

TIM #1

2/13/97

Julie Burdey  
BRIAN MURPHY  
Elizabeth Berman  
Jo Sean Mullen  
ROD CHATHAM  
KEN RICE  
Beth Garland

CSSA  
AFCEE/ERC  
AFCEE/ERD  
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PARSONS ES  
AFCEE/ERC

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TIM #5

Brian Vanderglas  
Susan Roberts  
Same as above

Parsons ES

512/719-6051

TIM #2

KEITH TISCHLER

PARSONS ES

512/719-6053

SAME AS ABOVE, except:

→ B. Vanderglas, J. Burdey & K. Rice of Parsons ES returned to PB office.

## MEETING MINUTES

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Reference: Contract F11623-94-D0024, Delivery Order RL17  
Item No. 3.0.2 Technical Interchange Meeting  
Camp Stanley Storage Activity (CSSA) SWMU Closures and  
Integrated Spill and Waste Management Plan  
Meeting Minutes 5 (Item 5.2.4, A007)

Meeting: February 13, 1997  
Camp Stanley Storage Activity (CSSA), Texas

Subject: Project status to date

The meeting was held at the CSSA Building One conference room, beginning at 1000 hours on February 13, 1997. This meeting was attended by representatives of CSSA, AFCEE, and Parsons ES. The following were in attendance (see attached sign-in sheet for "TIM No. 5" meeting attendees):

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Name	Organization
Rod Chatham	CSSA Director of Special Projects
Brian Murphy	CSSA Environmental Officer
Jo Jean Mullen	AFCEE/ERD Restoration Team Chief
Beth Garland	AFCEE/ERC Chemist
Beth Berman	AFCEE/ERC Chemical Engineer
Susan Roberts	Parsons ES, Austin, Project Manager
Ken Rice	Parsons ES, Austin, Task 05 Manager.
Brian Vanderglas	Parsons ES, Austin, Task 05A Manager
Julie Burdey	Parsons ES, Austin, Background Revisions Task

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### MEETING PURPOSE

The purpose of the meeting was to discuss issues relative to the background metals study, review outstanding issues, and to update AFCEE and CSSA on the project status to date.

### MEETING AGENDA

The agenda was as follows:

- Project Status
  - ⇒ Closure investigations (Task 03)
  - ⇒ O-1 treatability study (Task 05)
  - ⇒ B-3 treatability study (Task 05A)
  - ⇒ Sampling and analysis (Task 09)
  - ⇒ Integrated Waste Management/Spill Plan (Task 99)
- Schedule and budget
- Issues to be resolved
- Project activities for the next period (until the next TIM)

## PROJECT STATUS

### Closure Investigations (Task 03):

Based on AFCEE's November 1996 and pending background levels revisions, minor revisions to the draft closure reports and draft soil gas investigation reports continue. Complete revisions to the draft reports will only be possible once 1) background metals levels are revised and approved by AFCEE and CSSA, and 2) a final ITIR is approved by AFCEE and CSSA. Parsons ES requests to hold a teleconference with AFCEE within the next month to discuss a response to comments for these reports, including a proposed format for soil gas investigation reports for 6 sites (these draft reports can be submitted for review after clarification of issues). Jo Mullen indicated that a teleconference would be fine and that Parsons ES can set up a schedule in the next 2 weeks.

As noted in a 13 February 1997 request to AMC, Parsons ES would like to submit the draft background metals study revisions on 21 February 1997. AFCEE has indicated that this is acceptable; however, due to their statistician's TDY schedule during the next month, a 2-week review may not be possible.

Results to date indicate that no groundwater monitor wells will be necessary. However, only one site has not undergone Field Effort 2 drilling and sampling - SWMU B-33. This site was used as an example of background levels acceptable to the state where more than one soil type exists. The TNRCC has not responded to the Parsons ES Sep 96 letter citing examples for a site-by-site basis for establishment of appropriate background. It was agreed that work at B-33 should take place within the next month so as to complete all field work for the task, and to see if any groundwater monitoring wells are necessary for the project. AFCEE and CSSA gave approval at the meeting for Parsons ES to contact TNRCC next week to remind them of the Sep 96 letter and to let them know that we plan to drill at the B-33 site within a month. Jo Mullen observed that Parsons ES should let TNRCC know that the contract is drawing to a close, and that we need to

complete all field work in an expedited manner. Parsons ES will send email or facsimile messages to AFCEE and CSSA regarding the results of the phone conversations with TNRCC.

