

**FINAL
RCRA FACILITY INVESTIGATION
for
Fort Hood
Site FH-012
Abandoned Sanitary Landfill 12**

**Prepared for
U.S. Army Corps of Engineers
Fort Worth District**

December 1995

**Prepared by
Black & Veatch Waste Science, Inc.
Overland Park, Kansas**

**Contract No. DACA47-93-D-0035
BVWS Project No. 40544**

CORYELL COUNTY

8.11 Site FH-012, Abandoned Sanitary Landfill 12

This section includes the RCRA facility investigation (RFI) work plan for abandoned Sanitary Landfill 12. This section is organized as follows:

- Unit Operation and History.
- Topography and Hydrology.
- Site-Specific Geology.
- Contaminant Source Information.
- Data Gaps.
- Potential Contaminant Pathways.
- Investigation Plan.
- Health and Safety Plan.
- Schedule.

8.11.1 Unit Operation and History

This landfill site is located immediately west of the Longhorn Landing Strip at north Fort Hood. The site is approximately 120 acres in size. The site has very severe topography because of the soil and rock mounds throughout the site. These mounds are well covered with thick grasses, as well as occasional areas of scrub brush and small to medium trees. The site is not completely free draining. Three sump/pond areas exist throughout the site. Other minor sump areas may exist as well because of the severe topography. Photographs 23 through 26 of the site are included on the following pages.

Reportedly, the facility was originally used during the 1940s and 1950s as a dump site for construction waste, including demolition debris and concrete rubble. There is a good probability that the facility was primarily a borrow pit after that original use. Precise dates of operation as a borrow pit are unknown (Hood 1991). Interviews with Fort Hood personnel indicate that additional concrete rubble from old foundation removals was added to the site as late as 1988.

No further historical or operational information was discovered for this site during data collection activities and a site visit conducted at Fort Hood during April 1995.

The location map showing general features and location of the disposal site is presented as Figure 8.11-1.

8.11.2 Topography and Hydrology

Local relief at Site FH-012 is approximately 20 feet, ranging in elevation from about 730 to 710 feet above mean sea level. The site slopes in towards itself so most drainage is ponded on site. Any water not trapped on site drains to the northeast towards the Leon River. A general discussion of the topography and hydrology of north Fort Hood is presented in Section 2.0.

8.11.3 Site-Specific Geology

No site-specific geologic investigations are known to have been conducted for this site. However, drillers' logs were found for nine borings drilled in the north Fort Hood area. These records provide a general description of the geology of the north cantonment area. The four materials identified in the borings are fill, clay, shale, and limestone (Klemm et al. 1976, p. 176-198). Generally, the fill material was found in the borings down to a depth of 2 feet. A clay unit ranging in thickness from 0 to 30 feet was below the fill material. The shale and limestone units were encountered at depths varying from ground surface to 55 feet below ground surface. In the soil borings, the average depth to the shale or limestone was 26 feet below ground surface. The shale and limestone beds that were encountered in the borings are part of the Walnut Formation (Bureau of Economic Geology 1979).

Underlying the Walnut Formation are the bedrock units of the Paluxy, Glen Rose, and Travis Peak formations. These three formations are referred to as the Trinity Group aquifer. Limited amounts of highly mineralized groundwater are capable of being produced from the Paluxy and Glen Rose formations. The Travis Peak Formation is the primary aquifer in the area. A detailed discussion of the geology and hydrogeology of north Fort Hood is presented in Section 2.0.

8.11.4 Contaminant Source Information

Site FH-012 is anticipated to contain primarily concrete rubble and other demolition and construction wastes. However, because of the uncontrolled nature of the site during operations, there may be municipal solid wastes (MSW) at this location. MSW typically includes wastes from residential households, commercial facilities, and light industrial facilities. The most common elements found in MSW include newsprint, paper, yard wastes, diapers, textiles, plastics, food wastes, and wood. Chemical constituents in, and characteristics of, MSW landfill leachate commonly include organic nitrogen, ammonia nitrogen, nitrates, total phosphorus,

organic phosphorus, alkalinity, corrosivity (acidic at $\text{pH} < 2$, basic at $\text{pH} > 12$), calcium, magnesium, potassium, sodium, chloride, sulfate, and total iron. Other constituents also frequently found in an uncontrolled landfill such as this include cadmium, zinc, chromium, copper, cyanide, nickel, lead, and volatile organic compounds resulting from the disposal of paint, solvents, and waste oils. Therefore, sampling for this RFI will focus on determining the concentrations of heavy metals and organics.

8.11.5 Data Gaps

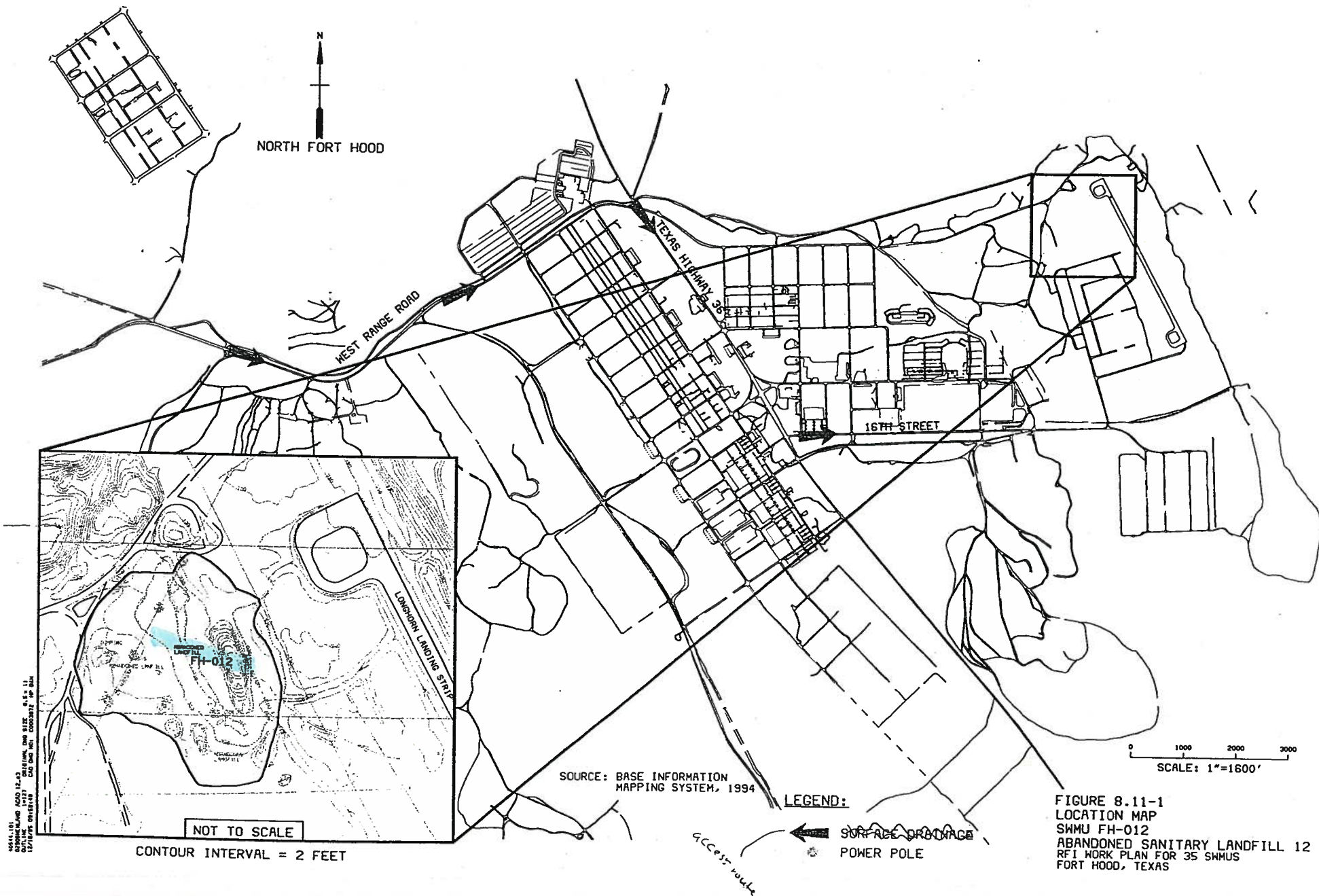
No previous investigations have been performed at this landfill site to characterize the material in the landfill or determine if there has been a release of hazardous wastes from the landfill. Basic information is needed to determine if materials disposed of in the landfill have released contaminants into the soil around the landfill. Since there have been no previous soil borings at this landfill site, information is also needed to define the geology of the site, determine whether groundwater is present below the landfill, and determine whether the groundwater, if present, is contaminated.

8.11.6 Potential Contaminant Pathways

Migration pathways are the various transport media, such as air, surface water, or groundwater, that allow a contaminant to move from a contaminant source to an area of potential exposure.

Five potential migration pathways are present at this site: subsurface soils, surface soils, surface water, groundwater, and air.

8.11.6.1 Subsurface Soil Pathway. The subsurface soil pathway is an important potential migration pathway because the landfill was constructed in native soil without an adequate liner. As a result, the subsurface soils can act as a long-term source of contaminants to other media. Contaminant release to groundwater can occur through leaching during periodic storm events that produce infiltration or percolating rainfall runoff. The highest concentrations of contaminants would be expected to be deposited in the subsurface soil immediately beneath the landfill waste. Based on the geology and hydrogeology of the north cantonment area and the surface contours of this landfill, the potential for the subsurface soil pathway is present.



CORYELL COUNTY

Closed Municipal Solid Waste Inventory

Permit #

Site Name FH-012

Site Location:

On North Fort Hood, located immediately west of the Longhorn Landing Strip.

Type Facility Borrow pit, Municipal, C+D

Site Lat. N 31*22.577'

Site Long. W 97*40.215'

Nearest City Gatesville

County 50

Population served nd

Tons/day nd

Date site opened - 1940

Date site closed - 1988

Size in acres - 120 acres

Household - yes

Const. + Demo. - yes

Industrial - yes

Tires

Agriculture

Brush - yes

Other

Hazardous - possibly!

Legal Actions - no

Maximum Depth of fill nd

Final Cover thickness - nd

comments - Site is not free draining and has severe topography.

Three Sumps/ponds exist on site. Site contains primarily construction debris and some Municipal Solid Waste. MSW includes wastes from residential households, commercial, light industrial facilities. Wastes include newsprint, paper, yard waste, diapers, textiles, plastics, food wastes and wood

Coryell County

SITE NUMBER : 17

CURRENT STATUS : Abandoned Landfill

PERIOD OF ACTIVITY :

Late 1940's, early 1950's (4)

LOCATION :

Just west of the north end of Longhorn Landing Strip at North Fort Hood. See General Site Map Sheet # 5.

AERIAL PHOTOGRAPHY REFERENCES :

June 21, 1962, Plates 16, 17, and 18 (7).
Photobase Map, Sheet 5, December 19, 1982 (3).

EXCERPTS FROM "INSTALLATION ASSESSMENT OF FORT HOOD, TEXAS" (4) :

Site # 12.

"Late 1940's, early 1950's. Reportedly a former general-purpose dump that has been covered; its contents are unknown".

GEOLOGICAL BORING LOG REFERENCES :

No on-site log data available.

COMMENTS / CONCLUSIONS :

The limits of this site were determined from ground scars on the 1982 photography and compared with the boundaries of the June, 1982 "Installation Assessment of Fort Hood, Texas" (4). This site contains approximately 11 acres.

LEON RIVER

W/L
711.9

W/L
711.6

ABANDONED
LANDFILL
SITE #17
(ACRES = 11.099)

WELL #11

ABANDONED
LANDFILL
SITE #18
(ACRES = 7.109)

W/L
715.9

W/L 729.2

ABANDONED LANDFILL
SITE #19
(ACRES = 16.042)

57127
WELL NO. 10

SHOP
HOUSE & INDUSTRIAL AREA

CORYELL COUNTY

EXHIBIT 1

Description of Property

Closed Landfill Inventory Central Texas Council of Governments

Site Identification

County	Coryell County
	Fort Hood
Permitted Site Number	P1283

Location and Boundary

COG Confidence Level	25%
Latitude	31.1570
Longitude	97.8060
Narrative Location Description	North of Turkey Run Rd and West of Clear Creek Rd
Boundary Description	See Texas Dept. of Health Letter—Feb. 1981
Basic Land Units	Tract 010500, Block 1021

Land Use

Explosive Safety Zone of an Ammunition Holding Area.

Ownership Information

Current Property Owner(s)	US Army
Current Owner(s) Address	US Army; Ft. Hood, TX 76544
Dates of Ownership	1957 to present
Land Unit	61 acres

Site History and Current Status

Previous Owner(s)	Unknown
Dates of Operation	2/9/81 – 10/9/94
Enforcement History	11/13/95 – Final Cover
Types of Waste Disposed	Vac-All waste, grease trap waste, scrap tires, Asbestos

Reference Attachments

Texas Department of Health Letter Regarding Permit Feb. 1981 with map
Texas Department of Health Letter Regarding Permit Feb. 1981
Landfill Closure Form Order Form March 1994
Landfill Closure Plan April 1994
TNRCC Inspection Report Dec. 1994
TNRCC Letter Regarding Inspection Nov. 1995
Status of Landfill Research Form Oct. 1999
TNRCC Letter Regarding Inspection Oct. 2000
TNRCC MSW Inspection Report October 2000
Request for Revocation of Permit Nov. 2000
MSW Data Entry Form Nov. 2000
Texas Water Commission Permit Modification Form
Handwritten Notes
Fort Hood Data Sheet with map



Texas Department of Health

Robert Bernstein, M.D., F.A.C.P.
Commissioner

1100 West 49th Street
Austin, Texas 78756
(512) 458-7111

A. M. Donnell, Jr., M.D., M.P.H., F.A.C.P.
Deputy Commissioner

FEB 16 1981

Colonel Robert E. Petty, IV
Director, Directorate of Facilities Engineering
U.S. Army, Fort Hood
Fort Hood, Texas 76544

Subject: Solid Waste - Coryell County
U.S. Army, Fort Hood - Permit No. 1283
50 Feet N of Turkey Run Road and 800 Feet W of
Clear Creek Road in Fort Hood
Coordinates: N 31° 09.00' W 97° 48.10'

Dear Colonel Petty:

A permit for your solid waste disposal facility at the above location is enclosed. We appreciate your cooperation in our evaluation and approval procedures.

Acceptance of this permit constitutes an acknowledgement that the permittee will comply with all of the terms, provisions, conditions, limitations, and restrictions embodied in this permit; with the "Municipal Solid Waste Management Regulations" of the Texas Department of Health; and with the pertinent laws of the State of Texas.

We are enclosing a copy of this Department's latest "Municipal Solid Waste Management Regulations" which became effective November, 1980. Special attention is invited to Section F which prescribes procedures which must be followed with respect to ground and surface water protection; the disposal of mixed and special wastes; and disposal of hazardous wastes.

Please note that your permit special provisions require the submission of a soils quality control program within 90 days after the date of the permit. Also, Subsection F-2.4a of the regulations requires the submission of a soils evaluation prior to disposal of waste in a new area or excavation. We are enclosing copies of the report forms which are to be used for that purpose.

Date: 12/20/1997

Name of County: Coryell Name of City: _____

Permit #: 1283 Are there curves? yes ☐ no ☒

Starting Coordinates (x,y): N 87° 41' W 128° 20'

Gap Calculated in MapDraw: 0.15

Acreage Calculated in MapDraw: 51.87

Have these files been saved on a network directory? yes ☐ no ☒

Name of MapDraw Map File / Text File / map / txt? I.F. 1283 # OF FILES 1

CORYELL COUNTY

U.S. Army, Fort Hood
Permit No. 1283
Page 3

LEGAL DESCRIPTION OF TRACT
OF LAND FOR USE BY
U.S. ARMY, FORT HOOD
AS A SOLID WASTE DISPOSAL SITE

STATE OF TEXAS

COUNTY OF CORYELL

Described herein is a tract of land in the State of Texas, County of Coryell. Said strip being a part of the original 157,588.023 acre Camp Hood Acquisition and more particularly a portion of the Fort Hood Military Reservation released from state authority to exclusive Federal jurisdiction in the deed cession agreement, approved by the state legislature and signed by the Governor Elect, A. Shivers, 6 September 1950.

This tract contains the original South Fort Hood Sanitary Landfill as described on Directorate of Facilities Engineering, Fort Hood, Texas Plan number DFE 5024 dated December 1978.

BEGINNING at a cedar corner post which bears N 80° 59' W, 675 feet along the center line of Turkey Run Road, then N 9° 01' E, 115 feet from the intersection of Clear Creek Road and Turkey Run Road, both roads being paved, platted and recorded on Federal Real Property Records and being within the Reservation herein before mentioned. Said post being the southeast corner of this sanitary landfill area.

THENCE N 87° 41' W, 1380.0' to a point.

THENCE N 9° 48' 56.0" W, 962.53' to a point.

THENCE N 10° 17' 04.0" W, 692.42' to a point.

THENCE N 76° 40' 10.2" E, 766.83' to a point.

THENCE S 20° 49' 04.5" E, 492.33' to a point.

THENCE S 84° 34' 56.3" E, 629.80' to a point.

THENCE S 5° 26' 05.3" E, 402.86' to a point.

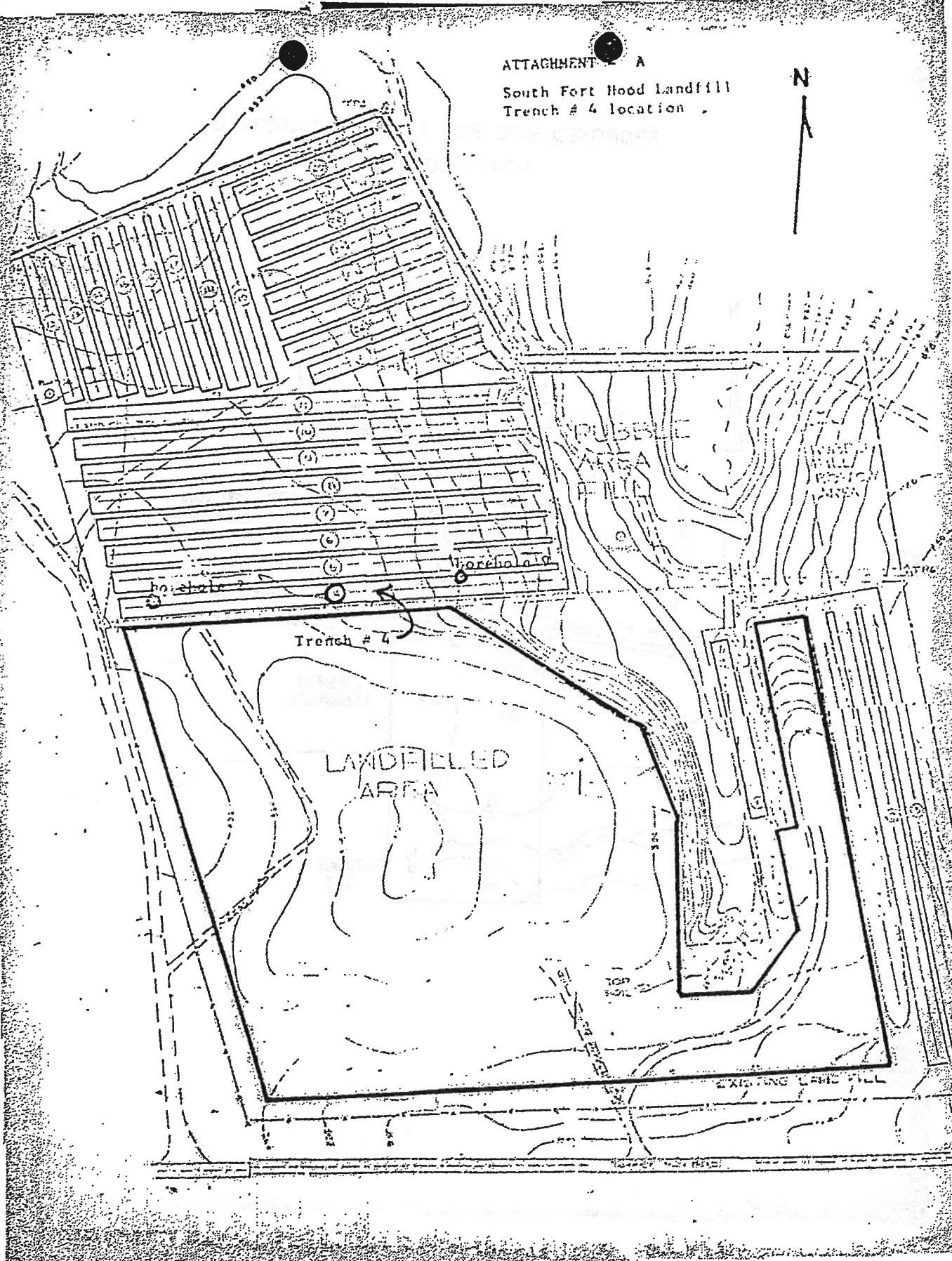
THENCE S 4° 53' E, 945.08' to the point of beginning; containing 51.86 acres more or less.

cc: Coryell County Health Officer

CORYELL COUNTY

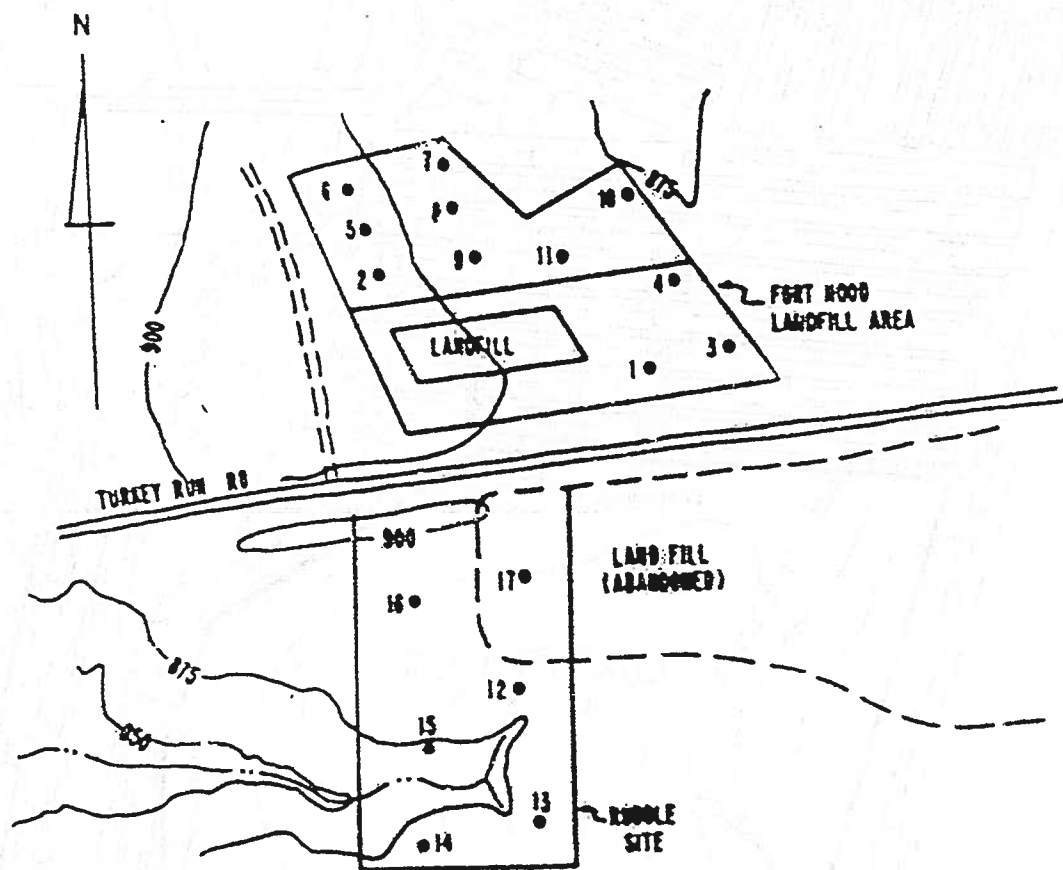
ATTACHMENT A

South Fort Hood landfill
Trench # 4 location



CORYELL COUNTY

PROPOSED SITE FOR SANITARY LANDFILL
FORT HOOD, TEXAS





Texas Department of Health

Robert Bernstein, M.D., F.A.C.P.
Commissioner

A. M. Donnell, Jr., M.D., M.P.H., F.A.C.P.
Deputy Commissioner

1100 West 49th Street
Austin, Texas 78756
(512) 458-7111

Members of the Board

- William J. Foran, Chairman
- Laurence M. Nicky, Vice-Chairman
- Roderic M. Bell, Secretary
- Johnnie M. Benson
- H. Eugene Brown
- Sister Bernard Marie Borgmeyer
- Ramiro Casas
- Charles Max Cole
- Francis A. Conley
- Ben M. Durr
- Leemond C. Garrett
- Bob D. Glaze
- Blanchard T. Hollins
- Robert D. Houston
- Jon N. Fyle
- Richard W. Rapaport
- Isadore Roenish
- Barbara T. Sliver

Permit No. 1283
Coordinates: N 31° 09.00' W 97° 48.10'

PERMIT FOR A MUNICIPAL SOLID WASTE FACILITY
issued under provisions of Article 4477-7, Vernon's
Texas Civil Statutes, and the Texas Department of Health's
"Municipal Solid Waste Management Regulations"

Permittee
U.S. Army, Fort Hood
Fort Hood, Texas 76544

Site Owner
U.S. Army, Fort Hood
Fort Hood, Texas 76544

Legal Description of Site: The legal description as submitted with the application is hereby made a part of this permit.

