



KELLY AFB
TEXAS

ADMINISTRATIVE RECORD
COVER SHEET

AR File Number 3297

KELLY AIR FORCE BASE TECHNICAL REVIEW SUBCOMMITTEE
MEETING AGENDA

Tuesday, 10 August 1999, 6:30 P.M.
St. Mary's University, Garni Science Hall

<u>Topic</u>	<u>Time</u>	<u>Presenter</u>
I. Introduction Agenda Review and Handouts	6:30 - 6:35	Dr Lene'
II. Zone 1 CMS Presentation	6:35 - 7:15	Maj de Venoge
III. TAPP '99 Application Update	7:15 - 7:45	Dr Lene'
IV. Administrative a) BCT Update b) Spill Summary Report c) Documents to TRS/RAB. d) Agenda/Location/Time of Next TRS Meeting	7:45 - 8:30	Dr Lene'
IV. Adjournment	8:30	All

Aug 1999

MEETING MINUTES

KELLY AFB TECHNICAL REVIEW SUBCOMMITTEE (TRS)
TO THE RESTORATION ADVISORY BOARD (RAB)
10 Aug 99, St. Mary's University, Garni Science Hall

I. Introduction: The TRS meeting began at 6:40 p.m. Attachment 1 is the attendance report. Documents delivered to the TRS are specified in atch 3. To accommodate the schedule of presenters, some matters were taken up out of agenda order and are recorded here as presented but with the original agenda item number to avoid confusion.

III. TAPP '99 Application Update: The AF Contracting Officer, Mr Dan Zatopek reported that the three FY99 TAPP applications recommended during the 13 Jul 99 TRS meeting had been signed by Maj Gen Bielowicz and are ready to be submitted. Funding sought under the applications will pay for TAPP contractors to review the S-4 CMS addendum, the Zone 5 CMS, and the Zone 4 RFI report. Mr. Zatopek said he will get quotes from prospective contractors on the number of hours required for the reviews and report back to the TRS at the next meeting. Hourly rates will be the same as for the FY98 TAPP contracts.

II. Zone 1 CMS Presentation: Shawn Slattery, CH2M HILL, presented a review of the Zone 1 Soils Corrective Measures Study. Other CH2M personnel were available to answer questions, in particular John Coffey, who performed the risk assessments involved in the study. Russell Rhone, Zone 1 manager, noted this is the second iteration for Zone 1 soils, the first study having been done in 1995. He noted that when the current study is approved, it will be wrapped in with the Zone 1 groundwater study for the overall remediation planning.

IV. Administrative

- a) BCT Update: Maj De Venoge discussed the BCT meeting, held this date by conference call, during which the Zone 1 CMS was discussed and updates were presented on the PBA, and zones 2-5. Copies of those reports were made available for inspection following the meeting.
- b) Spill Summary Report: There were no reportable spills for the month of July 1999. Report at atch 4
- c) Documents to TRS/RAB: Atch 2.
- d) Next TRS meeting: 14 Sep 99, 6:30 p.m., St. Mary's Garni Science Hall
- e) Action Items
 - 1) Maj De Venoge to provide Mr Rice a copy of the IWCS Closing Strategy presentation made 13 Apr 99.
 - 2) Ms Power to check on acceptability of site-specific Kd values.
 - 3) Update composite plume map.
 - 4) Re-mail plume letter with maps to Mr Rice and Mr Quintanilla.
 - 5) Leslie Brown (SJA) to provide projected date of the Site S-8 hearing.
- f) Other Administrative Items:
Next agenda: Site S-4 addendum; FY00 TAPP application

V. Adjournment: The TRS adjourned at 8:30 p.m.

Attachments:

1. Attendance
2. Documents list
3. Spill Summary Report
4. Zone 1 CMS Presentation

Attendance

Name	Affiliation
Dr. Gene W. Lené	Community – Chairman
Armando C. Quintanilla	Community
George Rice	Community
Sam Murrah	Clear Air & Water
Abbi Power	TNRCC-Region 13
XXX Carrillo	EPA-Region VI
Dan Zatopek	AFBCA/DK
Maj. Tom deVenoge	SA-ALC/EMR
Nazirite R. F. Perez	Community/City of S.A. citizen
Trinidad Alamaguer	SAMHD
Wilson McKinney	PA/EM (Contr)
Jeff Nethery	
Capt Christopher Wolf	SA-ALC/EMRR
Russell Rhone	SA-ALC/EMRR
Gary Panozzo	CH2M HILL
Shawn Slattery	CH2M HILL
John Coffey	CH2M HILL
Bob Goodson	CH2M HILL

