



KELLY AFB  
TEXAS

---

ADMINISTRATIVE RECORD  
COVER SHEET

AR File Number 3363

**ATTACHMENT 1**

**Kelly AFB**  
**RESTORATION ADVISORY BOARD AGENDA**  
**11 December 1995**  
**6:00 PM**  
**Price Elementary School**

		<u>Time Frame</u>
• Charter Revision	Mr. Solis	3 minutes
• Approval of Meeting Minutes	Mr. Solis	3 minutes
• Membership Actions	Mr. Solis	10 minutes
• TNRCC Risk Reduction Rules - How Clean is Clean	Mr. Beyer	15 minutes
• EMRO Update	Mr. Medina	15 minutes
• RAB Training	Mr. Porter	15 minutes
• Defense Environment Alert Subscription	Mr. Solis	5 minutes
• Budget Update	Mr. Medina	15 minutes
• Subcommittee Reports	Subcommittee chairmen*	
• New Business	Mr. Solis	
• Review/Plan Next Meeting	Mr. Solis	10 minutes

**Minutes of the 12th meeting of the  
Kelly Air Force Base Restoration Advisory Board  
11 December 1995  
Price Elementary School**

**Members and alternates present:**

Mr. Larry Bailey, RAB Community Co-Chair  
Mr. Gary Beyer  
Mr. Tom Culbertson  
Mr. Allan Hagelthorn  
Dr. Gene Lene  
Mr. B. Kirk Lofton, alternate for Sam Sanchez  
Mr. Armando Quintanilla  
Mr. George Rice  
Ms. Deborah Robinson, alternate for Bill Sain  
Mr. Desiderio D. Raygosa, alternate for Nick Rodriguez  
Mr. Juan Solis, RAB Community Co-Chair  
Mr. Edward Weinstein

**Kelly Air Force Base Staff present:**

Mr. Michael Estrada  
Mr. Daniel Medina  
Captain Ed von Dran  
Mr. Dick Walters  
Ms. Victoria Wark  
Ms. Adrienne Williams

**Members absent without alternates:**

Mr. Charles Ayala  
Mr. Roy Gill  
Ms. Yolanda Johnson  
Mr. Carl Mixon  
Mr. Tom Moore  
Mr. Sam Murrah  
Ms. Kelly Thurlow

Mr. Juan Solis Sr., Community Co-Chair, called the meeting to order at 6:10 p.m. and announced that a quorum was present. No changes to the agenda were recommended. A copy of the agenda is included as Attachment 1.

**Item I: Charter Revision**

The Board approved a new charter to take effect at the next meeting. In accepting the new charter, the Board excluded sections G, H, and I, dealing with member conflict of interest (COI). These sections and the issue of COI will be placed on a future agenda.

In addition, the Board approved a motion waiving a provision in the original charter. That provision states that changes to the Charter must be read at one meeting and approved at the

Minutes of the 12th Meeting of the  
Kelly Air Force Base Restoration Advisory Board  
11 December, 1995 - Price Elementary School

next. Adherence to this provision would have delayed the new charter's approval until the next meeting.

In discussing the COI provisions of the new charter, Mr. Armando Quintanilla informed the board that he had filed a claim against the Air Force centering on his property, 710 Price Avenue. He stated that he would exclude himself from any decisions or discussions concerning the property. Mr. Solis then asked the board whether any other members had a COI; none indicated that they had a conflict.

#### **Item II: Approval of Meeting Minutes**

The Board deferred approval of the minutes. Several Board members had not received the minutes in time to review them before the meeting.

#### **Item III: Membership Actions**

Mr. Larry Bailey reported that he and Mr. Solis had sent a letter to Paul Roberson of the Initial Base Adjustment Strategy Committee asking him to join the Restoration Advisory Board.

Mr. Bailey informed the board that Mr. Tom Smith had been advised of his removal from the Board for missing two consecutive meetings without an alternate and that Mr. Smith had indicated an interest in re-joining the Board. Mr. Bailey stated that Mr. Smith was informed that he would have to re-apply for membership and had been provided with the necessary application.

Mr. Bailey informed the board that Mr. Solis' alternate would be Mrs. Solis.

Additionally, Mr. Bailey reported that Ms. Kelly Thurlow had verbally requested termination of her membership. Ms. Thurlow will be officially notified of her removal.

#### **Item IV - TNRCC Risk Reduction Rules - How Clean is Clean?**

Mr. Gary Beyer, Board member representing the Texas Natural Resource Conservation Commission (TNRCC), made a presentation to the Board concerning TNRCC Risk Reduction Rules. Copies of his overhead transparencies are included as Attachment 2. *(To be provided)*

Mr. Beyer explained the three-level, risk based clean-up standards that the TNRCC enforces. These standards replaced the old standard of "clean to background levels".

In response to a question about which standard was most stringent, Mr. Beyer stated that standard 1 is the most stringent, but that it was not economically feasible to always clean up to that standard. Additionally, Mr. Beyer stated that TNRCC had evaluated the Kelly proposal and found it to be protective of the human health and the environment.

Mr. Beyer also discussed the US Environmental Protection Agency's role in the clean up of Kelly Air Force Base. The EPA has authorized TNRCC to evaluate Base clean up proposals

Minutes of the 12th Meeting of the  
Kelly Air Force Base Restoration Advisory Board  
11 December, 1995 - Price Elementary School

and actions, but the EPA maintains an oversight role. EPA will review the process at the time of Base closure.

During and following his presentation, Mr. Beyer took questions from the Board. In response to a series of the questions, the following responses were offered:

- The Kelly Air Force Base Environmental Management organization makes a recommendation regarding clean-up standards which are reviewed and approved for submittal to TNRCC by the Base Commander.
- Kelly is not seeking a change in the status of the shallow aquifer at this time.
- Storage tanks come under a different program and therefore different specific standards.
- Public hearings provide an opportunity for public input to the decision/approval process. Mr. Quintanilla stated that he, speaking as a citizen and on behalf of other Base neighbors, felt the clean-up standard was too low and that the proposed 30-year clean up time was too long.
- TNRCC receives funding from a variety of sources including state and federal funds. The federal funds include funding from the Department of Defense.

#### ITEM V - EMRO Update

Captain Edward von Dran (Kelly AFB EMRO) informed the board that the draft final report of the 1995 Basewide Remedial Assessment was available for review. Copies of his overhead transparencies are included as Attachment 3.

- Captain von Dran said the report was developed to identify, track and monitor any progress of potential contamination and to assure that Kelly Air Force Base is addressing all the issues.
- Mr. Rice commended the Air Force, calling the report "very good work". He noted that the Air Force is not assuming that the interim cleanup systems are working, but has identified potential problems and is working on fixes.

#### ITEM VI - RAB Training

Mr. Jody Wireman, Armstrong Lab briefed the Board concerning the Lab's role in the Kelly AFB Installation Restoration Program. He stated that Armstrong Lab would be reviewing existing data and risk assessments with an emphasis on public health aspects. Copies of his overhead transparencies are included as Attachment 4.

In response to questions following Mr. Wireman's presentation, the following responses/clarifications were offered:

- The Agency for Toxic Substances and Disease Registry study should help determine any health effects on the community.
- The results of the study could affect the decisions concerning the Base proposals.

Minutes of the 12th Meeting of the  
Kelly Air Force Base Restoration Advisory Board  
11 December, 1995 - Price Elementary School

- Mr. Wireman could not confirm whether or not Armstrong Labs or ATSDR would look into the fire at East Kelly and the 10,000 gallons of contaminated water that entered Leon Creek.
- Overall human health is the focus of Armstrong Lab.

#### **ITEM VII - The Defense Environment Alert Subscription**

Mr. Bailey suggested two copies be purchased; however, several board members suggested only a single copy be purchased. No final decision was reached on the number of copies or how they would be made available to the RAB.

#### **ITEM VIII - Budget Update**

Mr. Dan Medina briefed status/forecast of Kelly's FY96 clean up funding. Copies of Mr. Medina's overhead transparencies are included as Attachment 5.

- 80% of the projected budget is for clean-up, with most of the emphasis on Zone 3.
- Mr. Quintanilla suggested the Board may wish to develop a budget subcommittee at some point to review the RAB budget.
- There was a discussion about community outreach and draft Defense Department guidance on including RAB input to the budget process.
- The FY96 budget should be available for review in the next few weeks.

#### **ITEM IX - Subcommittee Reports**

**Groundwater Sub-committee** Mr. Rice stated that he was developing a hydrologic model that he would like to present at a future meeting. Mr. Solis asked if this was the groundwater committee's project or a personal project of Mr. Rice's to which Mr. Rice indicated that this was a personal project but welcomed input from anyone. There will be a Groundwater sub-committee meeting in January and Mr. Rice will present his findings at that meeting.

**RAB Newsletter** In lieu of Mr. Sanchez (absent), Mr. Quintanilla related that those in the community, with whom he had spoken regarding the newsletter, felt it was directed more toward RAB members than the community. Mr. Quintanilla also related that the community wants to read about what is being done by the RAB.

Mr. Rice requested information on submission of articles to the newsletter. Anyone may submit an article by submitting it to the RAB community co-chair, Mr. Solis. The Newsletter committee will approve or disapprove articles for publication.

#### **ITEM X - NEW BUSINESS**

Mr. Michael Overbay, EPA Senior Project Manager for Base Closure Team briefed the RAB on the BRAC process and EPA's role in it.

Minutes of the 12th Meeting of the  
Kelly Air Force Base Restoration Advisory Board  
11 December, 1995 - Price Elementary School

- Government property cannot be sold (a deed cannot be transferred) before EPA certifies that the property is clean. This does not prevent a long-term lease. EPA will hold closing military bases to the same safe standards as with any industry clean-up.
- One full-time employee will be arriving in January (from EPA) to work directly with the Kelly Base Closure Team.
- He clarified the RAB's role in the BRAC process as advisory rather than a decision making committee. RAB members are individuals providing input and a majority opinion is not required for opinions to be considered.
- Regulators - EPA and TNRCC have the final decision regarding when clean up is done and whether 30 years is a normal time frame for groundwater clean-up. The State does look at the time frame and selects the most appropriate process for clean-up. EPA and TNRCC work with on and off-site locations.
- Mr. Quintanilla questioned Mr. Overbay concerning lowered property values (off-base) caused by contamination. Mr. Overbay stated that EPA cannot remedy this problem.

**ITEM XI - Review/Plan Next Meeting**

The next Restoration Advisory Board meeting will be 5 February 1996 at Price Elementary School at 6:00 p.m.

