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NAS FORT WORTH
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DRAFT MEETING MINUTES FROM RESTORATION ADVISORY BOARD MEETING AGENDA
FROM 25 OCTOBER 2007 WITH ATTACHMENTS NAS FORT WORTH TX
10/25/2007
RESTORATION ADVISORY BOARD



CARSWELL AFB
TEXAS

ADMINISTRATIVE RECORD
COVER SHEET

AR File Number 781



Meeting Notice

Carswell/Plant 4 Restoration Advisory Board

Date: Thursday, May 1, 2008

Time: 6:00 to 8:00 pm

Place: Holiday Inn Express
2730 Cherry Lane



Agenda items will include:

AFP 4 Environmental Cleanup Site Tour

For more information please contact:

Estella Holmes at 1-800-982-7248, ext. 53395

George Walters, AFP 4 Remedial Project Manager, 1-800-982-7248, ext. 51988





Carswell/Plant 4 RAB Meeting and Site Tour

If you plan to attend the tour:

Please notify Estella Holmes or Gregory McGraw prior to **April 24, 2008**.

Information must include:

1. Your full name
2. Have you been a US citizen for the more than 10 years?

If you are not a US Citizen or have not been a citizen for more than 10 years:

3. Please include your place of birth and date of birth.
4. Please include your passport number (non-US citizens)

The tour will begin at approximately 6:30 p.m. Transportation will be provided.

***Please note: cameras, tape recorders, laptop computers, or other recording devices are not permitted on the tour.
Your understanding in this matter is appreciated.***

Estella Holmes: 1-800-982-7248 (ext. 53395)
Direct Dial: 937-255-3395
Email: estella.holmes@wpafb.af.mil

Gregory McGraw: 513-782-4752
Email: greg.mcgraw@shawgrp.com

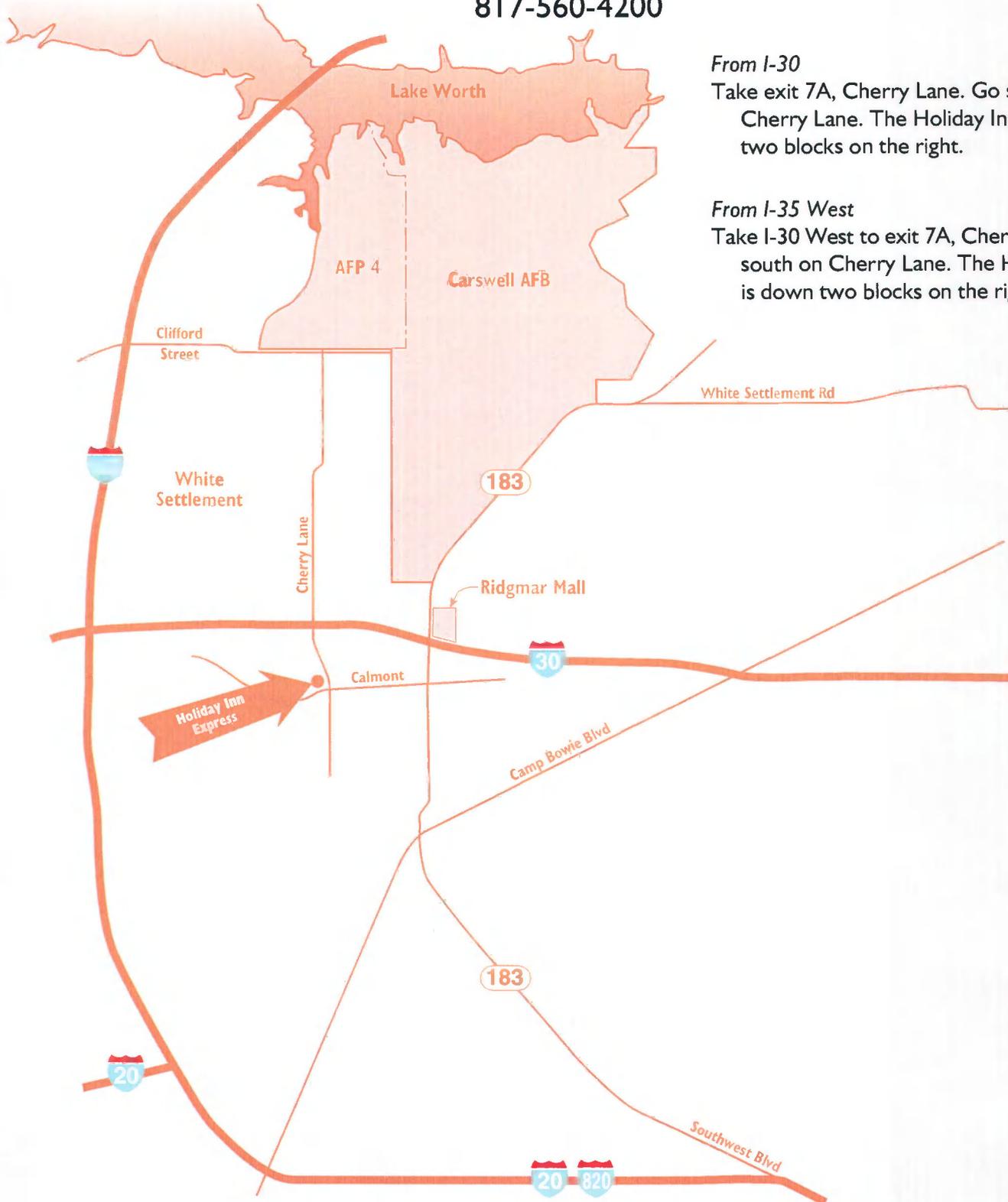
The RAB meeting will be held at the Holiday Inn Express,
located south of I-30 at 2730 Cherry Lane.
(817) 560-4200

A map to the hotel is attached.

RAB Tour Meeting Location

Holiday Inn Express

2730 Cherry Lane
817-560-4200



From I-30

Take exit 7A, Cherry Lane. Go south on Cherry Lane. The Holiday Inn is down two blocks on the right.

From I-35 West

Take I-30 West to exit 7A, Cherry Lane. Go south on Cherry Lane. The Holiday Inn is down two blocks on the right.

CARSWELL/PLANT 4 RESTORATION ADVISORY BOARD MEETING

DRAFT Summary Minutes of October 25, 2007 Regular Biannual Meeting

A regular meeting of the Carswell/Plant 4 Restoration Advisory Board (RAB) was held October 25, 2007 at the Lockheed Martin Recreation Association Ranch House, 3400 Bryant Irvin Road. The RAB meeting began at 6:06 p.m.

AGENDA

Welcome/Introductions/Minutes

Action Items

Air Force Plant 4 (George Walters)

Program Update

- Fish Sampling Activity
- 5-Year ROD Review Update
- Additional Remediation Activities

Carswell Off-Base (Norma Landez)

Air Force Real Property Agency Final Program Update

- Project Overview
- Project Completion

Westworth Redevelopment Authority Update (Leland Clemons)

Next Meeting Agenda

Open Discussion/Questions

AFRPA Project Completion Celebration

Ms. Chris Baack, Community Co-Chair, called the meeting to order. Introductions were made by all in attendance. The minutes from the May 2007 RAB meeting were approved.

AIR FORCE PLANT 4

Program Update

Mr. Walters introduced himself as the Restoration Project Manager for Air Force Plant 4 (AFP 4) from Wright-Patterson AFB in Dayton, Ohio.

Mr. Walters gave a brief overview of the history of AFP 4 and the ongoing cleanup for the new people at the meeting. He explained the Air Force Plant purpose and locations. Using an aerial photograph Mr. Walters indicated the properties of the Air Force, Lockheed Martin, the Navy and the property transferred to Mr. Clemons and the Westworth Redevelopment Authority.

Mr. Walters described the typical chemicals that were used at the plant (trichloroethylene (TCE) and Polychlorinated Biphenyls (PCBs)) and are the focus of the cleanup with trichloroethylene being the main chemical in the groundwater. It was used to clean metal parts. It was also used in dry cleaning.

Polychlorinated Biphenyls were in fluids used for hydraulics and transformers. A lot of materials contained PCBs as it was considered a good chemical because it wouldn't burn.

Mr. Walters talked about a site on AFP 4 where everything has been dumped. The spot was visible from aerial photos. When the investigation began in the early 1980s, the Air Force discovered that TCE settled through the soil and groundwater to the bedrock and spread into the fractures. Now we have to track it down and try to clean it out. The depth to bedrock is 40 feet – 60 feet and TCE is in the cracks making it almost impossible to get to.

Mr. Walters discussed the contaminant concentrations of part per million and part per billion noting the 5 parts per billion is the EPA standard for drinking water. This is equal to a drop of water in a swimming pool. Mr. Walters talked about the treatment systems in place at Plant 4 that pull out groundwater for treatment. To date over 138 million gallons of groundwater have been treated at Plant 4. The TCE is diluted in the groundwater.

Mr. Walters then showed the groundwater plume animation depicting the changes to the TCE plume in the shallow groundwater aquifer. Mr. Walters added that the water in the shallow groundwater aquifer would not be suitable for drinking even if the TCE were not present. The animation indicates the location of various treatment systems installed over the years and those currently in use. Mr. Walters said he would look into a way to put the animation on the internet for people to see.

Mr. Walters said the Air Force had spent \$80 million dollars on the remediation at Plant 4 alone. He added that Carswell had a cleanup under AFCEE that was separate for the Plant 4 cleanup.