Documents to TRS/RAB

1. Semiannual Compliance Plan for
- 2.

#27S
MINUTAS DE LA JUNTA

SUBCOMITÉ DE REVISIÓN TÉCNICA (TRS, por sus siglas en inglés) DE LA BASE
DE LA FUERZA AÉREA KELLY
PARA LA JUNTA ASESORA DE RESTAURACIÓN DE KELLY (RAB, por sus siglas
en inglés)
10 de agosto de 1999, Universidad de St. Mary's, Garni Science Hall
Dr. Gene Lené, Copresidente del TRS

I. Introducción: La junta del TRS se inició a las 6:40 p.m. El Documento Adjunto # 1 es el informe de asistencia. **[NOTA DEL TRADUCTOR: El documento original en inglés no tenía documentos adjuntos].** Los documentos entregados al TRS se especifican en el Documento Adjunto # 3. Para que funcionaran mejor los horarios de los expositores, algunos de los temas se trataron en diferente orden del establecido en la orden del día, pero se usó el número original del orden del día para evitar confusiones.

III. Actualización de la Solicitud para el Programa de Asistencia Técnica y Participación Pública (TAPP, por sus siglas en inglés) del Año Fiscal 1999: El Sr. Dan Zatopek, Funcionario de Contrataciones de la Fuerza Aérea, informó que las solicitudes del TAPP a tres años para el año fiscal 1999 que se había recomendado el 13 de julio de 1999 en la junta del TRS ya habían sido firmadas por el General Mayor Gen Bielowicz y que están listas para ser presentadas. Los fondos que se habían buscado para el proceso de solicitudes pagará por los servicios de los contratistas del TAPP para que revisen la enmienda al Estudio de Medidas Correctivas (CMS) para el S-4, el CMS de la Zona 5, y el informe RFI de la Zona 4. El Sr. Zatopek dijo que iba a obtener cotizaciones de los contratistas prospecto sobre el número de horas que se requiere para revisar y hacer una presentación sobre el informe ante el TRS en la siguiente junta. Las tarifas por hora serán las mismas que para los contratos del TAPP del año fiscal 1998.

II: Presentación del CMS de la Zona 1: La Srta. Shawn Slettery, de CH2M Hill, hizo una presentación del de los Suelos de la Zona 1. Una personal adicional de CH2M Hill estuvo disponible para contestar preguntas, en particular el Sr. John Coffey, quien realizó las evaluaciones de riesgo que se hicieron en el estudio. El Sr. Russell Rhone, Gerente de la Zona 1, expresó que ésta es la segunda iteración para el suelo de la Zona 1 ya que el primer estudio se había hecho en 1995. Agregó que cuando se apruebe el estudio actual, se unificará con el estudio del agua subterránea de la Zona 1 en la planeación general de las correcciones.

VI. Puntos administrativos:

A. Actualización del Equipo de Limpieza BRAC (BCT, por sus siglas en inglés): El Mayor Tom de Venoge habló de la junta del BCT, que se llevó a cabo en esta misma fecha a través de una conferencia telefónica, donde se habló del CMS de la

Zona 1 y se presentaron los avances de la PBA y las Zonas 2-5. Se tuvieron disponibles las copias de esos informes al final de la junta para que se analizaran.

- B. Informe del Resumen de Derrames: No hubo derrames reportables en el mes de julio de 1999. Se adjunta el reporte como el Documento Adjunto # 4.
- C. Documentos que se entregaron al TRS /RAB: Documento Adjunto # 2.
- D. Siguiete junta del TRS: La siguiente junta del TRS será a las 6:30 p.m. del día 14 de septiembre de 1999 en el Garni Science Hall, de la Universidad de St. Mary.
- E. Puntos de Acción
 - 1. El Mayor de Venoge le proporcionará al Sr. Rice una copia de la Presentación Estratégica de Cierre del IWCS realizada el 13 de abril de 1999.
 - 2. La Srta. Power verificará el grado de aceptación de los valores KD en un sitio específico.
 - 3. Mapa actualizado de la composición de la pluma.
 - 4. Volver a enviar por correo la carta y los mapas al Sr. Rice y al Sr. Quintanilla.
 - 5. La Srta. Leslie Brown proporcionará la fecha programada para la audiencia del Sitio S-8.
- F. Otros Puntos Administrativos:
Siguiete orden del día: Enmienda al Sitio S-4; Revisión del Contratista del Plan de Trabajo del OU-2 de la Zona 4; Solicitud para el TAPP para el año fiscal 2000.