Mr. Solis accepted the following agenda items for the 5 February meeting.

- Discussion of Responsiveness Summary
- RAB working with contractors
- Presentation by the city on the status of the Quintana Road culvert relocation project.

The meeting adjourned at 8:30 p.m.

**ATTACHMENT 1**

**Kelly AFB  
RESTORATION ADVISORY BOARD AGENDA  
11 December 1995  
6:00 PM  
Price Elementary School**

		<u>Time Frame</u>
• Charter Revision	Mr. Solis	3 minutes
• Approval of Meeting Minutes	Mr. Solis	3 minutes
• Membership Actions	Mr. Solis	10 minutes
• TNRCC Risk Reduction Rules - How Clean is Clean	Mr. Beyer	15 minutes
• EMRO Update	Mr. Medina	15 minutes
• RAB Training	Mr. Porter	15 minutes
• Defense Environment Alert Subscription	Mr. Solis	5 minutes
• Budget Update	Mr. Medina	15 minutes
• Subcommittee Reports	Subcommittee chairmen*	
• New Business	Mr. Solis	
• Review/Plan Next Meeting	Mr. Solis	10 minutes



Minutas de la Reunión #12 de la  
Junta Consejera para la Restauración (RAB) de la Base Aérea Kelly  
11 de diciembre de 1995  
Price Elementary School

Miembros de la Junta y alternos presentes:

Sr. Larry Bailey, Presidente de la Junta representando la Fuerza Aérea  
Sr. Gary Beyer  
Sr. Tom Culbertson  
Sr. Allan Hagelthorn  
Dr. Gene Lene  
Sr. B. Kirk Lofton, alterno del Sr. Sam Sanchez  
Sr. Armando Quintanilla  
Sr. George Rice  
Sra. Deborah Robinson, alterna del Sr. Bill Sain  
Sr. Desiderio D. Raygosa, alterno del Sr. Nick Rodriguez  
Sr. Juan Solís Sr. Presidente de la Junta representando la Comunidad  
Sr. Edward Weinstein

Representantes de la Base Aérea Kelly presentes:

Sr. Michael Estrada  
Sr. Daniel Medina  
Capitán Edward von Dran  
Sr. Dick Walters  
Sra. Victoria Wark  
Sra. Adrienne Williams

Miembros ausentes sin representación de alternos:

Sr. Charles Ayala  
Sr. Roy Gill  
Sra. Yolanda Johnson  
Sr. Carl Mixon  
Sr. Tom Moore  
Sr. Sam Murrah  
Sra. Kelly Thurlow

El Sr. Juan Solís Sr., Presidente de la Junta representando la Comunidad, llamó la reunión al orden a las 6:10 p.m. y anunció que había mayoría presente. La agenda fue recibida sin cambios. Se incluye copia de la agenda en el Anexo 1.

Minutas de la Reunión #12 de la  
Junta Consejera para la Restauración (RAB) de la Base Aérea Kelly  
11 de diciembre de 1995, Price Elementary School

### **TEMA I: Revisión de la Constitución**

La Junta aprobó una nueva constitución que entrará en vigor en la próxima reunión. Al aceptar la nueva constitución, la Junta excluyó las secciones G, H e I que están relacionadas con conflicto de intereses. Estas secciones y el tema sobre conflicto de intereses de los miembros serán considerados en una reunión futura.

Además, la Junta aprobó una moción para diferir la aplicación de una cláusula de la constitución original. Esta cláusula estipula que los cambios a la constitución deben leerse en una reunión y ser considerados en la próxima reunión. De no diferir la aplicación de esta sección de la presente constitución, la aprobación de la nueva constitución tendría que posponerse hasta la próxima reunión.

Durante la discusión de la cláusula de la nueva constitución sobre conflicto de intereses de los miembros, el Sr. Armando Quintanilla informó a la Junta que él ha presentado una demanda en contra de la Fuerza Aérea relacionada con su propiedad ubicada en la Avenida Price #710. El Sr. Quintanilla indicó que pedirá a la Junta que se le excluya de cualquier discusión relacionada con su propiedad. El Sr. Solís preguntó a los demás miembros de la Junta si algún otro miembro tenía un conflicto de intereses. Nadie indicó tener conflicto de intereses.

### **TEMA II: Aprobación de las minutas**

La aprobación de las minutas fue diferida debido a que algunos miembros de la Junta no las recibieron con tiempo suficiente para estudiarlas antes de la reunión.

### **TEMA III: Decisiones sobre la membresía**

El Sr. Larry Bailey reportó que él y el Sr. Solís enviaron una carta al Sr. Paul Roberson, miembro del "Initial Base Adjustment Strategy Committee" pidiéndole que forme parte de la Junta.

El Sr. Bailey informó que se le notificó al Sr. Tom Smith de su remoción de la Junta por haber faltado a dos reuniones consecutivas sin enviar a su representante alterno. También informó que el Sr. Smith ha indicado su deseo de volver a unirse a la Junta. El Sr. Bailey indicó que se le informó al Sr. Smith que tenía que solicitar de nuevo su membresía y que se le había proporcionado una aplicación.

El Sr. Bailey informó que el representante alterno del Sr. Solís es la Sra. Solís.

El Sr. Bailey reportó además que la Sra. Kelly Thurlow solicitó verbalmente retirarse como miembro de la Junta. La Sra. Thurlow será notificada oficialmente de la aceptación de su renuncia.

Mínutas de la Reunión #12 de la  
Junta Consejera para la Restauración (RAB) de la Base Aérea Kelly  
11 de diciembre de 1995, Price Elementary School

#### **TEMA IV: Reglas de TNRCC para la Reducción de Riesgo - ¿Que tan limpio es limpio?**

El Sr. Gary Beyer, miembro de la Junta representando a la Comisión para la Conservación de los Recursos Naturales de Texas (TNRCC), explicó a la membresía las Reglas de TNRCC para la Reducción de Riesgo. Una copia de las transparencias usadas en su presentación acompañan estas minutas en el Anexo 2.

El Sr. Beyer explicó los tres niveles de clasificación usados por TNRCC como normas para limpieza. Estas normas reemplazan las viejas normas que requerían una limpieza al "nivel original".

Respondiendo a una pregunta sobre cual era la norma más estricta, el Sr. Beyer indicó que la norma más estricta es la Número 1, pero indicó que no es económicamente factible limpiar siempre a este nivel. El Sr. Beyer explicó que TNRCC evaluó la propuesta de Kelly y encontró que el plan de limpieza propuesto protege la salud y el ambiente.

El Sr. Beyer también explicó la ingerencia de la Agencia de Protección Ambiental (EPA) en el plan de limpieza de la Base Aérea Kelly. La Agencia de Protección Ambiental ha autorizado a TNRCC para evaluar las propuestas presentadas por la Base Aérea Kelly para la limpieza del ambiente. Pero, EPA siempre mantiene supervisión sobre el programa de limpieza. La EPA revisará el plan de la Base Kelly para la limpieza del ambiente antes del cierre de la base.

Varios miembros de la Junta hicieron preguntas al Sr. Beyer quien respondió a éstas de la siguiente forma:

- La Dirección del Departamento Ambiental de la Base Aérea Kelly hace recomendaciones sobre las normas para limpieza del ambiente. Estas recomendaciones son revisadas y aprobadas por el Comandante de la Base quien las envía a TNRCC.
- La Base Aérea Kelly no ha solicitado cambiar la clasificación del acuífero llano.
- Los tanques para almacenaje de productos son considerados en otro programa diferente y por lo tanto son considerados bajo otras normas.
- Las audiencias públicas le ofrecen al público la oportunidad de opinar en el proceso de aprobar ó rechazar reglas. El Sr. Quintanilla indicó que él, hablando como ciudadano y a nombre de los vecinos de la Base Aérea Kelly, cree que las normas de limpieza son muy bajas y que el tiempo de limpieza propuesto de 30 años es muy largo.

Minutas de la Reunión #12 de la  
Junta Consejera para la Restauración (RAB) de la Base Aérea Kelly  
11 de diciembre de 1995, Price Elementary School

- TNRCC recibe fondos de varias fuentes incluyendo el gobierno Estatal y el Federal. Entre los fondos federales se incluyen fondos del Departamento de Defensa.

#### **TEMA V: Informe del Departamento de Restauración Ambiental (EMRO)**

El Capitán Edward von Dran, del Departamento de Restauración Ambiental de la Base Aérea Kelly, informó que el reporte "1995 Basewide Remedial Assessment" en su forma casi final (Draft Final) está disponible para ser revisado. Copia de las transparencias usadas en la presentación del Capitán von Dran están incluidas en el Anexo 3.

- El Capitán von Dran explicó que el propósito de este reporte es identificar y monitorear cualquier cambio de contaminación potencial y asegurar de que la Base Aérea Kelly está considerando todas las medidas necesarias para responder a un posible cambio.
- El Sr. George Rice elogió a la Base Aérea Kelly indicando que este reporte "representa un buen trabajo". Recalcó que la Base Aérea Kelly no asume que el sistema interino de limpieza instalado está funcionando adecuadamente, sino que trata de identificar los problemas potenciales y está trabajando para corregirlos.

#### **TEMA VI: Entrenamiento para los miembros de la Junta**

El Sr. Jody Wireman, en representación de los Laboratorios Armstrong, presentó una reseña del papel que juega los laboratorios en el programa de limpieza de la Base Aérea Kelly. Indicó que los Laboratorios Armstrong revisarán la información existente y los estudios para riesgo enfatizando el aspecto de la salud pública. Copia de las transparencias usadas en la presentación del Sr. Wireman están incluidas en el Anexo 4.

Se le hicieron varias preguntas al Sr. Wireman quien respondió a éstas de la siguiente forma:

- El estudio que llevará a cabo la Agencia para Substancias Tóxicas y Registro de Enfermedades (ATSDR) (Agency for Toxic Substances and Disease Registry) debe ayudar a identificar cualquier efecto en la salud de la comunidad.
- Los resultados de este estudio pueden afectar los planes de limpieza de la Base Aérea Kelly.
- El Sr. Wireman no pudo confirmar si los Laboratorios Armstrong o la agencia ATSDR estudiará el fuego ocurrido en East Kelly y los 10,000 galones de agua contaminada que llegaron hasta Leon Creek.
- Los Laboratorios Armstrong concentran sus estudios en la salud de los humanos.