Size and Location of Site: The 51.86-acre site is located 50 feet north of Turkey Run Road and 800 feet west of Clear Creek Road within Fort Hood in Coryell County.

Operational Classification of Site: Type I

Waste Disposal Methods Used at Site: Trench and area method of disposal with compaction of solid waste and cover with a minimum of six (6) inches of compacted earth not less often than once on each day of operation.

Description of Waste Materials Processed at Site: Solid waste under the regulatory jurisdiction of the Texas Department of Health, when disposed of or processed in accordance with the Department's "Municipal Solid Waste Management Regulations".

Findings of Fact and Conclusions of Law: Attached hereto and made a part hereof.

Standard Provision: Acceptance of this permit constitutes an acknowledgement that the permittee will comply with all of the terms, provisions, conditions, limitations and other restrictions embodied in this permit; with the "Municipal Solid Waste Management Regulations" of the Texas Department of Health; and with the pertinent laws of the State of Texas.

Special Provisions: See Attachment - "Special Provisions for Municipal Solid Waste Permit No. 1283".

This permit will be valid until cancelled or revoked by the Commissioner of Health of the Texas Department of Health or until the site is completely filled and rendered unusable, whichever occurs first.

Given under my Hand and Seal of Office at Austin, Texas on the 9th
day of February 1981.

Robert Bernstein
Robert Bernstein, M.D., F.A.C.P.
Commissioner of Health

SPECIAL PROVISIONS FOR MUNICIPAL SOLID WASTE PERMIT NO. 1283

- A. **Property Rights:** It is the responsibility of the herein-named permittee to possess or acquire a sufficient interest in or right to the use of the property herein described for the purposes for which this permit is issued. The granting of this permit does not convey any property rights or interest in either real or personal property, nor does it authorize any injury to private property or invasion of personal rights, nor any infringement of Federal, State or local laws or regulations outside the scope of the authority under which this permit is issued.
- B. **Surface Water Protection:** Rainfall runoff within the landfill trenches or area that has become contaminated by solid waste shall not be discharged from the site unless authorized by the Texas Department of Water Resources.
- C. **Groundwater Protection:** Inasmuch as data submitted with the application indicates some natural subsolls in this site do not meet the permeability requirements of the Department's "Municipal Solid Waste Management Regulation" the permittee shall provide such man-made lining as may be necessary. Within 90 days after the date of issuance of this permit, the permittee shall submit to the Department a written soils quality control program which outlines the test procedures, frequency of professional evaluations, and methods for lining to be followed to assure continuous compliance with the aforesaid regulation. The soils quality control program shall be keyed to the site development plan for area or trench identification. In accepting this permit, the permittee agrees to follow the soils quality control program submitted unless deviation is authorized by the Department in writing.
- D. **Odor and Air Pollution Control:**
1. Any ponded water at the site must not become a source of obnoxious odors.
 2. All applicable Texas Air Control Board regulations concerning air pollution control shall be observed.
- E. **Site Development and Operation:** Site development and operation shall be in accordance with the site plans and procedures submitted with the permit application and in accordance with the Department's "Municipal Solid Waste Management Regulations." Any significant deviation from such plans and procedures must have prior approval by the Department.
- F. **Site Closing:** Site completion and closure procedures shall be in accordance with the Department's "Municipal Solid Waste Management Regulations."
- G. **Surety Bond:** Not required.

LEGAL DESCRIPTION OF TRACT
OF LAND FOR USE BY
U.S. ARMY, FORT HOOD
AS A SOLID WASTE DISPOSAL SITE

STATE OF TEXAS

COUNTY OF CORYELL

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This tract contains the original South Fort Hood Sanitary Landfill as described on Directorate of Facilities Engineering, Fort Hood, Texas Plan number DFE 5024 dated December 1978.

BEGINNING at a cedar corner post which bears N 80° 59' W, 675 feet along the center line of Turkey Run Road, then N 9° 01' E, 115 feet from the intersection of Clear Creek Road and Turkey Run Road, both roads being paved, platted and recorded on Federal Real Property Records and being within the Reservation herein before mentioned. Said post being the southeast corner of this sanitary landfill area.

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THENCE S 4° 53' E, 945.08' to the point of beginning; containing 51.86 acres more or less.

cc: Coryell County Health Officer

CORYELL COUNTY

RES. PERMIT NO. 1-1-1

FINDINGS OF FACT

(1) An application for a permit to operate an existing Type I municipal solid waste landfill, along with all necessary supporting data, was properly submitted by the applicant; due notice was given; and a public hearing was held at Fort Hood, Texas on November 25, 1980; and all parties were given an opportunity to appear, be represented by counsel, and present testimony or other evidence either for or against the granting of a permit.

(2) The physical conditions existing at the subject site, along with the recommended special provisions transmitted herewith, render the site suitable for use as a landfill.

(3) Use of the subject site as a Type I municipal solid waste landfill is compatible with the present uses being made of the surrounding land.

CONCLUSIONS OF LAW

(1) All procedural requirements relative to notice, hearing and due process of law were met.

(2) The subject site, if operated in compliance with the Solid Waste Disposal Act (Article 4477-7, V.A.C.S.), the Texas Department of Health Municipal Solid Waste Management Regulations and the Special Provisions which accompany the permit transmitted herewith, will not adversely affect the public health or create a public nuisance.

(3) Operation of a Type I municipal solid waste landfill is a proper land use of the property described in the attached permit.

Public reporting burden for this collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0187), Washington, DC 20503. Please DO NOT RETURN your form to either of these addresses. Send your completed form to the procurement official identified in Item 6.

1. CONTRACT / PURCH ORDER NO. 463-94-D-0009		2. DELIVERY ORDER NO. 0004		3. DATE OF ORDER See Block 24		4. REQUISITION / PURCH REQUEST NO. RECEIVED MAR 14 1994		5. CERTIFIED FOR NATIONAL DEFENSE UNDER DMS REG 1 DO	
ISSU CODE U.S. Army Engineer District, Fort Worth P.O. Box 17300 Fort Worth, TX 76102-0300				7. ADMINISTERED BY (If other than 6) See Block 6				8. DELIVERY FOB <input checked="" type="checkbox"/> DEST <input type="checkbox"/> OTHER (See Schedule if other)	
CONTRACTOR CODE H. Platt Thompson Engineering Co, Inc. 5249 Langfield Road Houston, TX 77040-6618				FACTORY CODE		10. DELIVER TO FOB POINT BY (Date) See Statement of Work		11. MARK IF BUSINESS IS <input checked="" type="checkbox"/> SMALL <input type="checkbox"/> SMALL DISADVANTAGED <input type="checkbox"/> WOMEN-OWNED	
NAME AND ADDRESS				12. DISCOUNT TERMS		13. MAIL INVOICES TO See Block 6, ATTN: CESWF-ED-M			
SHIP TO CODE See Detailed Statement of Work				15. PAYMENT WILL BE MADE BY Disbursing Officer U.S. Army Engineer District, Fort Worth P.O. Box 17300 Fort Worth, TX 76102-0300				MARK ALL PACKAGES AND PAPERS WITH CONTRACT OR ORDER NUMBER	
6. DELIVERY <input checked="" type="checkbox"/> This delivery order is issued on another Government agency or in accordance with and subject to terms and conditions of above numbered contract.									
7. PURCHASE <input type="checkbox"/> Reference your <input type="checkbox"/> furnish the following on terms specified herein.									
ACCEPTANCE. THE CONTRACTOR HEREBY ACCEPTS THE OFFER REPRESENTED BY THE NUMBERED PURCHASE ORDER AS IT MAY PREVIOUSLY HAVE BEEN OR IS NOW MODIFIED, SUBJECT TO ALL OF THE TERMS AND CONDITIONS SET FORTH, AND AGREES TO PERFORM THE SAME.									

NAME OF CONTRACTOR SIGNATURE TYPED NAME AND TITLE DATE SIGNED

If this box is marked, supplier must sign Acceptance and return the following number of copies:

ACCOUNTING AND APPROPRIATION DATA / LOCAL USE

2142020 08 8073 P1170566 25CZ 284 S41443 (QK) RP48654350A009A

ITEM NO.	19. SCHEDULE OF SUPPLIES / SERVICE	20. QUANTITY ORDERED / ACCEPTED	21. UNIT	22. UNIT PRICE	23. AMOUNT
1.	AD002093P, Landfill Closure Plan, Fort Hood, TX "Reviewed for legal sufficiency (AFARS 1-690)" WMB	1	JOB		

FUNDS ARE AVAILABLE

MAR - 7 1994

For R. T. Geiger, F&A Officer

* If quantity accepted by the Government is same as quantity ordered, indicate by X. If different, enter actual quantity accepted below quantity ordered and enclose.		24. UNITED STATES OF AMERICA BY: JOHN H. RODGERS 3/7/94 CONTRACTING ORDERING OFFICER		25. TOTAL	
QUANTITY IN COLUMN 20 HAS BEEN <input type="checkbox"/> INSPECTED <input type="checkbox"/> RECEIVED <input type="checkbox"/> ACCEPTED, AND CONFORMS TO THE CONTRACT EXCEPT AS NOTED		27. SHIP. NO. <input type="checkbox"/> PARTIAL <input type="checkbox"/> FINAL		29. DIFFERENCES	
DATE SIGNATURE OF AUTHORIZED GOVERNMENT REPRESENTATIVE		31. PAYMENT <input type="checkbox"/> COMPLETE <input type="checkbox"/> PARTIAL <input type="checkbox"/> FINAL		30. INITIALS	
I certify this account is correct and proper for payment.		32. PAID BY		33. AMOUNT VERIFIED CORRECT FOR	
E SIGNATURE AND TITLE OF CERTIFYING OFFICER		34. CHECK NUMBER		35. BILL OF LADING NO.	
RECEIVED AT 38. RECEIVED BY		39. DATE RECEIVED		40. SR ACCOUNT NUMBER	
		41. TOTAL CONTAINERS		42. SR VOUCHER NO.	



THOMPSON ENGINEERING

H. Platt Thompson Engineering Company, Inc.
Consulting Engineers • Surveyors • Environmental Scientists

April 8, 1994


Commander, Fort Worth District Corps of Engineers
ATTN: CESWF-ED-MC (Ms. Beverly Brannan)
819 Taylor Street
P.O. Box 17300
Fort Worth, TX 76102-0300

Re: Contract No. DACA63-94-D-0009
Project No. AD002093P
Landfill Closure Plan
Fort Hood, Texas

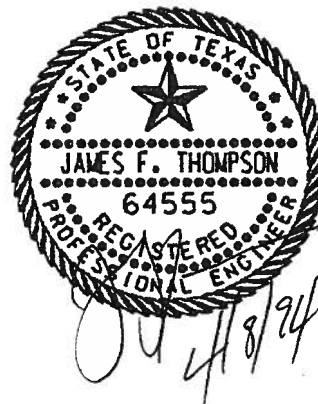
Dear Ms. Brannan:

Enclosed is the Landfill Closure Plan pertaining to landfill permit number 1283 located at Fort Hood in Coryell County, Texas. Should you have any questions or require further information, do not hesitate to contact me.

Very truly yours,


JAMES F. THOMPSON, P.E.
President

JFT:bjs
pc: 867.01.02
JFT File



**Revised Final Closure Plan
Solid Waste Landfill Permit No. 1283
Fort Hood
Coryell County, Texas**

Prepared for:

**UNITED STATES ARMY CORPS OF ENGINEERS
FORT WORTH DISTRICT
Fort Worth, Texas**

Prepared By:

**H. Platt Thompson Engineering Company, Inc.
5249 Langfield Road
Houston, Texas**

April 8, 1994

CORYELL COUNTY

EXECUTIVE SUMMARY

This landfill located at Fort Hood in Coryell County, Texas was assigned permit number 1283 by the Texas Department of Health on February 9, 1981. The landfill site as located on the U.S. Geological Survey Map is submitted in Tab A of this section as the Vicinity Map.

During the various stages of development this landfill served as a trench operation, and was subsequently changed to an area fill operation. The landfill permit received various amendments through the years of operation. The following is a list of permit amendments that were requested by the Landfill Operations Management at Fort Hood and the dates the Texas Department of Health approved the amendments.

<u>Date of Approval</u>	<u>Description of Amendment</u>
May 8, 1984	Waste from "Vac-All" Approved
July 19, 1985	Disposal of Asbestos Approved
July 23, 1985	Disposal of Grease Trap Waste Approved
May 11, 1988	Operation of Trench Burner Permitted
November 1, 1990	Handling of Scrap Tires Permitted
February 5, 1991	Revision to Site Operating Plan

The Final Landfill Closure Plan was approved by the Texas Department of Health on February 5, 1991. The landfill stopped receiving Type I solid waste on June 1, 1991, when the new Fort Hood Landfill, permit number 1866, was opened. Closure operations began at that time and continued until on, or about March 15, 1994. The closure operations, as outlined in the Revision to Site Operating Plan approved by the Texas Department of Health, consisted of applying construction debris on top of the completed sections of the landfill to enhance the drainage characteristics, while also providing further compaction of the existing clay cap as well as contributing additional cover.

This permit modification calls for the landfill to be closed to all solid waste activities and presents a Revised Closure Plan with Revised Final Closure Contours as well as a Post-Closure Care Program. All construction activities associated with this closure shall be concluded prior to October 9, 1994.

CORYELL COUNTY

REVISED CLOSURE PLAN

This closure plan was developed for the landfill located at Fort Hood in Coryell County, Texas operating under permit number 1283. All operations required by this closure plan shall be concluded prior to October 9, 1994. A recent survey of the landfill indicates that solid waste deposited in the landfill has a significant amount of compacted cover already in place, and that the landfill was constructed with a clay liner. This establishes that the infiltration layer shall consist of a minimum of 18 inches of compacted clay soil followed by the placement of an additional 6-inch thick erosion control layer, or topsoil.

The infiltration layer shall be constructed of type NuC clay soil to be placed in 6-inch lifts and compacted over the Type IV construction debris and any other existing compacted cover that has been previously placed above the solid waste deposits. Type NuC clay soil was also used for the bottom liner of the landfill and is native to the region. In-situ permeability tests were conducted on type NuC soil for the Type I landfill, permit number 1866, located at Fort Hood on Turkey Run Road, west of this landfill site. The permeability of the NuC soil was determined from these tests to be less than 1×10^{-5} cm/sec.

Once the 18-inch thick infiltration layer has been satisfactorily placed and compacted to the specifications, the erosion control layer will be established. The erosion control layer will consist of 6 inches of earthen material that is capable of sustaining native plant growth and will be sodded or seeded immediately following the establishment of the final closure contours as proposed on the Final Contour Map, (See Section V). The design of the final contours yields top slopes of 3% and side slopes of between 11% and 25% which will effectively remove any water with minimal infiltration and erosion effects, thus eliminating ponding of water on the final cover.

The final contours of the landfill site were designed to restore the drainage areas to approximately the same as before construction of the landfill. The final design also calls for the same native soil to be placed as an erosion control layer with native grasses to be grown. These measures should minimize any impacts on the drainage basins and subbasins with regards to increased rain water runoff.

Quality control will be checked at each stage of the closing process as required. The 18 inches of compacted material will have a quality control test to verify permeability at a frequency of no less than one test per surface acre of final cover to ensure a permeability of not less than 1×10^{-5} cm/sec. Those areas that fail the permeability test shall be corrected and retested prior to the establishment of the erosion control layer. The erosion control layer shall be fertilized, seeded or sodded immediately following the establishment of final contours. The grass seed should germinate within at least 21 days from planting. If, after that 21-day period a successful germination of a potential stand of grass is not present, the area shall be reseeded prior to the end of the planting season.

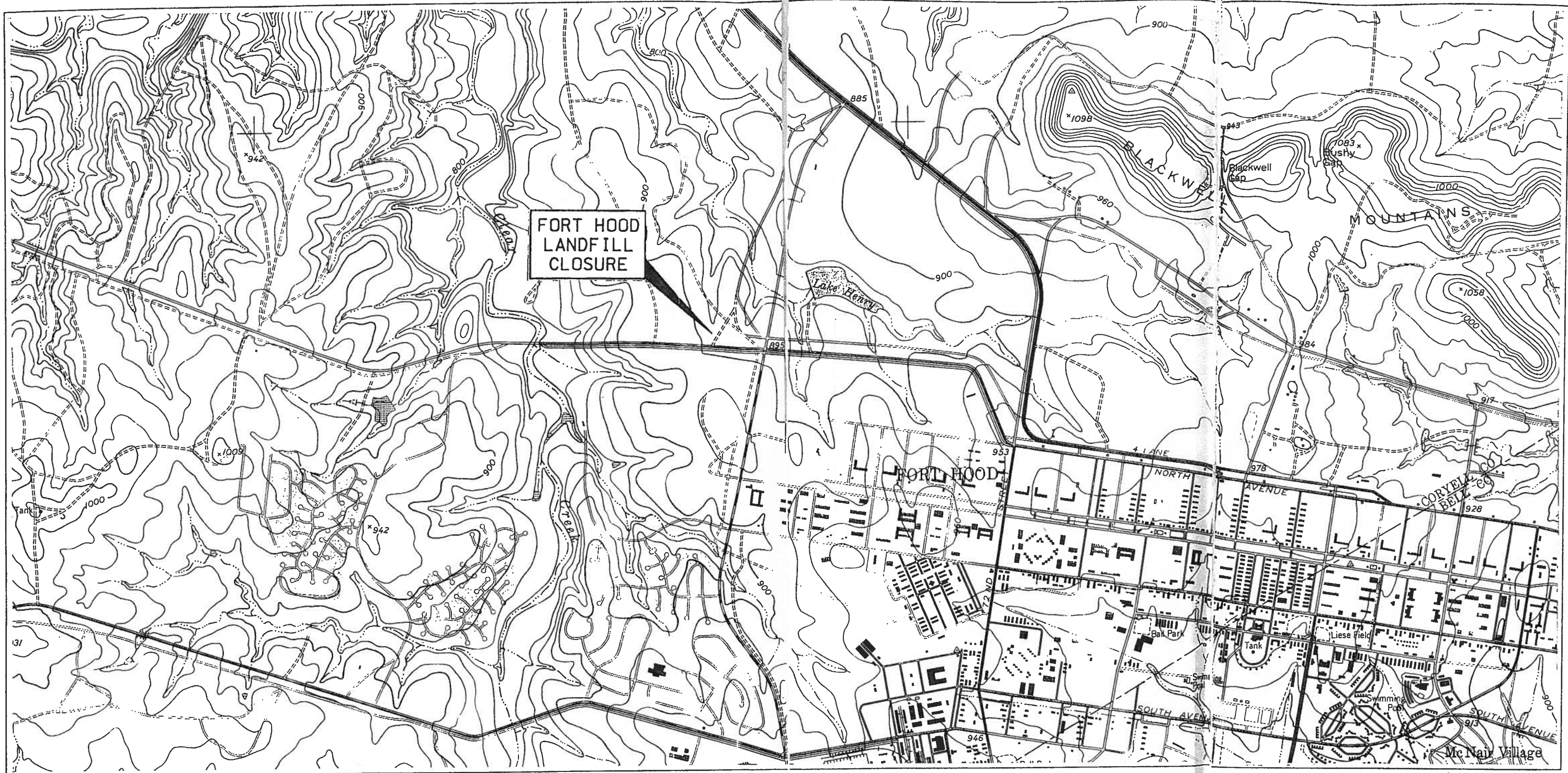
CORYELL COUNTY

POST-CLOSURE CARE PLAN

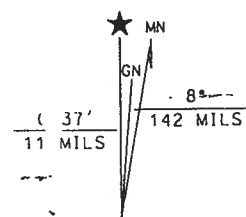
Following final closure activities, as approved by the Executive Director of the Texas Natural Resource Conservation Commission (TNRCC), the scheduled maintenance program outlined below will begin. The landfill will remain in post-closure care for 30 years after closure, unless a request for a shorter post-closure care period is submitted and approved by the Executive Director of the TNRCC. The request shall include a documented certification, signed by an independent registered professional engineer, and shall include all applicable documentation necessary to support the certification that the site is no longer a threat to human health and the environment.

Ownership and post closure care of the site shall remain with the U.S. Government after final closure as approved by the Executive Director of the TNRCC. Post-closure care shall include quarterly inspections and repairs as necessary. These quarterly inspections and repairs will include, at a minimum, maintenance to provide vigorous vegetation growth, inspection and refurbishment of surface soils damaged through erosion, shrinkage, subsidence or animal burrowing to protect the integrity of the final cover and to insure adequate removal of surface water ponding. Further maintenance to the vegetation will include mowing as required and seasonal fertilizing. In addition, the fence enclosing the landfill site will be repaired as necessary to limit entry to the site.

To assure public safety, the integrity of boundary fencing and access points will be maintained and monitored by security forces and maintenance crews. No habitable structures or public use areas (with the exception of the roadways) will exist within 4,000 feet of the site. No development, human habitation, or recreational activities will occur on this site.



Mapped, edited, and published by the Geological Survey
Control by USGS and NOS/NOAA



UTM GRID AND 1978 MAGNETIC NORTH

SCALE: " = 2000'

CONTOUR INTERVAL 20 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

FORT HOOD, TEX. QUADRANGLE - 1957
PHOTOREVISED, 1978



THOMPSON ENGINEERING

H. Platt Thompson Engineering Company, Inc.
Consulting Engineers - Surveyors - Environmental Scientists
5249 Longfield Rd. - Houston, Texas 77040 - (713) 462-6250

FORT HOOD, TEXAS

VICINITY MAP

DATE: 4/7/94	DWG. NO. 867-01.03	SHT. NO.	REV.
--------------	--------------------	----------	------

CORYELL COUNTY



Texas Natural Resource Conservation Commission
Municipal Solid Waste Division
Inspection Report: Landfill

Comments Page for: MSW-1283

Also, Ft. Hood's reply to the TNRCC's 1-25-94 NOV letter also stated that demolition debris was still being disposed of at this site. Since demolition debris is a solid waste, the site was then still accepting waste over 2 years after 10-9-91. Mr. Jerry Garnet, with the TNRCC's MSWD central office, was notified of this error by telephone on 5-20-94. He said that he would correct that error. To date, the regional office has not received any copy or confirmation of a correction to that letter. Therefore, it is recommended that this matter be corrected from the MSWD central office.