V. Cierre de la Sesión: Se cerró la junta del TRS a las 8:30 p.m.

Documentos Adjuntos:

- 1. Lista de Asistencia
- 2. Lista de documentos
- 3. Informe del Resumen de Derrames
- 4. Presentaciones del CMS de la Zona 1



DEPARTMENT OF THE AIR FORCE
HEADQUARTERS SAN ANTONIO AIR LOGISTICS CENTER (AFMC)
KELLY AIR FORCE BASE, TEXAS

10 AUG 1999

MEMORANDUM FOR REMEDIAL ACTION BOARD/TECHNICAL
SUBCOMMITTEE (RAB/TRS)

FROM: SA-ALC/EMQC
307 Tinker Drive, Bldg. 306
Kelly AFB, TX 78241-5917

SUBJECT: Monthly Spill Report for July 1999

There have been no reportable quantity or otherwise notable spills for the month of July 1999. Should you have any further questions or require additional information, please contact Mr. Jerry Pantoja at 925-3100 ext. 310 or email jerry.pantoja@kelly.af.mil.

Sincerely

A handwritten signature in black ink, appearing to read "COW", is positioned above the typed name of the sender.

CHARLES R. WILLIAMS, P.E.
Chief, Environmental Compliance Division



Kelly Air Force Base IRP Zone 1



Zone 1 Soils Corrective Measures Study

Restoration Advisory Board
Technical Review Subcommittee

August 10, 1999



Project Team



- Kelly EM
 - Maj. Tom DeVenoge, Asst. Director
 - Russell Rohne, Technical Project Manager
- CH2M Hill
 - Gary Panozzo, Program Manager
 - Shawn Slattery, Project Manager
 - Bob Goodson, Lead Hydrogeologist
 - John Coffey, Lead Risk Assessor



Presentation Objectives



- Brief the RAB Technical Review Subcommittee on the contents of the Zone 1 Soils Corrective Measures Study
- Address issues and answer questions.



Purpose and Scope of the Zone 1 Soils CMS



- Update the nature and extent of soil contamination
 - 10 major studies from 1982-98.
 - Over 100,000 analytical records.
- Perform data evaluation in accordance with Texas Risk Reduction Standards
- Perform Human Health Risk Assessment
- Develop and evaluate final remedial alternatives for Zone 1 soils
- Recommend soil remedial alternatives protective of human health and groundwater quality



Remedial alternatives were not developed for some Zone 1 IRP sites.



- Sites Currently in the Closure Process

- LF018 (D-8) - construction debris
- SS041 (B-1) - lean area
- WP020 (E-2) - evap pond

} verbal approval for PAS 2 closure

- Sites being Addressed Separately (not in this report)

- RW026 (RD-1)
- RW027 (RD-2)
- Zone 1 Groundwater - EIA/Compl. Plan

- Site Approved for Closure

- FT023 (FC-1)

- 3 years ago

16 soil sites



Remedial Alternatives were developed, evaluated, and recommended for 10 IRP Sites.



- LF011 (D-1)
- LF012 (D-2)
- LF013 (D-3)
- LF014 (D-4)
- LF015 (D-5)
- LF016 (D-6)
- LF017 (D-7)
- LF001 (D-9)
- SS043 (CS-3) - limits uncertain, routine filled w/ constr. debris
- WP029 (SA-1) - sludge spreading site

all INACTIVE - no waste since 60's



This Soils CMS follows the CERCLA FS Process



- Remedial Action Objectives
- Preliminary Remediation Goals
- Screening of Technologies and Process Options
- Alternative Development
- Detailed Evaluation of Alternative
- Comparative Analysis of Alternatives
- Recommended Alternatives