Currently the Air Force is conducting a study for the Record of Decision (ROD) review that occurs every five years. The EPA has certain sites the Air Force is to evaluate to determine the effectiveness of the treatment and to verify that nothing has changed. The report should be available shortly. In addition to the 5-year ROD review, the Air Force conducts sampling of the groundwater twice a year.

Mr. Walters said Bruce Moring of the USGS had conducted some more PCB sampling of the fish in the lake. There are no results yet as it takes a couple of months to have the samples analyzed. The USGS collected fish and smaller fish food/bugs, from the smallest to the bigger ones to see how they accumulate anything adverse up the food chain. Hopefully next year Dr. Moring could come out and talk about the findings.

A question of fish migration within the lake was raised. The concern was the fish would feed in one location and move to another thereby giving an inaccurate sampling based on the sampling locations. Fish and Wildlife had said the fish would migrate all around the lake. In response, Chris Braun, USGS, said the reality is fish do not migrate that far within the lake. Fish in other parts of the lake that were sampled did not have PCBs.

Mr. Mike Gross asked George if he would retire before the project was complete and if the fishing/eating ban was still in place. The answer was "yes: to both questions. Only the health department's sampling results would be used to lift the ban.

Mr. Walters talked about how TCE is absorbed by the soil particles. When the groundwater is treated, the TCE slowly leaches from the soil particles to re-contaminate the groundwater. A rule of thumb says it takes ten cleaning cycles to remove all the TCE from the soil particles. Even though 138 million gallons sounds impressive, the two-square mile area is a big area with a lot of water to treat.

Mr. Walters discussed the "hotspot" cleanups. While the groundwater is being treated, certain locations around the plant were considered hotspots with high concentrations of contamination, up to 20,000-60,000 parts per billion. The treatment methods used were briefly discussed including the soil heating system.

As for the future, the project has been funded for the next year. More long term sampling will be conducted in May and work will be conducted in focused areas. He said there may be a RAB tour as well. Mr. Gross asked if any more sampling would be conducted on the east side of West Fork. Mr. Walters said the plume was not leaving federal property on that side. If anything seeped out it would go to the river and not on that side.

One gentleman asked where the groundwater traveled from the plant. He felt the EPA and/or state would be the people he needed to speak with. He asked what would have happened if the Air Force had not been conducting the cleanup and where the contaminated groundwater would flow. Mr. Walters said the groundwater flows south east. The gentleman was interested in the flow of groundwater in Ft. Worth in general. Mr. Wice, Shaw, said the studies concerned Plant 4 specifically, but the shallow groundwater was not migrating off site. For the Ft. Worth region at large, there are many variables that affect groundwater flow in the area and a specific location would be needed to show flow direction. A discussion with Mr. Sullivan, EPA, and others evolved about the site geology and groundwater flow. Mr. Bounds, City of Fort Worth, said the city has no water wells. All water comes from the Trinity River. The only wells in the city would be private wells and there are regulations governing those.

Mr. Walters concluded his presentation.

Ms. Baack asked if a pause could be taken at 7:06 p.m. to view the space shuttle passing over head while it is attached to the space station. Ms. Baack said Mr. Walters had suggested this and she thought it was a good idea.

CARSWELL OFF-BASE

Program Update

Ms. Norma Landez introduced herself as the BRAC Environmental Coordinator for the former Carswell Air Force Base. She said she is the last BRAC Environmental Coordinator because the project is complete. The Air Force Real Property Agency would continue to monitor the site periodically as Mr. Walters does on a 5-year basis.

Ms. Landez briefly reviewed the past cleanup activities for those in attendance. The base was closed in September 1993 and re-opened a year later as a Naval Air Station. Not all of the property was re-aligned to the Navy and the Air Force Base Closure Agency was responsible for clean up and disposal of these properties.

In 1994, 87 sites were identified for further investigation. Sites located on the Naval Air Station were handled by AFCEE and are complete. The remaining 19 sites under the AFRPA are also now complete. All the sites were closed to meet state health-based standards. Another requirement was to transfer property. Various properties have been transferred to different agencies including the, Westworth Redevelopment Authority, Department of Education, Health and Human Services and the Department of Justice. The last 347 acres of the golf course have been transferred to the Westworth Redevelopment Authority and finally got the Navy to sign to accept the Naval Air Station Property. The Weapons Storage Area west of the base was transferred to the Army in June 2007.

Ms. Landez showed a list of the acreage transferred to the Westworth Redevelopment Authority and spoke of all the new development that had taken place on this property. Ms. Landez said she thought it was a great thing that had happened to the old Air Force Base property.

In addition, the AFRPA will come back every five years to conduct a review to ensure the treatments are still protective of human health and the environment. The task is a bit different than the review Mr. Walters is conducting because these sites are not part of an NPL site and there is no Record of Decision in place. The first review has been conducted for some of the sites and signed off on in 2006. The remaining sites will be reviewed in 2010. Notices will be placed in the local newspaper and the report will be placed in the local library.

Ms. Landez showed her last slide and said this was the one she really wanted to do. She thanked the RAB members and Ms. Baack, the co-chair; Leland Clemons, Westworth Redevelopment Authority; Robert Sullivan and Noel Bennett (USEPA); Mark Weegar and Ray Risner, (TCEQ); George Walters and Estella Holmes, (US Air Force); AFCEE and AFRPA; and the contractors Earth Tech, HGL and Shaw.

Ms. Landez said this would be her last RAB and she expressed her appreciation for all the support and help she had received.

A question was asked about the Army's plans for the old WSA property. Ms. Landez said it was going to be a Joint Reserve Training Center but she did not have any further specifics.

Ms. Landez concluded her presentation.

At this time the meeting paused to go outside and view the space shuttle and space station passing by.

WESTWORTH REDEVELOPMENT AUTHORITY

Leland Clemons introduced himself and provided an update on the activities of the Westworth Redevelopment Authority. Mr. Clemons thanked Ms. Landez for getting a lot of different pieces of this project moving in the same direction. Mr. Clemons said that long before the WRA, the Air Force was looking at a lease of the property as the most effective way to handle the transfer. This would allow the WRA to begin working in the community to promote economic development.

Mr. Clemons said he had pulled some numbers to give a perspective of what has been accomplished. Right now, total value of construction on the 400 acres is \$82 million for private improvements. In addition there are \$18 million worth of infrastructure improvements and \$2.5 million to remove old housing and unusable infrastructure. There is over \$100 million dollars invested in the property to date. Mr. Clemons said he estimates over \$150 million dollars in total improvements will be invested when the project is complete. Added to this is the development of the corridor along Highway 183. This area was completely undeveloped. When the re-use property work began on the North side of 183, private development followed on the south side. When the corridor is complete the total value of all construction should be \$250 million.

Mr. Clemons said his favorite comparison is the city of Westworth Village from 1963 (when the city had been developed) to 2003 when the capital improvements on the re-use property were started. There had been less than \$500,000 in building permits issued. There was almost no development taking place in that 30 year period. In the 10 years from 2003 to 2013 the dollar amount of permits issued is expected to total \$175 million. If not for the remediation and cleanup of the transferred property, that development would not have taken place.

As part of the agreement with the Air Force, the WRA was to build a balanced tax base as well as create jobs. There are no target figures for the tax base as there was for job creation. To date there are 850 permanent jobs with a target of 1200. Mr. Clemons believe 1000 jobs will be in place by the end of the year and the full 1200 should be reached by mid-2009 ahead of the 2012 target date with the Air Force.

This has been a cooperative effort with the Air Force and local government and it has been a great success. A question was asked about what was going in to the new areas. Mr. Clemons said on the south side all he was aware of was the Super Target. On the re-use side there will be LA Fitness and an Army/Navy Recruiting office both of which should open by the end of the year. A Sonic restaurant is open and Wachovia Bank is under construction. A Compass Bank will also be constructed. There are two retail buildings constructed and leases are being discussed with potential sit-down restaurants. A Chick-Filet also is under construction now.

Mr. Fontenot, Mayor of Westworth Village, said he wanted to say "thank you" to Leland for his work and recognize the former mayor, Randy Landy, who signed the conveyance, Melva

Campbell Planning and Zoning Commission Chairman, the city of Westworth Village. This could not have happened without the support and trust of the community. Leland deserves a big reward.

Mr. Clemons expressed his gratitude to the mayor. Mr. Clemons said there was a feel-good story in all of this and he wanted to share it, especially with Norm Robbins Lockheed Martin, in the audience. When the base closed, one-third of Burton Hill Elementary student population left. They left as the base personnel were transferred. The student-teacher ratios dropped very low and their scores went up. This seemed to surprise the school district that with fewer students and more teachers the students did better. The school had been placed on the district's possible closure list but with the higher scores, the school moved to exemplary status. There are only two elementary schools in all of Ft. Worth ISD with this status.

The school had historically been a very homogenous population. With the base re-opening, that has changed as has much of Ft. Worth and is now racially and economically mixed. Almost one-third of the students have parents in the military. With the troop deployments and all the things seen in the news about the war, the students are under a lot of pressure and this created a number of challenges for the school and the school dropped from its exemplary status. The WRA saw an opportunity and worked with Wal-Mart to get support for Burton Hill to build a playground to help meet the needs of these children. Many are "latchkey" kids and do not have the time or means to have fun.

At this point the meeting was adjourned and the cake-and-ice cream celebration began.

NEXT MEETING

The date for the next RAB meeting will be determined. A notice will be sent out with the draft minutes prior to the meeting

OPEN DISCUSSION/QUESTIONS

There were no further questions or discussion.