RCC Representative: Ron W. Byrd, P.E., R.S. Date: Dec. 21, 1994

Approved By: Jane Edwards Date: 12-21-94

RECEIVED
DEC 30 94
TNRCC
MUNICIPAL RECORDS

Barry R. McBee, *Chairman*
R. B. "Ralph" Marquez, *Commissioner*
John M. Baker, *Commissioner*
Dan Pearson, *Executive Director*



TEXAS NATURAL RESOURCE CONSERVATION COMMISSION

Protecting Texas by Reducing and Preventing Pollution

November 13, 1995

Colonel Albert G. Bungard
U.S. Army - Fort Hood
Directorate of Facilities Eng.
AFZF-DE
Fort Hood, TX 76544

Subject: Municipal Solid Waste - Coryell County
U.S. Army/Fort Hood - Permit No. MSW-1283
0.01 Mile N of Turkey Run Road and

Dear Colonel Bungard :

On July 25, 1995, Mr. J. Hoyt Childres, from our regional office, inspected the subject municipal solid waste facility for verification of closure. During this inspection, our representative was accompanied by Mr. Bill Bodkin.

During this inspection, it was noted that this site has met all the closure requirements of 30 Texas Administrative Code (TAC) §330.252. Therefore, the site shall be considered closed as of the date of this letter and the file will be marked inactive pending completion of the post-closure maintenance period. Post-closure maintenance inspections will be conducted until the post-closure maintenance period has been completed in 2000. All monitoring systems must be maintained throughout the post-closure maintenance period.

Your cooperation in this matter is greatly appreciated.

If you have any questions concerning this letter or if we may be of any assistance to you regarding municipal solid waste, you may contact me at MC-124, P.O. Box 13087, Austin, Texas 78711; telephone number (512) 239-6671.

Sincerely,

A handwritten signature in cursive script, reading "Michael D. Graeber".

Michael D. Graeber, P.E.
Permits Section
Municipal Solid Waste Division

MDG/ff

cc: TNRCC Region 9
Fort Hood, Env. Prog. Office
Fort Hood, Supervisory Civil Eng.

Status of Landfill Research Form

✓23

Permit No. 1283 Issue Date 2/9/81 County Coryell Permitted Acres 51.86

Technical Pkg Submitted for Permit? Yes File Loc. No

Date Closed to Waste Recpt. 2/1993 File Loc. MSW PA# 1283 ^{1902-3/6/89}

Date of Final Cover Inspection 11/13/1995 File Loc. MSW PA# 1283

*Date Affidavit(s) Approved None Acreage Closed 1992-3/6/89
(If none, please indicate so)

File Loc.

Closure Plan Exists? Yes ✓ File Loc. Mudiche No

Date Closure Plan Approved File Loc.

Date(s) Post Closure Started 11/13/1995 File Loc. MSW PA# 1283
1992-3/6/89

Date(s) Post Closure Ends 11/13/2000 File Loc. MSW PA# 1283
1992-3/6/89

Length of Post Closure Period: 5 yrs. ✓ 30 yrs. Other (no. of yrs.)

*File Closed Date None [Pending] File Loc.
(If none, please indicate so)

*Date of "Inactive Status" Acknowledgment Letter 11/13/95 File Loc. MSW PA# 1283
(If none, please indicate so) 1992-3/6/89

Name of Researcher Lana Sarey

Date Research Conducted 10/23/99

* copy needed

See attached copies.
12/8 Needs to come still in S yr
P.C.

CORYELL COUNTY

DM

October 23, 2000

Mr. William C. Bodkin
Chief of Environmental Division
US Army/Fort Hood
HQ III Corps & Fort Hood
Attn: AFZF-PW-ENV
Bldg 4219, 77th & Warehouse Avenue
Fort Hood, Tx 76544-5057

RE: Municipal Solid Waste - Coryell County
US Army/Fort Hood Closed Landfill - Permit # MSW - 1283
Post-Closure Inspection Conducted September 25, 2000
Compliance Evaluation Investigation
TNRCC Air I.D. No.BF-0129-I

Dear Mr. Bodkin:

On September 25, 2000, Ms. Diane Massey and Mr. Russ Alexander of the Texas Natural Resource Conservation Commission (TNRCC) conducted an inspection of the above-referenced Facility to evaluate compliance with applicable Waste and Air requirements. During the inspection, no post-closure maintenance or air quality problems were noted. The "Request for Voluntary Revocation of Permit" form, you have completed will be sent to the Municipal Solid Waste Permits Section (MSWPS) in Austin. Once accepted, it will be recommended to the Executive Director of the TNRCC that the post-closure care period be finalized and the permit for this landfill be considered for expiration and cancellation status. The final status of the landfill will be confirmed by a letter from this group.

If you have any questions concerning this letter, please feel free to contact Ms. Massey or Mr. Alexander at (254) 751-0335. Your cooperation in maintaining this closed site has been greatly appreciated.

Sincerely,

Original Signed By:
Zoe Rascoe P.E.
Zoe Rascoe, P.E.
Waco Regional Director
Waco Regional Office

cc: Jerry Allred, MSW Permits
Mr. David Bower, Manger, Section I, Enforcement Division

CORYELL COUNTY

TEXAS NATURAL RESOURCE CONSERVATION COMMISSION

MSW INSPECTION REPORT

Inspection Type: Closed Type I Landfill

Inspection Date:	09-25-00	Time:	01:00 PM	Pictures Taken?	Yes	Copy To:	Permits
MSW Permit	1283	Type:	I	Region:	09	Facility County:	Coryell (050)
Weather Conditions:	Mild, sunny & windy						
Entity Name / Permittee:	US Army/Ft Hood						
Entity Representative:	Mr. William C. Bodkin, Chief of Environmental Division						
Entity Address:	US Army/Fort Hood, HQ III Corps & Fort Hood, Attn: AFZF-PW-ENV Bldg 4219, 77th & Warehouse Avenue, Fort Hood, Tx 76544-5057						
Entity Phone Number:	(254)287-8712						
Operation Description:	Closed Landfill						
Facility Contact:	Bill Bodkin / Miguel Perez						
Facility Address:	NW corner of Clear Creek Road & Turkey Run Road, Fort Hood, Tx						
Facility Phone Number:	(254)287-8712						
Person(s) Contacted:	Mr. William C. Bodkin, Chief of Environmental Division (254)287-6499 03:15 PM 09-18-00.						
Person(s) Participating:	Mr. William C. Bodkin, Mr. Miguel Perez (Ft Hood), Abdirahan M Jama, Guillermo Reyes (Air Permits TNRCC C/O), Russ Alexander Air Investigator, TNRCC Waco Region 9 Office.						
TNRCC Inspector:	Diane Massey						
Purpose of Inspection:	Post Closure			Next Inspection:	N/A		Last Inspection: 03-05-96

INSPECTION REPORT ATTACHMENTS							
Landfill Forms		Landfill Forms Continued		Waste Tire Forms		Used Oil/Filter Forms	
Type 1-4 Landfill Checklist	X	Type 1-4 Closed Site Checklist		Tire Generator Checklist		UO/UOF Collection Center Ckl.	
Site Development Plan Checklist		Unauthorized Site Checklist		Tire Transporter Checklist		Used Oil Handler Checklist	
Site Operating Plan Checklist		Processor (Type 5) Checklist		Tire Storage Site Checklist		Used Oil Filter Handler Cklst.	
Record Keeping Checklist		Liquid Waste Processor Cklst.		Tire Facility Checklist		Miscellaneous Forms	
Landfill Gas Checklist		Medical Waste Checklist		Tire Transport. Facility Cklst.		Attachment Page(s)	
Landfill Gas Well Report		Compost Checklist		Land Reclamation Checklist		X	Photograph Page(s)
Asbestos Checklist				PEL Inspection Checklist			Site Diagram
Groundwater Checklist							Property Ownership Page
Groundwater Well Report							IOM
Closure Checklist						X	Letter of Revocation

TNRCC Representative's Signature:	<i>D Massey</i>	Date:	10-31-00
Approved By:	<i>Am Bodkin</i>	Date:	10-31-00

CORYELL COUNTY

TEXAS NATURAL RESOURCE CONSERVATION COMMISSION MSW INSPECTION REPORT

Page 2

MSW Permit	1283	Facility Name:	US Army/Ft Hood	County Name:	Coryell (050)
Inspection Date:	09-25-00	TNRCC Investigator:	Diane Massey		

VERBAL OR WRITTEN VIOLATIONS NOTED

No.	Rule Cited	Description of Violation
1.		None
2.		
3.		
4.		
5.		
6.		
7.		
8.		
9.		
10.		

CORYELL COUNTY

TEXAS NATURAL RESOURCE CONSERVATION COMMISSION MSW INSPECTION REPORT

Page 3

MSW Permit	1283	Facility Name:	US Army/Ft Hood	County Name:	Coryell (050)
Inspection Date:	09-25-00	TNRCC Investigator:	Diane Massey		

GENERAL INSPECTION DESCRIPTION / COMMENTS

Inspection Type:

This was a Compliance Evaluation Inspection (CEI) of an MSW Type I closed landfill.

Notification:

Mr. Miguel Perez, Civil Engineer for Ft Hood, was contacted by Mr Russ Alexander, and a multi-media inspection was scheduled for September 25, 2000.

Comments:

On 09-25-00, Russ Alexander and I meet with Mr. Miguel Perez, Civil Engineer for Ft Hood at his office to perform a multi-media air and waste inspection. We were joined by Abdirahan M. Jama and Guillermo Reyes from the Air Permits section in central office. Mr. Alexander conducted portions his air inspection prior to the visual inspection of the closed landfill.

Approximately 12:30 PM we inspected 2 separate paint areas and one of the boilers at the facility for air program requirements. We then traveled to the closed landfill for the visual inspection. After walking the site, I then discussed my findings with Mr. Perez. The site appears to be in general compliance. I recommended to Mr. Perez that he continue to monitor the areas that have recently been re-graded to make sure the vegetation grows and there are no erosion problems. We then returned to Mr. Perez's office for the completion of Mr. Alexander's inspection and exit interview.

Exit Interview:

After the site inspection, an exit interview was conducted with Mr. William C. (Bill) Botkin, Chief of Environmental Division and Mr. Perez. Mr. Botkin was informed that the landfill was in general compliance. At the time of the exit interview, Mr. Botkin signed a request for voluntary revocation. I will forward the request for voluntary revocation to the Municipal Solid Waste Permits Section (MSWPS) in Austin. Once accepted, it will be recommended to the Executive Director of the TNRCC that the post-closure care period be finalized and the permit for this landfill be considered for expiration and cancellation status. The final status of the landfill will be confirmed by a letter from this group.

Other:

Per Chet Safe, TNRCC Permits, Ft Hood will not be required to submit an ATTP. Mr. Botkin signed a voluntary revocation that will be forwarded to MSW Permits.



Directorate of Public Works
Environmental Division
Environmental Mgmt Office



MIGUEL PEREZ
Civil Engineer

HQ III Corps & Fort Hood
Attn: AFZF-PW-ENV
Bldg 4219, 77th & Warehouse Ave.
Fort Hood, TX 76544-5057

(254)287-8712
DSN: 737-8712
fax: (254)287-2718

perezm@hood-emh3.army.mil

miguel.perez@hood-emh3.army.mil



TEXAS NATURAL RESOURCE
CONSERVATION COMMISSION

ABDIRAHMAN M. JAMA
Operating Permits Division
Office of Air Quality

512/239-0742 • Fax 512/239-1070
E-Mail: ajama@tnrcc.state.tx.us
12100 Park 35 Circle • Bldg. C • Austin 78753
Mailing: MC-163 • P.O. Box 13087 • Austin, Texas 78711-3087

printed on recycled paper

CORYELL COUNTY

TEXAS NATURAL RESOURCE CONSERVATION COMMISSION

MSW TYPE 1-4 CLOSED SITE CHECKLIST

MSW Permit	1283	Facility Name:	US Army/Ft Hood Landfill	County Name:	Coryell (050)
Inspection Date:	09-25-00	TNRCC Investigator:	Diane Massey		

INSPECTION RESULTS

No.	Citation	Description	Y	N	Note
1.	330.111	General Requirements	X		
2.	330.113	Record Keeping Requirements	X		
3.	330.113(b)(3)	Methane Monitoring			N/A
4.	330.113(b)(4)	Leachate Disposal			N/A
5.	330.113(b)(5)	Groundwater Monitoring			N/A
6.	330.125	Air Criteria Requirements	X		
7.	330.253(e)(7)	Signs Posted-Final Closure			N/O
	330.253(e)(8)	Affidavit Received			N/A
9.	330.254(a)	Post Closure Requirements	X		
10.	330.254(a)	Cover Erosion	X		
11.	330.254(a)	Subsidence / Ponding	X		
12.	330.254(a)	Additional Vegetation Needed	X		
13.	330.252(a,b)	Final Cover Complete	X		
14.	26.121(a)	All Discharges			N/A
15.	26.121(a)(3)	Other Activities			N/A
16.		Other Violations			N/A

8) N/A per Chet Safe.

Any documented violation requires a comment. Note: N/A = Not Applicable N/O = Not Observed N/R = Not required at this time.

Y = The requirement is met. N = The requirement is not met.

CORYELL COUNTY

Rev 4/2/99

MSW 1283

REQUEST FOR VOLUNTARY REVOCATION OF PERMIT

TO THE EXECUTIVE DIRECTOR OF THE TEXAS NATURAL RESOURCE
CONSERVATION COMMISSION:

I, William C. Bockman, C, ENV DIV (name and title of permit holder's authorized
representative), representing US Army/Fort Hood, hereby request that Permit No. 1283 be
revoked. The permit was issued by the Texas Natural Resource Conservation Commission
(TNRCC) or its predecessor agency to US Army/Fort Hood on 02-09-81 for the operation of an
MSW Type I Landfill facility in Coryell County. US Army/Fort Hood has since ceased operations
and closed the facility as required by applicable law and does not intend to resume operations
under this permit.

I understand that by requesting the revocation of Permit No. 1283, US Army/Fort Hood
waives all right to notice and a hearing. The Executive Director of the TNRCC, or his authorized
representative, may revoke the permit without a public hearing or any commission action, pursuant
to 30 TAC § 305.67.

RECEIVED

NOV 17 2000

**MSW PERMITS SECTION
TEXAS NATURAL RESOURCE CONSERVATION
COMMISSION**

Respectfully submitted,

By: William C. Bockman
(Signature of Permit Holder's
Authorized Representative)*

*Please include verification of signator's authority to represent the permit holder.

CORYELL COUNTY

4443

001 MSW Data Entry Form

MSW1283 JB/WT

Facility/Site Information:		Help		Region/Inspector Info: Help	
Permit #	MSW-1283	If Permit # needs to be changed, click on "Permit #" for information.		Region:	09 Waco
County:	050 CORYELL			Inspector:	DMASSEY
Type Facility:	MSW Type 1	Facility Status:	CLOSED	Locate	Insert
Site name:	US ARMY/FT HOOD			Edit	Delete
		Tips		Undo	Print

Inspection/Activity Information:		Help	
Activity Type:	FINAL	<input type="checkbox"/> Asbestos? Check If Yes	
Date of Activity:	09/25/2000	Date of Supervisor Signature:	10/31/2000
Comments:	NO VIOLATIONS FOUND. VR FORWARDED TO PERMITS. NO FURTHER ACTION REQUIRED.		
CD-118-00			
For Regions 04 and 12 only:		Date Tire Application Received:	Click on the appropriate letter type below:
Date Application Review Completed:		Date of Letter:	<input type="checkbox"/> NOD <input type="checkbox"/> Referral <input type="checkbox"/> Denial

Additional Letter Information: (optional - not required by Central Office)		Help	
Additional Letter Type:		Additional Letter Date:	

***** If you are experiencing problems or are having difficulty, please contact Cristina Jarosek at 512-239-2974 or E-mail at

Permit Information: Permit# will be completed automatically		Help				
Permit #	Rule Citation	Enf Action	Date Action	Expected Compliance	Date Compliance	Category
				<p>RECEIVED</p> <p>NOV 21 2000</p> <p>MSW PERMITS SECTION</p> <p>TEXAS NATURAL RESOURCE CONSERVATION COMMISSION</p>		
				<p>RECEIVED</p> <p>NOV 16 2000</p> <p>TNRCC</p> <p>FIELD OPERATIONS DIVISION</p>		

CORYELL COUNTY

4374

TEXAS WATER COMMISSION

Permit Modification Form for Type I - III Landfills

PART A - GENERAL DATA

Submit three copies of this form and the supporting documentation unless otherwise instructed by the Commission. Failure to complete all entries and provide all necessary attachments will delay processing the application. Please type or print.

GENERAL PERMIT INFORMATION

Permit Application No.: 1283

Date permit was originally issued: February 9, 1981

Is the site a "grandfathered" site? Yes X No

Has the permit been amended? X Yes No

If the permit has been amended, please give the date of the amendment(s) and the type of amendment(s):

Date of amendment(s): 5/8/84 - Waste From "Vac-All" Permitted; 7/19/85 - Disposal of Asbestos

Type of amendment(s): Permitted; 7/23/85 - Disposal of Grease Trap Waste Permitted; 5/11/88- Operation of Trench Burner Permitted; 11/1/90 - Handling of Scrap Tires Permitted; 1/91 - Site Operation Plan Changes

Is the facility currently in receipt of waste for disposal? Yes X No

If the facility has not been receiving waste for disposal, has the final cover been completed? Yes X No

Date of final cover completion:

Applicant is a (check one): ☐ City ☐ County ☒ Other

Applicant Name: Fort Hood Army Post

Business Address: AFZF-DE-ENV

Fort Hood

(city)

Texas

(state)

76544-5057

(zip)

Business Contact: Civil/Env. Mgmt. Bill Bodkin

(title)

(first name)

(last name)

Phone No. (817)287-9813

(area code)

SITE INFORMATION

Site Name: Fort Hood Sanitary Landfill

Physical location: NW Corner of Turkey Run & Clear Cr. County: Coryell

Geographic Coordinates (if known): N31°09' W97°48.10'

Site located in: County of Coryell City of Fort Hood Army Base

Nearest town: Killeen (applicable only if site is outside the city limits or ETJ of any city).

PERMITS AND LICENSES

List any other existing permits or licenses issued by this or any government agency, whether local, state, or federal, which pertain to this facility (attach additional sheet if necessary):

1) TNRCC Solid Waste 1866, 1284

2) TWC Wastewater Permits 12096-001, 02233, 02230

TWC Hazardous Waste Permit 50323

4) EPA Storm Water Permit TXR10H927

Has facility received an Arid Exemption (31 TAC 330.3(e)(f)) from the TWC? Yes X No

CORYELL COUNTY

SITE OPERATIONS AND SPECIFICATIONS

The following information should be taken from the latest (most recent) permit application:

- Facility is: 51.86 acres in size.
- Approximate percentage of total permitted landfill area remaining open after October 9, 1993: 0
- Approximate percentage of total permitted landfill area remaining unused after October 9, 1993: 0
- Approximate percentage of total permitted landfill area which has final cover in place as of October 9, 1993: 15-20%
- Facility will service approximately: N/A persons.
- Will facility plan on extending service area? Yes X No.

If yes, please describe the expansion:

- Facility will receive an average of approximately: N/A tons per day of municipal waste.
- With permit modification facility's estimated life is approximately: N/A years.

CORYELL COUNTY

Reviewed by Mr. John Nett--Fort Hood
phone- (254)-532-2256

Information is accurate

Any questions should be directed to Mr. Bill Bodkin, Director of
Public Works, Environmental Office, Fort Hood
phone- (254)-287-8713

CORYELL COUNTY

#1283

① Looks accurate - however last
paper packet shows an additional
LF immediately to the south of
it. ?? Per it or sum of E-W location.

#1283

① Has POB to decimal minute (see permit)
② Location is correct.

CORYELL COUNTY

SITE NUMBER : 5

CURRENT STATUS : Existing Landfill

PERIOD OF ACTIVITY :

Prior to 1970 until Present (3,5)

LOCATION :

North of Turkey Run Road and West of Clear Creek Road. See General Site Map Sheet # 74.

AERIAL PHOTOGRAPHY REFERENCES :

November 25, 1955, Plates 339 and 340 (6).
June 21, 1962, Plates 17, 18, 19, and 20 (7).
Figure 19, April 3, 1970, Scale 1:12500 (5).
Photobase Map, Sheet 81, December 19, 1982 (3).

EXCERPTS FROM "INSTALLATION ASSESSMENT OF FORT HOOD, TEXAS" (4) :

"Site 1 receives Type I municipal waste (combustible waste)..."

"Site 1 is a trench-type operation (9m by 9m by 150m). Daily deposits are covered with earth and the active fill area is fenced (as is the entire 14-ha landfill). Approximately 100 tons of waste are landfilled daily, with a resource recovery (salvage) operation conducted near the entrance. The estimated life of the landfill is 12 to 15 years ..."

"A specific portion of this landfill is reserved for demolition-type rubble, reportedly including lumber, concrete, tree limbs, asbestos (shingles and transite), plaster, wooden ammunition crates (occasionally a live round), and cardboard."

"The sanitary fill portion of site 1 reportedly contains such material as wet garbage; paint cans and painting wastes; rinsed, perforated, and crushed pesticide containers; outdated drugs (crushed containers); hospital non-infectious and incinerated infectious waste (ash); and other municipal-type wastes."

"When each trench is filled, it is reportedly covered with 10 cm of loam and seeded with several types of grass seed."

GEOLOGICAL BORING LOG REFERENCES :

No on-site log data available.

SITE NUMBER : 5 (continued)

COMMENTS / CONCLUSIONS :

The fenced area of the existing landfill lies partially within an Explosive Safety Zone of an Ammunition Holding Area.

This site showed no activity on either the 1955 or 1962 aerial photographs. The landfill appears to have just begun operation prior to the 1970 photography in Figure 19, where the site is listed as a landfill.

The site contains approximately 61 acres.

