue this information so it can be referenced in the NEWIOU Soil ROD.

Ms. Raker asked if this technical memorandum will be a summary of the RIs. Mr. Malsberger stated that this technical memorandum uses RI data. The delineation of sites is based on RI risk; but cleanup actions will be based on the industrial preliminary remediation goals (PRGs).

Ms. Raker asked if the RIs had risk assessments and how the risk assessments compare to this technical memorandum. Ms. Willmeth stated that the RIs performed risk assessments and determined which contaminants of concerns were present. The technical memorandum will determine the areas where remediation is required and will summarize the RI data.

Mr. Malsberger stated that the three technical memoranda (groundwater, ecological, and human health) would result in a concise ROD.

Ms. Raker requested that a tentative schedule be given to the agencies on the upcoming reviews.

b. Risk Management Decision Making for Ecology

Mr. Malsberger stated that the URS risk assessors narrowed the risk management decisions to items that exceeded the Tier II critical toxicity values (CTVs). The risk assessors requested that both Tier I and Tier II CTVs be reflected in the summary table to give a range.

Ms. Raker requested a color-coded figure and/or flow chart in order to see the spatial distribution of contamination and risk management.

Mr. Malsberger distributed a handout titled Summary of Tier I and Tier II Toxicity Quotients at FT005 and Recommended Action. This document is an example of the screening that each site would go through prior to a risk management decision being made. This document is intended to streamline the process and save dollars, while having a conservative approach and satisfying the requirements. It was agreed that this document be emailed to the agencies for discussion with risk assessors.

Mr. Malsberger requested the agencies to review this document and consider if the approach is reasonable.

c. Early Remedial Designs

Mr. Malsberger stated that the Air Force has funding for remedial designs at 22 sites. Some funding for remedial designs will expire in September and some in December 2004. The Air Force has requested that this funding be used to begin the designs. Eventually, cleanup levels and/or actions will be needed. The Air Force will start FT003 and FT005 designs. These sites have human health issues.

The risk management document will be emailed to the agencies in order to come up with a cleanup level for FT003 and FT005.

d. Applicable or Relevant and Appropriate Requirements

Ms. Raker distributed a handout titled the Water Board's Draft Agree to Disagree Language Regarding Basin Plan ARARs for Travis NEWIOU ROD (see Attachment 3). This page will go into the ARARs section of the ROD.

The next step will be to update the ARARs table and place a footnote to indicate this language.

3. CURRENT PROJECTS

A. South Base Boundary Groundwater Treatment Plant

Mr. Sreenivasan reported that the South Base Boundary Groundwater Treatment Plant (SBBGWTP) performed at 100% uptime with approximately 6.5 million gallons of groundwater extracted and treated during the month of February 2004. The average flow for the SBBGWTP was 155 gallons per minute (gpm). Approximately 1.4 pounds of volatile organic compounds (VOCs) were removed during February 2004. The total mass of VOCs removed since startup of the system is 242 pounds (see Attachment 4).

The plant experienced no shutdowns during the month of February 2004.

Specific optimization activities have been completed for extraction wells at sites SS029, SS030, and FT005.

Nine new extraction wells were put into operation in February 2004.

Approximately 500 gallons of well development water were processed using the air stripper. This water was generated during the installation of MW619x07 and MW620x07.

Approximately 900 gallons of hydrant pit water were processed using the oil/water separator and liquid-phase granular activated carbon (LGAC) treatment during the first consignment. The rest of the 5,000 gallons will be treated through the plant during the next couple of weeks. An additional 3,000 gallons have been accumulated and stored in the tank adjacent to the plant. This will be sampled for all the contaminants, including total petroleum hydrocarbons.

Mr. Anderson stated that treating water from the pits is a recent occurrence for Travis AFB, and a project is scheduled this year to seal the hydrant pits.

B. Central Groundwater Treatment Plant

Mr. Sreenivasan reported that the Central Groundwater Treatment Plant (CGWTP) performed at 100% uptime with approximately 3.8 million gallons of groundwater extracted and treated during the month of February 2004. The average flow for the CGWTP was 90 gpm. Approximately 382 pounds of VOCs

(of which 362 pounds were from vapor) were removed during February 2004. The total mass of VOCs removed since startup of the system is 5,125 pounds (see Attachment 5).