IN ATTENDANCE (signed-in)

Carswell Off-Base

Norma Landez, Air Force Real Property Agency
 Sonja Coderre, Public Affairs, Air Force Real Property Agency
 Eddie Martinez, Air Force Real Property Agency

Air Force Plant 4

George Walters, AFP 4 Project Manager, ASC, Wright Patterson Air Force Base
 Estella Holmes, ASC Public Affairs, Wright Patterson Air Force Base

US Air Force

Mike Hawkins, Public Affairs, AFCEE

Texas Commission on Environmental Quality

Mark Weegar
Tim Sewell

U.S. Environmental Protection Agency

Robert Sullivan
Noel Bennett

U.S. Geological Survey

Christopher Braun

City of Fort Worth

Richard Talley
Paul Bounds
Chris Brietling

Texas Department of Health

Nancy Ingram

Lockheed Martin

Norman Robbins
Christy Yorek

Community

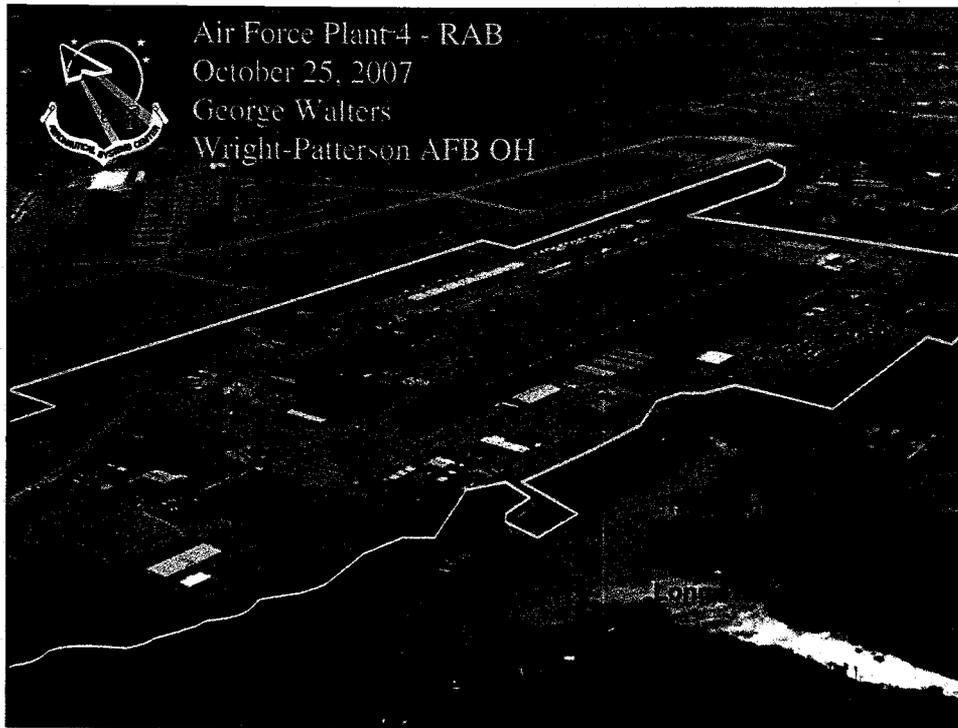
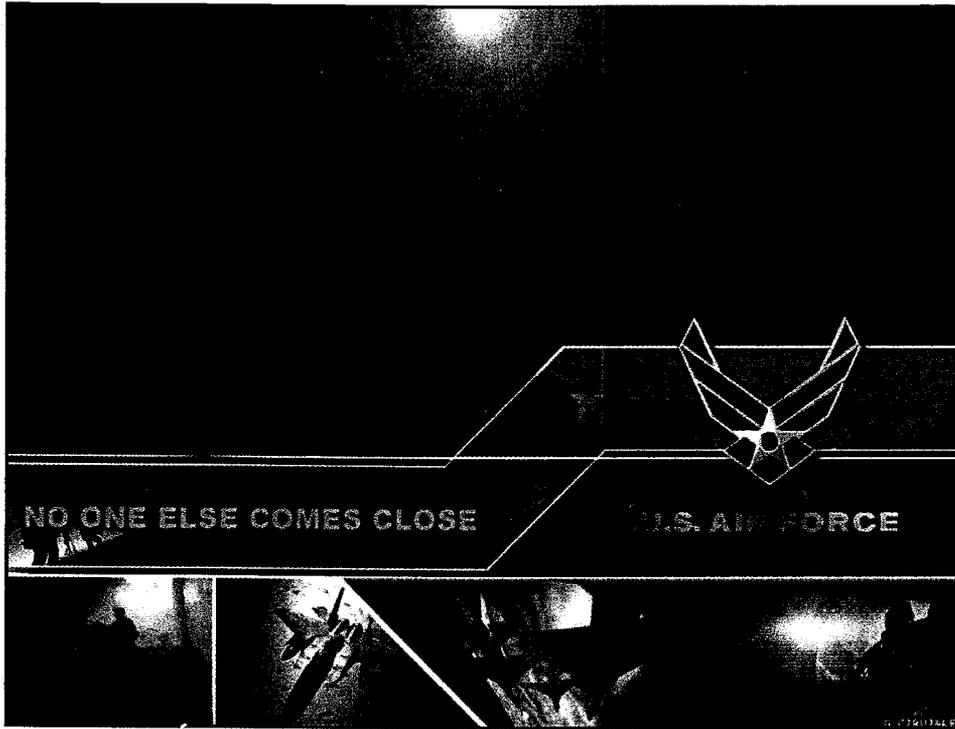
Chris Baack, RAB Co-chair
Ed von Kohn
Mike Gross
Jim Gross
Leland Clemons, Westworth Redevelopment Authority
Mayor Andy Fontenot
Steve McLaurin
Joe and Melva Campbell
Ray Landry
Carl Peters, Jr.
James Rau
Anna Marie Garza
Beth Barns
Terry Thomas

Air Force Contractors

Rick Wice, Shaw Group
Randall McDaniel, Shaw Group
Gregg McGraw, Shaw Group

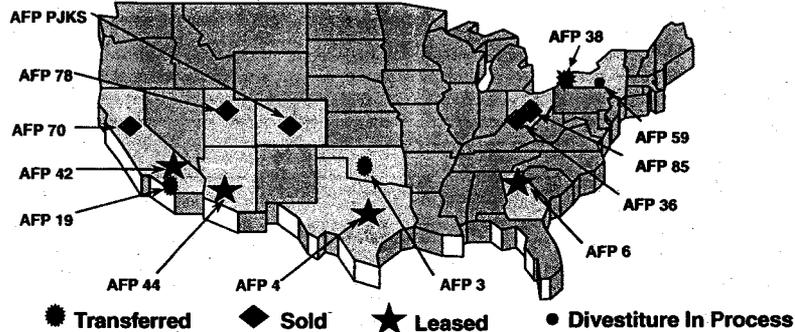
Comments/corrections regarding these meeting minutes should be sent to:

Mr. Gregory McGraw
Shaw E&I, Inc.
5050 Section Ave.
Cincinnati, OH 45212
Phone: (513) 782-4752
Fax: (513) 782-4663
e-mail: greg.mcgraw@shawgrp.com



Air Force Industrial Plants (present and former)

1989 - 13 Facilities; 2007 - 5 Facilities

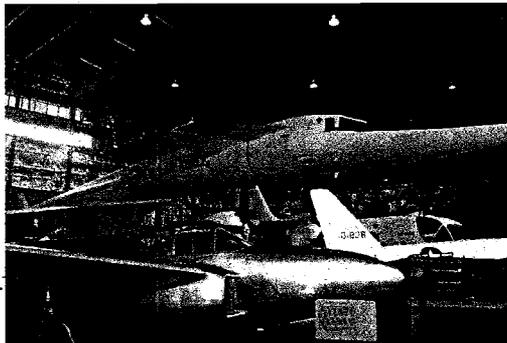


- | | | |
|---|--|---|
| <ul style="list-style-type: none"> ● Transferred ◆ Sold ★ Leased | <ul style="list-style-type: none"> ● Divestiture In Process | <ul style="list-style-type: none"> AFP 3, Tulsa OK - City of Tulsa AFP 4, Ft Worth TX - Lockheed Martin AFP 6, Marietta GA - Lockheed Martin AFP 19, San Diego CA - US Navy AFP 36, Evendale OH - General Electric AFP 38, Buffalo NY - U. S. Army AFP 42, Palmdale CA - Lockheed Martin, Boeing, Northrop-Grumman |
| | | <ul style="list-style-type: none"> AFP 44, Tucson AZ - Raytheon AFP 59, Binghamton NY - Broome County AFP 70, Sacramento CA - Aerojet AFP 78, Brigham City UT - Thiokol AFP 85, Columbus OH - Private Owner & Port Columbus AFP PJKS, Waterton CO - Lockheed Martin |



TEAM AFP 4

Aeronautical Systems Center, Wright Patterson AFB, OHIO
 23,000 employees, manages all the major Aircraft programs in the Air Force
 Acts as owner, landlord Industrial facilities
 Home of the National Museum of the United States Air Force



Regulators

Environmental Protection Agency Region VI, Dallas TX
 - Robert Sullivan 214-665-2223
 Texas Commission on Environmental Quality, Austin TX
 - Mark Weeger 512-239-2360

Contracting/Technical Support

Air Force Center for Environmental Excellence (AFCEE)-
 San Antonio, TX

Environmental Contractors

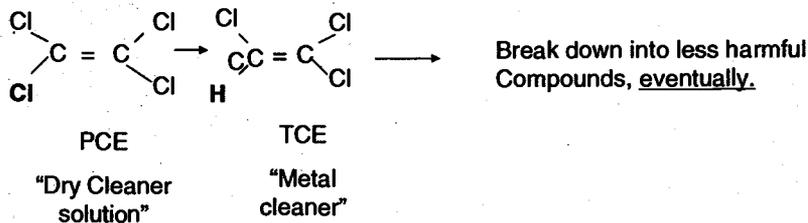
- Shaw Environmental and Infrastructure, Inc. (Operate Treatment Systems)
 - Earth Tech, Inc. (Long Term Monitoring)

Lockheed Martin

Environmental Review

Chemicals being cleaned up from groundwater

TCE – Trichloroethene - a degreaser used to clean metal parts, no longer used
 At the facility. In pure form, heavier than water, sinks!