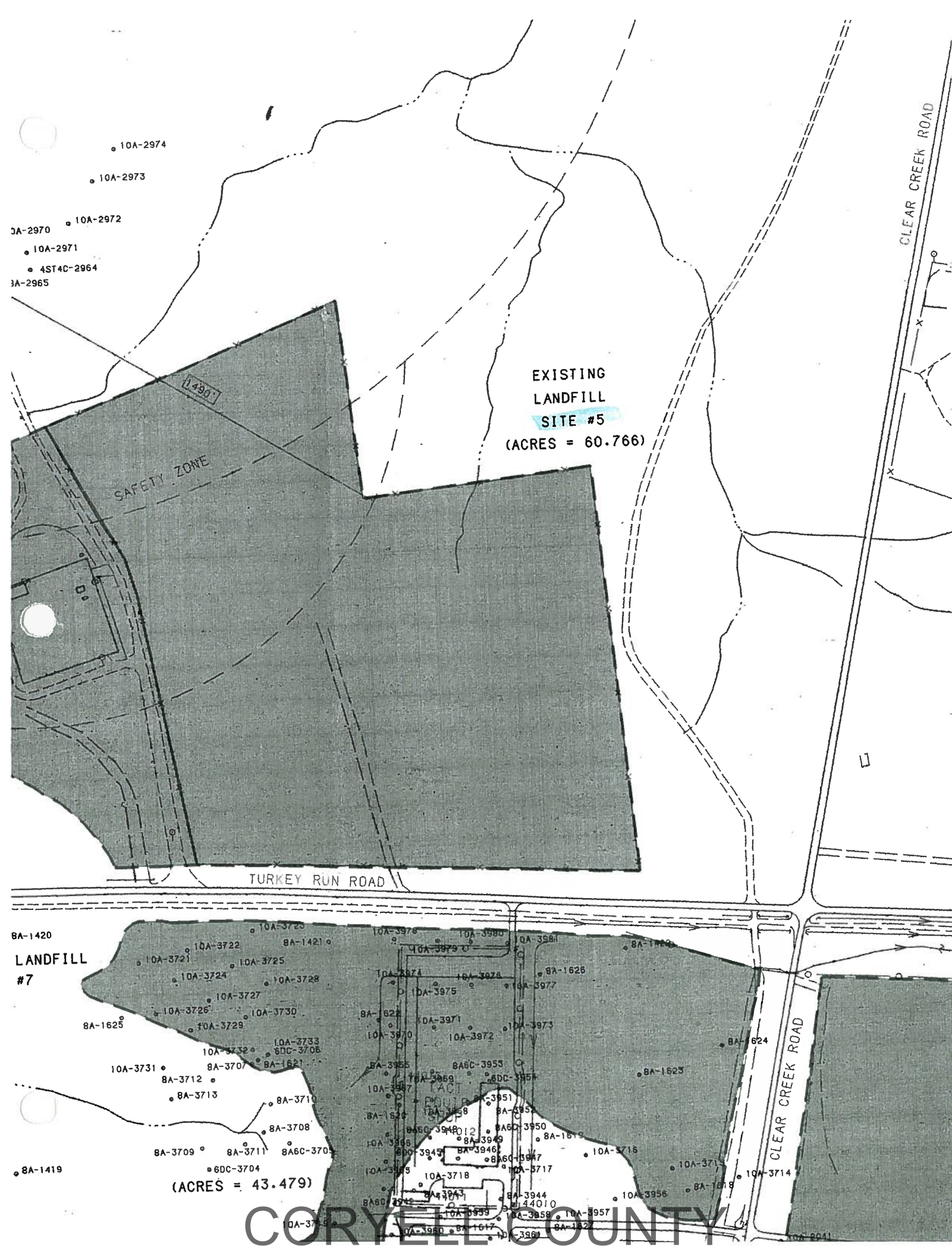


EXHIBIT 1

Description of Property **Closed Landfill Inventory** Central Texas Council of Governments

Site Identification

County	Coryell County
	Fort Hood
Permitted Site Number	P1284

Location and Boundary

COG Confidence Level	50%
Latitude	31.3675 N
Longitude	97.6725 W
Narrative Location Description	North of 16 th Street Near the bend in 18 th street, North Fort Hood
Boundary Description	See Texas Dept. of Health Letter Feb. 1981
Basic Land Units	Tract 010500, Block 1000

Land Use

Vacant

Ownership Information

Current Property Owner(s)	US Army
Current Owner(s) Address	US Army; Ft. Hood, TX 76544
Dates of Ownership	Unknown
Land Unit	3.68 acres

Site History and Current Status

Previous Owner(s)	Unknown
Dates of Operation	7/01/76 – 9/23/88
Enforcement History	Unknown
Types of Waste Disposed	Metal, Wood, Plastic, and Building Material, Household Waste

Reference Attachments

Texas Department of Health Memo Regarding Inspection Dec. 1974
Texas Department of Health Letter Regarding Permit Application Feb. 1981
Texas Department of Health Final Cover Inspection Sept. 1988
RCRA Facility Investigation Report Dec. 1995 with map
Status of Landfill Research Form Oct. 1999
Aerial Map
Fort Hood Data Sheet with map
TNRCC Letter Regarding Post-Closure Care May 2000

Comments:

Same as sites U2567, U2575,
U2576, and U2577

State Department of Health

AUSTIN

TEXAS

INTER-OFFICE

FROM Pat Adell, P. E.,
Region V

Charles K. Foster, P. E., Director
TO Environmental and Consumer Health Protection

SUBJECT Solid Waste Inspection - Fort Hood - Coryell County

On November 14, 1974, the Writer inspected the Solid Waste Disposal Site serving Fort Hood at the invitation of Tom Hylands, Environmental Protection Agency, who was contacted during the inspection. Colonel Thomasett, Facilities Engineer, was contacted during the inspection, *also*.

The operation of the landfill appeared excellent as a daily cover is applied. The only problem was that very little consideration was given to the soils geology of the site. Mr. Hylands and the Writer impressed the importance of soils report on Mr. Davis, Engineer in charge of the landfill, among other things. During the visit Mr. Davis learned that the Army had a special service out of Georgia that would come in and aid bases in the selection of landfill sites. When the present site is used up in about a year, a full study will be completed before a new site is started.

This is for the Department's information.

PA/ba



SIGNED

Pat Adell, P.E.

DATE

12-20-74

CORYELL COUNTY

FORM NO. 46-2-A

p1284



Texas Department of Health

Robert Bernstein, M.D., F.A.C.P.
Commissioner

1100 West 4th Street
Austin, Texas 78756
(512) 458-7111

A. M. Donnell, Jr., M.D., M.P.H., F.A.C.P.
Deputy Commissioner

Members of the Board

William J. Fagan, Chairman
Laurence M. Nickes, Vice-Chairman
Robert M. Bell, Secretary
Johnnie M. Benson
H. Eugene Brown
Sister Bernard Marie Berggren
Ramiro Casso
Charles Max Cole
Francis A. Conley
Sam M. Durr
Raymond G. Garrett
Bob D. Glass
Blanchard T. Hallam
Robert D. Marston
Joe N. Fike
Richard W. Ragdale
Ladette Roweth
Barbara T. Stover

Permit No. 1284
Coordinates: N 31° 21.10' W 97° 41.10'

PERMIT FOR A MUNICIPAL SOLID WASTE FACILITY
Issued under provisions of Article 4677-7, Vernon's
Texas Civil Statutes, and the Texas Department of Health's
"Municipal Solid Waste Management Regulations"

Permittee

U.S. Army, Fort Hood
Fort Hood, Texas 76544

Site Owner

U.S. Army, Fort Hood
Fort Hood, Texas 76544

Legal Description of Site: The legal description as submitted with the application is hereby made a part of this permit.

Size and Location of Site: The 3.688-acre site is located 200 feet south of 18th Street and 600 feet north of 16th Street within North Fort Hood in Coryell County.

Operational Classification of Site: Type III

Waste Disposal Methods Used at Site: Trench method of disposal with compaction of solid waste and cover with a minimum of six (6) inches of compacted earth not less often than once each month.

Description of Waste Materials Processed at Site: Solid waste under the regulatory jurisdiction of the Texas Department of Health, when disposed of or processed in accordance with the Department's "Municipal Solid Waste Management Regulations".

Findings of Fact and Conclusions of Law: Attached hereto and made a part hereof.

Standard Provision: Acceptance of this permit constitutes an acknowledgement that the permittee will comply with all of the terms, provisions, conditions, limitations and other restrictions embodied in this permit; with the "Municipal Solid Waste Management Regulations" of the Texas Department of Health; and with the pertinent laws of the State of Texas.

Special Provisions: See Attachment - "Special Provisions for Municipal Solid Waste Permit No. 1284".

This permit will be valid until cancelled or revoked by the Commissioner of Health of the Texas Department of Health or until the site is completely filled and rendered unusable, whichever occurs first.

Given under my Hand and Seal of Office at Austin, Texas on the 9th day of February 1981.

Robert Bernstein
Robert Bernstein, M.D., F.A.C.P.
Commissioner of Health

CORYELL COUNTY

SPECIAL PROVISIONS FOR MUNICIPAL SOLID WASTE PERMIT NO. 1284

- Property Rights:** It is the responsibility of the herein-named permittee to possess or acquire a sufficient interest in or right to the use of the property herein described for the purposes for which this permit is issued. The granting of this permit does not convey any property rights or interest in either real or personal property, nor does it authorize any injury to private property or invasion of personal rights, nor any infringement of Federal, State or local laws or regulations outside the scope of the authority under which this permit is issued.
- B. **Surface Water Protection:** Rainfall runoff within the landfill trenches or area that has become contaminated by solid waste shall not be discharged from the site unless authorized by the Texas Department of Water Resources.
- C. **Groundwater Protection:** Inasmuch as data submitted with the application indicates some natural subsoils in this site do not meet the permeability requirements of the Department's "Municipal Solid Waste Management Regulations," the permittee shall provide such man-made lining as may be necessary. Within 90 days after the date of issuance of this permit, the permittee shall submit to the Department a written soils quality control program which outlines the test procedures, frequency of professional evaluation, and methods for lining to be followed to assure continuous compliance with the aforesaid regulations. The soils quality control program shall be keyed to the site development plan for area or trench identification. In accepting this permit, the permittee agrees to follow the soils quality control program submitted unless deviation is authorized by the Department in writing.
- D. **Odor and Air Pollution Control:**
1. Any ponded water at the site must not become a source of obnoxious odors.
 2. All applicable Texas Air Control Board regulations concerning air pollution control shall be observed.
- E. **Site Development and Operation:** Site development and operation shall be in accordance with the site plans and procedures submitted with the permit application and in accordance with the Department's "Municipal Solid Waste Management Regulations." Any significant deviation from such plans and procedures must have prior approval by the Department.
- F. **Site Closing:** Site completion and closure procedures shall be in accordance with the Department's "Municipal Solid Waste Management Regulations."
- G. **Surety Bond:** Not required.

LEGAL DESCRIPTION OF TRACT
OF LAND FOR USE BY
U.S. ARMY, FORT HOOD
AS A SOLID WASTE DISPOSAL SITE

STATE OF TEXAS

I

COUNTY OF CORYELL

I

Described herein is a tract of land in the State of Texas, County of Coryell. Said strip being out of the Lucian Hannum Survey 1-202 and being a part of the original 157,588.023 Acre Camp Hood Acquisition. Said strip is a portion of the Fort Hood Military Reservation released from state authority to exclusive Federal jurisdiction in the deed cession agreement, approved by the state legislature and signed by the Governor Elect, A. SHIVERS, 6 Sept. 1950.

From a cedar post which bears approximately 460 feet in a northwesterly direction along the center line of a well maintained gravel road from the northerly intersection of 15th Street and 16th Street, both streets being paved, platted, and recorded on Federal real property records and being within the North Fort Hood cantonment area; then N 63° 30' E, 104 feet along the center line of an overhead telephone utility line. Said post being the southwest corner of existing North Fort Hood Landfill.

Then proceed to a railroad spike with an "X" cut which is along the overhead telephone utility line S 63° 30' W, approximately 24 feet. Said point being the most easterly point of the landfill addition and the POINT OF BEGINNING.

THENCE S 67° 38' 25.5" W, 416.13' to a point. Said point being the most southerly point of this addition.

THENCE N 25° 47' 58.0", 405.193' to a point. Said point being the most westerly point of the addition.

THENCE N 68° 23' 56.0" E, 381.508' to a point. Said point being a railroad spike with an "X" cut and the most northerly point of the addition.

THENCE S 30° 42' 09.1" E, 406.125' to the point of beginning, containing 3.688 acres more or less.

cc: Coryell County Health Officer

CORYELL COUNTY

FINDINGS OF FACT

(1) An application for a permit to operate an existing Type III municipal solid waste landfill, along with all necessary supporting data, was properly submitted by the applicant; due notice was given; and a public hearing was held at Room 2, Building 4211, Directorate of Facilities Engineering in Fort Hood, Texas on Tuesday, November 25, 1980; and all parties were given an opportunity to appear, be represented by counsel, and present testimony or other evidence either for or against the granting of a permit.

(2) The physical conditions existing at the subject site, along with the recommended special provisions transmitted herewith, render the site suitable for use as a landfill.

(3) Use of the subject site as a Type III municipal solid waste landfill is compatible with the present uses being made of the surrounding land.

CONCLUSIONS OF LAW

(1) All procedural requirements relative to notice, hearing and due process of law were met.

(2) The subject site, if operated in compliance with the Solid Waste Disposal Act (Article 4477-7, V.A.C.S.), the Texas Department of Health Municipal Solid Waste Management Regulations and the Special Provisions which accompany the permit transmitted herewith, will not adversely affect the public health or create a public nuisance.

(3) Operation of Type III municipal solid waste landfill is a proper land use of the property described in the attached permit

SURVEILLANCE AND ENFORCEMENT BRANCH
DIVISION OF SOLID WASTE MANAGEMENT
TEXAS DEPARTMENT OF HEALTH

Site # 1284
Reg # 1
County CORYELL

Site Name N. F. HOOD LE
Inspection Date 9-23-88

COMMENTS

IMPROVEMENTS

5.3D 4 FINAL COVER HAS BEEN APPLIED TO THE ENTIRE SITE, NO EXPOSED WASTES, NO SETTLEMENT EVIDENCE.

ADDITIONAL COVER MATERIAL HAS BEEN STOCKPILED ON-SITE, AWAITING SPREADING. THIS MATERIAL CAME FROM DITCH WORK DONE BY A CONTRACTOR.

MR BODKIN INFORMED ME THAT THIS SITE, AS WELL AS ALL KNOWN CLOSED LANDFILLS ON FT HOOD, ARE TO BE PLACED ON THE MASTER PLAN. THIS ACTION WILL SATISFY THE REQUIREMENT FOR AN AFFIDAVIT TO THE PUBLIC.

Suggested type of letter GENERAL COMPLIANCE

TDH Representative's Signature

Edward J. Myers

Date 9-23-88

CORYELL COUNTY

(SEE INSTRUCTIONS)

**FINAL
RCRA FACILITY INVESTIGATION
for
Fort Hood
Sites FH-002, -013, -014, and -015
Abandoned Sanitary Landfills 2, 13, 14, and 15**

**Prepared for
U.S. Army Corps of Engineers
Fort Worth District**

DECEMBER 1995

**Prepared by
Black & Veatch Waste Science, Inc.
Overland Park, Kansas**

**Contract No. DACA47-93-D-0035
BVWS Project No. 40544**

CORYELL COUNTY

8.1 Sites FH-002, -013, -014, and -015, Abandoned Sanitary Landfills 2, 13, 14, and 15

This section includes the RFI work plan for abandoned Sanitary Landfills 2, 13, 14, and 15. This section is organized as follows:

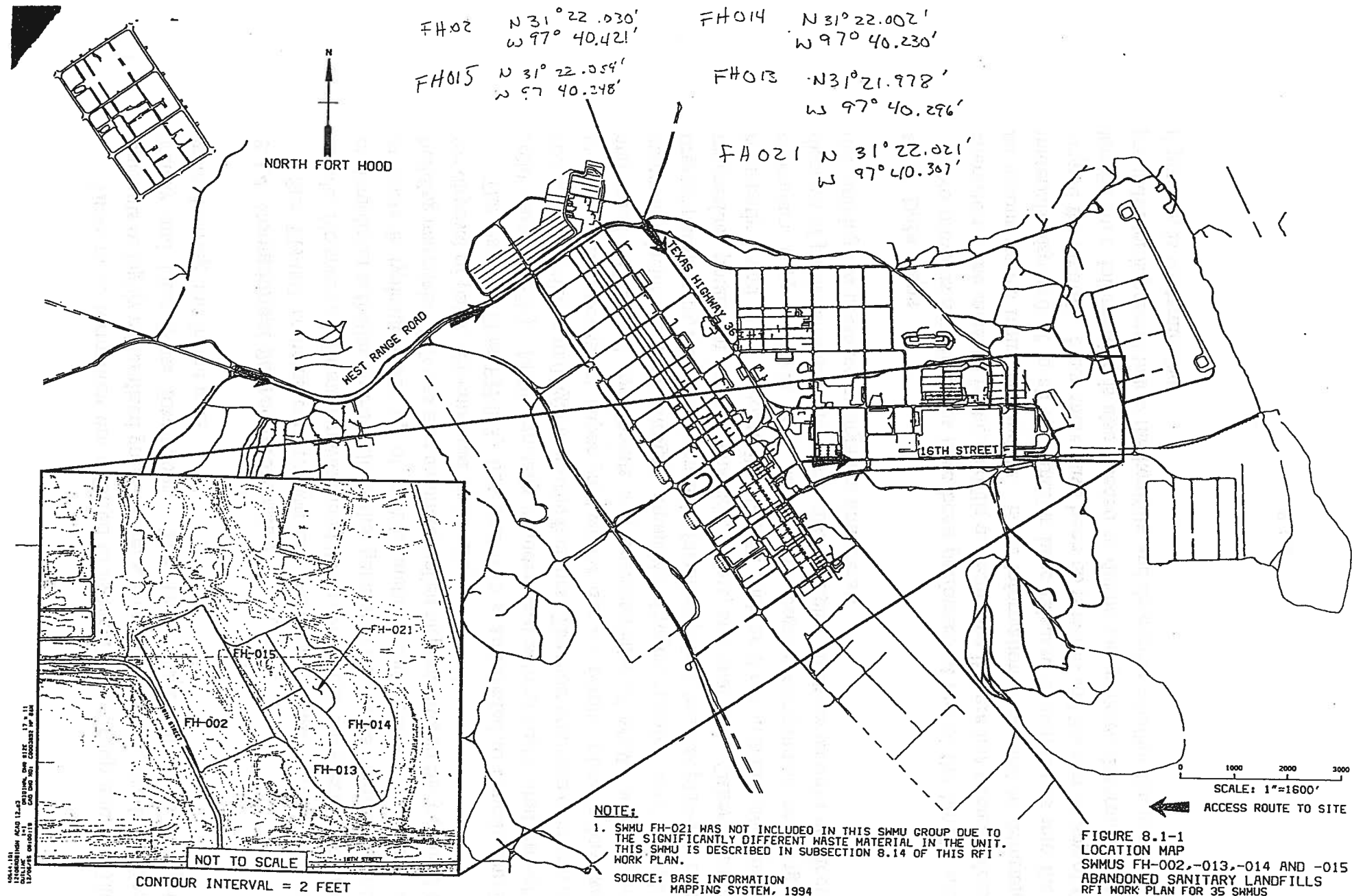
- Unit Operation and History.
- Topography and Hydrology.
- Site Specific Geology.
- Contaminant Source Information.
- Data Gaps.
- Potential Contaminant Pathways.
- Investigation Plan.
- Health and Safety Plan.
- Schedule.

8.1.1 Unit Operation and History

Four solid waste management units (SWMUs), abandoned Sanitary Landfills 2, 13, 14, and 15, were combined because of their proximity and the undefined boundaries of all four units. Site FH-021 is also located within this area. It contains used vehicular lead-acid batteries. However, it has been separated from this grouping of sites because it has significantly different waste material. The site-specific work plan for Site FH-021 is included in Section 8.14.

Site FH-002 was a trench-type landfill, with each trench approximately 15 feet wide by 15 feet deep by 225 feet long. It is approximately 6 acres in size and had a life expectancy of 5 years beginning July 1976. The actual lifespan is unknown. This landfill was operated approximately once each week during its life. It had a specified area that received construction demolition wastes, primarily rubble. The contractor that operated the landfill was responsible for daily earth cover and for policing the overall area.

Sites FH-013, -014, and -015 were trench-type landfills that received municipal solid waste. FH-013 operated between 1973 and 1975, FH-014 operated between 1975 and 1977, and FH-015 operated between 1977 and 1979. Based on the Figure 8.1-1, FH-013 is estimated to be approximately 2.8 acres, FH-014 is approximately 3.2 acres, and FH-015 is approximately 1.4 acres. All four units are closed and are currently inactive (Hood 1991).



CORYELL COUNTY

These three formations are referred to as the Trinity Group aquifer. Limited amounts of highly mineralized groundwater are capable of being produced from the Paluxy and Glen Rose formations. The Travis Peak aquifer is the primary water-bearing unit in the area.

8.1.4 Contaminant Source Information

CD waste

Site FH-002 contains construction and demolition debris, primarily concrete rubble. No specific information was found that would define the specific construction or demolition activities on Fort Hood that generated this waste. However, this type of waste is typically made up of rubble, metal, wood, plastics, and other waste building materials. This was also an uncontrolled disposal site, so the potential exists for disposal of paint, solvents, and waste oils.

The waste in Sites FH-013, -014, and -015 is anticipated to contain municipal solid waste (MSW). MSW typically includes wastes from residential households, commercial facilities, and light industrial facilities. The most common elements found in MSW include newsprint, paper, yard wastes, diapers, textiles, plastics, food wastes, and wood. Chemical constituents and characteristics of MSW landfill leachate commonly include organic nitrogen, ammonia nitrogen, nitrates, total phosphorus, organic phosphorus, alkalinity, corrosivity (acidic at $\text{pH} < 2$, basic at $\text{pH} > 12$), calcium, magnesium, potassium, sodium, chloride, sulfate, and total iron. Other constituents frequently found in an uncontrolled landfill such as these include cadmium, zinc, chromium, copper, nickel, lead, and volatile organic compounds resulting from disposal of paint, solvents, and waste oils. Sampling at these landfills will focus on determining the presence of organics and metals.

8.1.5 Data Gaps

No previous investigations have been performed at any of the landfill sites to characterize the material in the landfills or determine if there has been a release of hazardous wastes from the landfills. Basic information is needed to determine if materials disposed of in all the landfills have released contaminants into the soil around the landfills. Since there have been no previous soil borings at any of these landfill sites, information is also needed to define the geology, determine whether groundwater is present below the landfills, and determine whether the groundwater, if present, is contaminated.

Status of Landfill Research Form

Permit No. 1284 Issue Date 2/9/81 County Coryell Permitted Acres 3.688

Technical Pkg Submitted for Permit? Yes ☒ File Loc. Microfiche No ☐

Date Closed to Waste Recpt. 11/86 File Loc. MSW PA # 1284 1992-3/6/87

Date of Final Cover Inspection None File Loc. _____

*Date Affidavit(s) Approved None Acreage Closed _____
(If none, please indicate so)

File Loc. _____

Closure Plan Exists? Yes _____ File Loc. _____ No ☒

Date Closure Plan Approved None File Loc. _____

Date(s) Post Closure Started No date File Loc. _____

Date(s) Post Closure Ends 1993 File Loc. Microfiche

Length of Post Closure Period: 5 yrs. _____ 30 yrs. _____ Other (no. of yrs.) _____

*File Closed Date None File Loc. _____
(If none, please indicate so)

*Date of "Inactive Status" Acknowledgment Letter None File Loc. _____
(If none, please indicate so)

Name of Researcher Lara Sarey

Date Research Conducted 10/22/99

* copy needed

After 1990-1991 time frame not too
much useful closure information

* Comments made on inspection report (9/23/88)
State of TX. records will be placed on microfiche therefore no

CORYELL COUNTY

1284

COPY

SITE NUMBER : 19

CURRENT STATUS : Abandoned Landfill

PERIOD OF ACTIVITY :

See "excerpts" below.

LOCATION :

North of 16th Street near the bend in 18th Street, North Fort Hood. See General Site Map Sheet # 5.

AERIAL PHOTOGRAPHY REFERENCES :

June 21, 1962, Plates 16, and 17 (7).
Photobase Map, Sheet 5, December 19, 1982 (3).