Minutas de la Reunión #12 de la  
Junta Consejera para la Restauración (RAB) de la Base Aérea Kelly  
11 de diciembre de 1995, Price Elementary School

**TEMA VII: Suscripción a la revista "Defense Environment Alert"**

El Sr. Bailey recomendó que se compren dos copias de esta revista. Algunos miembros de la Junta indicaron que una copia era suficiente. No se llegó a una decisión sobre cuantas copias deberían comprarse o cómo se le haría llegar ésta revista a los miembros de la Junta.

**TEMA VIII: Informe sobre el presupuesto**

El Sr. Daniel Medina explicó la presente situación de fondos para el programa de limpieza de la Base Kelly para el el año fiscal 1996 y cómo se proyectan los fondos futuros. Copia de las transparencias usadas en la presentación del Sr. Medina están incluidas en el Anexo 5.

- El 80% del presupuesto está destinado al programa de limpieza, con especial énfasis en la Zona 3.
- El Sr. Quintanilla sugirió que la Junta debería considerar la formación de un Subcomité de Presupuesto para estudiar el presupuesto, de la Junta.
- Se discutieron los temas en referencia a "Acerramiento a la Comunidad" y las "Guías preliminares de el Departamento de Defensa para la participación de el RAB en el Proceso de el Presupuesto."
- El presupuesto para el año fiscal 1996 debe estar disponible para los miembros de la Junta en las próximas semanas.

**TEMA IX: Reporte de Subcomités**

**Subcomité de Aguas Subterráneas** - El Sr. Rice informó que está desarrollando un modelo hidrológico y que espera presentarlo en una reunión futura. El Sr. Solís le preguntó al Sr. Rice si éste era un proyecto del Subcomité de Aguas Subterráneas o un proyecto personal. El Sr. Rice respondió que era un proyecto personal, pero que aceptaba recomendaciones de cualquier persona. El Subcomité de Aguas Subterráneas se reunirá en enero y el Sr. Rice presentará sus resultados en esta reunión.

**"RAB Newsletter"** - En ausencia del Sr. Sánchez, el Sr. Quintanilla comentó que algunos miembros de la comunidad le habían indicado que ésta publicación está orientada más hacia los miembros de la Junta que a la comunidad. El Sr. Quintanilla comentó que la comunidad quiere enterarse sobre lo que ha realizado la Junta.

Minutas de la Reunión #12 de la  
 Junta Consejera para la Restauración (RAB) de la Base Aérea Kelly  
 11 de diciembre de 1995, Price Elementary School

El Sr. Rice pidió información sobre cómo someter artículos para ser incluidos en esta publicación. Cualquier persona puede someter artículos enviándolos al Sr. Solís. El comité responsable de ésta publicación aprobará o desaprobará los artículos sometidos para publicación.

#### **TEMA X: Asuntos nuevos**

El Sr. Michael Overbay, EPA Senior Project Manager en el Grupo para el Cierre de la Base informó a la Junta sobre la ingerencia de la Junta y de EPA en el proceso para el cierre de la base.

- La propiedad del gobierno no se puede vender (una escritura sobre la propiedad no se puede transferir), sin que la Agencia de Protección Ambiental (EPA) certifique que la propiedad está limpia. Esto no impide que se arriende la propiedad por un largo plazo. EPA aplica las mismas normas de limpieza tanto a las bases en proceso de cerrarse como a la industria en general.
- En el mes de enero llegará a San Antonio un empleado de tiempo completo de EPA para trabajar directamente con el Grupo encargado de el Cierre de la Base Kelly.
- El Sr. Overbay explicó que el trabajo de la Junta en el proceso de cierre de la base es servir de consejero y no de hacer decisiones para el cierre. Los miembros de la Junta son individuos que presentan sus consejos individualmente y no es necesario la aprobación de la mayoría para que sus opiniones sean escuchadas.
- Los Reguladores (La Agencia de Protección Ambiental (EPA) y TNRCC) son la autoridad final para determinar cuándo el agua del acuífero llano ha sido restaurada y si 30 años es el tiempo apropiado para realizar la limpieza. El Estado estudia el tiempo para llevar a cabo la limpieza y selecciona el proceso más apropiado. Ambas agencias trabajan con lugares contaminados dentro y fuera de la Base.
- El Sr. Quintanilla interrogó al Sr. Overbay sobre la baja en el valor de la propiedad (fuera de la base) causada por la contaminación. El Sr. Overbay respondió que EPA no puede remediar este problema.

#### **ITEM XI: Resumen y plan para la próxima reunión**

La próxima reunión de la Junta será el 5 de febrero de 1996 a las 6:00 p.m. en la escuela Price Elementary.

Minutas de la Reunión #12 de la  
Junta Consejera para la Restauración (RAB) de la Base Aérea Kelly  
11 de diciembre de 1995, Price Elementary School

El Sr. Solís aceptó la siguiente agenda para la próxima reunión:

- Discusión del reporte "Responsiveness Summary".
- La Junta trabajando con los contratistas.
- Presentación de la Ciudad de San Antonio para informar sobre el estatus de el proyecto de relocalización del alcantarillado en Quintana Road.

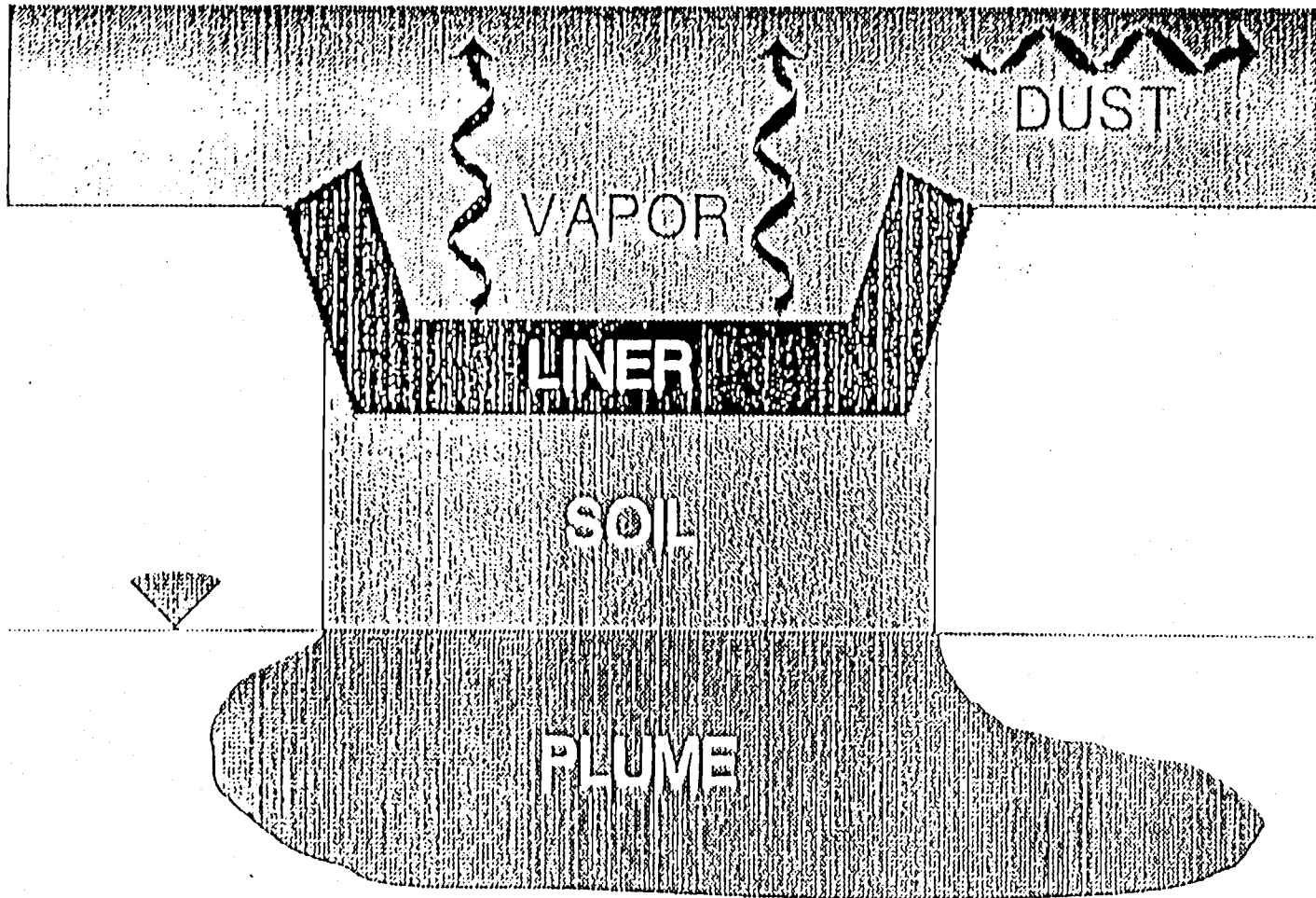
La reunión concluyó a las 8:30 p.m.