Soil

PCBs –
 Polychlorinated
 Biphenyls

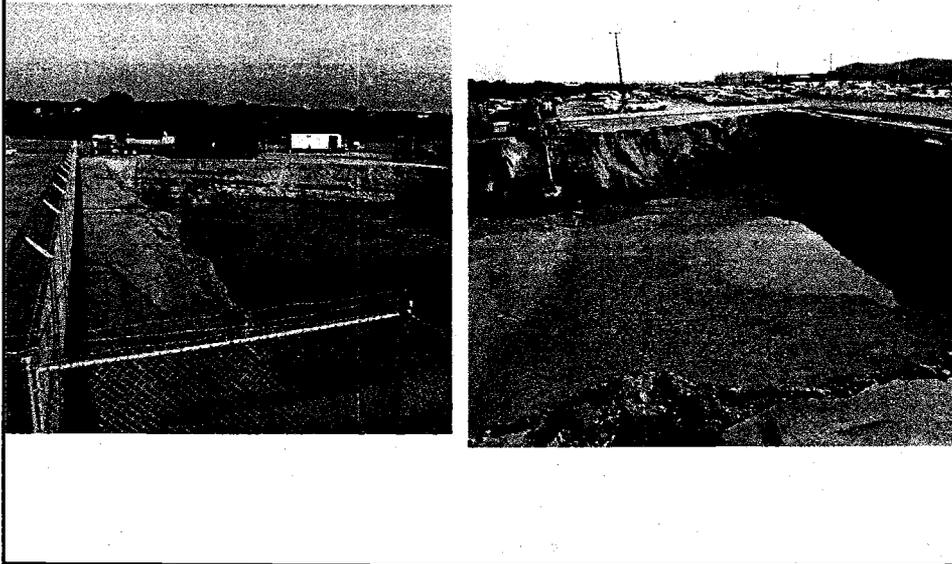


Does not like water!
 Likes to bind with soil
 And fat.

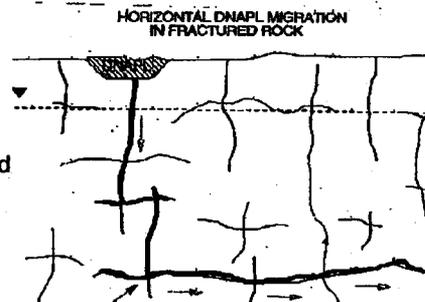
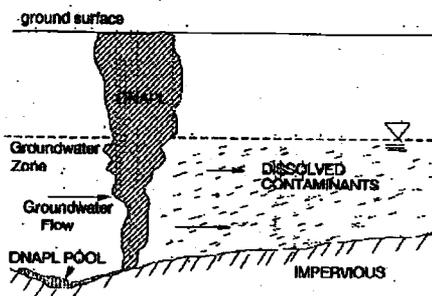
No longer used, outlawed in 1978. Found in fluids, pumps,
 Transformers, hydraulic fluids, caulking, etc.

1983 – Remove waste pit.

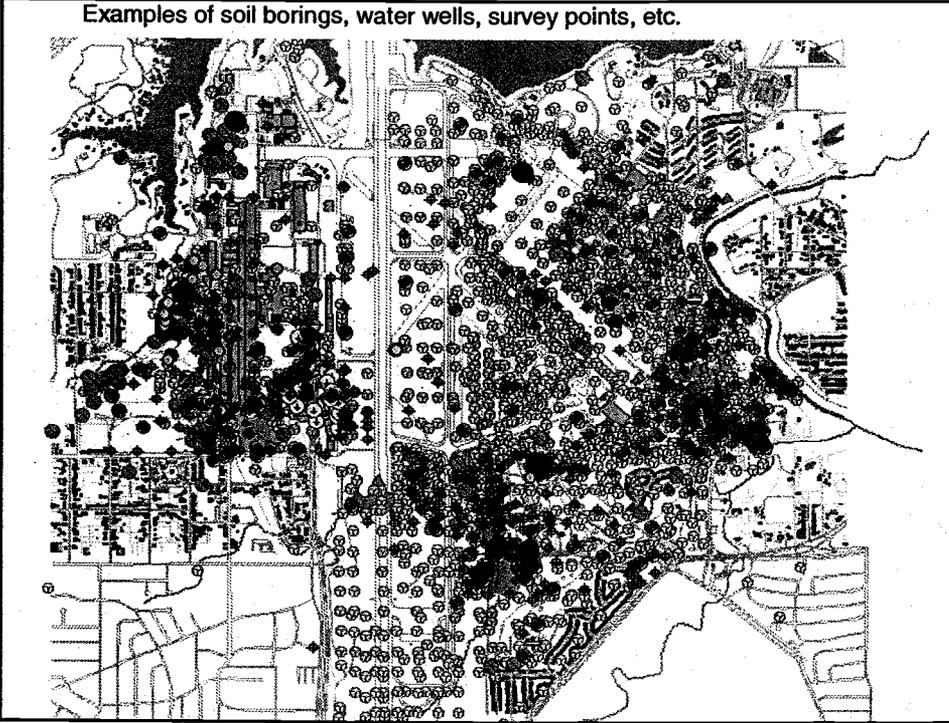
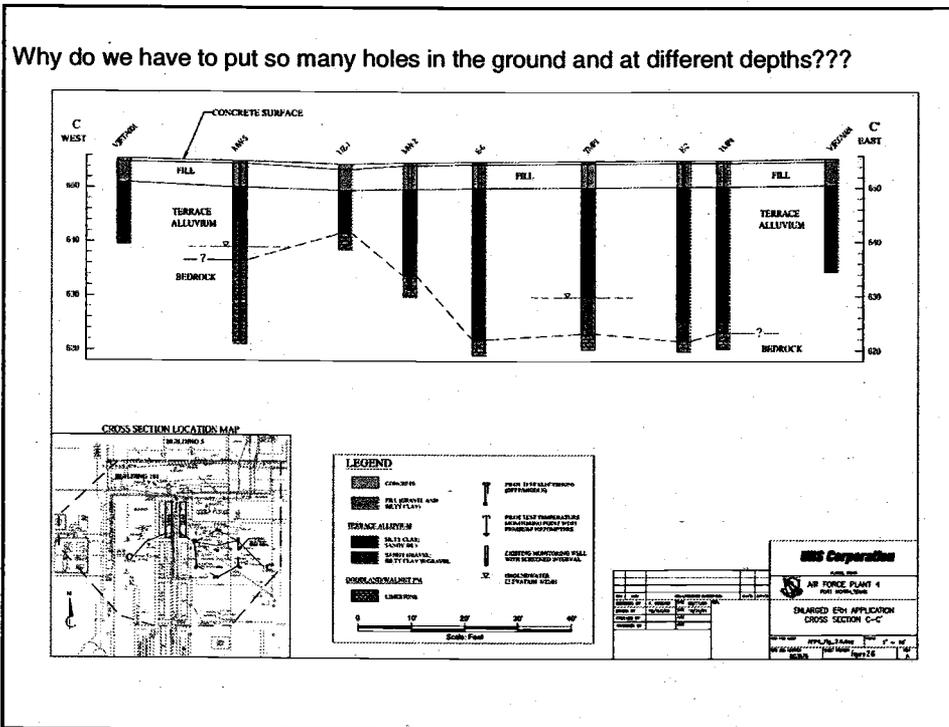
Are we done???