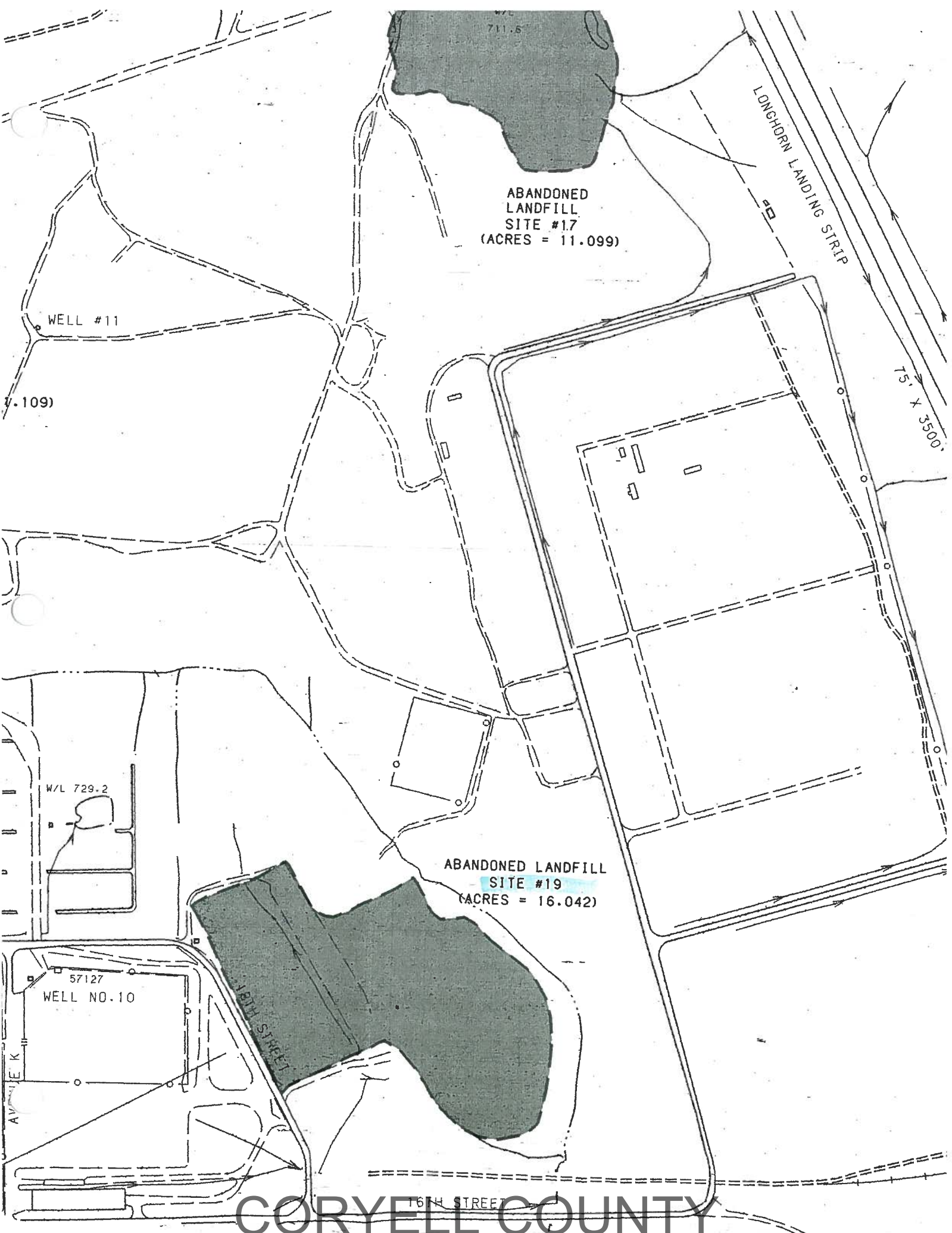
EXCERPTS FROM "INSTALLATION ASSESSMENT OF FORT HOOD, TEXAS" (4) :

"Site 2 is also a trench-type landfill (4.5m by 4.5m by 7.5m) with a fenced-in working area, located in the vicinity of 16th and 18th Streets. This landfill is approximately 3.6-ha large and is operated approximately once weekly. It has a life expectancy of 5 years from July 1976, when it was established. This landfill also has a specified area to receive demolition-type materials (rubble). The contractor-operator is responsible for daily earth-covering of filled material as well as policing the area."

"At the time of the Team's ground tour, the landfill was open-ended, containing approximately 0.6m of green water, to allow rainwater and groundwater to drain to a nearby surface stream draining into the Leon River. The Leon River flows to Belton Lake, a potable water source for FH and the city of Killeen. In March of 1975, USAEHA conducted a study of potential sanitary landfill sites at FH. At that time, USAEHA recommended that this site not be used as a landfill, due to the fact that "the potential is too great for leachate reaching the Leon River..." *

* "This landfill has subsequently been inspected by the State of Texas and was found to be in compliance with regulations."

Site # 13. "1973-1975" **
Site # 14. "1975-1977" **
Site # 15. "1977-1979" **



ABANDONED
LANDFILL
SITE #17
(ACRES = 11.099)

ABANDONED LANDFILL
SITE #19
(ACRES = 16.042)

WELL #11

7.109)

W/L 729.2

57127
WELL NO. 10

LONGHORN LANDING STRIP

75' X 3500'

CORYELL COUNTY

16th STREET

18th STREET

Robert J. Huston, *Chairman*
R. B. "Ralph" Marquez, *Commissioner*
John M. Baker, *Commissioner*
Jeffrey A. Saitas, *Executive Director*



TEXAS NATURAL RESOURCE CONSERVATION COMMISSION

Protecting Texas by Reducing and Preventing Pollution

May 1, 2000

US ARMY/FORT HOOD
GENERAL DELIVERY
FORT HOOD, TEXAS 76544

Subject: Completion of Post-Closure Care Period and Permit Expiration, Permit No. 01284

Dear Landfill Permittee:

A recent research of the Texas Natural Resource Conservation Commission (TNRCC), Municipal Solid Waste central records reveal the subject municipal solid waste (MSW) facility has completed the post-closure care maintenance requirements established by rules in effect during the operational life of this site. Therefore, this site is eligible to exit the post-closure care maintenance period.

As this site has satisfied all post-closure care maintenance requirements, the permit for this facility has now expired by its own terms. No additional waste disposal activities may be conducted at this site unless they are authorized by a new MSW permit.

Your cooperation in maintaining this closed site is greatly appreciated. Any future maintenance problems that arise are the Permittee's responsibility to correct as soon as practical.

If you have any questions concerning this matter, please contact the Municipal Solid Waste Permits Section at 512/239-6724.

Sincerely,

A handwritten signature in black ink, appearing to read "Dorca Zaragoza-Stone".

Dorca Zaragoza-Stone, Manager
MSW Permits Section
Waste Permits Division

DZS/lcs

Sites Removed From Inventory

CORYELL COUNTY

**Closed Municipal Solid Waste Inventory
Database Revision Form**

COG Name: Central Texas Council of Governments

Date: July 9, 2002

Site Number*	Type of Revision (Check One)		County	Data	Reason for Revision
	Data Change	New Data			
U2567	X		Coryell County	U2567 is being removed from Inventory	Site U2567 is the same as site P1284. P1284 can be found under Fort Hood in the Inventory

** For previously unidentified sites, please assign temporary site numbers in the form of: COG code/T (for temporary)/three-digit unit number (beginning with 001). For example, 18T001, 18T002, 18T003, etc. In administering the statewide database, TNRCC will subsequently assign permanent tracking numbers.*

CORYELL COUNTY

Closed Landfill Inventory
Central Texas Council of Governments

Site Identification

County	Coryell County
	Fort Hood
Permitted Site Number	U2567

Location and Boundary

COG Confidence Level	50%
Latitude	31.3675 N
Longitude	97.6725 W
Narrative Location Description	North of 16 th Street Near the bend in 18 th street, North Fort Hood
Boundary Description	See Texas Dep. Of Health Letter Feb. 1981
Basic Land Units	Tract 010500, Block 1000

Land Use	Vacant
-----------------	--------

Ownership Information

Current Property Owner(s)	US Army
Current Owner(s) Address	US Army; Ft. Hood, TX 76544
Dates of Ownership	Unknown
Land Unit	3.68 acres

Site History and Current Status

Previous Owner(s)	Unknown
Dates of Operation	7/01/76 – 9/23/88
Enforcement History	Unknown
Types of Waste Disposed	Metal, Wood, Plastic, and Building Material, Household Waste

Reference Attachments

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Texas Department of Health Final Cover Inspection Sept. 1988
RCRA Facility Investigation Report Dec. 1995 with map
Status of Landfill Research Form Oct. 1999
Aerial Map
Fort Hood Data Sheet with map
TNRCC Letter Regarding Post-Closure Care May 2000

Comments:

Same as site P1284

ft D
State Department of Health

AUSTIN

TEXAS

INTER-OFFICE

FROM Pat Adell, P. E.,
Region V

Charles K. Foster, P. E., Director
TO Environmental and Consumer Health Protection

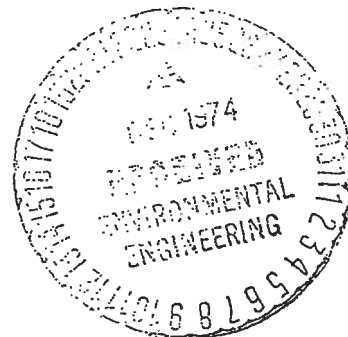
SUBJECT Solid Waste Inspection - Fort Hood - Coryell County

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The operation of the landfill appeared excellent as a daily cover is applied. The only problem was that very little consideration was given to the soils geology of the site. Mr. Hylands and the Writer impressed the importance of soils report on Mr. Davis, Engineer in charge of the landfill, among other things. During the visit Mr. Davis learned that the Army had a special service out of Georgia that would come in and aid bases in the selection of landfill sites. When the present site is used up in about a year, a full study will be completed before a new site is started.

This is for the Department's information.

PA/ba



SIGNED

Pat Adell, P.E.

DATE

12-20-74

CORYELL COUNTY

FORM NO. AG-2-A

p1284



Texas Department of Health

Robert Bernstein, M.D., F.A.C.P.
Commissioner

1100 West 4th Street
Austin, Texas 78756
(512) 458-7111

A. M. Donnell, Jr., M.D., M.P.H., F.A.C.P.
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Madore Roweth
Barbara J. Stover

Permit No. 1284
Coordinates: N 31° 21.10' W 97° 41.10'

PERMIT FOR A MUNICIPAL SOLID WASTE FACILITY
Issued under provisions of Article 4677-7, Vernon's
Texas Civil Statutes, and the Texas Department of Health's
"Municipal Solid Waste Management Regulations"

<u>Permittee</u>	<u>Site Owner</u>
U.S. Army, Fort Hood	U.S. Army, Fort Hood
Fort Hood, Texas 76544	Fort Hood, Texas 76544

Legal Description of Site: The legal description as submitted with the application is hereby made a part of this permit.

Size and Location of Site: The 3.688-acre site is located 200 feet east of 18th Street and 600 feet north of 16th Street within North Fort Hood in Coryell County.

Operational Classification of Site: Type III

Waste Disposal Methods Used at Site: Trench method of disposal with compaction of solid waste and cover with a minimum of six (6) inches of compacted earth not less often than once each month.

Description of Waste Materials Processed at Site: Solid waste under the regulatory jurisdiction of the Texas Department of Health, when disposed of or processed in accordance with the Department's "Municipal Solid Waste Management Regulations".

Findings of Fact and Conclusions of Law: Attached hereto and made a part hereof.

Standard Provision: Acceptance of this permit constitutes an acknowledgement that the permittee will comply with all of the terms, provisions, conditions, limitations and other restrictions embodied in this permit; with the "Municipal Solid Waste Management Regulations" of the Texas Department of Health; and with the pertinent laws of the State of Texas.

Special Provisions: See Attachment - "Special Provisions for Municipal Solid Waste Permit No. 1284".

This permit will be valid until cancelled or revoked by the Commissioner of Health of the Texas Department of Health or until the site is completely filled and rendered unusable, whichever occurs first.

Given under my Hand and Seal of Office at Austin, Texas on the 9th day of February 1951.

Robert Bernstein, M.D., F.A.C.P.
Commissioner of Health

SPECIAL PROVISIONS FOR MUNICIPAL SOLID WASTE PERMIT NO. 1284

- Property Rights:** It is the responsibility of the herein-named permittee to possess or acquire a sufficient interest in or right to the use of the property herein described for the purposes for which this permit is issued. The granting of this permit does not convey any property rights or interest in either real or personal property, nor does it authorize any injury to private property or invasion of personal rights, nor any infringement of Federal, State or local laws or regulations outside the scope of the authority under which this permit is issued.
- B. **Surface Water Protection:** Rainfall runoff within the landfill trenches or area that has become contaminated by solid waste shall not be discharged from the site unless authorized by the Texas Department of Water Resources.
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1. Any ponded water at the site must not become a source of obnoxious odors.
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- F. **Site Closing:** Site completion and closure procedures shall be in accordance with the Department's "Municipal Solid Waste Management Regulations."
- G. **Safety Bond:** Not required.

LEGAL DESCRIPTION OF TRACT
OF LAND FOR USE BY
U.S. ARMY, FORT HOOD
AS A SOLID WASTE DISPOSAL SITE

STATE OF TEXAS

I

COUNTY OF CORYELL

I

Described herein is a tract of land in the State of Texas, County of Coryell. Said strip being out of the Lucian Hannum Survey 1-202 and being a part of the original 157,588.023 Acre Camp Hood Acquisition. Said strip is a portion of the Fort Hood Military Reservation released from state authority to exclusive Federal jurisdiction in the deed cession agreement, approved by the state legislature and signed by the Governor Elect, A. SHIVERS, 6 Sept. 1950.

From a cedar post which bears approximately 460 feet in a northwesterly direction along the center line of a well maintained gravel road from the northerly intersection of 15th Street and 16th Street, both streets being paved, platted, and recorded on Federal real property records and being within the North Fort Hood cantonment area; then N 63° 30' E, 104 feet along the center line of an overhead telephone utility line. Said post being the southwest corner of existing North Fort Hood Landfill.

Then proceed to a railroad spike with an "X" cut which is along the overhead telephone utility line S 63° 30' W, approximately 24 feet. Said point being the most easterly point of the landfill addition and the POINT OF BEGINNING.

THENCE S 67° 58' 25.5" W, 416.13' to a point. Said point being the most southerly point of this addition.

THENCE N 25° 47' 58.0", 405.193' to a point. Said point being the most westerly point of the addition.

THENCE N 68° 23' 56.0" E, 381.508' to a point. Said point being a railroad spike with an "X" cut and the most northerly point of the addition.

THENCE S 30° 42' 09.1" E, 406.125' to the point of beginning, containing 3.688 acres more or less.

cc: Coryell County Health Officer

CORYELL COUNTY

FINDINGS OF FACT

(1) An application for a permit to operate an existing Type III municipal solid waste landfill, along with all necessary supporting data, was properly submitted by the applicant; due notice was given; and a public hearing was held at Room 2, Building 4211, Directorate of Facilities Engineering in Fort Hood, Texas on Tuesday, November 25, 1980; and all parties were given an opportunity to appear, be represented by counsel, and present testimony or other evidence either for or against the granting of a permit.

(2) The physical conditions existing at the subject site, along with the recommended special provisions transmitted herewith, render the site suitable for use as a landfill.

(3) Use of the subject site as a Type III municipal solid waste landfill is compatible with the present uses being made of the surrounding land.

CONCLUSIONS OF LAW

(1) All procedural requirements relative to notice, hearing and due process of law were met.

(2) The subject site, if operated in compliance with the Solid Waste Disposal Act (Article 4477-7, V.A.C.S.), the Texas Department of Health Municipal Solid Waste Management Regulations and the Special Provisions which accompany the permit transmitted herewith, will not adversely affect the public health or create a public nuisance.

(3) Operation of Type III municipal solid waste landfill is a proper land use of the property described in the attached permit

SURVEILLANCE AND ENFORCEMENT BRANCH
DIVISION OF SOLID WASTE MANAGEMENT
TEXAS DEPARTMENT OF HEALTH

Site # 1284
Reg # 1
County CORYELL

Site Name N. FT. HOOD LE
Inspection Date 9-23-88

COMMENTS

IMPROVEMENTS

5.334 FINAL COVER HAS BEEN APPLIED TO THE ENTIRE SITE, NO EXPOSED WASTES, NO SETTLEMENT CONCERNING.

ADDITIONAL COVER MATERIAL HAS BEEN STOCKPILED ON-SITE, AWAITING SPREADING. THIS MATERIAL CAME FROM DITCH WORK DONE BY A CONTRACTOR.

MR. BODKIN INFORMED ME THAT THIS SITE, AS WELL AS ALL KNOWN CLOSED LANDFILLS ON FT. HOOD, ARE TO BE PLACED ON THE MASTER PLAN. THIS ACTION WILL SATISFY THE REQUIREMENT FOR AN AFFIDAVIT TO THE PUBLIC.

Suggested type of letter GENERAL COMPLIANCE

TDH Representative's Signature

Shirley Myers

Date 9-23-88

CORYELL COUNTY

(SEE INSTRUCTIONS)

**FINAL
RCRA FACILITY INVESTIGATION
for
Fort Hood
Sites FH-002, -013, -014, and -015
Abandoned Sanitary Landfills 2, 13, 14, and 15**

**Prepared for
U.S. Army Corps of Engineers
Fort Worth District**

DECEMBER 1995

**Prepared by
Black & Veatch Waste Science, Inc.
Overland Park, Kansas**

**Contract No. DACA47-93-D-0035
BVWS Project No. 40544**

CORYELL COUNTY

8.1 Sites FH-002, -013, -014, and -015, Abandoned Sanitary Landfills 2, 13, 14, and 15

This section includes the RFI work plan for abandoned Sanitary Landfills 2, 13, 14, and 15. This section is organized as follows:

- Unit Operation and History.
- Topography and Hydrology.
- Site Specific Geology.
- Contaminant Source Information.
- Data Gaps.
- Potential Contaminant Pathways.
- Investigation Plan.
- Health and Safety Plan.
- Schedule.

8.1.1 Unit Operation and History

Four solid waste management units (SWMUs), abandoned Sanitary Landfills 2, 13, 14, and 15, were combined because of their proximity and the undefined boundaries of all four units. Site FH-021 is also located within this area. It contains used vehicular lead-acid batteries. However, it has been separated from this grouping of sites because it has significantly different waste material. The site-specific work plan for Site FH-021 is included in Section 8.14.

Site FH-002 was a trench-type landfill, with each trench approximately 15 feet wide by 15 feet deep by 225 feet long. It is approximately 6 acres in size and had a life expectancy of 5 years beginning July 1976. The actual lifespan is unknown. This landfill was operated approximately once each week during its life. It had a specified area that received construction demolition wastes, primarily rubble. The contractor that operated the landfill was responsible for daily earth cover and for policing the overall area.

Sites FH-013, -014, and -015 were trench-type landfills that received municipal solid waste. FH-013 operated between 1973 and 1975, FH-014 operated between 1975 and 1977, and FH-015 operated between 1977 and 1979. Based on the Figure 8.1-1, FH-013 is estimated to be approximately 2.8 acres, FH-014 is approximately 3.2 acres, and FH-015 is approximately 1.4 acres. All four units are closed and are currently inactive (Hood 1991).

These three formations are referred to as the Trinity Group aquifer. Limited amounts of highly mineralized groundwater are capable of being produced from the Paluxy and Glen Rose formations. The Travis Peak aquifer is the primary water-bearing unit in the area.

8.1.4 Contaminant Source Information

CD waste

Site FH-002 contains construction and demolition debris, primarily concrete rubble. No specific information was found that would define the specific construction or demolition activities on Fort Hood that generated this waste. However, this type of waste is typically made up of rubble, metal, wood, plastics, and other waste building materials. This was also an uncontrolled disposal site, so the potential exists for disposal of paint, solvents, and waste oils.

The waste in Sites FH-013, -014, and -015 is anticipated to contain municipal solid waste (MSW). MSW typically includes wastes from residential households, commercial facilities, and light industrial facilities. The most common elements found in MSW include newsprint, paper, yard wastes, diapers, textiles, plastics, food wastes, and wood. Chemical constituents and characteristics of MSW landfill leachate commonly include organic nitrogen, ammonia nitrogen, nitrates, total phosphorus, organic phosphorus, alkalinity, corrosivity (acidic at $\text{pH} < 2$, basic at $\text{pH} > 12$), calcium, magnesium, potassium, sodium, chloride, sulfate, and total iron. Other constituents frequently found in an uncontrolled landfill such as these include cadmium, zinc, chromium, copper, nickel, lead, and volatile organic compounds resulting from disposal of paint, solvents, and waste oils. Sampling at these landfills will focus on determining the presence of organics and metals.

8.1.5 Data Gaps

No previous investigations have been performed at any of the landfill sites to characterize the material in the landfills or determine if there has been a release of hazardous wastes from the landfills. Basic information is needed to determine if materials disposed of in all the landfills have released contaminants into the soil around the landfills. Since there have been no previous soil borings at any of these landfill sites, information is also needed to define the geology, determine whether groundwater is present below the landfills, and determine whether the groundwater, if present, is contaminated.

Chris Reynolds

Closed Municipal Solid Waste Inventory

CTC06

Permit #

U2567

Site Name

FH-002

Site Location

East side of 18th Street and north of 16th Street past on Old North Ft. Hood

East of Hwy 36

Type Facility

Municipal trench type

Site Lat.

N 31*22.030'

Site Long.

W 97*40.421'

Nearest City

Gatesville

County

50

Population served

nd

Tons/day

nd

Date site opened - July, 1976

Date site closed - unknown est. 1981

Size in acres - 6 acres

Household - yes

Const. + Demo. - yes

Industrial

Tires

Agriculture

Brush - yes

Other

Hazardous possibly!

Legal Actions - no

Maximum Depth of fill - 15'

Final Cover thickness - nd

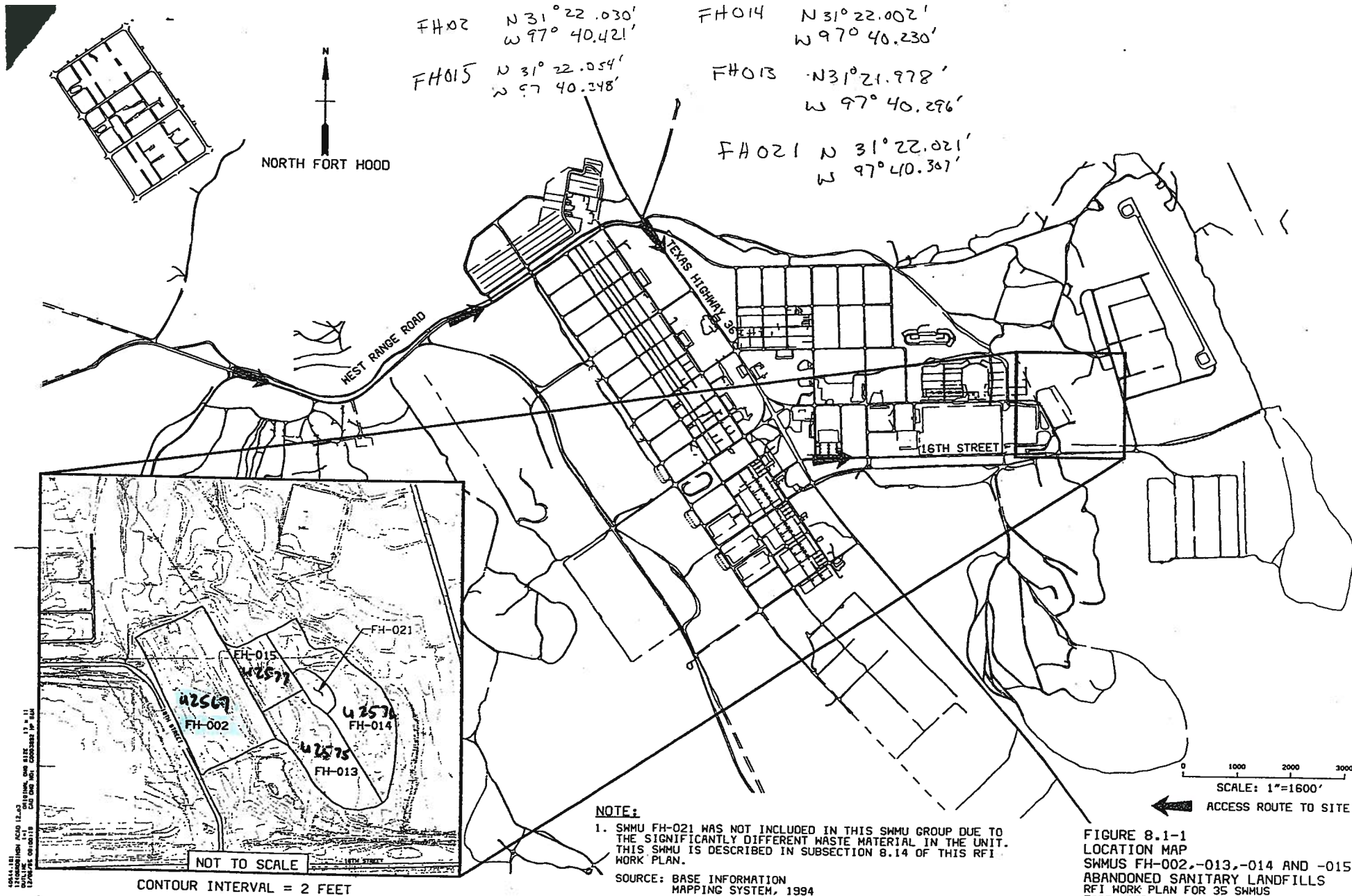
Comments - trench is 15' x 15' x 225' long / Site operated weekly/
waste is rubble, metal, wood, plastics and other waste building materials

From:

Fred



Coryell County



CORYELL COUNTY

Status of Landfill Research Form

103
✓

Permit No. 1284 Issue Date 2/9/81 County Coryell Permitted Acres 3.688

Technical Pkg Submitted for Permit? Yes ☒ File Loc. Microfiche No ☒

Date Closed to Waste Recpt. 11/86 File Loc. MSW PA # 1284 1992-3/6/87

Date of Final Cover Inspection None File Loc. _____

*Date Affidavit(s) Approved None Acreage Closed _____
(If none, please indicate so)

File Loc. _____

Closure Plan Exists? Yes _____ File Loc. _____ No ☒

Date Closure Plan Approved None File Loc. _____

Date(s) Post Closure Started No date File Loc. _____

Date(s) Post Closure Ends 1993 File Loc. Microfiche

Length of Post Closure Period: 5 yrs. _____ 30 yrs. _____ Other (no. of yrs.) _____

*File Closed Date None File Loc. _____
(If none, please indicate so)

*Date of "Inactive Status" Acknowledgment Letter None File Loc. _____
(If none, please indicate so)

Name of Researcher Lara Sarey

Date Research Conducted 10/27/99

* copy needed

After 1990-1991 time frame not too
much useful closure information

* Comments made on inspection report (9/23/88)
stated that information must be placed on master plan therefore 10

CORYELL COUNTY

12841

CORYELL COUNTY

SITE NUMBER : 19

CURRENT STATUS : Abandoned Landfill

PERIOD OF ACTIVITY :

See "excerpts" below.