# THE RISK REDUCTION CONCEPT FOR CLOSURES AND CLEANUPS

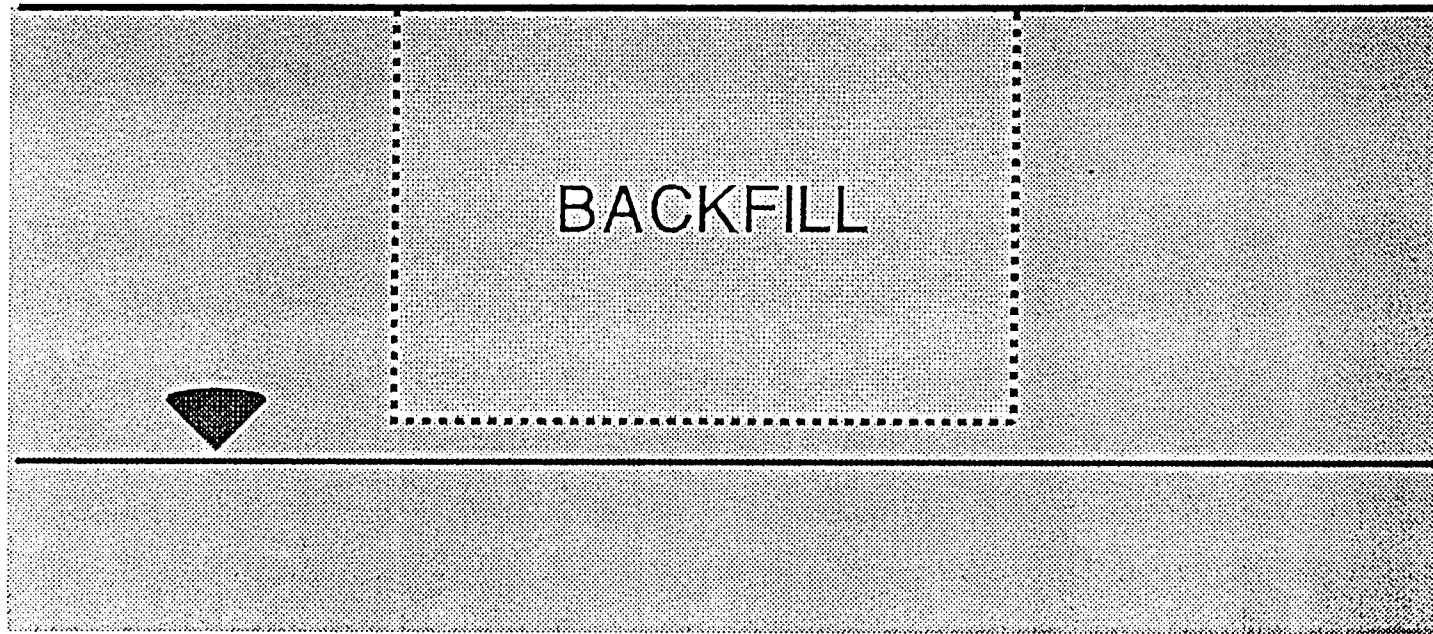
- Use of 3 performance standards involving removal, decontamination or control actions
- Protective of human health and the environment
- Continuing responsibility dependent upon effectiveness of the closure/corrective action effort in eliminating or reducing risk
- Agency preference for remedies that provide permanent solution



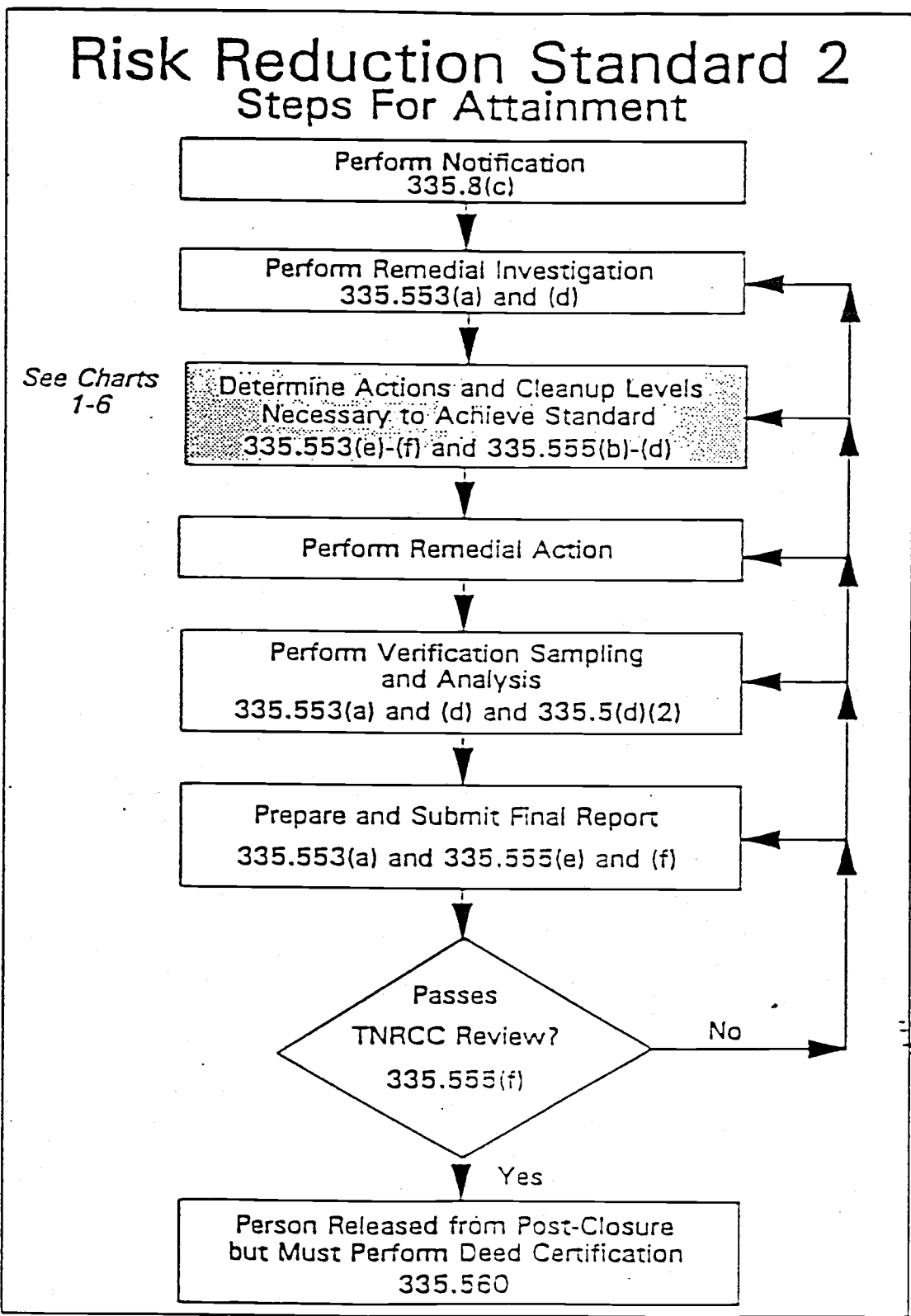
# CONTAMINATED MEDIA



# STANDARD 1



# Risk Reduction Standard 2 Steps For Attainment



# Kelly AFB



## Basewide Remedial Assessment

# Basewide Remedial Assessment

- The Basewide Remedial Assessment was established to conduct recurring basewide surface and groundwater monitoring, to conduct compliance monitoring of RCRA sites, and to evaluate the effectiveness of Remedial Systems.
- The 1994 Basewide Remedial Assessment is a baseline evaluation of both both existing and newly installed Interim Remedial Action Pump and Treat systems designed to inhibit or halt the movement of impacted groundwater.



*Directorate of Environmental Management*

# Basewide Remedial Assessment

- **Project Scope**
  - Conduct compliance monitoring of RCRA sites
  - Evaluate Leon Creek
  - Assess the entire base for impacted Groundwater
  - Model the effectiveness of interim systems
  - Inspect, repair and upgrade monitoring wells
  - Gather data and model groundwater on the base

*Directorate of Environmental Management*



# Present Status

- 1995 & 1996 - Continued evaluation of Kelly AFB
- Draft Final of the Annual Report
- The final verision of the Basewide numerical groundwater flow model should be out before the end of the year.
- Quarterly and annual RCRA and Leon Creek reports for 1994 are on file.
- Leon Creek status report forthcoming in early 1996



*Directorate of Environmental Management*

# Results

- Annual Monitoring Data used to support the Remedial Designs.
- Models also used to enhance the Remedial Designs.
  - Existing systems are being improved as a result of the modeling.
  - Data collection will also support future models.
- Leon Creek assessments used to support not only the RDs but also aid in compliance monitoring.



*Directorate of Environmental Management*



# 1994 Annual Report

- **Executive Summary**
- **Introduction provides an in depth look at the project scope and background.**
- **Section - 2 Gives detailed site descriptions.**
- **Section - 3 Describes procedures, identifies measuring points.**
- **Section - 4 Provides basic data and analysis of ground and surface water flows through potentiometric surfaces and water budgets.**

*Directorate of Environmental Management*



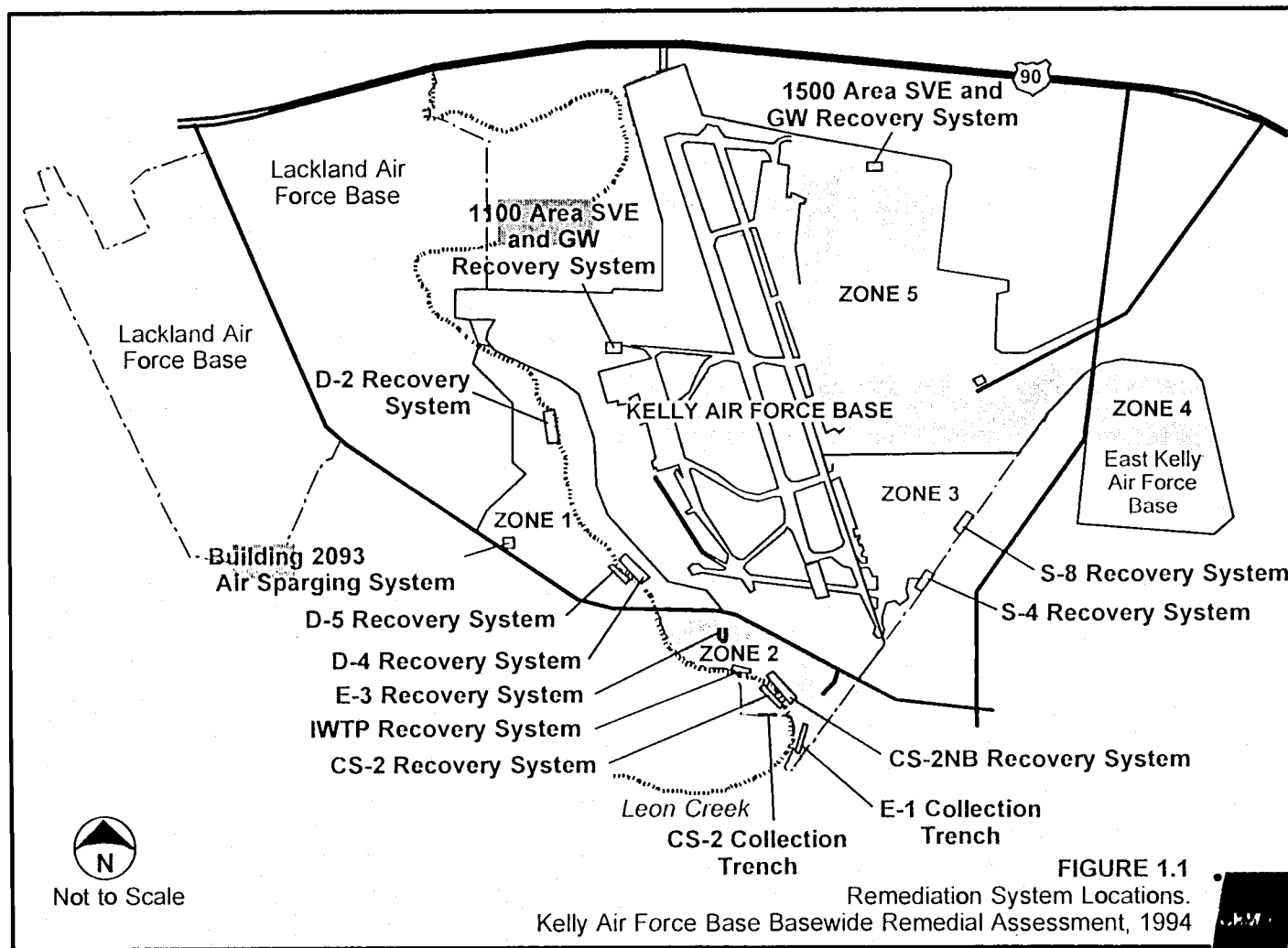
# 1994 Annual Report cont.