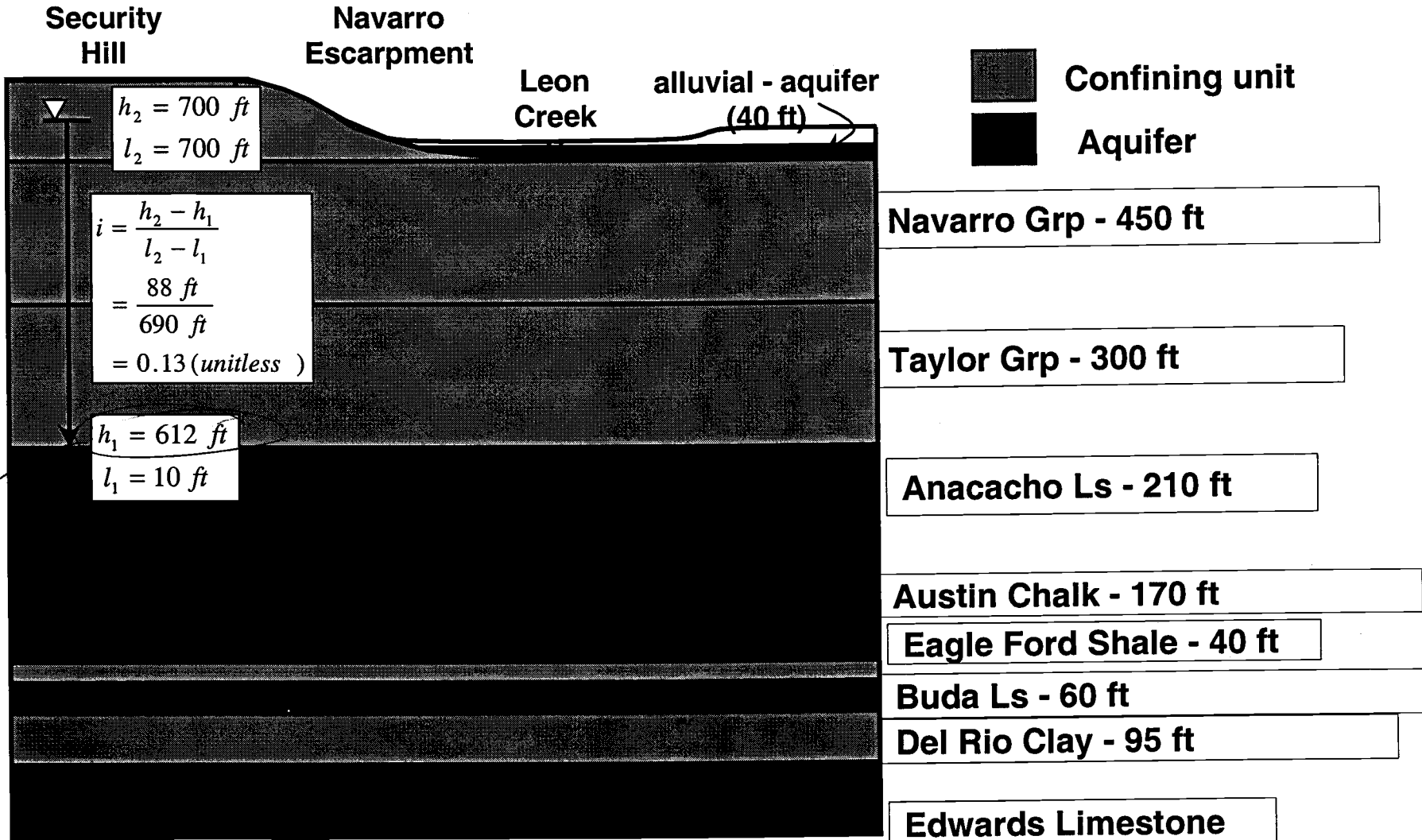
Soil Remedial Action Objectives were developed in consideration of site specific conditions and future land use.



- Minimize the leaching of soil contaminants to the groundwater
- Prevent exposure to surface soil contaminants that pose unacceptable risk to public health
- Prevent exposure to landfill contents.
- Perform additional measures as necessary for closure of the landfill consistent with good engineering practice and with Texas and Federal landfill closure requirements that are relevant and appropriate to the site-specific circumstances.



Only part of Zone 1 has a shallow alluvial aquifer.



ESTIMATED
HISTORICAL
LOW OF
EDWARDS
... USED
THIS AS
HEAD OF ANACACHO

summary: very little water movement in Navarro



There are 2 different upper most aquifers below the site.