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 and analyzed in March 2004 (quarterly frequency).

The West Treatment and Transfer Plant vacuum blowers remain off line during the rebound study. Rebound samples will be collected and analyzed in March 2004 (semi-annual frequency).

All treated water was diverted to the storm sewer which is the standard operating procedure during the winter months. The Air Force will resume irrigation of Area 200 in the spring.

Specific optimization activities pertaining to extraction wells on sites SD037 and SD043 are complete. Also recommendations and concurrence for the stoppage of free product removal at sites SD034, ST032, and SS014 are under regulatory review. Selected activities will be implemented as soon as consensus is reached.

C. North Groundwater Treatment Plant

Mr. Sreenivasan reported that the North Groundwater Treatment Plant (NGWTP) performed at 100% uptime with approximately 1.0 million gallons of groundwater extracted and treated during the month of February 2004. The average flow for the NGWTP was 23 gpm. One pound of vapor and groundwater VOC mass was removed through extraction during February 2004. The total mass of VOCs removed since startup of the system is 5,274 pounds (see Attachment 6).

The NGWTP experienced no shutdowns during the month of February 2004.

The soil vapor extraction system remained off line due to water levels above the well screens.

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

Economic and engineering evaluation is underway to increase contaminant mass removal at SD031 using alternative approaches. The recommendations will be transmitted to the regulatory agencies for their concurrence.

D. SS015 Monitoring Wells Location

Mr. Sreenivasan stated that the agencies provided comments during the teleconference on the five proposed locations for base monitoring wells (MW104x15, MW105x15, MW216x15, MW238x15, and MW315x15). The agencies are in agreement with the proposed well locations.

Mr. Malsberger stated that the wells could be located at the top and bottom locations shown on the figure; Ms. Raker agreed.

According to the Civil Engineering Project Engineer the construction might begin in the spring of 2005.

E. CAMU Phase 2 Project Summary Report

Mr. Malsberger stated that the agencies' comments on the draft CAMU Phase 2 Project Summary Report are due on 22 March 2004. Ms. Raker had no comments. Mr. Lucey and Mr. Salcedo are still looking at the document. Ms. Raker and Mr. Salcedo commented that the figures and photos were well done.

The Air Force will give a presentation to the Water Board in Oakland, California, on 28 March 2004 at 1300 hours. Mr. Malsberger will email the PowerPoint® presentation to Ms. Raker for review.

F. CAMU Wetland Mitigation Performance Criteria

Mr. Malsberger stated that the Air Force is still on track for presenting the criterion at the end of March 2004.

Shaw E&I will do a 3 or 4 day survey during April and June to determine if additional action is required to develop vernal pools and wetlands.

G. LF008 Soil Remedial Action Report Review

Mr. Anderson stated that the LF008 Soil Remedial Action Report is being reviewed by the regulatory agencies and the Restoration Advisory Board (RAB). Mr. Salcedo will provide his comments by 16 March 2004. Mr. Lucey had no comments. Ms. Raker has sent a concurrence letter to the Air Force.

H. Land Use Control Report

Mr. Anderson distributed a copy of the final Annual Report for the Status of Land Use Controls on Restoration Sites (January 2004) to Mr. Lucey and Mr. Salcedo. He also sent an electronic copy to Ms. Raker.

Mr. Anderson stated that the Annual Report for the Status of Land Use Controls on Restoration Sites is a requirement in the WABOU Soil ROD. The Air Force is to inspect every land use control site on an annual basis to ensure that the controls are working properly. Travis AFB has chosen to inspect these sites monthly.

During the 2003 construction season, a concrete pad was constructed at Building 916 (SD043) and an emergency generator placed on top. This construction activity was addressed in the Annual Report.

Mr. Anderson stated that Travis AFB did not violate the spirit of the land use controls written in the ROD; however, the internal process that Travis AFB was to use to manage the controls did not hold up. The report was signed by Col. Sevier. This document was also reviewed by AMC, Air Staff, and the Office of the Secretary of the Air Force.

Discussion took place on the notification process that Air Force used for the regulatory agencies. Mr. Anderson solicited recommendations from the agencies on more appropriate notification procedures. Mr. Anderson stated that Travis AFB will be visited by Ms. Maureen Koetz, the Assistant Deputy Secretary of the Air Force for Environment, Safety and Occupational Health.