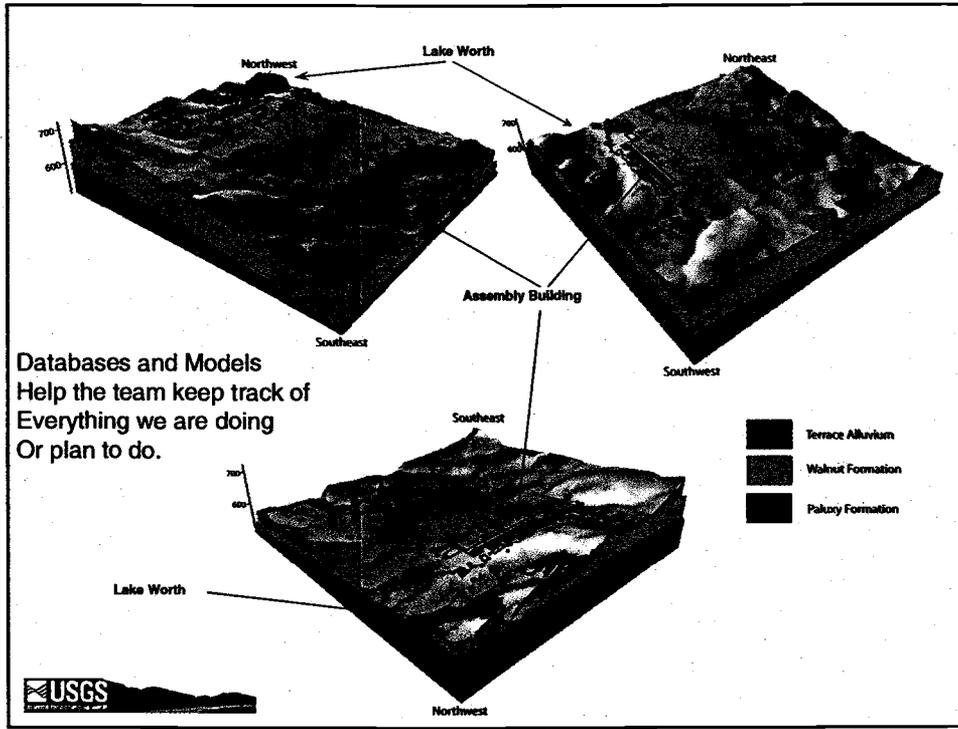


Some chemicals are heavier than water and sink, and find cracks to settle in.



- DNAPL – Dense Non Aqueous Phase Liquid
 - Solvents
- LNAPL – Light Non Aqueous Phase Liquid
 - Jet fuels, oils





Measurements in Water

1 drop = **2 part per Million (ppm) (mg/L)**

53 gal ~ 200 Liters

1000 ppb = 1 ppm

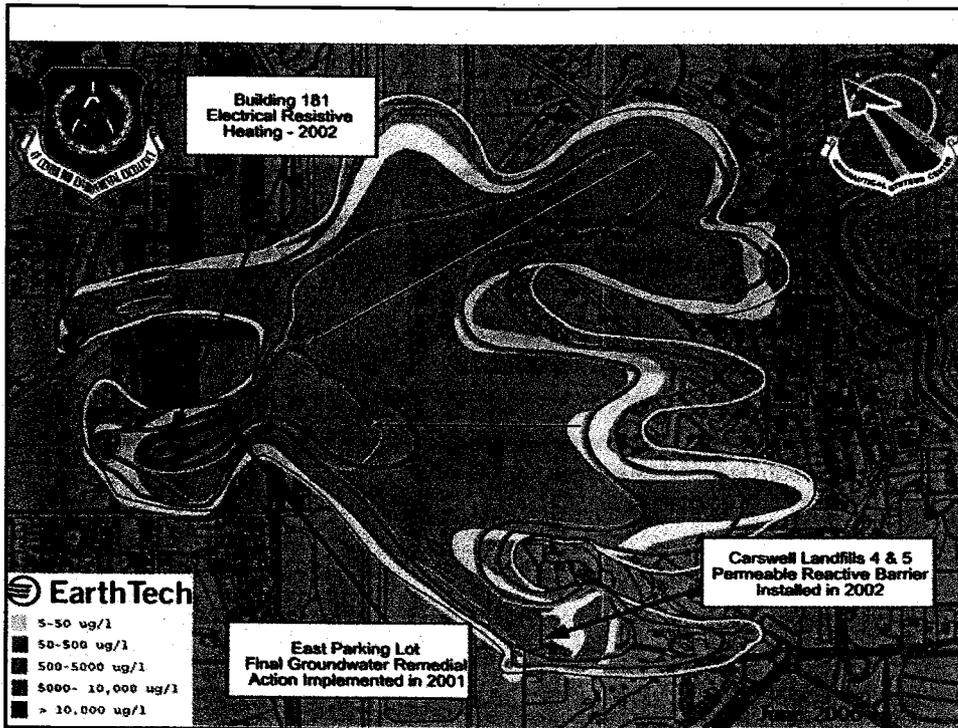
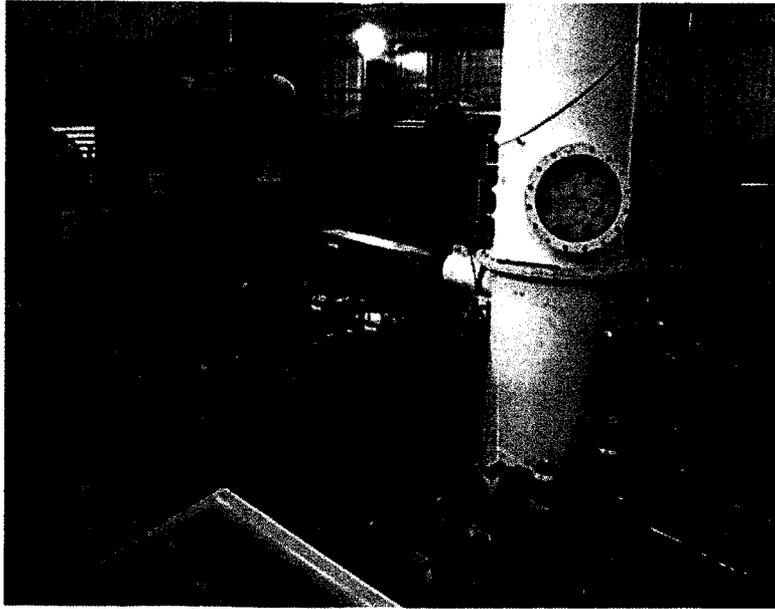
= 1 part per Billion (ppb) (ug/L)

(or, 1 minute in 1,903 years!)

130,000 gal Olympic Pool ~ 500,000 L

(Source: Alaska Dept of Environmental Conservation)

Groundwater Treatment Systems have pumped 100 Million Gallons +



The 2nd 5 Year ROD Review

- Regular “**check ups**” to make sure the cleanup continues to protect people and the environment. ROD signed 1996.
- Required **until the site** is cleaned up for unlimited use.
- Checks for changes in **laws**, inspection of the site, treatment systems, ...
- Welcome public comment.
- Last report submitted Feb 03, **approved by EPA Sept 04.**



Monitoring well repair and
Abandonment of wells no
Longer needed.

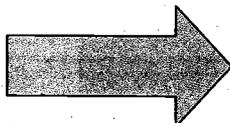
Recent Activities

Drought induced heaving of
Soil damaging wells.





Trophic Position, Food-Chain Length, and PCB Pathways in Aquatic Biota of Meandering Road Creek and Woods Inlet in Lake Worth, Fort Worth, Texas



The word **trophic** means "to feed."

J. Bruce Moring, Ph.D.

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U.S. Geological Survey
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Austin, Texas 78754
512.927.3585
jbmoring@usgs.gov

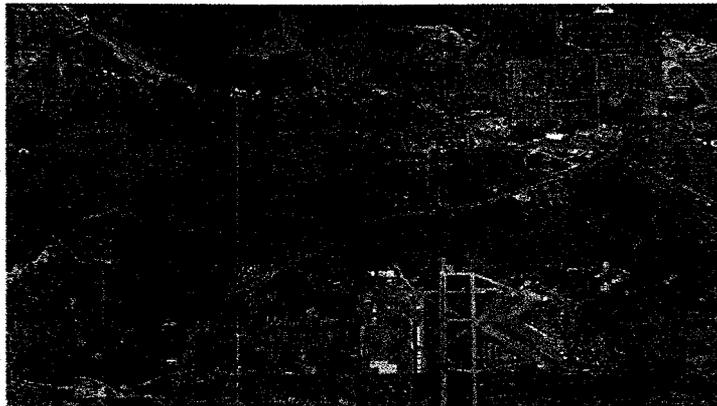


Objectives

1. Determine trophic structure and food-chain length of aquatic community in Meandering Road Creek and Woods Inlet through the analysis of **stable nitrogen isotope concentrations** of selected aquatic biota.
2. Determine bioconcentration factors between proximate trophic levels by analysis of PCB concentrations in biota from each trophic level.
3. Use **ratios of nitrogen isotope** concentrations between trophic groups to calibrate bioconcentration and biomagnifications factors of total PCBs between trophic levels.
4. Model expected total PCB concentrations in top tier trophic groups (e.g., largemouth bass) under different scenarios of total PCB concentrations in surficial sediment and/or benthic invertebrates that inhabit surficial sediment.



