

**Travis Air Force Base  
Environmental Restoration Program  
Remedial Program Manager's  
Meeting Minutes**

**25 August 2010, 0930 Hours**

Mr. Mark Smith, Travis Air Force Base (AFB), conducted the Remedial Program Manager's (RPM) meeting on 25 August 2010 at 0930 in the Main Conference Room, Building 570, Travis AFB, California. Attendees included:

- Glenn Anderson Travis AFB
- Lonnie Duke Travis AFB
- Mark Smith Travis AFB
- Gregory Parrott Travis AFB
- Merrie Schilter-Lowe Travis AFB
- Dezso Linbrunner United States Army Corp of Engineers (USACE), Omaha District
- Alan Friedman California Regional Water Quality Control Board (RWQCB)
- Jose Salcedo California Department of Toxic Substances Control (DTSC)
- Rachel Hess ITSI
- Mike Wray CH2M HILL
- Casey Holland CH2M HILL

Note: An EPA representative was not present during this meeting.

Handouts distributed at the meeting and presentations included:

- Attachment 1 Meeting Agenda
- Attachment 2 Master Meeting and Document Schedule
- Attachment 3 SBBGWTP Monthly Data Sheet (July 2010)
- Attachment 4 CGWTP Monthly Data Sheet (July 2010)
- Attachment 5 NGWTP Monthly Data Sheet (July 2010)
- Attachment 6 Presentation: 2010 Field Installations Update
- Attachment 7 Presentation: Program Update: Activities Completed, In Progress and Upcoming, Pre Focused Feasibility Study (FFS)
- Attachment 8 Presentation: 2010 Field Schedule

**1. ADMINISTRATIVE**

**A. Previous Meeting Minutes**

The 21 July 2010 RPM meeting minutes were approved and finalized as written.

**B. Action Item Review.**

Action items from July were reviewed.

Action item one still open. No change.

Action item two - Closed, notice will be sent today for the 13/14 September excavation.

Action item three - Closed.

Action item four - Closed. Document to include chemical oxidant demand will be added to MMDS.

**Master Meeting and Document Schedule Review (attachment 2)**

The Travis AFB Master Meeting and Document Schedule (MMDS) was discussed during this meeting (see Attachment 2).

**Travis AFB Annual Meeting and Teleconference Schedule**

— The next RPM meeting will be held on 22 September 2010.

**Travis AFB Master Document Schedule**

— Focused Feasibility Study (FFS): No change.

— Proposed Plan (PP): No change.

— Groundwater Record of Decision (ROD): No change.

— Comprehensive Site Evaluation Phase II: Changed date of draft report submittal to 22 October. Travis has been working with the Military Munitions Response Program (MMRP) to get the draft report completed. Mr. Salcedo asked if MMRP is located in Huntsville. Mr. Linbrunner said the MMRP used to be located in Huntsville, but now is managed through the Omaha District, and the Program Manager is Mr. Jerry Hodgson. The Project Manager at the Omaha District for Travis AFB is Mr. Adam Little. The regulatory agencies can contact Mr. Linbrunner if there are any questions or concerns regarding MMRP.

— Potrero Hills Annex: (FFS, PP, and ROD): No change.

— Union Creek Sites SD001 and SD033 Remedial Action Report: Move to historical.

— Natural Attenuation Assessment Report (NAAR): Move to historical.

— ISCO/ERD Technical Memorandum: New document added to detail process as it applies to Travis. Mr. Wray said Soil Oxygen Demand (SOD) lab results will also be included in memorandum.

— Site SS015 Work Plan: New document added for the Emulsified Vegetable Oil (EVO) injection planned for Site SS015. Mr. Duke said this site is

important to document because it was the first site to have oil injections. It is important to note that the original injection did not use emulsified oil, and a considerably smaller amount of oil was used than is currently planned for the site.

- Phytostabilization Study Report: Dates changed to reflect recent receipt of agency comments from the EPA and DTSC.
- Quarterly Newsletter (October 2010): Dates changed to reflect the Newsletter schedule for October.
- 2009/2010 GSAP: New dates were added for the next annual GSAP report (2009/2010).
- 2008-2009 CAMU Monitoring Annual Report: Dates were changed to reflect the actual dates the report went final.

Mr. Salcedo asked about a completion letter for Union Creek Site SD001, as Travis has provided in the past. Mr. Anderson agreed that Travis does need to do a completion letter for this site. The completion letter is generated when all media of concern have been cleaned up. Mr. Anderson said Travis has prepared completion reports in the past, when there was only one medium of concern. The completion document contains the history of the site, results of its remedial investigation, selected remedies, confirmation that no more contamination is present at the site, and confirmation that all parties agree that no further remedies are needed and the site is available for unrestricted use.