I. Storm Water Pollution Prevention

Mr. Anderson asked if there is anything specific the agencies want to know about Travis AFB's Storm Water Pollution Prevention Plan. Ms. Raker stated that she would like the following information.

- What is the current Storm Water Pollution Prevention Control Plan at Travis AFB?
- When and where do you sample?
- What do you analyze?
- How do you report and what is the frequency of the reports?
- How often is the catch basin cleaned?

She would also like to be walked through the storm drain maps including a description of the water flow on Travis AFB.

Ms. Raker stated that the presentation does not need to last an hour. The main purpose is to describe what is done on an annual basis to meet the requirements of the permit.

J. Free Product Removal

Mr. Wilford Day stated that the amount of fuel recovered significantly decreased in 2001. The decline of free product in SD034 is not as substantial as in SS014.

Between March 2003 and February 2004, 2.69 gallons were collected at SD034 and 1.81 gallon was collected SS014.

URS has not been keeping track of the cost to manage the skimmer; it was part of their overall contract. However, in the bid, \$580 per month was estimated for the skimmer portion of the contract, which translates into approximately \$200 per pound for product recovered within the last year.

It is the recommendation of Travis AFB to stop the skimmer's operation.

Ms. Raker agreed and stated that the skimmer's operation has reached asymptotic levels. Mr. Lucey and Mr. Salcedo are also in agreement.

K. Restoration Advisory Board Update

Mr. Sreenivasan stated that the April 2004 pre-dry run and the dry run dates will be announced next week through an email. The *Guardian* will be printed and published on schedule for distribution. The RAB meeting will be held on 22 April 2004 at the Northern Solano County Association of Realtors office in Fairfield.

A middle school environmental education project has been scheduled for 6 April 2004. This has been organized by URS and the Travis AFB Public Affairs office. Agency participation in this project will be very much appreciated.

Mr. Anderson stated that the next few issues of the *Guardian* will focus on the function of the RAB such as the budget, setting priorities, document review, etc. Mr. Anderson asked the agencies to provide a viewpoint on the RAB (July, October, and December).

Mr. Anderson stated that it is the Air Force's desire to provide recognition in the January 2005 RAB meeting for the long-term members.

4. PROGRAM ISSUES UPDATE

A. Project Funding and Prioritizing

1. Funding

Mr. Anderson stated that AFCEE is placing funds on contract for fiscal year 2004.

B. Field Activity Reports

Mr. Anderson distributed the field activity reports from URS (see Attachment 9).

ACTION ITEM LIST

(Action Items Open)

ITEM #	RESPONSIBLE	ACTION ITEM	DUE DATE	STATUS
1.	Air Force	To provide evaluation of the FT004 monitoring well (MW131x04) to be converted to an extraction well	12 March 2004	Ongoing.
2.	Air Force	To develop a presentation on the CAMU to the Water Board's landfill regulators.	28 April 2004	Pending. To be presented by Mr. Malsberger along with CH2M Hill and Shaw representatives. Tentative date is 28 April 2004.
3.	Air Force	Develop the NFRAP document for SS041.	May 2004	Ongoing.
4.	Agencies	To provide comments on proposed locations for SS015 monitoring wells.	10 March 2004	The Air Force is still working with COE in determining the locations for the monitoring wells. Installation will include 2 or 3 new wells and the decision will be made in the summer 2004. Ongoing.
5.	Air Force	Provide rationale for the proposed locations to re-sample at Union Creek	25 February 2004	Ongoing.
6.	Agencies	To have risk assessors review proposed locations to resample at Union Creek	10 March 2004	Ongoing.

ACTION ITEM LIST

(Action Items Open)

ITEM #	RESPONSIBLE	ACTION ITEM	DUE DATE	STATUS
7.	Air Force	To develop a tentative schedule for the draft NEWIOU Soil ROD.		New Item.
8.	Air Force	To email the Summary of Tier 1 and Tier 2 Toxicity Quotients at FT005 and Recommended Action (Attachment 2) and if necessary, set up a teleconference with Heather in order that the agencies can review and make comments. Explain this is part of the process to get to the next step, which is a graphic color-coded document.		New Item.
9.	Air Force	To provide a presentation on the Storm Water Pollution Prevention Plan.		New Item.