- Section 5 - Groundwater Recovery System Performance Modeling.
- Section 6 - Summarizes the Analytical Data.
- Section 7 - Concludes the report.
- Section 8 - Lists References.
- Appendixes A-P - Detail data.
- Volumes IV - XI contain laboratory packages that support the report.
  - Only one copy of vols IV - XI exists.
  - Vols IV - XI are kept in the EMRO technical library.

*Directorate of Environmental Management*

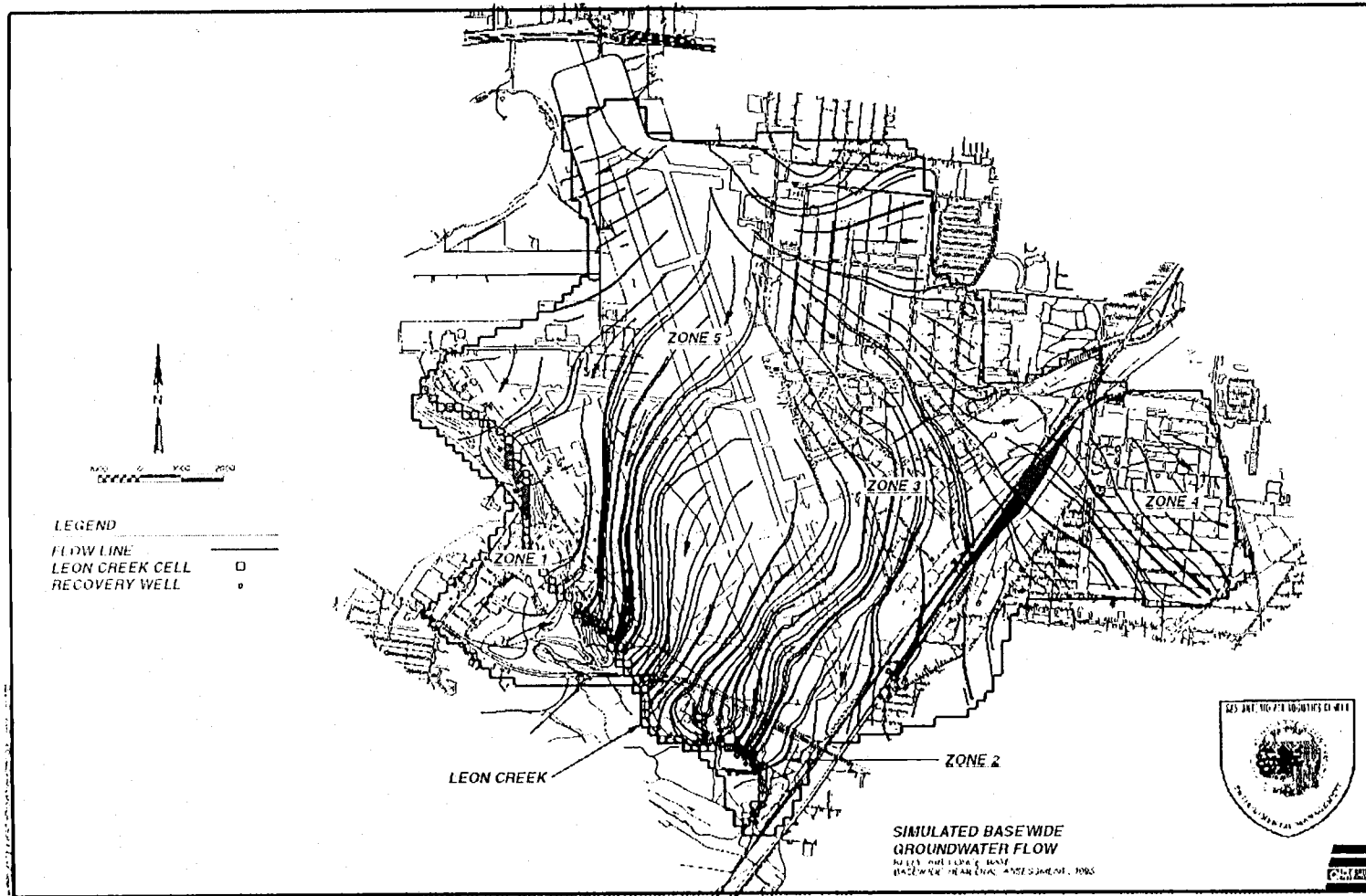


# Remediation System Locations



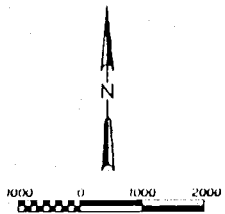
**Directorate of Environmental Management**

# Path Line Plot



**Directorate of Environmental Management**





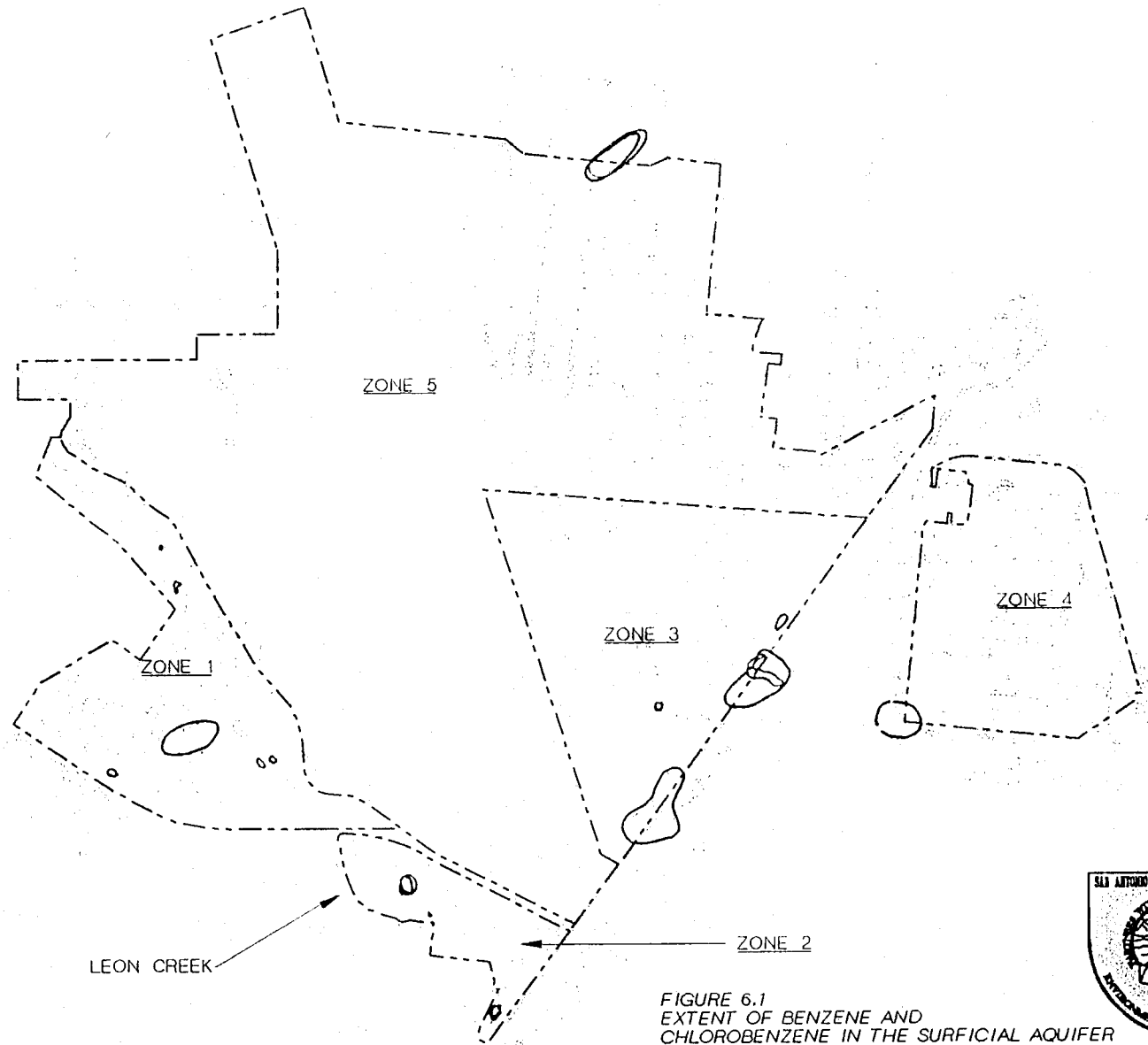
**LEGEND**

BENZENE ISOCONCENTRATION (5 µg/L) ———

CHLOROBENZENE ISOCONCENTRATION (100 µg/L) ———

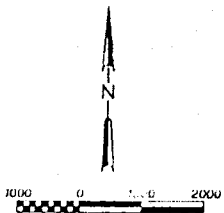
**NOTES**

1. THE PLUME EXTENT WAS GENERATED FROM AND INTERPOLATED BETWEEN SAMPLE LOCATIONS.
2. ALL SAMPLES COLLECTED MAY 1994.
3. ISOCONCENTRATIONS DASHED WHERE INFERRED.
4. CONTOURS ARE DRAWN AT THE MCL.