Collection sites in Lake Worth and Meandering Road Creek for the USGS Trophic Pathways Study



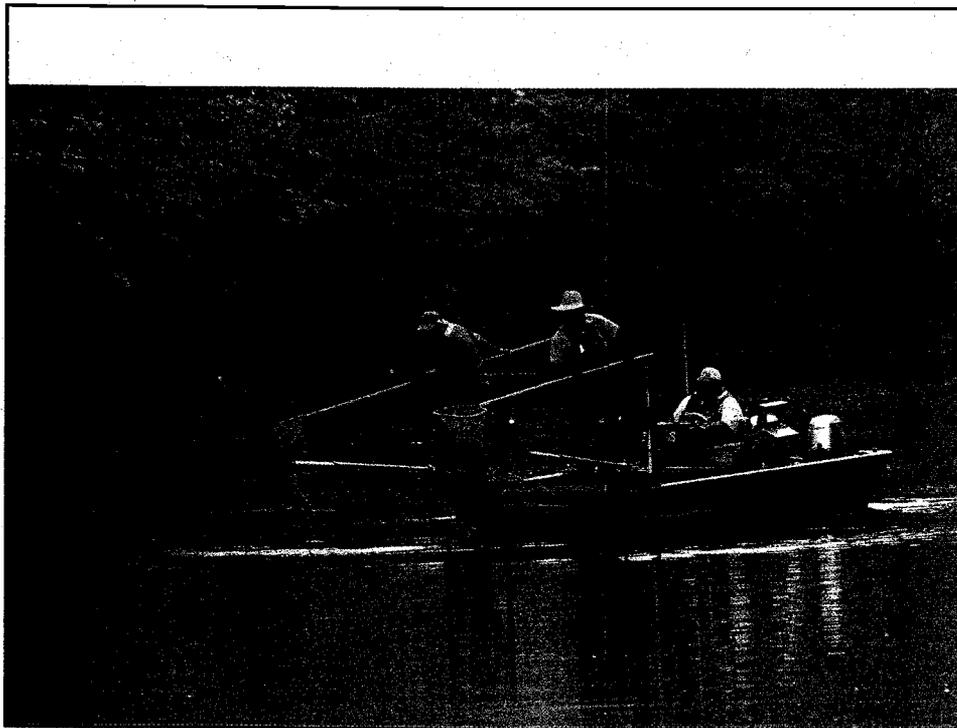
- 001MC - Meandering Road Creek below Lockheed boundary
- 002LW - Upper site in Woods Inlet
- 003LW - Lower site in Woods Inlet
- 004LW - Upper Lake site (control or reference site)



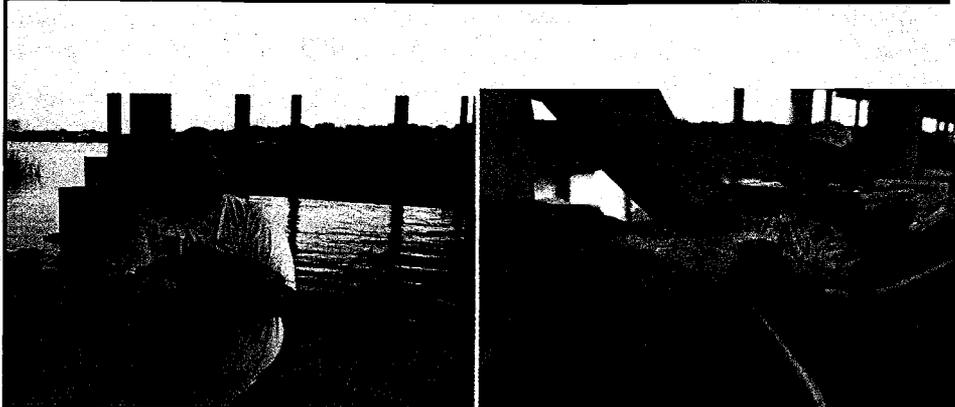
Progress and Plans

- **Completed collection** of benthic invertebrates and fish at all sites (1 week in late August and 1 week in mid September 2007)
- **Submitted** all benthic invertebrate and fish samples to the USGS's National Water Quality Laboratory in Denver, CO, in early October.
- **Submitted** all benthic invertebrate and fish samples to the USGS Isotope Research Laboratory in Menlo Park, CA, in early October.
- **Data analysis** from January – May, 2008.
- **Writing phase** for USGS report from May – August, 2008.
- **USGS Scientific Investigations Report** in late summer to early fall 2008.

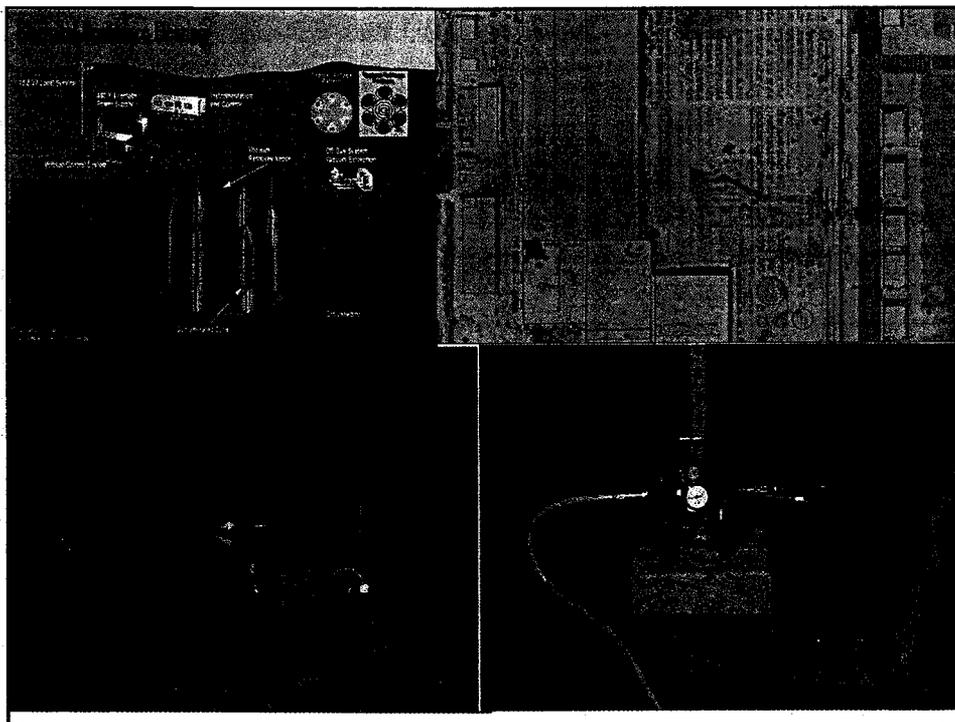
Site ID	Taxon	Trophic Group	PCBs	N and C Isotopes
001MC	Bluegill	Invertivore	+	+
001MC	Western mosquitofish	Insectivore	+	+
001MC	Mayflies	Scrapers/ Collectors	+	+
001MC	Dragonflies	Predator	+	+
002LW	Midges (bloodworms)	Scrapers/ Gatherers		
002LW	Oligochaetes (segmented worm)	Gatherer	+	+
002LW	Bluegill	Invertivore	+	+
002LW	Largemouth bass	Piscivore (fish eater)	+	+
003LW	Midges (bloodworms)	Scrapers/ Gatherers	+	+
003LW	Oligochaetes (segmented worm)	Gatherer	+	+
003LW	Bluegill	Invertivore	+	+
003LW	Largemouth bass	Piscivore (fish eater)	+	+
003LW	Midges (bloodworms)	Scrapers/ Gatherers	+	+
003LW	Bluegill	Invertivore	+	+
003LW	Largemouth bass	Piscivore (fish eater)	+	+







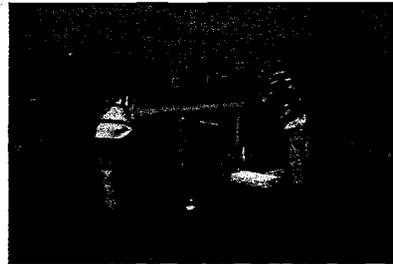
Hot Spot Removal





Future Activities

- Funded for additional Remedial Actions on areas needing more focused removal.
- Submit 2nd Five Year Record of Decision Review
- Additional study of fish and food uptake in Lake Worth (United States Geological Survey – Austin, TX) – August 2007
- May 2008 Long Term Groundwater Monitoring (just finished sampling Oct 07)
- RAB/maybe Tour, in May 2008