## **2. CURRENT PROJECTS**

### **Treatment Plant Operation and Maintenance Update**

Mr. Duke reported on the treatment plant status.

#### **South Base Boundary Groundwater Treatment Plant (see Attachment 3)**

The South Base Boundary Groundwater Treatment Plant (SBBGWTP) performed at 95.4% uptime, and 4.6 million gallons of groundwater were extracted and treated during the month of July 2010. All of the treated water was discharged to Union Creek. The average flow rate for the SBBGWTP was 108 gallons per minute (gpm) and electrical power usage was 20,160 kWh; 27,619 pounds of CO<sub>2</sub> was created (based on DOE calculation). Approximately 1.68 pounds of volatile organic compounds (VOCs) were removed in July. The total mass of VOCs removed since the startup of the system is 384 pounds.

#### **Central Groundwater Treatment Plant (see Attachment 4)**

The Central Groundwater Treatment Plant (CGWTP) performed at 65.79% uptime with approximately 1.16 million gallons of groundwater extracted and treated during the month of July 2010. All treated water was diverted to the storm drain. The average flow rate for the CGWTP, while operating, was 39.5 gpm and electrical power usage was 137 kWh for all equipment connected to the Central plant;

approximately 188 pounds of CO<sub>2</sub> being created. Approximately 4.3 pounds of VOCs were removed from groundwater, and 0 pounds from vapor, in July. The total mass of VOCs removed since the startup of the system is 11,182 pounds.

The West Treatment and Transfer Plant (WTTP) was turned on for 4 hours on 13 July 2010 to collect rebound vapor samples. After the samples were collected it was turned off again. The results of the rebound testing showed that four wells had an increase in VOC concentrations and four wells had a decrease in VOC concentrations. Mr. Wray added that the sampling was conducted as part of the annual rebound study.

### **North Groundwater Treatment Plant (see attachment 5)**

On 23 July 2010 the NGWTP was turned back on. It is operating exclusively on solar power. The NGWTP performed at 4% uptime, since startup, with approximately 9,320 gallons of groundwater extracted and treated. All treated water stored at the NGWTP from when the new GAC vessels were installed and tested was then run through the air stripper in July to ensure proper treatment prior to discharge. A third carbon vessel was added to the system to serve as a polishing step. The total mass of VOCs removed since the startup of the system is 174.3 pounds (see Attachment 5).

Mr. Salcedo asked if Travis has reconsidered recycling the treated water for irrigation. Mr. Smith said he hasn't. Mr. Smith added the only beneficial reuse of the treated water at this time is for the Duck Pond. Mr. Smith said that Mr. Duke has asked about using Defense Environmental Restoration Account (DERA) funds for irrigation on several occasions beyond the cleanup point. DERA will only pay for treatment of groundwater and nothing beyond that. Mr. Smith said he will continue to look at ways to reuse the treated water.

### **Land Use Control Site Update**

Mr. Duke reported on the Land Use Control Site Update. Mr. Duke said Travis is looking at doing more maintenance since the sites have been there for awhile and are maturing. The CAMU construction is finished, and Travis is not adding anything new to the CAMU. A new cyclone fence with barbed wire around the entire CAMU site has been constructed. Signs will be placed on the fence that read, "Soil controlled area; do not enter", with a contact phone number" The vegetation is 6 to 7 feet tall which is good for the CAMU cap. Mr. Smith added the base will mow or use Roundup for weeds around the fence as a fire protection measure as well for aesthetics.

However, tall grass is not good for the phytostabilization area. The tall vegetation between the trees within the phytostabilization area has been mowed down. Travis

will mow this area annually to maintain the phytostabilization area. Site LF044, also known as Landfill X, is the location of the Kinder Morgan aboveground storage tank construction project. The construction contractors are well on their way towards cleaning up a significant portion of this site. They have removed all the grass, by clearing and grubbing, and it is now ready to be moved off base. The surface piles of asphalt concrete, vegetation and soil are currently being removed from the site and taken to a local landfill. These items will be documented in the annual Land Use Control (LUC) report. Mr. Smith added that Travis reviewed the contractor's site characterization and disposal plan to make sure they were handling grubbing, sampling and disposal in accordance with the law.

Mr. Linbrunner commented on the CAMU signs saying that they were not properly designed. Mr. Linbrunner showed a sign that was not acceptable and needed to be replaced. The sign did not meet Air Force specifications. The sign was too small, and information as to what is inside the fence and the contact phone number was missing.

Mr. Duke concluded by saying that photographs of LUC activities will be added to the annual report. Mr. Chang, recently retired EPA representative, requested that the fence around the CAMU be documented in the Land Use Control report.

### **3. Presentations**

#### **2010 Field Installations Update (see Attachment 6)**

Mr. Wray reported on the 2010 Field Installations Update.