- East of the Navarro Escarpment
 - Alluvial aquifer is the upper most aquifer
 - Sites LF011, LF012, LF013, LF014, and LF015
- West of the Navarro Escarpment
 - Alluvial aquifer is absent
 - The Anacacho Limestone is the uppermost aquifer
 - Sites LF016, LF017, LF001, SS043, and WP029



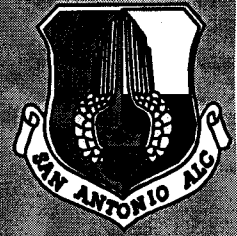
The Zone 1 area will be realigned to Lackland AFB and land use will not change.



- Current Land Use
 - Security Hill Buildings - Administrative
 - Kelly Golf Course - Recreational
- Future Land Use
 - Zone 1 will be realigned to Lackland AFB.
 - Security Hill will remain.
 - The Golf Course will remain.



Human Health Risk Assessment was performed based upon land use and likely human receptors



- Risk calculations were performed for:
 - Groundskeeper and/or Golfer (40 hrs per week for 25 years)
 - Construction/Utility Worker (50 days per year for 5 years)
- Conclusions:
 - Zone wide and individual sites have risks well within acceptable regulatory limits (10^{-6} to 10^{-4})
- Calculation of chemical-specific direct contact standards under RRS No. 3



Vadose zone soil data was compared to Preliminary Remediation Goals to define the problems.



Summary of Soil PRG Exceedances (>RRS No. 3 Criteria)

Site	Direct Contact Exceedance	GWP Exceedance
LF011	None	None
LF012	Benzo(a)pyrene	Benzene, Cd, Cr, and TCE
LF013	None	None
LF014	Pb	Methylene chloride, Se, and TCE
LF015	None	1,2-DCB, 1,4-DCB, DCE, Methylene chloride, PCE, Sb and TCE
LF016	Pb and PCB-1242	None (no alluvial aquifer)
LF017	PCB-1242	None (no alluvial aquifer)
LF001	None	None (no alluvial aquifer)
SS043	Pb, PCB-1248, and benzo(a)pyrene	None (no alluvial aquifer)
WP029	None	None (no alluvial aquifer)



Technology Screening was performed in consideration of identified problems.



- Technology/Process Options Remaining
 - No further action
 - Environmental monitoring
 - Institutional controls through access restriction
 - Containment by surface controls (grading and revegetation) and capping (clay, GCL, synthetic membrane)
 - In situ treatment through physical (SVE/fracturing) and biological (phytoremediation) treatment methods
 - Excavation of the soil followed by physical/chemical treatment (solidification/stabilization) and thermal treatment (low temperature thermal desorption)
 - Onbase disposal (backfill) or offbase disposal (RCRA Subtitle C or D landfills)



Technologies were combined into Remedial Alternatives for each site to fix site specific problems



- Alternatives were developed site by site to allow a wide range of possible alternatives and greater flexibility in selecting recommended alternatives
- Alternatives were developed as reasonable combinations of options for each site
- Alternatives range from low to high control
- Alternatives consider a range of remediation time-frames from short to long



Alternatives were evaluated based upon CERCLA criteria



- Overall protection of human health and the environment
- Compliance with ARARS
- Reduction of toxicity, mobility, or volume through treatment
- Short-term effectiveness
- Long-term effectiveness
- Implementability
- Cost (Order of magnitude +50%/-30%, includes O&M)



The alternatives exhibiting the best characteristics as measured against the CERCLA criteria were recommended for implementation.

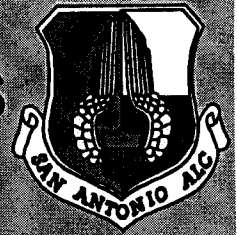


	Institutional Controls	Continued Groundwater Monitoring	Regrading and Revegetation *	Capping	Soil Vapor Extraction	Phytoremediation
LF011 (D-1)						
LF012 (D-2)						
LF013 (D-3)						
LF014 (D-4)						
LF015 (D-5)						
LF016 (D-6)						
LF017 (D-7)						
LF001 (D-9)						
SS043 (CS-3)						
WP029 (SA-1)						

* Biggest expense



Future Regulatory Milestones



- **Regulatory Acceptance: TNRCC review is ongoing. August 99.**
- **Community Acceptance: Public will comment on the Proposed Plan**
- **Decision Document**
- **Corrective Measures Implementation**
 - **The Remedial Design will consolidate soil and groundwater remedial actions. To begin Sept. to Dec. 99.**
 - **Remedial Action. 2000 to 2001.**

FINAL PAGE

ADMINISTRATIVE RECORD

FINAL PAGE