Also at B-33, CSSA's recent pipeline work in that area has excavated a portion of the B-33 lead shot area. CSSA would like help in locating an OSHA-40-hour trained backhoe operator to excavate the lead shot and soil to be placed on plastic sheeting above ground until final disposition of the soil is determined. Parsons ES will call for qualified local operators in the San Antonio area to help with this endeavor.

O-1 Treatability Study (Task 05):

Ken Rice briefly discussed his evaluation of electrokinetic vendor bids, submitted to AFCEE and CSSA in January 1997. Though some minor clarifications are still necessary, the lowest qualified bidder is LynnTech, Inc., at about \$92,000 (vendor response to the clarifications may show further reduced costs). Rod Chatham asked if the electrokinetic study was comparable to costs for excavate and haul as a remedial option. Jo Mullen replied that her extensive review of cost-effective options to remediate both VOCs and chromium to acceptable levels showed that either electrokinetics or a treatment train would be necessary. Very few remedial techniques are effective for both VOCs and metals. Furthermore, the results of this treatability study using electrokinetics would be applicable to other CSSA sites such as B-3 that also have metals and possible residual VOCs. Ken Rice noted that for the approximate 200 cubic yards of soil requiring treatment at the O-1 site, excavation and hauling would be about \$85,000. Brian Murphy was also concerned about the liability of excavate and haul, due to landfill closings. Therefore, it was agreed to continue with the electrokinetic treatability study at O-1.

After discussion of the project budget, it appears that that sufficient funds exist in the task budget for the subcontracted work and that a subcontract agreement can be made to begin work in the next month. A timetable for the treatability study will be prepared during this period for submittal to AFCEE, CSSA, and AMC. AFCEE and CSSA also requested that the study be discussed with the TNRCC so as to keep them "in the loop" for potential remediation work at CSSA.

B-3 Treatability Study (Task 05A):

Brian Vanderglas reviewed the field work to date at the B-3 SVE system. Installation of twelve (12) additional SVE wells was completed in December 1996, and testing of system initiated in early January 1997, including initial testing and hydrocarbon recovery testing per the work plan. The team plans to complete the first multiple configuration testing in February 1997.

Initial results show low to zero oxygen, no soil gas "hits", and no pressure responses at VEWs 7, 12, 17, and 18 (map included in presentation materials). At the other VEWs, the oxygen readings increased when the blower turned off. The results are fairly

consistent with previous testing. Also of significance are the preliminary, unvalidated soils data which show greatly reduced (3 to 5 orders of magnitude) soil concentrations of *cis*-1,2-DCE, TCE, and toluene in confirmation samples. The results show that the SVE pilot system has reduced chlorinated volatiles around the vent wells in significant amounts.

Sampling and Analysis (Task 09):

With the exception of metals data, which is compared to the background metals levels (currently under revision), validation of all field effort 2 analyses has been completed. Parsons ES submitted a letter to AFCEE in Sep 96 and Jan 97 noting that the final ITIR for field effort 1 does not contain revised background levels, but the AFCEE comments of Nov 96 indicate that the ITIR should be submitted to the regulatory agencies. After discussion, it was agreed that the ITIRs are informal documents by nature and do not have to be submitted. Therefore at this time, the field effort 1 ITIR will not be revised, but the draft field effort 1 closure reports will include comparison of site-specific metals levels to revised background metals levels.

Integrated Waste Management/Spill Plan (Task 99):

The final plan has been submitted. Additional copies are being prepared for CSSA per their request. Draft handout materials for a presentation to CSSA on use of the integrated plan are in preparation. It was agreed that the presentation may take place during the first week of March 97, and that an overview of about 1 hour would be prepared for general CSSA staff, while a more in-depth review of about 3 to 4 hours would be necessary for CSSA staff working daily with hazardous materials and/or wastes. The presentation will be given by Ken Rice at CSSA.

**SCHEDULE AND BUDGET**

A proposed draft project reprogramming budget was presented for discussion. The proposed reprogramming should allow completion of each task to be completed within the estimated budget. Overall the project is on schedule, though the schedule needs for the O-1 and B-3 treatability studies will be reviewed in the next month. Any changes to the schedule will be requested through AMC.

**ISSUES TO BE RESOLVED**

Resolution of responses to AFCEE's Nov 96 comments on the field effort 1 draft closure reports, and formatting of draft soil gas investigation reports: A teleconference will be held during the next month between AFCEE and Parsons ES to discuss and resolve the comments.

O-1 treatability study: The study will progress using a subcontracted vendor to be selected and subcontracted during the next period.