The key points made in the presentation include:

##### Site DP039 EVO Biobarrier

- Pre-injection baseline sampling was conducted on 19-21 May and 24 June 2010.
- The staggered baseline sampling was due to the late installation of the four injection wells and two monitoring wells in the wet portion of the construction area.
- Completed injection of the EVO in July.
- The first quarterly sampling is scheduled for mid October 2010.
- The performance monitoring network consists of six up-gradient monitoring wells, six down-gradient monitoring wells, and three EVO injection wells.

##### Site SD037 EVO Injection

- Pre-injection baseline sampling was conducted in May, and on the first of July.
- The staggered baseline sampling was due to the subsequent installation of three additional monitoring wells, due to initial baseline sampling results.

- Completed injection of EVO into seven injection wells in August 2010.
- The first quarterly sampling is scheduled for mid November 2010.
- Performance monitoring network consists of two up-gradient monitoring wells, seven down-gradient monitoring wells, and three in-plume monitoring wells.

#### Site SD036 EVO Injection

- The design for the EVO injection is in progress. Estimated completion for the design is in early September 2010.
- The installation of the injection wells is scheduled for early October 2010.
- Baseline sampling is scheduled for mid-October 2010.
- EVO injection is scheduled for late October 2010.

#### Site SS015 Investigation

- Drilled and sampled two new monitoring wells in July. One mid-plume and one east of the plume. Sample results are in the attachment.
- Groundwater plume trends to the northeast.
- EVO injection and monitoring well network design is scheduled for completion in early September.

#### Site SS016 OSA Source Area Bioreactor

- Construction kickoff meeting held on 23 August 2010.
- Fence removal scheduled for 01 September 2010.
- Dismantling of the wash rack scheduled for 07 to 10 September 2010.
- Bioreactor excavation and installation is scheduled for 13 to 17 September 2010.
- Installation of protective bollards and solar-powered extraction pump scheduled for 20 to 23 September 2010.

Mr. Wray added that a utility locator is on site today to try and precisely locate the horizontal extraction well. We want to make sure the excavation does not compromise the structure of the horizontal extraction well that is located approximately 30 feet directly below the surface of the bioreactor footprint. The bioreactor excavation will reach 25 feet below ground surface.

Mr. Salcedo asked where the soil is going to be stored after the excavation and is it going to be covered. Mr. Wray said the soil will be stored in a fenced area at site DP039, and it will be covered. Mr. Linbrunner asked if this site is going to be treated as a HAZWOPER site: PPE at level A or B. Mr. Wray said it will start at level D, but could quickly upgrade to level B or C, and a decontamination station will be set up. Mr. Linbrunner added that there will be Corp of Engineers personnel on site at the time of the excavation.

### Site SS030 Investigation

- Maximize groundwater extraction.
- Monitor groundwater levels and TCE concentrations across the site during annual GSAP event in June 2010.
- Determine if additional monitoring and/or extraction wells are needed to capture TCE plume.
- The groundwater levels from the 2010 GSAP shows improving capture of the TCE plume.

### Site FT005 Sampling

- Conducted rebound sampling during the GSAP event.
- Results indicate some minor rebound has occurred in a few wells.
- Turned on selected extraction wells to capture areas where rebound has occurred. See attached map for location on extraction wells.

### **Program Update: Activities Completed, In Progress and Upcoming (see attachment 7)**

Mr. Wray reported on the Program Update. See attachment for details.

### **2010 Field Schedule (see attachment 8)**

Mr. Holland reported on the 2010 Field Schedule. See attached calendar for details.

#### **4. New Action Item Review**

- 1) Travis will research beneficial reuse for treated water and provided an update.
- 2) Travis will report on the status of an EPA representative at next RPM meeting.

#### **5. PROGRAM/ISSUES/UPDATE**

##### A. EPA Representative Update

Mr. Smith said he talked with Mary Snow from Tech Law, contracting support to EPA, regarding an EPA representative replacement. At this point there still isn't any indication of who the EPA representative replacement will be.

##### B. Regulator Site Visits

Mr. Anderson reported that Mr. Chang sent an email requesting a site visit be set up for Mr. Henning, EPA's new attorney and EPA's representative replacement to visit the Bioreactor and the Potrero Hills annex.

### C. DSMOA and State Regulatory Issues

Mr. Smith asked Mr. Salcedo if he had any DSMOA and State Regulatory Issues. Mr. Salcedo said he didn't have any issues. Mr. Friedman stated he didn't have any issues either.

### General Discussion

None.

### 7. Action Items

Item #	Responsible	Action Item Description	Due Date	Status
1.	Travis AFB	Petition to have the Lysimeter removed.	TBD	Open
2.	Travis AFB	Research beneficial reuse of treated water and give update.	TBD	Open
3.	Travis AFB	Report status of new EPA representative at next RPM meeting.	TBD	22 September 2010