**FIGURE 6.1**  
 EXTENT OF BENZENE AND  
 CHLOROBENZENE IN THE SURFICIAL AQUIFER  
 KELLY AIR FORCE BASE  
 BASEWIDE REMEDIAL ASSESSMENT, 1994

1. 1:5000  
 2. 1:5000  
 3. 1:5000  
 4. 1:5000  
 5. 1:5000  
 6. 1:5000  
 7. 1:5000  
 8. 1:5000  
 9. 1:5000  
 10. 1:5000  
 11. 1:5000  
 12. 1:5000  
 13. 1:5000  
 14. 1:5000  
 15. 1:5000  
 16. 1:5000  
 17. 1:5000  
 18. 1:5000  
 19. 1:5000  
 20. 1:5000  
 21. 1:5000  
 22. 1:5000  
 23. 1:5000  
 24. 1:5000  
 25. 1:5000  
 26. 1:5000  
 27. 1:5000  
 28. 1:5000  
 29. 1:5000  
 30. 1:5000  
 31. 1:5000  
 32. 1:5000  
 33. 1:5000  
 34. 1:5000  
 35. 1:5000  
 36. 1:5000  
 37. 1:5000  
 38. 1:5000  
 39. 1:5000  
 40. 1:5000  
 41. 1:5000  
 42. 1:5000  
 43. 1:5000  
 44. 1:5000  
 45. 1:5000  
 46. 1:5000  
 47. 1:5000  
 48. 1:5000  
 49. 1:5000  
 50. 1:5000



**LEGEND**

- TCE ISOCONCENTRATION (5 µg/L) ———
- PCE ISOCONCENTRATION (5 µg/L) ———
- DCE ISOCONCENTRATION (70 µg/L) ———
- VINYL CHLORIDE ISOCONCENTRATION (2 µg/L) ———

**NOTES**

1. THE PLUME EXTENT WAS GENERATED FROM AND INTERPOLATED BETWEEN SAMPLE LOCATIONS.
2. ALL SAMPLES COLLECTED MAY 1994.
3. ISOCONCENTRATIONS DASHED WHERE INFERRED.
4. CONTOURS ARE DRAWN AT THE MCL.

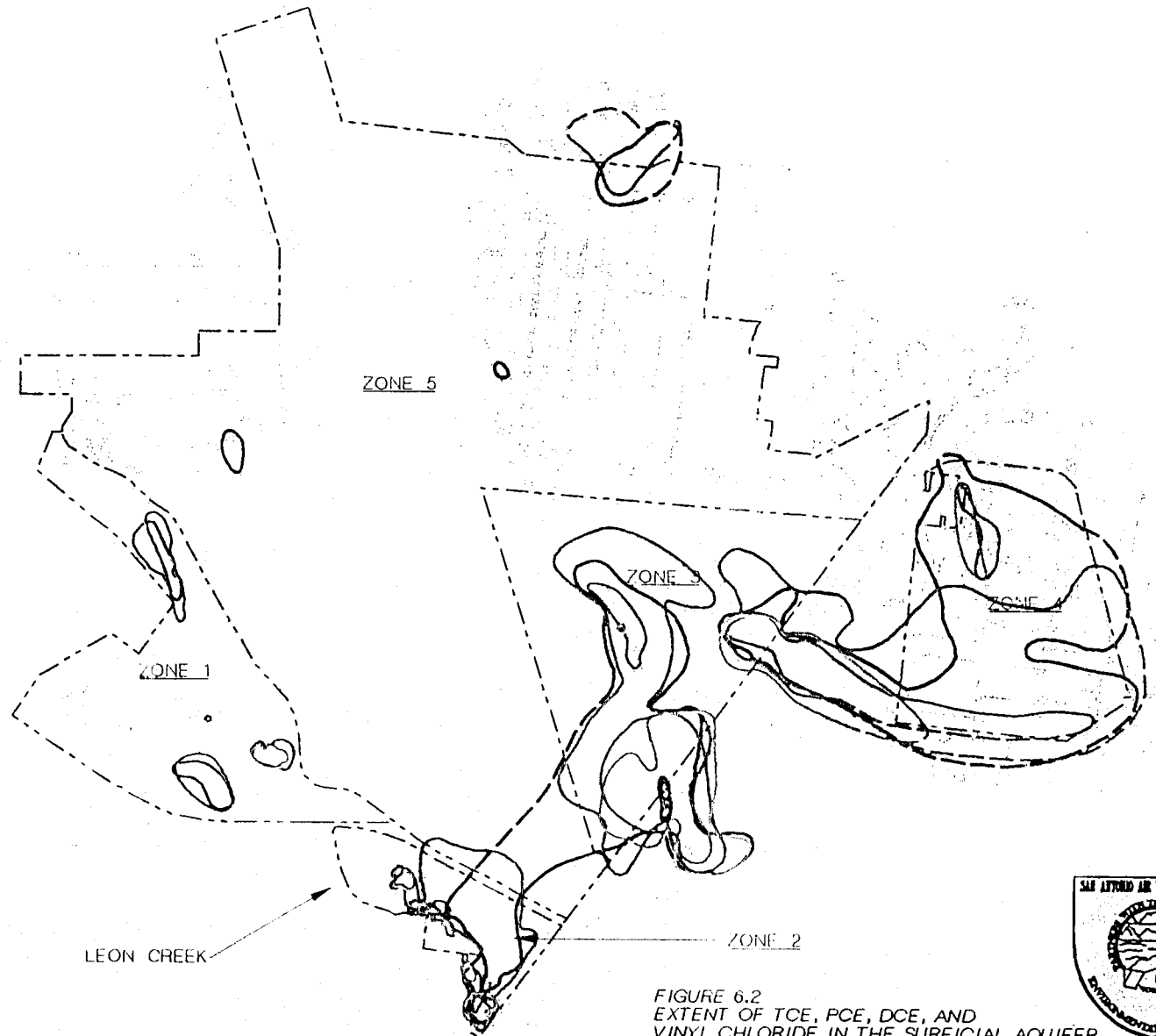
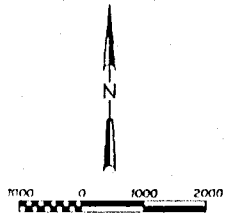


FIGURE 6.2  
 EXTENT OF TCE, PCE, DCE, AND  
 VINYL CHLORIDE IN THE SURFICIAL AQUIFER  
 KELLY AIR FORCE BASE  
 BASEWIDE REMEDIAL ASSESSMENT, 1994





**LEGEND**

- CHROMIUM ISOCONCENTRATION (100 µg/L.) \_\_\_\_\_
- NICKEL ISOCONCENTRATION (100 µg/L.) \_\_\_\_\_
- ANTIMONY ISOCONCENTRATION (6 µ/L) \_\_\_\_\_

**NOTES**

1. THE PLUME EXTENT WAS GENERATED FROM AND INTERPOLATED BETWEEN SAMPLE LOCATIONS.
2. ALL SAMPLES COLLECTED MAY 1994.
3. ISOCONCENTRATIONS DASHED WHERE INFERRFD.
4. CONTOURS ARE DRAWN AT THE MCL.

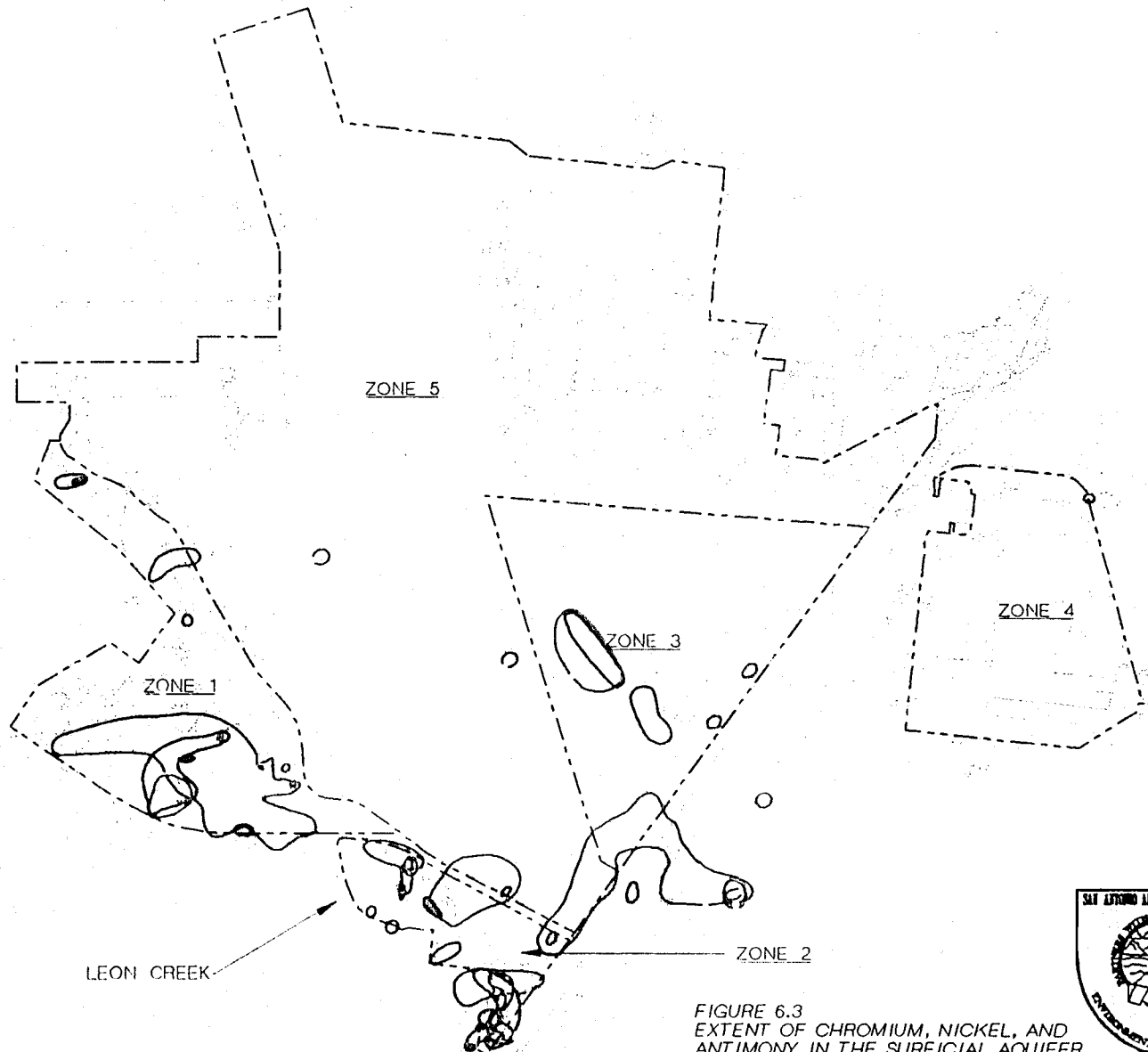
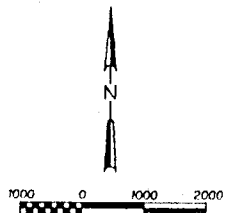