LOCATION :

North of 16th Street near the bend in 18th Street, North Fort Hood. See General Site Map Sheet # 5.

AERIAL PHOTOGRAPHY REFERENCES :

June 21, 1962, Plates 16, and 17 (7).

Photobase Map, Sheet 5, December 19, 1982 (3).

EXCERPTS FROM "INSTALLATION ASSESSMENT OF FORT HOOD, TEXAS" (4) :

"Site 2 is also a trench-type landfill (4.5m by 4.5m by 7.5m) with a fenced-in working area, located in the vicinity of 16th and 18th Streets. This landfill is approximately 3.6-ha large and is operated approximately once weekly. It has a life expectancy of 5 years from July 1976, when it was established. This landfill also has a specified area to receive demolition-type materials (rubble). The contractor-operator is responsible for daily earth-covering of filled material as well as policing the area."

"At the time of the Team's ground tour, the landfill was open-ended, containing approximately 0.6m of green water, to allow rainwater and groundwater to drain to a nearby surface stream draining into the Leon River. The Leon River flows to Belton Lake, a potable water source for FH and the city of Killeen. In March of 1975, USAEHA conducted a study of potential sanitary landfill sites at FH. At that time, USAEHA recommended that this site not be used as a landfill, due to the fact that "the potential is too great for leachate reaching the Leon River..." *

* "This landfill has subsequently been inspected by the State of Texas and was found to be in compliance with regulations."

Site # 13. "1973-1975" **

Site # 14. "1975-1977" **

Site # 15. "1977-1979" **

SITE NUMBER : 19 (continued)

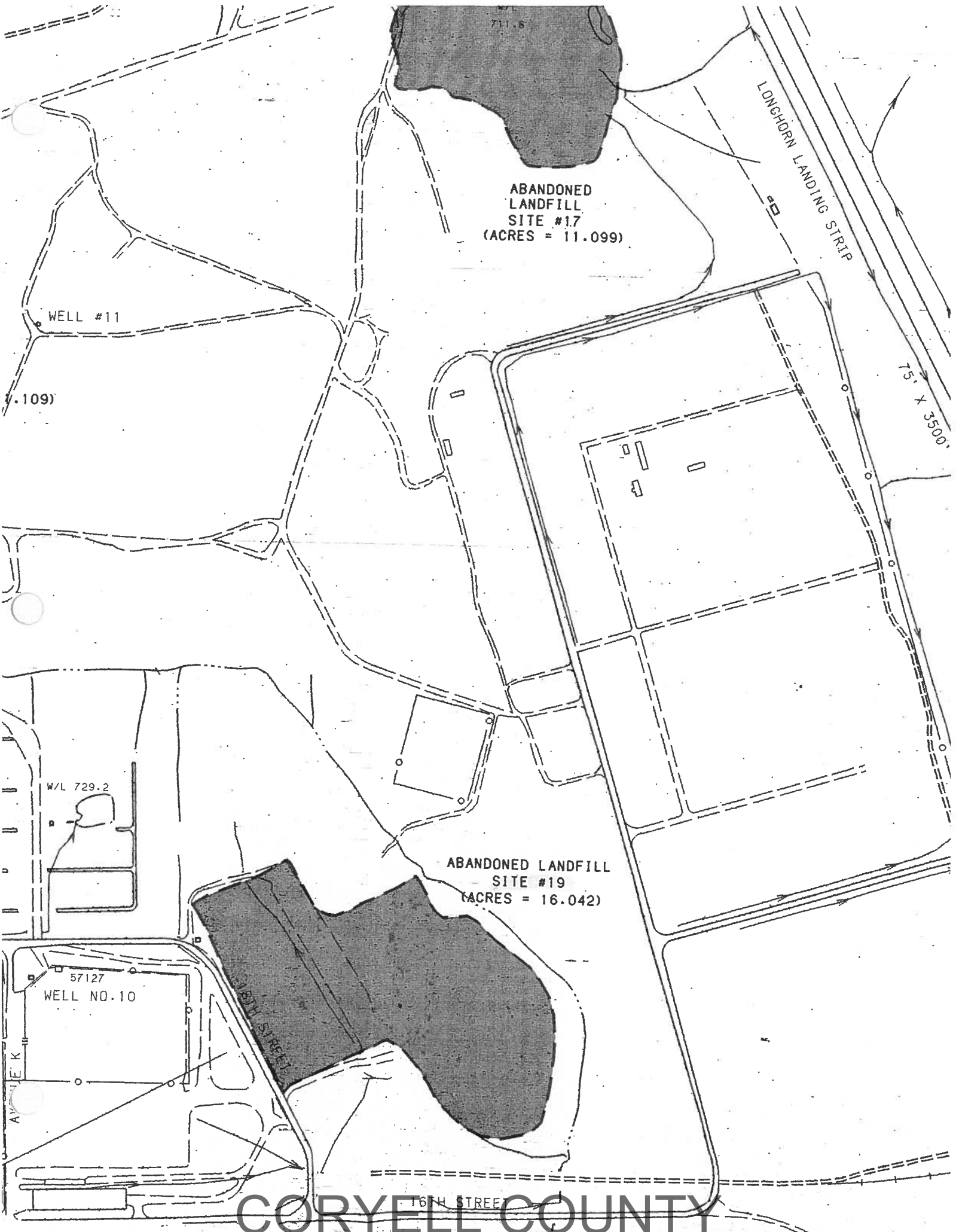
** "Landfills operated by the trench method which reportedly contain general municipal and domestic wastes."

GEOLOGICAL BORING LOG REFERENCES :

No on-site log data available.

COMMENTS / CONCLUSIONS :

Landfill operations within this site were divided into four areas, in the June, 1982 "Installation Assessment of Fort Hood, Texas". The limits defined were based on this study and the 1982 photography. This site contains approximately 16 acres.



ABANDONED
LANDFILL
SITE #17
(ACRES = 11.099)

WELL #11

7.109)

LONGHORN LANDING STRIP

75' x 3500'

W/L 729.2

ABANDONED LANDFILL
SITE #19
(ACRES = 16.042)

57127
WELL NO.10

16TH STREET
CORYELL COUNTY

Robert J. Huston, *Chairman*
R. B. "Ralph" Marquez, *Commissioner*
John M. Baker, *Commissioner*
Jeffrey A. Saitas, *Executive Director*



TEXAS NATURAL RESOURCE CONSERVATION COMMISSION

Protecting Texas by Reducing and Preventing Pollution

May 1, 2000

US ARMY/FORT HOOD
GENERAL DELIVERY
FORT HOOD, TEXAS 76544

Subject: Completion of Post-Closure Care Period and Permit Expiration, Permit No. 01284

Dear Landfill Permittee:

A recent research of the Texas Natural Resource Conservation Commission (TNRCC), Municipal Solid Waste central records reveal the subject municipal solid waste (MSW) facility has completed the post-closure care maintenance requirements established by rules in effect during the operational life of this site. Therefore, this site is eligible to exit the post-closure care maintenance period.

As this site has satisfied all post-closure care maintenance requirements, the permit for this facility has now expired by its own terms. No additional waste disposal activities may be conducted at this site unless they are authorized by a new MSW permit.

Your cooperation in maintaining this closed site is greatly appreciated. Any future maintenance problems that arise are the Permittee's responsibility to correct as soon as practical.

If you have any questions concerning this matter, please contact the Municipal Solid Waste Permits Section at 512/239-6724.

Sincerely,

A handwritten signature in cursive script, reading "Dorca Zaragoza-Stone".

Dorca Zaragoza-Stone, Manager
MSW Permits Section
Waste Permits Division

DZS/lcs

**Closed Municipal Solid Waste Inventory
Database Revision Form**

COG Name: Central Texas Council of Governments

Date: July 9, 2002

Site Number*	Type of Revision (Check One)		County	Data	Reason for Revision
	Data Change	New Data			
U2575	X		Coryell County	U2575 is being removed from Inventory	Site U2575 is the same as site P1284. P1284 can be found under Fort Hood in the Inventory

* For previously unidentified sites, please assign temporary site numbers in the form of: COG code/T (for temporary)/three-digit unit number (beginning with 001). For example, 18T001, 18T002, 18T003, etc. In administering the statewide database, TNRCC will subsequently assign permanent tracking numbers.

CORYELL COUNTY

Closed Landfill Inventory
Central Texas Council of Governments

Site Identification

County	Coryell County
	Fort Hood
Permitted Site Number	U2575

Location and Boundary

COG Confidence Level	50%
Latitude	31.3675 N
Longitude	97.6725 W
Narrative Location Description	North of 16 th Street Near the bend in 18 th street, North Fort Hood
Boundary Description	See Texas Dept. of Health Letter Feb. 1981
Basic Land Units	Tract 010500, Block 1000

Land Use	Vacant
-----------------	--------

Ownership Information

Current Property Owner(s)	US Army
Current Owner(s) Address	US Army; Ft. Hood, TX 76544
Dates of Ownership	Unknown
Land Unit	3.68 acres

Site History and Current Status

Previous Owner(s)	Unknown
Dates of Operation	7/01/76 – 9/23/88
Enforcement History	Unknown
Types of Waste Disposed	Metal, Wood, Plastic, and Building Material, Household Waste

Reference Attachments

Texas Department of Health Memo Regarding Inspection
Dec. 1974
Texas Department of Health Letter Regarding Permit Application Feb. 1981
Texas Department of Health Final Cover Inspection Sept. 1988
RCRA Facility Investigation Report Dec. 1995 with map
Status of Landfill Research Form Oct. 1999
Aerial Map
Fort Hood Data Sheet with map
TNRCC Letter Regarding Post-Closure Care May 2000

Comments:

Same as site P1284

State Department of Health

AUSTIN

TEXAS

INTER-OFFICE

Pat Adell, P. E.,
Region V

Charles K. Foster, P. E., Director

FROM Pat Adell, P. E., Region V TO Environmental and Consumer Health Protection

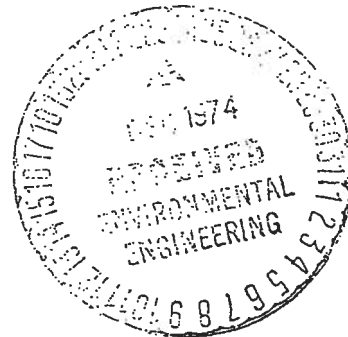
SUBJECT Solid Waste Inspection - Fort Hood - Coryell County

On November 14, 1974, the Writer inspected the Solid Waste Disposal Site serving Fort Hood at the invitation of Tom Hylands, Environmental Protection Agency, who was contacted during the inspection. Colonel Thomasett, Facilities Engineer, was contacted during the inspection, *also*.

The operation of the landfill appeared excellent as a daily cover is applied. The only problem was that very little consideration was given to the soils geology of the site. Mr. Hylands and the Writer impressed the importance of soils report on Mr. Davis, Engineer in charge of the landfill, among other things. During the visit Mr. Davis learned that the Army had a special service out of Georgia that would come in and aid bases in the selection of landfill sites. When the present site is used up in about a year, a full study will be completed before a new site is started.

This is for the Department's information.

PA/ba



SIGNED

Pat Adell, P.E.

DATE

12-20-74

CORYELL COUNTY

FORM NO. 10-2-A

p1284



Texas Department of Health

Robert Bernstein, M.D., F.A.C.P.
Commissioner

1100 West 49th Street
Austin, Texas 78756
(512) 458-7111

A. M. Donnell, Jr., M.D., M.P.H., F.A.C.P.
Deputy Commissioner

Members of the Board

William J. Foege, Chairman
Lawrence M. Nicksa, Vice-Chair
Roderic M. Bell, Secretary
Johnnie M. Benson
H. Eugene Brown
Sister Bernard Marie Burroughs
Ramon Cazo
Charles Max Cole
Francis A. Conley
Sam M. Durr
Raymond G. Garrett
Bob D. Glass
Blanchard T. Hallum
Robert U. Houston
Jon N. Lyle
Richard W. Ragsdale
Madore Ranshaw
Barbara T. Stover

Permit No. 1284

Coordinates: N 31° 21.10' W 97° 41.10'

PERMIT FOR A MUNICIPAL SOLID WASTE FACILITY
Issued under provisions of Article 4677-7, Vernon's
Texas Civil Statutes, and the Texas Department of Health's
"Municipal Solid Waste Management Regulations"

Permittee

U.S. Army, Fort Hood
Fort Hood, Texas 76544

Site Owner

U.S. Army, Fort Hood
Fort Hood, Texas 76544

Legal Description of Site: The legal description as submitted with the application is hereby made a part of this permit.

Size and Location of Site: The 3.688-acre site is located 200 feet south of 18th Street and 600 feet north of 16th Street within North Fort Hood in Coryell County.

Operational Classification of Site: Type III

Waste Disposal Methods Used at Site: Trench method of disposal with compaction of solid waste and cover with a minimum of six (6) inches of compacted earth not less often than once each month.

Description of Waste Materials Processed at Site: Solid waste under the regulatory jurisdiction of the Texas Department of Health, when disposed of or processed in accordance with the Department's "Municipal Solid Waste Management Regulations".

Findings of Fact and Conclusions of Law: Attached hereto and made a part hereof.

Standard Provision: Acceptance of this permit constitutes an acknowledgement that the permittee will comply with all of the terms, provisions, conditions, limitations and other restrictions embodied in this permit; with the "Municipal Solid Waste Management Regulations" of the Texas Department of Health; and with the pertinent laws of the State of Texas.

Special Provisions: See Attachment - "Special Provisions for Municipal Solid Waste Permit No. 1284".

This permit will be valid until cancelled or revoked by the Commissioner of Health of the Texas Department of Health or until the site is completely filled and rendered unusable, whichever occurs first.

Given under my Hand and Seal of Office at Austin, Texas on the 9th day of February 1981.

Robert Bernstein
Robert Bernstein, M.D., F.A.C.P.
Commissioner of Health

CORYELL COUNTY

SPECIAL PROVISIONS FOR MUNICIPAL SOLID WASTE PERMIT NO. 1284

Property Rights: It is the responsibility of the herein-named permittee to possess or acquire a sufficient interest in or right to the use of the property herein described for the purposes for which this permit is issued. The granting of this permit does not convey any property rights or interest in either real or personal property, nor does it authorize any injury to private property or invasion of personal rights, nor any infringement of Federal, State or local laws or regulations outside the scope of the authority under which this permit is issued.

- B. **Surface Water Protection:** Rainfall runoff within the landfill trenches or area that has become contaminated by solid waste shall not be discharged from the site unless authorized by the Texas Department of Water Resources.
- C. **Groundwater Protection:** Inasmuch as data submitted with the application indicates some natural subsoils in this site do not meet the permeability requirements of the Department's "Municipal Solid Waste Management Regulations," the permittee shall provide such man-made lining as may be necessary. Within 90 days after the date of issuance of this permit, the permittee shall submit to the Department a written soils quality control program which outlines the test procedures, frequency of professional evaluation, and methods for lining to be followed to assure continuous compliance with the aforesaid regulations. The soils quality control program shall be keyed to the site development plan for area or trench identification. In accepting this permit, the permittee agrees to follow the soils quality control program submitted unless deviation is authorized by the Department in writing.
- D. **Odor and Air Pollution Control:**
1. Any ponded water at the site must not become a source of obnoxious odors.
 2. All applicable Texas Air Control Board regulations concerning air pollution control shall be observed.
- E. **Site Development and Operation:** Site development and operation shall be in accordance with the site plans and procedures submitted with the permit application and in accordance with the Department's "Municipal Solid Waste Management Regulations." Any significant deviation from such plans and procedures must have prior approval by the Department.
- F. **Site Closing:** Site completion and closure procedures shall be in accordance with the Department's "Municipal Solid Waste Management Regulations."
- G. **Surety Bond:** Not required.

LEGAL DESCRIPTION OF TRACT
OF LAND FOR USE BY
U.S. ARMY, FORT HOOD
AS A SOLID WASTE DISPOSAL SITE

STATE OF TEXAS

I

COUNTY OF CORYELL

I

Described herein is a tract of land in the State of Texas, County of Coryell. Said strip being out of the Lucian Mannum Survey 1-202 and being a part of the original 157,588.023 Acre Camp Hood Acquisition. Said strip is a portion of the Fort Hood Military Reservation released from state authority to exclusive Federal jurisdiction in the deed cession agreement, approved by the state legislature and signed by the Governor Elect, A. SHIVERS, 6 Sept. 1930.

From a cedar post which bears approximately 460 feet in a northwesterly direction along the center line of a well maintained gravel road from the northerly intersection of 15th Street and 16th Street, both streets being paved, platted, and recorded on Federal real property records and being within the North Fort Hood cantonment area; then N 63° 30' E, 104 feet along the center line of an overhead telephone utility line. Said post being the southwest corner of existing North Fort Hood Landfill.

Then proceed to a railroad spike with an "X" cut which is along the overhead telephone utility line S 63° 30' W, approximately 24 feet. Said point being the most easterly point of the landfill addition and the POINT OF BEGINNING.

THENCE S 67° 58' 25.5" W, 416.13' to a point. Said point being the most southerly point of this addition.

THENCE N 25° 47' 58.0", 405.193' to a point. Said point being the most westerly point of the addition.

THENCE N 68° 23' 56.0" E, 381.508' to a point. Said point being a railroad spike with an "X" cut and the most northerly point of the addition.

THENCE S 30° 42' 09.1" E, 406.125' to the point of beginning, containing 3.688 acres more or less.

cc: Coryell County Health Officer

CORYELL COUNTY

FINDINGS OF FACT

(1) An application for a permit to operate an existing Type III municipal solid waste landfill, along with all necessary supporting data, was properly submitted by the applicant; due notice was given; and a public hearing was held at Room 2, Building 4211, Directorate of Facilities Engineering in Fort Hood, Texas on Tuesday, November 25, 1980; and all parties were given an opportunity to appear, be represented by counsel, and present testimony or other evidence either for or against the granting of a permit.

(2) The physical conditions existing at the subject site, along with the recommended special provisions transmitted herewith, render the site suitable for use as a landfill.

(3) Use of the subject site as a Type III municipal solid waste landfill is compatible with the present uses being made of the surrounding land.

CONCLUSIONS OF LAW

(1) All procedural requirements relative to notice, hearing and due process of law were met.

(2) The subject site, if operated in compliance with the Solid Waste Disposal Act (Article 4477-7, V.A.C.S.), the Texas Department of Health Municipal Solid Waste Management Regulations and the Special Provisions which accompany the permit transmitted herewith, will not adversely affect the public health or create a public nuisance.

(3) Operation of Type III municipal solid waste landfill is a proper land use of the property described in the attached permit

SURVEILLANCE AND ENFORCEMENT BRANCH
DIVISION OF SOLID WASTE MANAGEMENT
TEXAS DEPARTMENT OF HEALTH

Site # 1284
Reg # 1
County CORYELL

Site Name N. F. HOOD LE
Inspection Date 9-23-88

COMMENTS

IMPROVEMENTS

5.33.4 FINAL COVER HAS BEEN APPLIED TO THE ENTIRE SITE, NO EXPOSED WASTES, NO IN-THEMENT COLLECTION.

ADDITIONAL COVER MATERIAL HAS BEEN STOCKPILED ON-SITE, AWAITING SPREADING. THIS MATERIAL CAME FROM DITCH LOCK DONE BY A CONTRACTOR.

MR DODKIN INFORMED ME THAT THIS SITE, AS WELL AS ALL KNOWN CLOSED LANDFILLS ON FT HOOD, ARE TO BE PLACED ON THE MASTER PLAN. THIS ACTION WILL SATISFY THE REQUIREMENT FOR AN AFFIDAVIT TO THE PUBLIC.

Suggested type of letter GENERAL COMPLIANCE

TDH Representative's Signature Edward J. Myers

Date 9-23-88

CORYELL COUNTY

(SEE INSTRUCTIONS)

**FINAL
RCRA FACILITY INVESTIGATION
for
Fort Hood
Sites FH-002, -013, -014, and -015
Abandoned Sanitary Landfills 2, 13, 14, and 15**

**Prepared for
U.S. Army Corps of Engineers
Fort Worth District**

DECEMBER 1995

**Prepared by
Black & Veatch Waste Science, Inc.
Overland Park, Kansas**

**Contract No. DACA47-93-D-0035
BVWS Project No. 40544**

CORYELL COUNTY

8.1 Sites FH-002, -013, -014, and -015, Abandoned Sanitary Landfills 2, 13, 14, and 15

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- Topography and Hydrology.
- Site Specific Geology.
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- Potential Contaminant Pathways.
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Four solid waste management units (SWMUs), abandoned Sanitary Landfills 2, 13, 14, and 15, were combined because of their proximity and the undefined boundaries of all four units. Site FH-021 is also located within this area. It contains used vehicular lead-acid batteries. However, it has been separated from this grouping of sites because it has significantly different waste material. The site-specific work plan for Site FH-021 is included in Section 8.14.

Site FH-002 was a trench-type landfill, with each trench approximately 15 feet wide by 15 feet deep by 225 feet long. It is approximately 6 acres in size and had a life expectancy of 5 years beginning July 1976. The actual lifespan is unknown. This landfill was operated approximately once each week during its life. It had a specified area that received construction demolition wastes, primarily rubble. The contractor that operated the landfill was responsible for daily earth cover and for policing the overall area.

Sites FH-013, -014, and -015 were trench-type landfills that received municipal solid waste. FH-013 operated between 1973 and 1975, FH-014 operated between 1975 and 1977, and FH-015 operated between 1977 and 1979. Based on the Figure 8.1-1, FH-013 is estimated to be approximately 2.8 acres, FH-014 is approximately 3.2 acres, and FH-015 is approximately 1.4 acres. All four units are closed and are currently inactive (Hood 1991).