Headquarters U.S. Air Force

Integrity - Service - Excellence

Former Carswell AFB FINAL BRAC UPDATE



U.S. AIR FORCE

Norma J. Landez

BRAC Environmental Coordinator

October 25, 2007



U.S. AIR FORCE

Program Overview

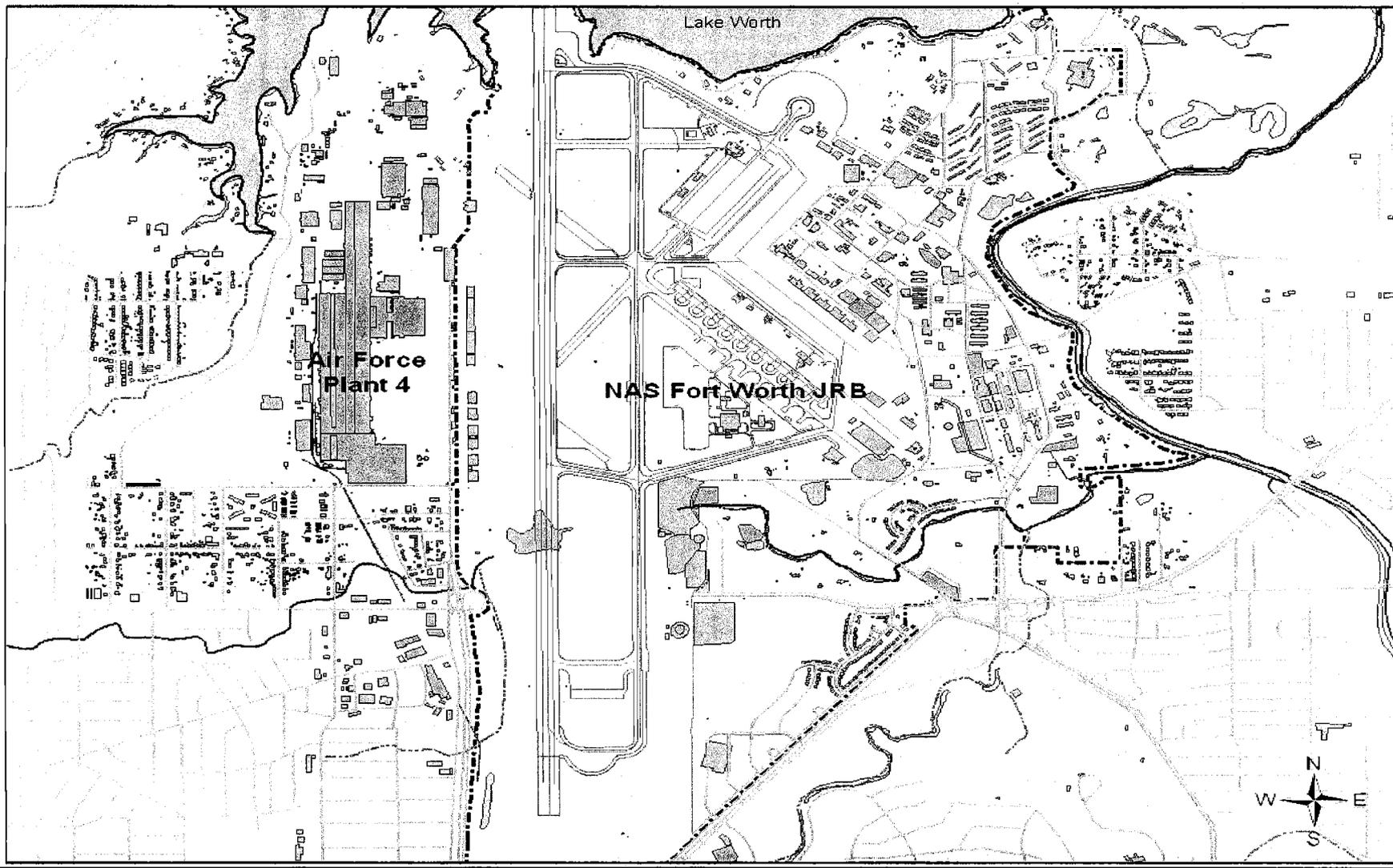
- **Base Closure Decision**
- **Site Status**
- **Property Transfer**
- **Five Year Review - 2011**

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Former Carswell AFB

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BRAC Decision

- **Base Realignment and Closure Committee made the decision to close Carswell AFB in 1991**
- **Carswell AFB closed September 30, 1993**
- **On October 1, 1994, approximately 1770 acres of the former base were realigned to the Navy and named Naval Air Station Fort Worth Joint Reserve Base, Carswell Field**

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Site Status

- **1994 Environmental Baseline Survey identified 87 sites requiring investigation.**
- **87 sites were listed on the Resource Conservation and Recovery Act (RCRA) Hazardous Waste Permit, HW-50289, for Carswell AFB.**
 - **68 sites were Environmental Restoration Account sites and 67 have been closed by the AF Center for Engineering and the Environment. AOC 1 is being remediated.**
 - **Nineteen sites were identified as BRAC sites and closed by the Air Force Real Property Agency.**

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Site Status - BRAC

- **Ten of 19 BRAC sites were closed under the Texas Commission on Environmental Quality (TCEQ) Risk Reduction Standard (RRS) 1 indicating either no release occurred or the contamination was removed to background levels.**

SITE	CLOSURE DATE
SWMU 1	3/2/95
SWMU 2	3/2/95
SWMU 3	3/2/95
SWMU 4	3/2/95
SWMU 18	3/2/95
SWMU 58	8/31/99
AOC 8	2/4/02
AOC 9	8/31/99
AOC 14	12/99
AOC 16	6/23/99

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Site Status - BRAC

- **Remaining nine sites were closed under RRS 2 indicating closure / remediation attained TCEQ health-based standards and criteria.**

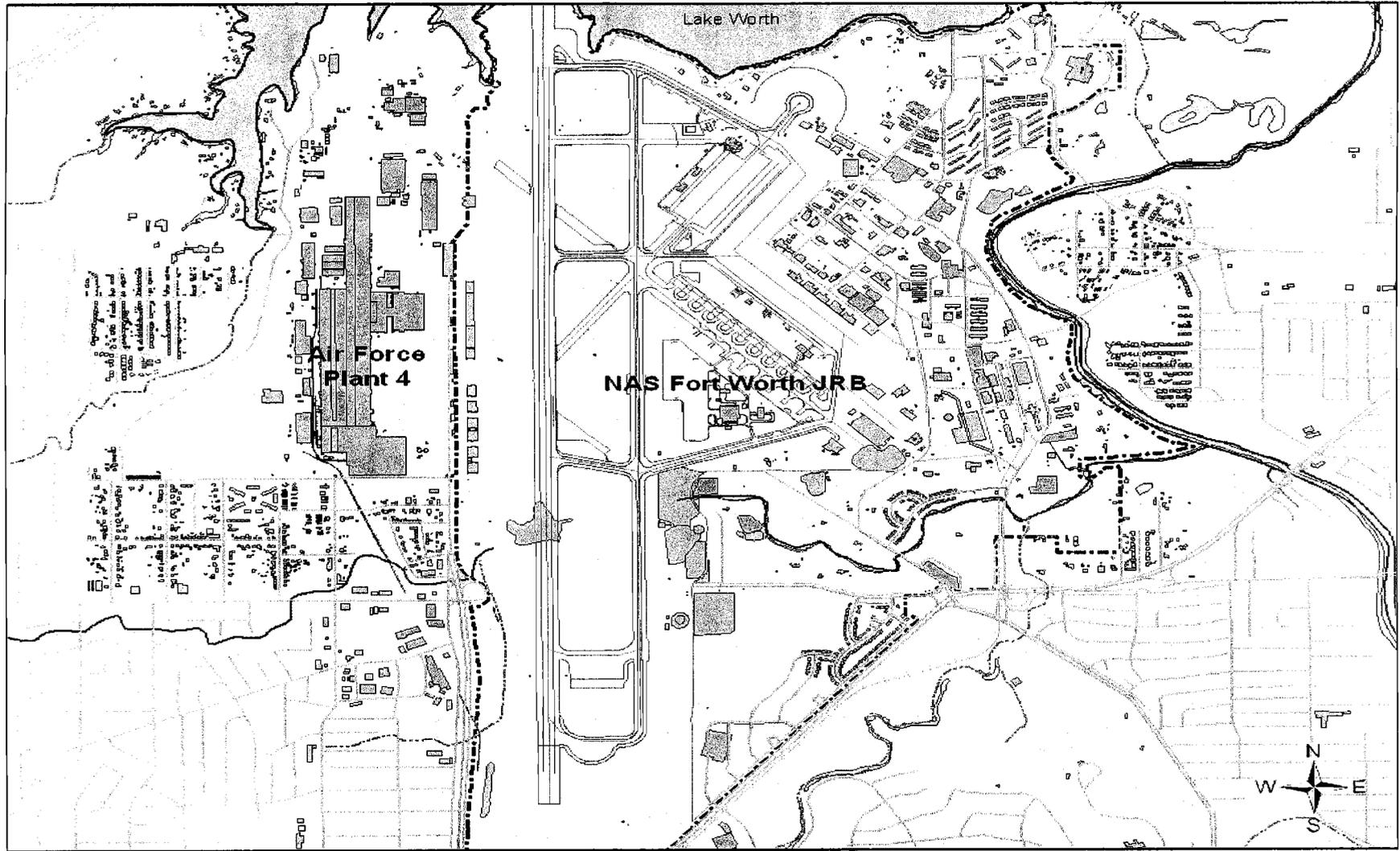
SITE	CLOSURE DATE
SWMU 22 (LF 4)	9/14/01
SWMU 23 (LF 5)	9/14/01
SWMU 24 (Waste Pile 7)	9/14/01
SWMU 25 (LF 8)	9/13/01
SWMU 59 (WSA)	9/14/01
SWMU 60 (WSA)	9/14/01
SWMU 65 (WSA)	9/14/01
SWMU 66 (Sanitary Sewer System)	1/19/07
AOC 5 (Grounds Maintenance Yard)	5/8/01

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Former Carswell AFB



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Property Transfer

- **AF retained 122 acres. Completed September 1993.**
- **20 units in Kings Branch transferred to Health and Human Services June 1995.**
- **Department of Education received 0.23 acres October 1995.**
- **Department of Justice received 103 acres, including the former Air Force Hospital, for use as a Bureau of Prisons hospital August 2000.**