B-3 SVE automation system and use of CSSA personnel to install: It was agreed that Parsons ES is to procure equipment for an automation system to empty the SVE condensation tank, and that CSSA personnel will install the equipment.

Field Effort 1 ITIR: No changes (regarding background metals levels currently in revision) to the final ITIR for field effort 1 will be made at this time. However, Parsons ES will make every effort to have the data presented in tables conformable to the GIS database format now in progress under RL33.

## **PROJECT ACTIVITIES FOR THE NEXT PERIOD**

*Next period is assigned for the duration of time between TIM No. 5 and TIM No. 6, assumed to be approximately two months.*

### Closure Investigations (Task 03):

1. Submit draft revisions to background metals levels study on 21 Feb 97.
2. Call TNRCC personnel (Kirk Coulter and Richard Clarke) regarding proposed actions at SWMU B-33. Send email or facsimile messages to AFCEE and CSSA after contact has been made with TNRCC.
3. Aid CSSA in subcontracting an OSHA-trained backhoe operator for an estimated 1/2 to 1 day of work for excavations at SWMU B-33.
4. Schedule drilling/sampling at SWMU B-33 for March 97 (and SWMU B-29 at no cost to the government).
5. Schedule teleconference within 2 weeks of TIM No. 5 between AFCEE and Parsons ES regarding response to comments on the draft closure reports and soil gas investigation reports.
6. Review data tables for compatibility with GIS database format under RL33.
7. Complete draft soil gas investigation reports for six (6) sites.

### O-1 Treatability Study (Task 05):

1. Subcontract selected electrokinetics vendor.
2. Define schedule for submittal to AFCEE, CSSA, and AMC.
3. Discuss treatability study progress with TNRCC, and provide results of that discussion to AFCEE and CSSA via email or facsimile.
4. Initiate treatability study at O-1.

### B-3 Treatability Study (Task 05A):

1. Complete the first multiple configuration test in February 1997.
2. Begin second multiple configuration test in March 1997, and the third in April 1997.

3. Initiate design and procurement of SVE system automation, and coordinate installation with CSSA staff.

Sampling and Analysis (Task 09):

1. Begin data validation of all metals data after final revisions to the background metals study have been approved (the final approval is assumed to be mid-March 1997).
  - ⇒ Within 30 days of completion of the data validation, submit the draft Analytical ITIR for Field Effort 2.
  - ⇒ Within 30 days of receipt of comments, submit the final Analytical ITIR for Field Effort 2.
  - ⇒ Within 45 days of the final Analytical ITIR, submit draft closure certifications and reports.

Integrated Waste Management/Spill Plan (Task 99):

1. Deliver six (6) additional copies of plan to CSSA.
2. Submit draft presentation materials to CSSA and AFCEE by 28 Feb 97 for review and comments.
3. Presentation to be given to CSSA staff, tentatively scheduled for the first week of March 1997 (presentation is to be prepared under Task 12000 per the SOW).

**ACTION ITEMS**

**Parsons ES**

*See "Project Activities for Next Period" above.*

**AFCEE/BAH**

Closure Investigations (Task 03):

1. Review draft TIM No. 5 meeting minutes and provide comments if necessary.
2. Participate in teleconference regarding response to draft closure reports, to be scheduled by Parsons ES for Feb or March 1997.
3. Provide review comments as necessary for draft revisions to background metals study, to be submitted by Parsons ES on 21 Feb 97.

O-1 Treatability Study (Task 05):

1. Review schedule to be submitted during the next period.

B-3 Treatability Study (Task 05A):

1. *No actions.*

Sampling and Analysis (Task 09):

1. Upon submittal of draft ITIR for field effort 2, review and provide comments as necessary (draft ITIR is not anticipated for at least 2 months due to background study revisions).

Integrated Waste Management/Spill Plan (Task 99):

1. Review draft presentation materials prior to the tentatively scheduled presentation for the first week of March 1997.

CSSA

Closure Investigations (Task 03):

1. Review draft TIM No. 5 meeting minutes and provide comments if necessary.

O-1 Treatability Study (Task 05):

1. Review schedule to be submitted during the next period.

B-3 Treatability Study (Task 05A):

1. Install automation system with Parsons ES' procured equipment and coordination.

Sampling and Analysis (Task 09):

1. *No actions.*

Integrated Waste Management/Spill Plan (Task 99):

1. Review draft presentation materials prior to the tentatively scheduled presentation for the first week of March 1997.