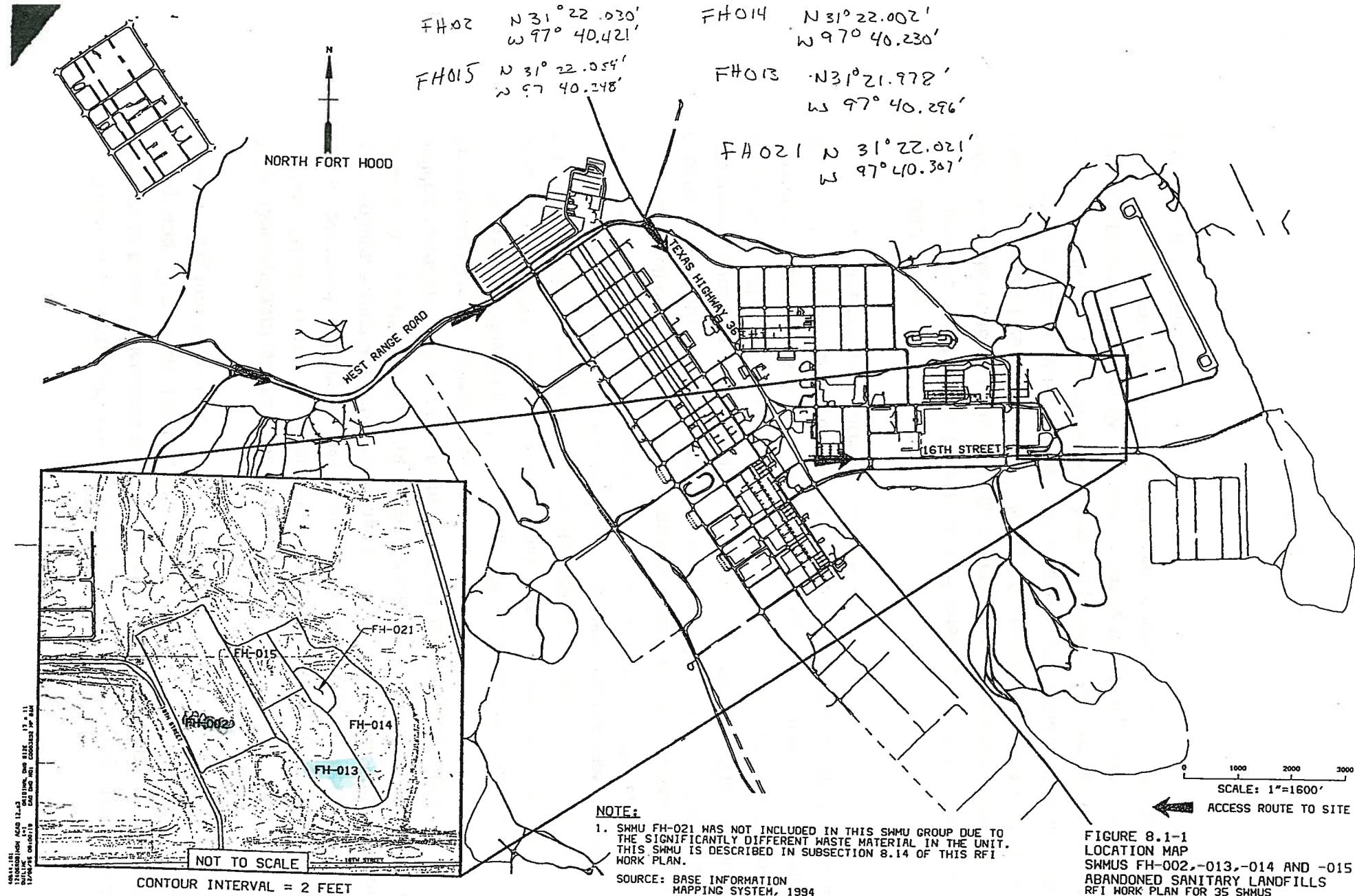


FIGURE 8.1-1
 LOCATION MAP
 SWMUS FH-002,-013,-014 AND -015
 ABANDONED SANITARY LANDFILLS
 RFI WORK PLAN FOR 35 SWMUS
 FORT HOOD, TEXAS

CORYELL COUNTY

These three formations are referred to as the Trinity Group aquifer. Limited amounts of highly mineralized groundwater are capable of being produced from the Paluxy and Glen Rose formations. The Travis Peak aquifer is the primary water-bearing unit in the area.

8.1.4 Contaminant Source Information

CD waste

Site FH-002 contains construction and demolition debris, primarily concrete rubble. No specific information was found that would define the specific construction or demolition activities on Fort Hood that generated this waste. However, this type of waste is typically made up of rubble, metal, wood, plastics, and other waste building materials. This was also an uncontrolled disposal site, so the potential exists for disposal of paint, solvents, and waste oils.

The waste in Sites FH-013, -014, and -015 is anticipated to contain municipal solid waste (MSW). MSW typically includes wastes from residential households, commercial facilities, and light industrial facilities. The most common elements found in MSW include newsprint, paper, yard wastes, diapers, textiles, plastics, food wastes, and wood. Chemical constituents and characteristics of MSW landfill leachate commonly include organic nitrogen, ammonia nitrogen, nitrates, total phosphorus, organic phosphorus, alkalinity, corrosivity (acidic at $\text{pH} < 2$, basic at $\text{pH} > 12$), calcium, magnesium, potassium, sodium, chloride, sulfate, and total iron. Other constituents frequently found in an uncontrolled landfill such as these include cadmium, zinc, chromium, copper, nickel, lead, and volatile organic compounds resulting from disposal of paint, solvents, and waste oils. Sampling at these landfills will focus on determining the presence of organics and metals.

8.1.5 Data Gaps

No previous investigations have been performed at any of the landfill sites to characterize the material in the landfills or determine if there has been a release of hazardous wastes from the landfills. Basic information is needed to determine if materials disposed of in all the landfills have released contaminants into the soil around the landfills. Since there have been no previous soil borings at any of these landfill sites, information is also needed to define the geology, determine whether groundwater is present below the landfills, and determine whether the groundwater, if present, is contaminated.

02575

fh-013.txt

Closed Municipal Solid Waste Inventory

Permit #
Site Name FH-013
Site Location East of 18th Street and north of 16th Street, SE of F
H-002
East of Hwy 36
Type Facility Trench Municipal
Site Lat. N 31*21.978'
Site Long. W 97*40.296'
Nearest City Gatesville
County 50
Population served nd
Tons/day nd
Date site opened - 1973
Date site closed - 1975
Size in acres - 2.8 acres
Household - yes
Const. + Demo.
Industrial
Tires
Agriculture
Brush - yes
Other
Hazardous - possibly!
Legal Actions - no
Maximum Depth of fill nd
Final Cover thickness nd
Comments - waste include newsprint, paper, yard waste, diapers
textiles, plastics, food wastes and wood

Coryell
County

Status of Landfill Research Form

Permit No. 1284 Issue Date 2/9/81 County Coryell Permitted Acres 3.688

Technical Pkg Submitted for Permit? Yes ☒ File Loc. microfiche No ☐

Date Closed to Waste Recpt. 11/86 File Loc. MSW PA # 1284 1992-3/6/87

Date of Final Cover Inspection None File Loc. _____

*Date Affidavit(s) Approved None Acreage Closed _____
(If none, please indicate so)

File Loc. _____

Closure Plan Exists? Yes _____ File Loc. _____ No ☒

Date Closure Plan Approved None File Loc. _____

Date(s) Post Closure Started No date File Loc. _____

Date(s) Post Closure Ends 1993 File Loc. Microfiche

Length of Post Closure Period: 5 yrs. _____ 30 yrs. _____ Other (no. of yrs.) _____

*File Closed Date None File Loc. _____
(If none, please indicate so)

*Date of "Inactive Status" Acknowledgment Letter None File Loc. _____
(If none, please indicate so)

Name of Researcher Lara Sarey

Date Research Conducted 10/22/99

* copy needed

After 1990-1991 time frame not too
much useful closure information

* Comments made on inspection report (9/23/88)
stated that information must be placed on master plan therefore 10

CORYELL COUNTY

12841

CORYELL COUNTY

SITE NUMBER : 19

CURRENT STATUS : Abandoned Landfill

PERIOD OF ACTIVITY :

See "excerpts" below.

LOCATION :

North of 16th Street near the bend in 18th Street, North Fort Hood. See General Site Map Sheet # 5.

AERIAL PHOTOGRAPHY REFERENCES :

June 21, 1962, Plates 16, and 17 (7).

Photobase Map, Sheet 5, December 19, 1982 (3).

EXCERPTS FROM "INSTALLATION ASSESSMENT OF FORT HOOD, TEXAS" (4) :

"Site 2 is also a trench-type landfill (4.5m by 4.5m by 7.5m) with a fenced-in working area, located in the vicinity of 16th and 18th Streets. This landfill is approximately 3.6-ha large and is operated approximately once weekly. It has a life expectancy of 5 years from July 1976, when it was established. This landfill also has a specified area to receive demolition-type materials (rubble). The contractor-operator is responsible for daily earth-covering of filled material as well as policing the area."

"At the time of the Team's ground tour, the landfill was open-ended, containing approximately 0.6m of green water, to allow rainwater and groundwater to drain to a nearby surface stream draining into the Leon River. The Leon River flows to Belton Lake, a potable water source for FH and the city of Killeen. In March of 1975, USAEHA conducted a study of potential sanitary landfill sites at FH. At that time, USAEHA recommended that this site not be used as a landfill, due to the fact that "the potential is too great for leachate reaching the Leon River..." *

* "This landfill has subsequently been inspected by the State of Texas and was found to be in compliance with regulations."

Site # 13. "1973-1975" **

Site # 14. "1975-1977" **

Site # 15. "1977-1979" **

SITE NUMBER : 19 (continued)

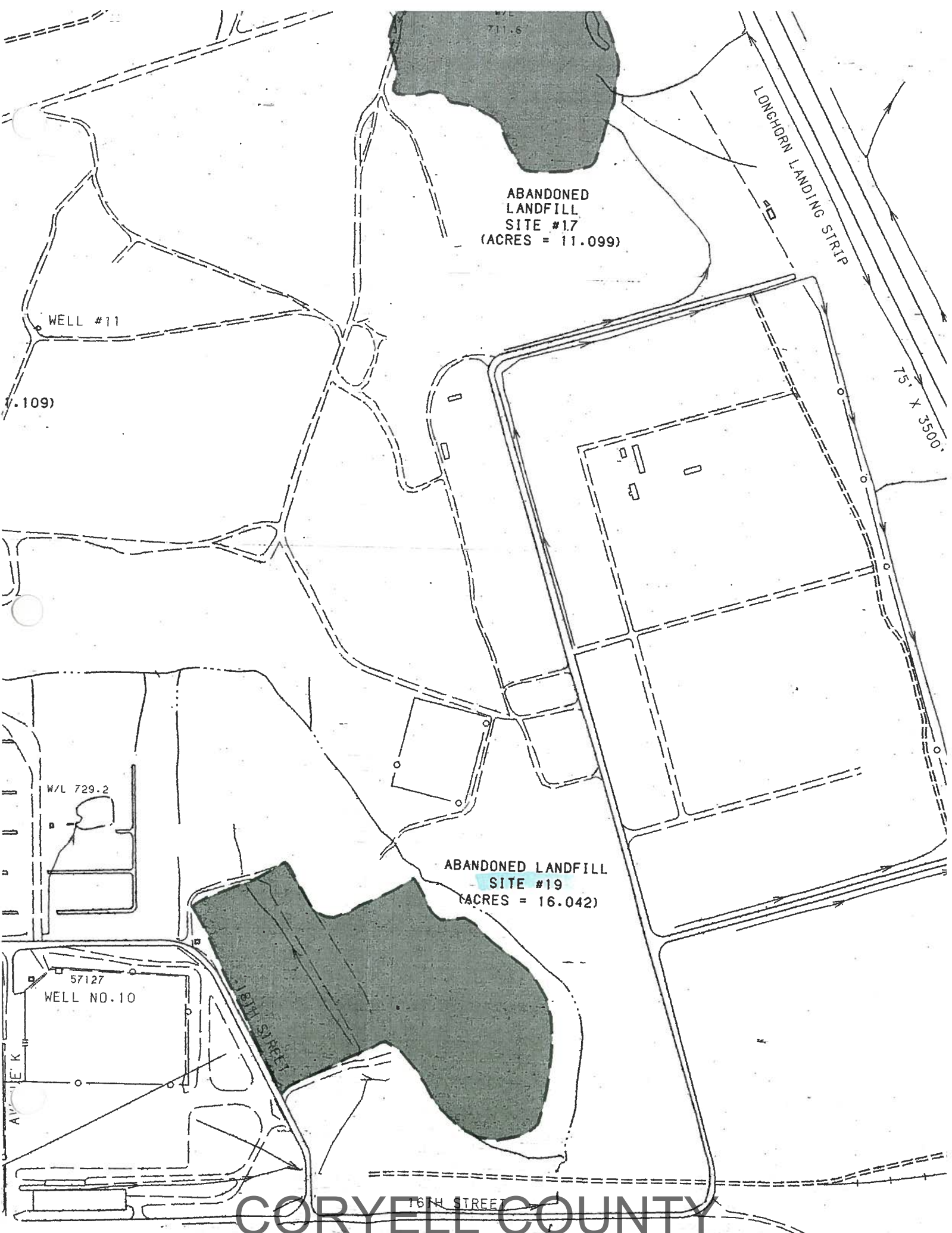
** "Landfills operated by the trench method which reportedly contain general municipal and domestic wastes."

GEOLOGICAL BORING LOG REFERENCES :

No on-site log data available.

COMMENTS / CONCLUSIONS :

Landfill operations within this site were divided into four areas, in the June, 1982 "Installation Assessment of Fort Hood, Texas". The limits defined were based on this study and the 1982 photography. This site contains approximately 16 acres.



ABANDONED
LANDFILL
SITE #17
(ACRES = 11.099)

WELL #11

7.109)

75' X 3500'

W/L 729.2

ABANDONED LANDFILL
SITE #19
(ACRES = 16.042)

57127
WELL NO.10

CORYELL COUNTY

Robert J. Huston, *Chairman*
R. B. "Ralph" Marquez, *Commissioner*
John M. Baker, *Commissioner*
Jeffrey A. Saitas, *Executive Director*



TEXAS NATURAL RESOURCE CONSERVATION COMMISSION

Protecting Texas by Reducing and Preventing Pollution

May 1, 2000

US ARMY/FORT HOOD
GENERAL DELIVERY
FORT HOOD, TEXAS 76544

Subject: Completion of Post-Closure Care Period and Permit Expiration, Permit No. 01284

Dear Landfill Permittee:

A recent research of the Texas Natural Resource Conservation Commission (TNRCC), Municipal Solid Waste central records reveal the subject municipal solid waste (MSW) facility has completed the post-closure care maintenance requirements established by rules in effect during the operational life of this site. Therefore, this site is eligible to exit the post-closure care maintenance period.

As this site has satisfied all post-closure care maintenance requirements, the permit for this facility has now expired by its own terms. No additional waste disposal activities may be conducted at this site unless they are authorized by a new MSW permit.

Your cooperation in maintaining this closed site is greatly appreciated. Any future maintenance problems that arise are the Permittee's responsibility to correct as soon as practical.

If you have any questions concerning this matter, please contact the Municipal Solid Waste Permits Section at 512/239-6724.

Sincerely,

A handwritten signature in cursive script, reading "Dorca Zaragoza-Stone".

Dorca Zaragoza-Stone, Manager
MSW Permits Section
Waste Permits Division

DZS/lcs

**Closed Municipal Solid Waste Inventory
Database Revision Form**

COG Name: Central Texas Council of Governments

Date: July 9, 2002

Site Number*	Type of Revision (Check One)		County	Data	Reason for Revision
	Data Change	New Data			
U2576	X		Coryell County	U2576 is being removed from Inventory	Site U2576 is the same as site P1284. P1284 can be found under Fort Hood in the Inventory

** For previously unidentified sites, please assign temporary site numbers in the form of: COG code/T (for temporary)/three-digit unit number (beginning with 001). For example, 18T001, 18T002, 18T003, etc. In administering the statewide database, TNRCC will subsequently assign permanent tracking numbers.*

CORYELL COUNTY

Closed Landfill Inventory
Central Texas Council of Governments

Site Identification

County	Coryell County
	Fort Hood
Permitted Site Number	U2576

Location and Boundary

COG Confidence Level	50%
Latitude	31.3675 N
Longitude	97.6725 W
Narrative Location Description	North of 16 th Street Near the bend in 18 th street, North Fort Hood
Boundary Description	See Texas. Dept. of Health Letter Feb. 1981
Basic Land Units	Tract 010500, Block 1000

Land Use	Vacant
-----------------	--------

Ownership Information

Current Property Owner(s)	US Army
Current Owner(s) Address	US Army; Ft. Hood, TX 76544
Dates of Ownership	Unknown
Land Unit	3.68 acres

Site History and Current Status

Previous Owner(s)	Unknown
Dates of Operation	7/01/76 – 9/23/88
Enforcement History	Unknown
Types of Waste Disposed	Metal, Wood, Plastic, and Building Material, Household Waste

Reference Attachments

Texas Department of Health Memo Regarding Inspection
Dec. 1974
Texas Department of Health Letter Regarding Permit Application Feb.
1981
Texas Department of Health Final Cover Inspection Sept. 1988
RCRA Facility Investigation Report Dec. 1995 with map
Status of Landfill Research Form Oct. 1999
Aerial Map
Fort Hood Data Sheet with map
TNRCC Letter Regarding Post-Closure Care May 2000

Comments:

Same as Site P1284

State Department of Health

AUSTIN

TEXAS

INTER-OFFICE

FROM Pat Adell, P. E.,
Region V

TO Charles K. Foster, P. E., Director
Environmental and Consumer Health Protection

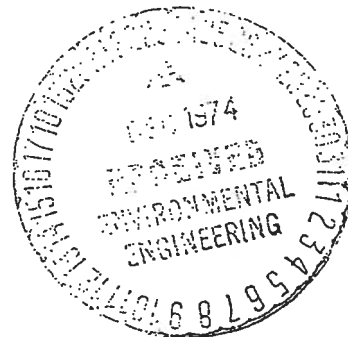
SUBJECT Solid Waste Inspection - Fort Hood - Coryell County

On November 14, 1974, the Writer inspected the Solid Waste Disposal Site serving Fort Hood at the invitation of Tom Hylands, Environmental Protection Agency, who was contacted during the inspection. Colonel Thomasett, Facilities Engineer, was contacted during the inspection, *also*.

The operation of the landfill appeared excellent as a daily cover is applied. The only problem was that very little consideration was given to the soils geology of the site. Mr. Hylands and the Writer impressed the importance of soils report on Mr. Davis, Engineer in charge of the landfill, among other things. During the visit Mr. Davis learned that the Army had a special service out of Georgia that would come in and aid bases in the selection of landfill sites. When the present site is used up in about a year, a full study will be completed before a new site is started.

This is for the Department's information.

PA/ba



SIGNED

Pat Adell, P.E.

DATE

12-20-74

CORYELL COUNTY

FORM NO. 16-2-A

P1284



Texas Department of Health

Robert Bernstein, M.D., F.A.C.P.
Commissioner

1100 West 4th Street
Austin, Texas 78756
(512) 458-7111

A. M. Donnell, Jr., M.D., M.P.H., F.A.C.P.
Deputy Commissioner

Members of the Board

William J. Foye, Chairman
Lawrence M. Hickey, Vice-Chairman
Robert M. Bell, Secretary
Johnnie M. Benson
H. Eugene Brown
Sydney Bernard Mink Broughton
James C. Cato
Charles Max Cole
Francis A. Conley
Ben M. Durr
Raymond C. Garrett
Bob D. Glass
Blanchard T. Hollins
Robert D. Moreton
Jon M. Felt
Richard W. Ragsdale
Madore Heath
Barbara J. Stover

Permit No. 1284
Coordinates: N 31° 21.10' W 97° 41.10'

PERMIT FOR A MUNICIPAL SOLID WASTE FACILITY
Issued under provisions of Article 4477-7, Vernon's
Texas Civil Statutes, and the Texas Department of Health's
"Municipal Solid Waste Management Regulations"

Permittee

U.S. Army, Fort Hood
Fort Hood, Texas 76344

Site Owner

U.S. Army, Fort Hood
Fort Hood, Texas 76344

Legal Description of Site: The legal description as submitted with the application is hereby made a part of this permit.

Size and Location of Site: The 3.688-acre site is located 200 feet south of 18th Street and 600 feet north of 16th Street within North Fort Hood in Coryell County.

Operational Classification of Site: Type III

Waste Disposal Methods Used at Site: Trench method of disposal with compaction of solid waste and cover with a minimum of six (6) inches of compacted earth not less often than once each month.

Description of Waste Materials Processed at Site: Solid waste under the regulatory jurisdiction of the Texas Department of Health, when disposed of or processed in accordance with the Department's "Municipal Solid Waste Management Regulations".

Findings of Fact and Conclusions of Law: Attached hereto and made a part hereof.

Standard Provision: Acceptance of this permit constitutes an acknowledgement that the permittee will comply with all of the terms, provisions, conditions, limitations and other restrictions embodied in this permit; with the "Municipal Solid Waste Management Regulations" of the Texas Department of Health; and with the pertinent laws of the State of Texas.

Special Provisions: See Attachment - "Special Provisions for Municipal Solid Waste Permit No. 1204".

This permit will be valid until cancelled or revoked by the Commissioner of Health of the Texas Department of Health or until the site is completely filled and rendered unusable, whichever occurs first.

Given under my Hand and Seal of Office at Austin, Texas on the 9th day of February 1981.

Robert Bernstein
Robert Bernstein, M.D., F.A.C.P.
Commissioner of Health

SPECIAL PROVISIONS FOR MUNICIPAL SOLID WASTE PERMIT NO. 1284

Property Rights: It is the responsibility of the herein-named permittee to possess or acquire a sufficient interest in or right to the use of the property herein described for the purposes for which this permit is issued. The granting of this permit does not convey any property rights or interest in either real or personal property, nor does it authorize any injury to private property or invasion of personal rights, nor any infringement of Federal, State or local laws or regulations outside the scope of the authority under which this permit is issued.

B. Surface Water Protection: Rainfall runoff within the landfill trenches or areas that has become contaminated by solid waste shall not be discharged from the site unless authorized by the Texas Department of Water Resources.

C. Groundwater Protection: Inasmuch as data submitted with the application indicates some natural subsoils in this site do not meet the permeability requirements of the Department's "Municipal Solid Waste Management Regulations," the permittee shall provide such man-made lining as may be necessary. Within 90 days after the date of issuance of this permit, the permittee shall submit to the Department a written soils quality control program which outlines the test procedures, frequency of professional evaluation, and methods for lining to be followed to assure continuous compliance with the aforesaid regulations. The soils quality control program shall be keyed to the site development plan for areas or trench identification. In accepting this permit, the permittee agrees to follow the soils quality control program submitted unless deviation is authorized by the Department in writing.

D. Odor and Air Pollution Control:

1. Any ponded water at the site must not become a source of obnoxious odors.
2. All applicable Texas Air Control Board regulations concerning air pollution control shall be observed.

E. Site Development and Operation: Site development and operation shall be in accordance with the site plans and procedures submitted with the permit application and in accordance with the Department's "Municipal Solid Waste Management Regulations." Any significant deviation from such plans and procedures must have prior approval by the Department.

F. Site Closing: Site completion and closure procedures shall be in accordance with the Department's "Municipal Solid Waste Management Regulations."

G. Surety Bond: Not required.

LEGAL DESCRIPTION OF TRACT
OF LAND FOR USE BY
U.S. ARMY, FORT HOOD
AS A SOLID WASTE DISPOSAL SITE

STATE OF TEXAS

I

COUNTY OF CORYELL

I

Described herein is a tract of land in the State of Texas, County of Coryell. Said strip being out of the Lucian Hannum Survey 1-202 and being a part of the original 157,588.023 Acre Camp Hood Acquisition. Said strip is a portion of the Fort Hood Military Reservation released from state authority to exclusive Federal jurisdiction in the deed cession agreement, approved by the state legislature and signed by the Governor Elect, A. SHIVERS, 6 Sept. 1930.