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Property Transfer

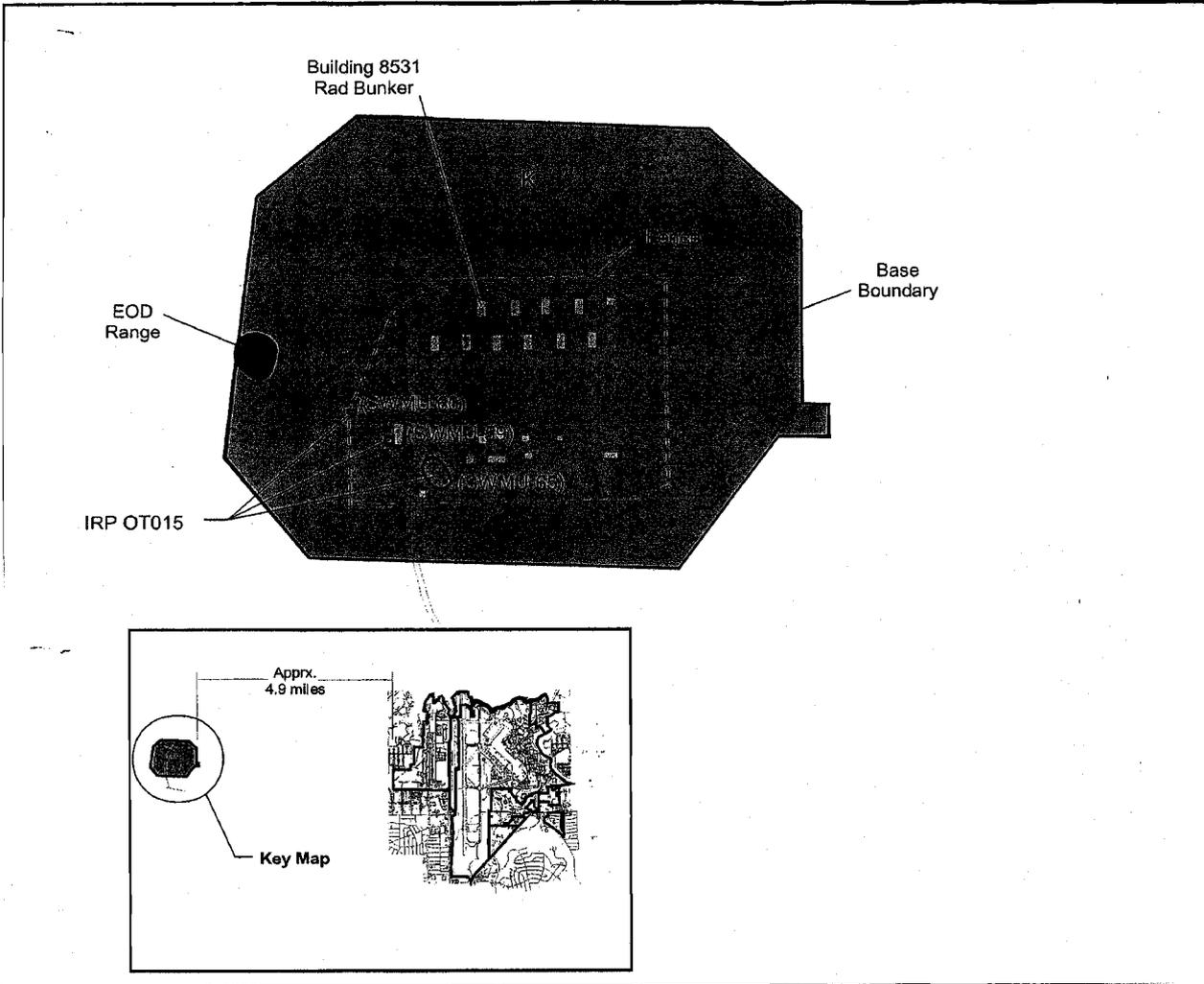
- **1770 acres realigned to Navy for Naval Air Station, Joint Reserve Base Fort Worth. Transfer completed June 4, 2007.**
- **Army received 247 acre Offsite Weapons Storage Area June 11, 2007 for use as a Joint Reserve Training Center.**

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Property Transfer Weapons Storage Area



MIS Parcel ID	Name	Apprx. Acs.	FY Deed
Carswell-02	Off-Site Weapon Storage Area (Parcel K)	247.00	FY 2006

LEGEND:

- Properties Scheduled for Deed Transfer (Fiscal Year 2006)
- SWMU

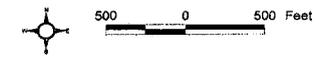


Table 1.0 Site Closure Status

Desc	Total No.	Open	Closed
IRP	1	0	0
MMRP	1	1	0
RAD	1	1	0
TOTAL	3	2	0

Air Force
Real Property Agency
Former Carswell AFB
Ft. Worth, Texas

15 Aug 2005

Map Source: KROL
 Drawn By: RPortales
 Date Revised: 15 Aug 2005
 x:/arview/projects/carswell/pmr/pmr-carswell-map02.apr

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Property Transfer

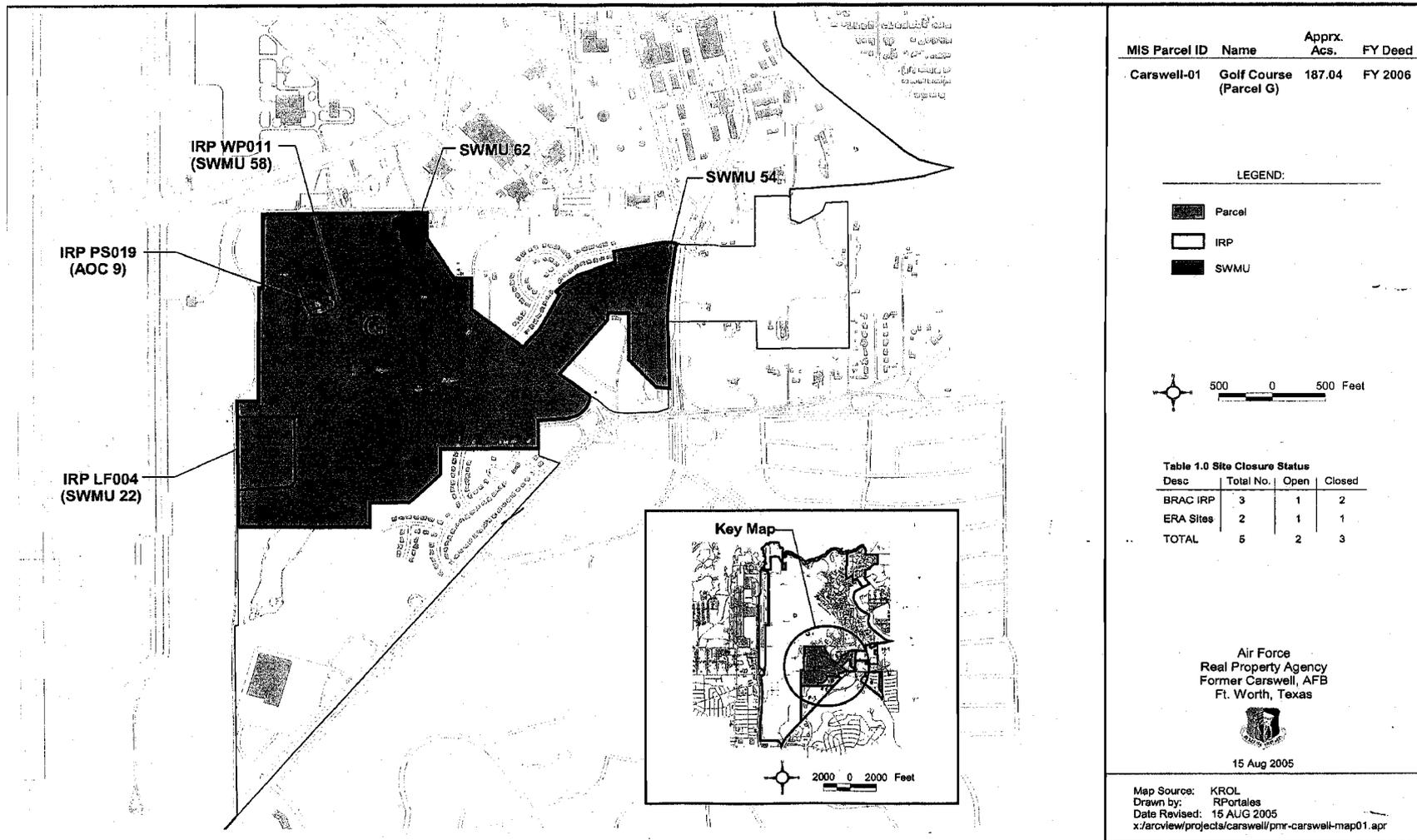
- **Westworth Redevelopment Authority purchased 347 acres through an Economic Development Conveyance**
 - **Property Transferred to WRA**
 - **McNaughton House – 2.5 acres – May 1999**
 - **Wherry Housing – 78 acres – January 2000**
 - **Kings Branch Housing – 40 acres – October 2000**
 - **Parcel H – 40 acres – September 2001**
 - **Fam Camp Parcel – 12 acres – October 2004**
 - **Portion of Parcel F – 24 acres – December 2004**
 - **Carswell Golf Course – 187 acres – April 2007**
-

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Property Transfer Golf Course Area



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Five Year Review

- **AFRPA will conduct Five Year Reviews for BRAC sites where hazardous substances were left in place above levels that allow for unlimited use and unrestricted exposure (i.e. cleanup goals met but land use controls required to protect human health and the environment)**
- **Sites to be reviewed include SWMU 22, SWMU 23, SWMU 24, SWMU 25, SWMU 59, SWMU 60, SWMU 65, AOC 5, & location MH-4 at SWMU 66**
- **Next Five Year Review will be conducted late 2010 and report submitted to EPA Region 6 no later than March 10, 2011.**

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THANK YOU

- **Ms. Chris Baack, Community Co-chair, and the Restoration Advisory Board Members**
- **Mr. Leland Clemmons, Westworth Redevelopment Authority**
- **Mr. Bob Sullivan and Mr. Noel Bennett, EPA Region 6**
- **Mr. Mark Weegar and Mr. Ray Risner, Texas Commission on Environmental Quality**
- **Mr. George Walters and Ms. Estella Holmes, AFMC and ASC**
- **AFCEE and AFRPA**
- **Our contractors – Earth Tech, HGL, Shaw**

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FINAL PAGE

ADMINISTRATIVE RECORD

FINAL PAGE