FIGURE 6.3  
 EXTENT OF CHROMIUM, NICKEL, AND  
 ANTIMONY IN THE SURFICIAL AQUIFER  
 KELLY AIR FORCE BASE  
 BASEWIDE REMEDIAL ASSESSMENT, 1994



**LEGEND**

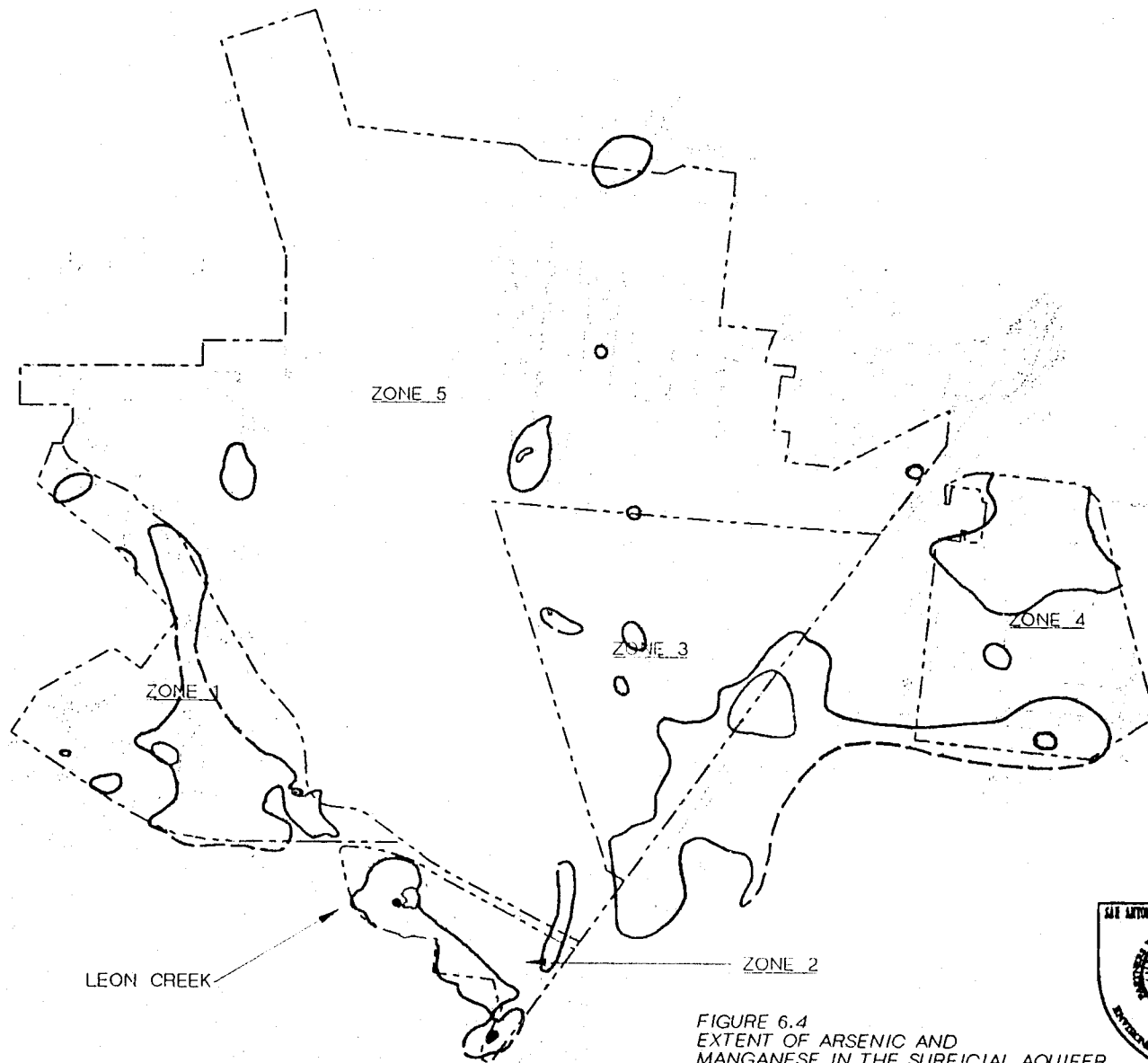
ARSENIC  
ISOCONCENTRATION (50 µg/L)

MANGANESE  
ISOCONCENTRATION (50 µg/L)

**NOTES**

1. THE PLUME EXENT WAS GENERATED FROM AND INTERPOLATED BETWEEN SAMPLE LOCATIONS.
2. ALL SAMPLES COLLECTED MAY 1994.
3. ISOCONCENTRATIONS DASHED WHERE INFERRED.
4. CONTOURS ARE DRAWN AT THE MCL.

\*MANGANESE DOES NOT HAVE A PRIMARY MCL. THIS VALUE IS A SECONDARY STANDARD.



**FIGURE 6.4**  
EXTENT OF ARSENIC AND  
MANGANESE IN THE SURFICIAL AQUIFER  
KELLY AIR FORCE BASE  
BASEWIDE REMEDIAL ASSESSMENT, 1994



# The Role of the Armstrong Laboratory in the

Data Gap Sampling  
and  
Analysis Plan

Kelly AFB, TX

Armstrong Laboratory  
Occupational Medicine Division  
Environmental Sciences Branch



Slide Number 1

# Team Members

## Armstrong Laboratory

- Cornell Long
- Major Maccabe
- Capt Sassaman
- John Hinz
- Dr. Ron Porter
- Dr. Liz Maull
- Jody Wireman
- Don Hammer
- TSgt Westbrook
- SSgt Jacobsen
- Luis Salazar
- Steve Strausbauch

Armstrong Laboratory  
Occupational Medicine Division  
Environmental Sciences Branch



Slide Number 2

# Purpose of Visit

- Data Gap Sampling and Analysis Plan (DGSAP)
  - Conduct Site Visit
  - Identify Data Gaps (Public Health Methodologies)
  - Recommend Sampling and Analysis Plan

Armstrong Laboratory  
Occupational Medicine Division  
Environmental Sciences Branch



# Base Responsibilities

- Provide Historical and Environmental Overview of Base
- Provide Site tours and access to environmental information
- Present Base and Community Health Concerns

Armstrong Laboratory  
Occupational Medicine Division  
Environmental Sciences Branch



# What is a Public Health Evaluation?

- Data Evaluation of historical hazardous substance releases
- Discusses past, current, and future impact on public health
- NOT an EPA risk assessment
  - Describe the health implications of living near a hazardous waste site versus selection of a remedial action

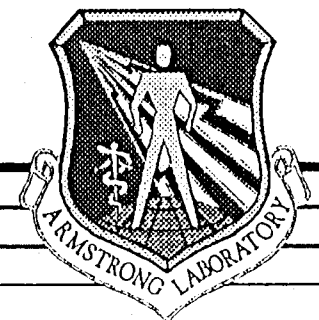
Armstrong Laboratory  
Occupational Medicine Division  
Environmental Sciences Branch



# Public Health Evaluation Foundation

- *Environmental Characterization Data*
- Health Outcome Data
- Community Health Concerns

Armstrong Laboratory  
Occupational Medicine Division  
Environmental Sciences Branch



Slide Number 6

# Exposure Pathway Evaluation

- Nature and extent of contamination
- Community in pathway
- Comparison with health effects information

Armstrong Laboratory  
Occupational Medicine Division  
Environmental Sciences Branch



Slide Number 7

# Data Gap Sampling and Analysis Plan

- What is the Purpose?
- What is the Timeline?





# Lessons Learned

- Public health evaluations; extent and focus
- Public health methodologies

Armstrong Laboratory  
Occupational Medicine Division  
Environmental Sciences Branch



Slide Number 9

# AL Health Assessment Assistance

- Evaluate future sampling plans
- Assist in sampling efforts
- Review sample results to ID health risk
- Participate in public forums
- Perform health consults

Armstrong Laboratory  
Occupational Medicine Division  
Environmental Sciences Branch



Slide Number 10

# AL Contact for Kelly AFB

Mr. Cornell Long

AL/OEMH

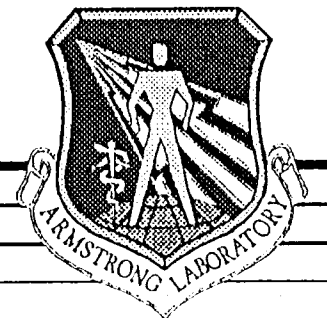
2402 E Drive

Brooks AFB, TX 78235-5114

Phone: 210-536-6121

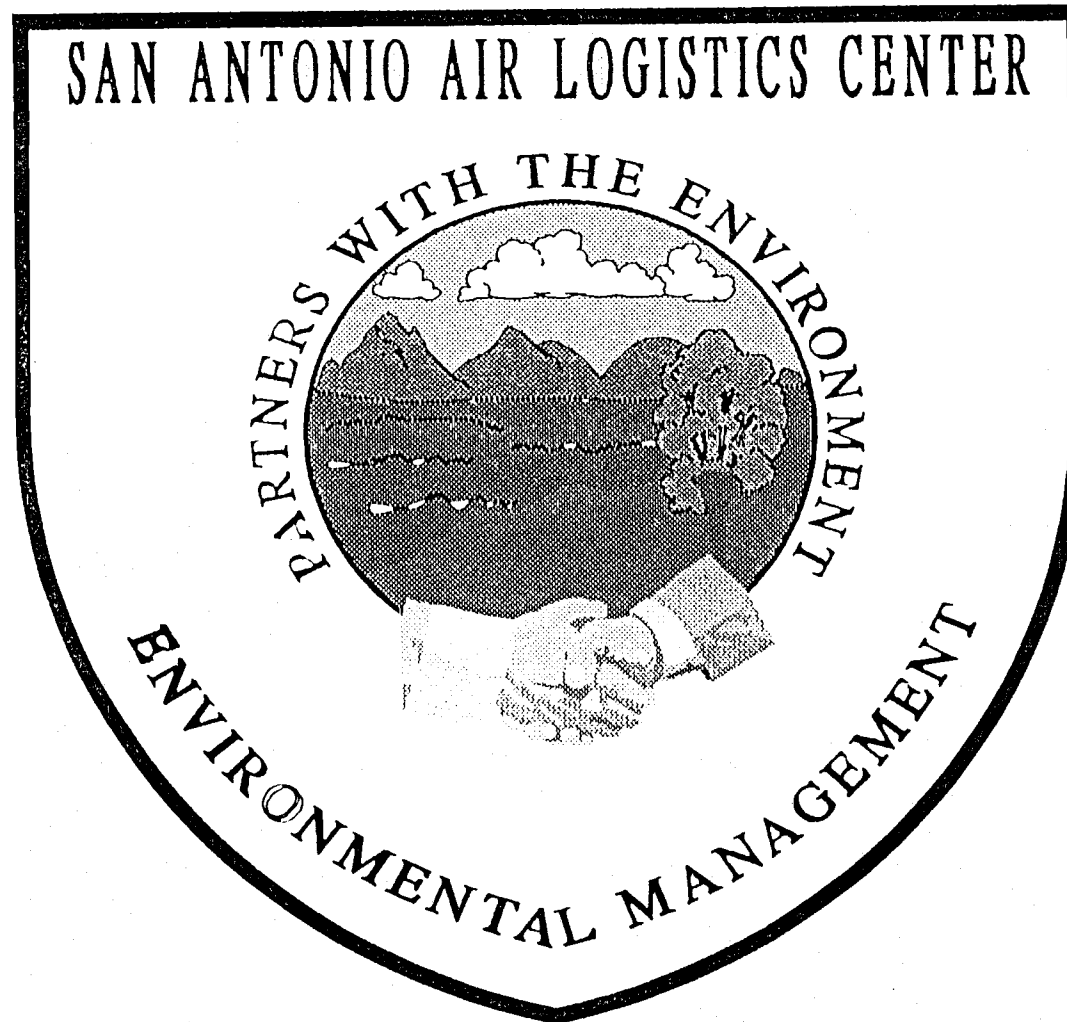
FAX: 210-536-2315

Armstrong Laboratory  
Occupational Medicine Division  
Environmental Sciences Branch



Slide Number 11

# Kelly AFB IRP Budget Update



11 DEC 1995

# Kelly AFB IRP Anticipated Work - FY 96, 97

---

- Soil & Groundwater Remedial Actions  
Zones 1, 2, & 3 (upon completion of  
Remedial Design)
- Soil & Groundwater Feasibility Studies  
Zones 4 & 5 (upon regulatory approval  
of the Remedial Investigation)

*Directorate of Environmental Management*



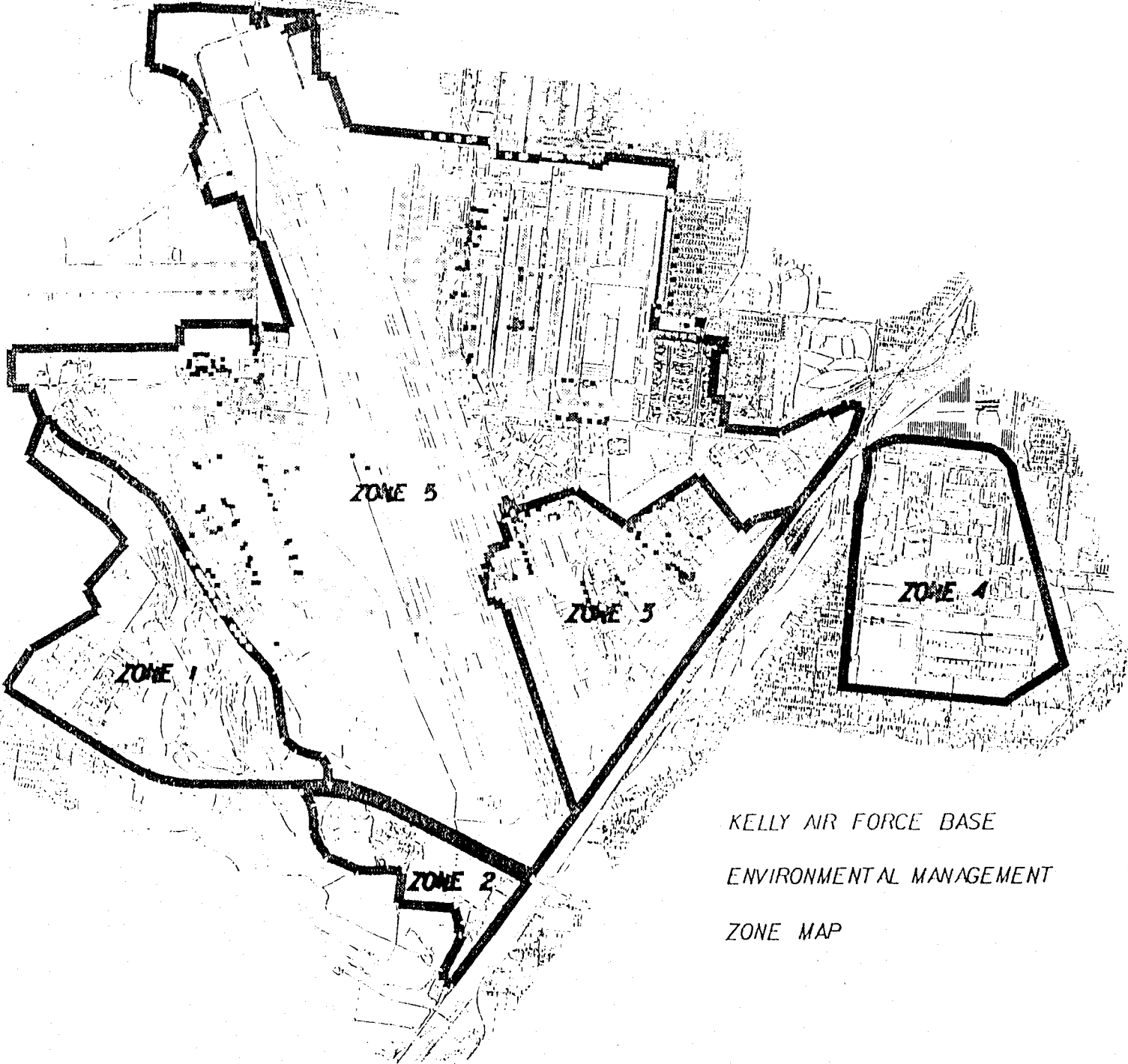
# FY 96 Budget

---

- Projected budget approx. \$30 million
- Actual cleanup budget approx. \$20 million
- Breakdown per zone
  - Zone 1 - 6%
  - Zone 2 - 28%
  - Zone 3 - 54%
  - Zone 4 - 5%
  - Zone 5 - 7%
- Operating under Continuing Resolution Authority

*Directorate of Environmental Management*





ZONE 5

ZONE 3

ZONE 4

ZONE 1

ZONE 2

KELLY AIR FORCE BASE  
ENVIRONMENTAL MANAGEMENT  
ZONE MAP

Kelly Air Force Base -- San Antonio Air Logistics Center *ML*

Installation Restoration Program

# Progress Report

Office of Public Affairs, 807 Buckner, Kelly AFB TX 78241-5842 (210) 925-7951 AV 945-7951

## Sound wave test to map soils, gravels, water under East Kelly

Residents along the East Kelly boundaries may hear a sound like muffled gunshots as the base attempts to build a 3-dimensional underground map using sound waves. The goal is to use sound waves to look for areas of gravel or sand where shallow underground water collects or moves.

The testing will last from Dec. 12 until Dec. 17. The equipment is a new technology, not yet in widespread use. Kelly's tests will determine how well the equipment functions in tight clays and silty soils.

To produce the sound waves, a small amount of liquid propane is placed in the top of a cone-shaped device. When it is ignited, the muffled "bang" sends sound waves into the ground. A listening device then measures how long it takes the sound to bounce back from underground. Sound travels at different speeds in different types of soils.

The goal is to obtain measurements that show where old stream beds are located and whether or not shallow underground water is present. A second goal is to record the depth and condition of the underlying Navarro clay layer. Cracks, channels and eroded spots on the top of the Navarro clay are also likely collection points for shallow underground water.

Current as of December 1995

**“ The sound waves may resemble muffled gunshots... information is collected as the sound waves bounce back from various layers of soil or clay. ”**

An environmental company, CH2M Hill, will be conducting the test, called a high resolution seismic survey, as part of the remedial investigation for Zone 4 (East Kelly). The project will cost approximately \$15,000. The contractor will generate about 200 data points during this project.

The proposed line for data collection will be on the west side of East Kelly from around the Family Campground down to the southwest corner, and then along the south boundary of East Kelly through the Defense Logistics Agency storage yards towards the water tower. The actual test points may be moved, depending on site accessibility, underground utilities, or distances required between control points.



The survey at East Kelly will use "high resolution seismic" equipment that was designed for exploring shallow layers of similar material.

#### WHAT IT CAN DO

The sound waves will be traveling through black and brown clays, into the clayey gravels (where shallow underground water collects), and then into the Navarro clay. The contractor expects enough of a sound change from the saturated gravels to the Navarro clay to identify the underground layers. The contractor also hopes to be able to find and map the change from brown clay to clayey gravel.

If the system performs as expected, it will essentially create simplified boring logs without installing a soil boring or well. This is helpful because sound wave mapping will cost considerably less than soil borings or monitoring wells.

This would allow the base to explore the shallow underground areas along the base boundaries using testing points that are much closer together on the same budget that would provide only a few wells or borings. By getting better data about underground spots where water moves or collects, the base can design more efficient cleanup systems.

If the seismic survey is successful, it

## For more information...

Copies of Kelly Air Force Base Installation Restoration Program reports and decision documents are available in the government documents section of the Central San Antonio Library. They also are available in the Kelly Air Force Base Library. If you would like more information or to be added to the mailing list for Progress Reports and Fact Sheets, contact:

**Dick Walters**  
**Environmental Coordinator**  
**Office of Public Affairs**  
**807 Buckner**  
**Kelly AFB, TX 78241-5842**  
**tel: (210) 925-1812**

will give Kelly AFB another tool to use in finding and cleaning impacted groundwater.

For more information, call Dick Walters at 925-1812 or Mike Estrada at 925-7951.

**Residents of the South San area serving on Kelly's Restoration Advisory Board are Mr. Armando Quintanilla, 710 Price Avenue, tel. 923-3875 and Mr. Roy Gill, 127 Hollenbeck, tel. 922-5034.**

**FINAL PAGE**

**ADMINISTRATIVE RECORD**

**FINAL PAGE**