From a cedar post which bears approximately 460 feet in a northwesterly direction along the center line of a well maintained gravel road from the northerly intersection of 15th Street and 16th Street, both streets being paved, platted, and recorded on Federal real property records and being within the North Fort Hood cantonment area; then N 63° 10' E, 104 feet along the center line of an overhead telephone utility line. Said post being the southwest corner of existing North Fort Hood Landfill.

Then proceed to a railroad spike with an "X" cut which is along the overhead telephone utility line S 63° 30' W, approximately 24 feet. Said point being the most easterly point of the landfill addition and the POINT OF BEGINNING.

THENCE S 67° 58' 25.5" W, 416.13' to a point. Said point being the most southerly point of this addition.

THENCE N 25° 47' 58.0", 405.193' to a point. Said point being the most westerly point of the addition.

THENCE N 68° 23' 56.0" E, 381.508' to a point. Said point being a railroad spike with an "X" cut and the most northerly point of the addition.

THENCE S 30° 42' 09.1" E, 406.125' to the point of beginning, containing 3.688 acres more or less.

cc: Coryell County Health Officer

CORYELL COUNTY

FINDINGS OF FACT

(1) An application for a permit to operate an existing Type III municipal solid waste landfill, along with all necessary supporting data, was properly submitted by the applicant; due notice was given; and a public hearing was held at Room 2, Building 4213, Directorate of Facilities Engineering in Fort Hood, Texas on Tuesday, November 25, 1980; and all parties were given an opportunity to appear, be represented by counsel, and present testimony or other evidence either for or against the granting of a permit.

(2) The physical conditions existing at the subject site, along with the recommended special provisions transmitted herewith, render the site suitable for use as a landfill.

(3) Use of the subject site as a Type III municipal solid waste landfill is compatible with the present uses being made of the surrounding land.

CONCLUSIONS OF LAW

(1) All procedural requirements relative to notice, hearing and due process of law were met.

(2) The subject site, if operated in compliance with the Solid Waste Disposal Act (Article 4477-7, V.A.C.S.), the Texas Department of Health Municipal Solid Waste Management Regulations and the Special Provisions which accompany the permit transmitted herewith, will not adversely affect the public health or create a public nuisance.

(3) Operation of Type III municipal solid waste landfill is a proper land use of the property described in the attached permit

SURVEILLANCE AND ENFORCEMENT BRANCH
DIVISION OF SOLID WASTE MANAGEMENT
TEXAS DEPARTMENT OF HEALTH

Site # 1284
Reg # 1
County CORYELL

Site Name N. F. HOOD LE
Inspection Date 9-23-88

COMMENTS

IMPROVEMENTS

5.354 FINAL COVER HAS BEEN APPLIED TO THE ENTIRE SITE, NO EXPOSED WASTES, NO SUFFICIENT EVIDENCE.

ADDITIONAL COVER MATERIAL HAS BEEN STOCKPILED ON-SITE, AWAITING SPREADING. THIS MATERIAL CAME FROM DITCH WORK DONE BY A CONTRACTOR.

MR BODKIN INFORMED ME THAT THIS SITE, AS WELL AS ALL KNOWN CLOSED LANDFILLS ON FT HOOD, ARE TO BE PLACED ON THE MASTER PLAN. THIS ACTION WILL SATISFY THE REQUIREMENT FOR AN AFFIDAVIT TO THE PUBLIC.

Suggested type of letter GENERAL COMPLIANCE

TDH Representative's Signature Edward Myers

Date 9-23-88

CORYELL COUNTY

(SEE INSTRUCTIONS)

**FINAL
RCRA FACILITY INVESTIGATION
for
Fort Hood
Sites FH-002, -013, -014, and -015
Abandoned Sanitary Landfills 2, 13, 14, and 15**

**Prepared for
U.S. Army Corps of Engineers
Fort Worth District**

DECEMBER 1995

**Prepared by
Black & Veatch Waste Science, Inc.
Overland Park, Kansas**

**Contract No. DACA47-93-D-0035
BVWS Project No. 40544**

CORYELL COUNTY

8.1 Sites FH-002, -013, -014, and -015, Abandoned Sanitary Landfills 2, 13, 14, and 15

This section includes the RFI work plan for abandoned Sanitary Landfills 2, 13, 14, and 15. This section is organized as follows:

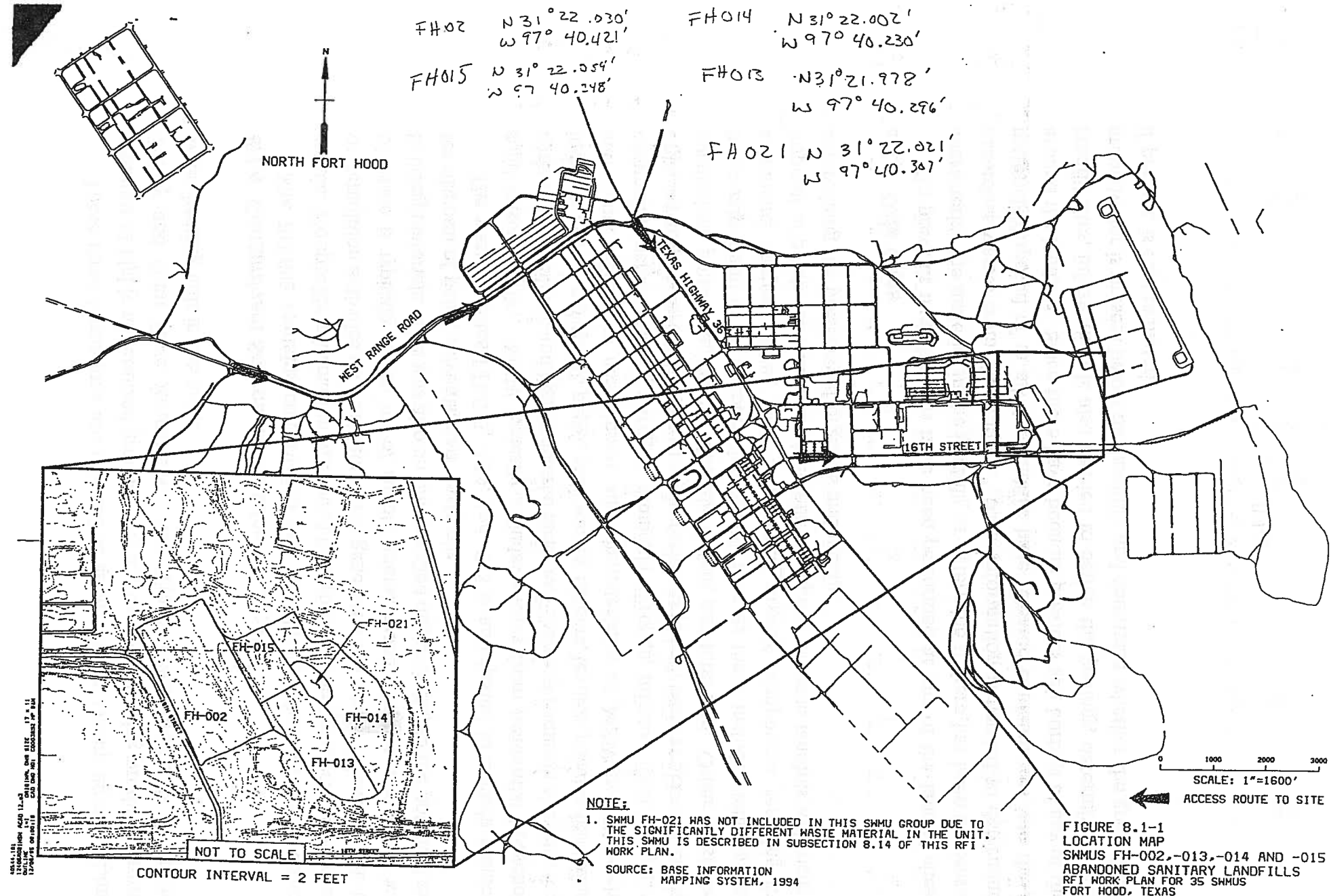
- Unit Operation and History.
- Topography and Hydrology.
- Site Specific Geology.
- Contaminant Source Information.
- Data Gaps.
- Potential Contaminant Pathways.
- Investigation Plan.
- Health and Safety Plan.
- Schedule.

8.1.1 Unit Operation and History

Four solid waste management units (SWMUs), abandoned Sanitary Landfills 2, 13, 14, and 15, were combined because of their proximity and the undefined boundaries of all four units. Site FH-021 is also located within this area. It contains used vehicular lead-acid batteries. However, it has been separated from this grouping of sites because it has significantly different waste material. The site-specific work plan for Site FH-021 is included in Section 8.14.

Site FH-002 was a trench-type landfill, with each trench approximately 15 feet wide by 15 feet deep by 225 feet long. It is approximately 6 acres in size and had a life expectancy of 5 years beginning July 1976. The actual lifespan is unknown. This landfill was operated approximately once each week during its life. It had a specified area that received construction demolition wastes, primarily rubble. The contractor that operated the landfill was responsible for daily earth cover and for policing the overall area.

Sites FH-013, -014, and -015 were trench-type landfills that received municipal solid waste. FH-013 operated between 1973 and 1975, FH-014 operated between 1975 and 1977, and FH-015 operated between 1977 and 1979. Based on the Figure 8.1-1, FH-013 is estimated to be approximately 2.8 acres, FH-014 is approximately 3.2 acres, and FH-015 is approximately 1.4 acres. All four units are closed and are currently inactive (Hood 1991).



CORYELL COUNTY

These three formations are referred to as the Trinity Group aquifer. Limited amounts of highly mineralized groundwater are capable of being produced from the Paluxy and Glen Rose formations. The Travis Peak aquifer is the primary water-bearing unit in the area.

8.1.4 Contaminant Source Information

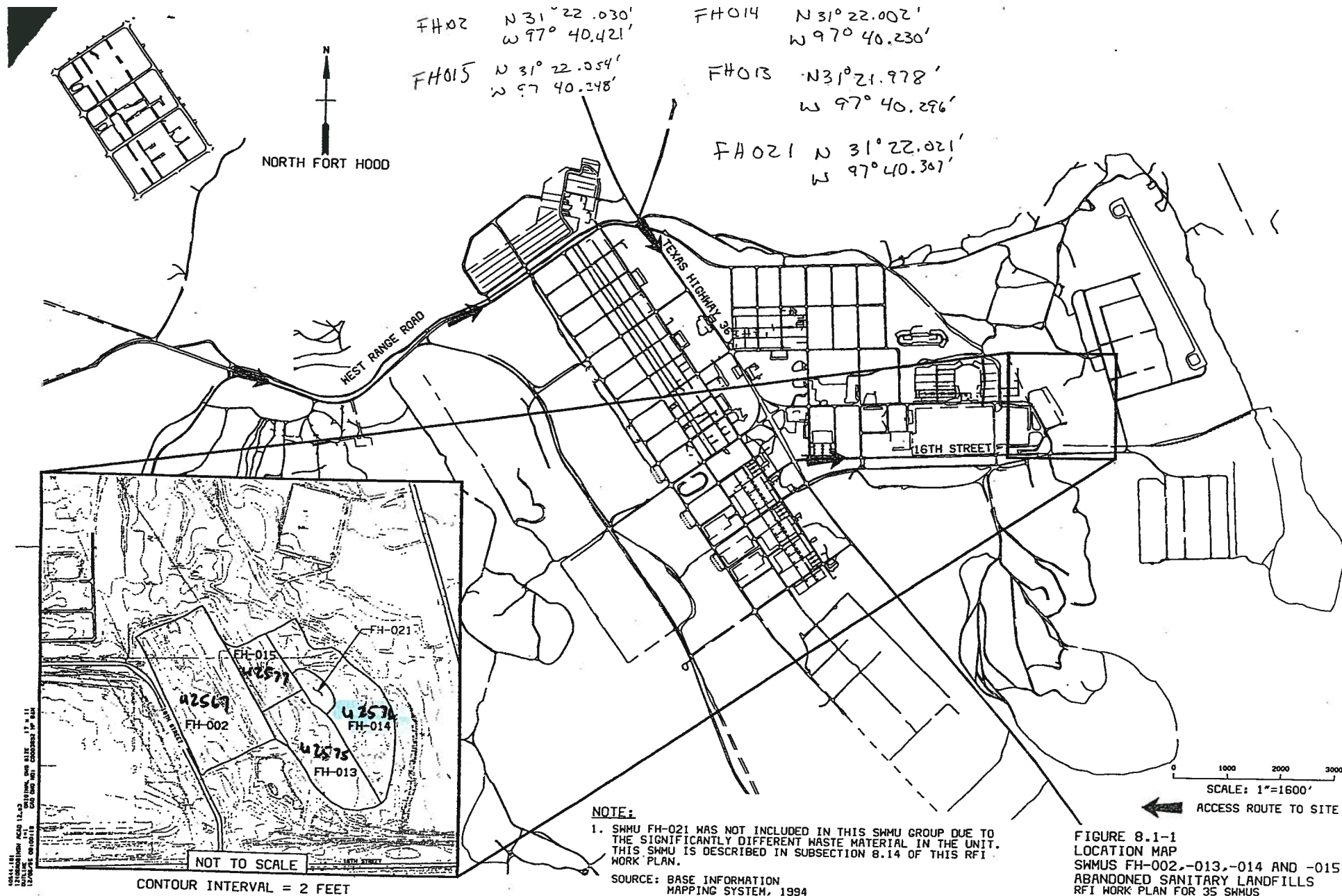
CD waste

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The waste in Sites FH-013, -014, and -015 is anticipated to contain municipal solid waste (MSW). MSW typically includes wastes from residential households, commercial facilities, and light industrial facilities. The most common elements found in MSW include newsprint, paper, yard wastes, diapers, textiles, plastics, food wastes, and wood. Chemical constituents and characteristics of MSW landfill leachate commonly include organic nitrogen, ammonia nitrogen, nitrates, total phosphorus, organic phosphorus, alkalinity, corrosivity (acidic at $\text{pH} < 2$, basic at $\text{pH} > 12$), calcium, magnesium, potassium, sodium, chloride, sulfate, and total iron. Other constituents frequently found in an uncontrolled landfill such as these include cadmium, zinc, chromium, copper, nickel, lead, and volatile organic compounds resulting from disposal of paint, solvents, and waste oils. Sampling at these landfills will focus on determining the presence of organics and metals.

8.1.5 Data Gaps

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CORYELL COUNTY

U2576
Closed Municipal Solid Waste Inventory

Permit #
Site Name FH-014
Site Location East of 18th Street and north of 16th Street, East of
FH-013
East of Hwy 36
Type Facility Trench Municipal
Site Lat. N 31*22.002'
Site Long. W 97*40.230'
Nearest City Gatesville
County 50
Population served nd
Tons/day nd
Date site opened - 1975
Date site closed - 1977
Size in acres - 3.2 acres
Household - yes
Const. + Demo.
Industrial
Tires
Agriculture
Brush - yes
Other
Hazardous - possibly!
Legal Actions - no
Maximum Depth of fill nd
Final Cover thickness nd
Comments - waste include newsprint, paper, yard waste, diapers
textiles, plastics, food wastes and wood

Coryell
County

Status of Landfill Research Form

Permit No. 1284 Issue Date 2/9/81 County Coryell Permitted Acres 3.688

Technical Pkg Submitted for Permit? Yes ☒ File Loc. Microfiche No ☐

Date Closed to Waste Recpt. 11/86 File Loc. MSW PA # 1284 1992-3/6/87

Date of Final Cover Inspection None File Loc. _____

*Date Affidavit(s) Approved None Acreage Closed _____
(If none, please indicate so)

File Loc. _____

Closure Plan Exists? Yes _____ File Loc. _____ No ☒

Date Closure Plan Approved None File Loc. _____

Date(s) Post Closure Started No date File Loc. _____

Date(s) Post Closure Ends 1993 File Loc. Microfiche

Length of Post Closure Period: 5 yrs. _____ 30 yrs. _____ Other (no. of yrs.) _____

*File Closed Date None File Loc. _____
(If none, please indicate so)

*Date of "Inactive Status" Acknowledgment Letter None File Loc. _____
(If none, please indicate so)

Name of Researcher Lara Sarey

Date Research Conducted 10/22/99

* copy needed

After 1990-1991 time frame not too
much useful closure information

* Comments made on inspection report (9/23/88)
stated ill. landfill will be placed on master plan therefore no

CORYELL COUNTY

12821

CORYELL COUNTY

SITE NUMBER : 19

CURRENT STATUS : Abandoned Landfill

PERIOD OF ACTIVITY :

See "excerpts" below.

LOCATION :

North of 16th Street near the bend in 18th Street, North Fort Hood. See General Site Map Sheet # 5.

AERIAL PHOTOGRAPHY REFERENCES :

June 21, 1962, Plates 16, and 17 (7).
Photobase Map, Sheet 5, December 19, 1982 (3).

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"Site 2 is also a trench-type landfill (4.5m by 4.5m by 7.5m) with a fenced-in working area, located in the vicinity of 16th and 18th Streets. This landfill is approximately 3.6-ha large and is operated approximately once weekly. It has a life expectancy of 5 years from July 1976, when it was established. This landfill also has a specified area to receive demolition-type materials (rubble). The contractor-operator is responsible for daily earth-covering of filled material as well as policing the area."

"At the time of the Team's ground tour, the landfill was open-ended, containing approximately 0.6m of green water, to allow rainwater and groundwater to drain to a nearby surface stream draining into the Leon River. The Leon River flows to Belton Lake, a potable water source for FH and the city of Killeen. In March of 1975, USAEHA conducted a study of potential sanitary landfill sites at FH. At that time, USAEHA recommended that this site not be used as a landfill, due to the fact that "the potential is too great for leachate reaching the Leon River..." *

* "This landfill has subsequently been inspected by the State of Texas and was found to be in compliance with regulations."

Site # 13. "1973-1975" **
Site # 14. "1975-1977" **
Site # 15. "1977-1979" **

SITE NUMBER : 19 (continued)

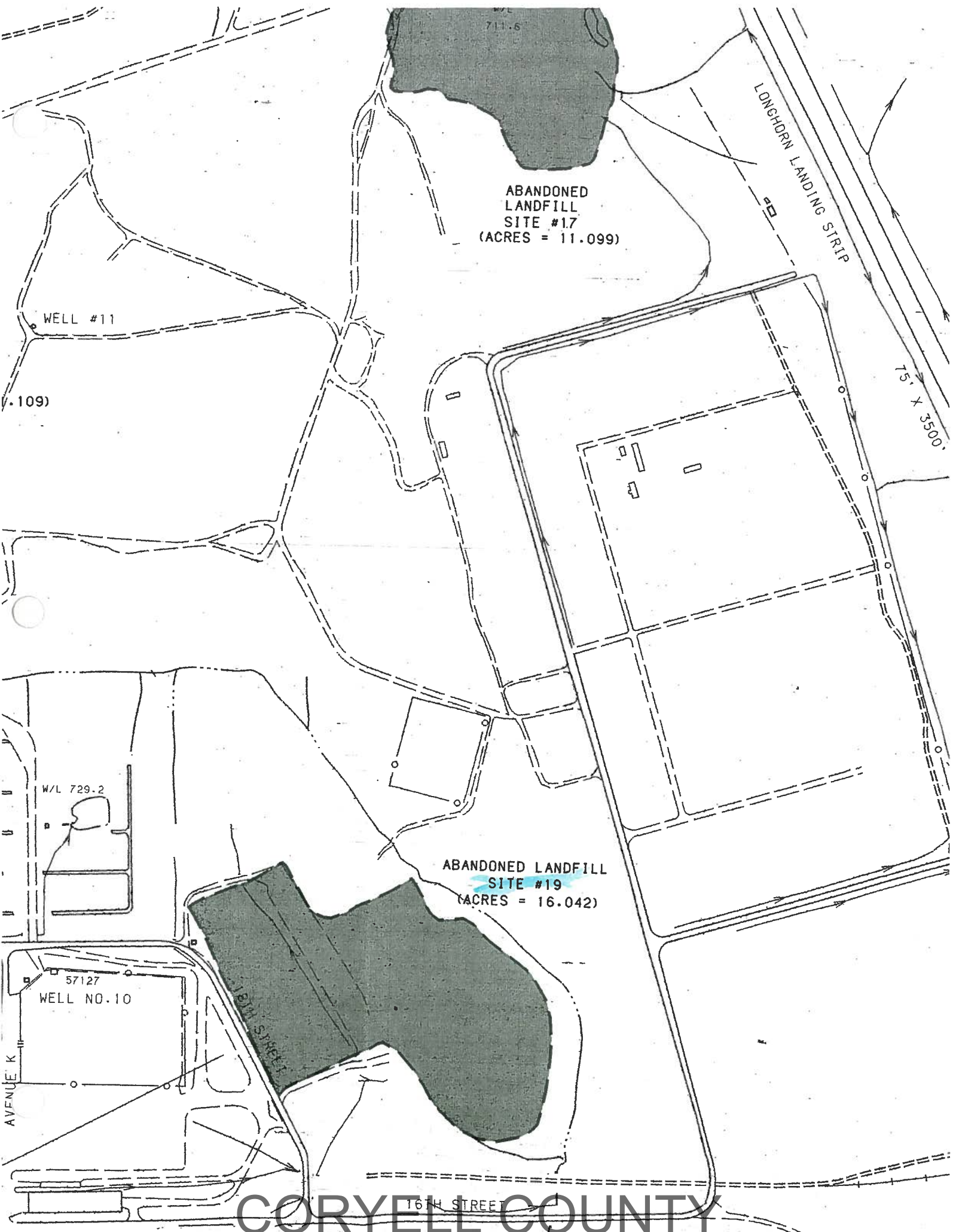
** "Landfills operated by the trench method which reportedly contain general municipal and domestic wastes."

GEOLOGICAL BORING LOG REFERENCES :

No on-site log data available.

COMMENTS / CONCLUSIONS :

Landfill operations within this site were divided into four areas, in the June, 1982 "Installation Assessment of Fort Hood, Texas". The limits defined were based on this study and the 1982 photography. This site contains approximately 16 acres.



Robert J. Huston, *Chairman*
R. B. "Ralph" Marquez, *Commissioner*
John M. Baker, *Commissioner*
Jeffrey A. Saitas, *Executive Director*



TEXAS NATURAL RESOURCE CONSERVATION COMMISSION

Protecting Texas by Reducing and Preventing Pollution

May 1, 2000

US ARMY/FORT HOOD
GENERAL DELIVERY
FORT HOOD, TEXAS 76544

Subject: Completion of Post-Closure Care Period and Permit Expiration, Permit No. 01284

Dear Landfill Permittee:

A recent research of the Texas Natural Resource Conservation Commission (TNRCC), Municipal Solid Waste central records reveal the subject municipal solid waste (MSW) facility has completed the post-closure care maintenance requirements established by rules in effect during the operational life of this site. Therefore, this site is eligible to exit the post-closure care maintenance period.

As this site has satisfied all post-closure care maintenance requirements, the permit for this facility has now expired by its own terms. No additional waste disposal activities may be conducted at this site unless they are authorized by a new MSW permit.

Your cooperation in maintaining this closed site is greatly appreciated. Any future maintenance problems that arise are the Permittee's responsibility to correct as soon as practical.

If you have any questions concerning this matter, please contact the Municipal Solid Waste Permits Section at 512/239-6724.

Sincerely,

A handwritten signature in cursive script, reading "Dorca Zaragoza-Stone".

Dorca Zaragoza-Stone, Manager
MSW Permits Section
Waste Permits Division

DZS/lcs

**Closed Municipal Solid Waste Inventory
Database Revision Form**

COG Name: Central Texas Council of Governments

Date: July 9, 2002

Site Number*	Type of Revision (Check One)		County	Data	Reason for Revision
	Data Change	New Data			
U2577	X		Coryell County	U2577 is being removed from Inventory	Site U2577 is the same as site P1284. P1284 can be found under Fort Hood in the Inventory

* For previously unidentified sites, please assign temporary site numbers in the form of: COG code/T (for temporary)/three-digit unit number (beginning with 001). For example, 18T001, 18T002, 18T003, etc. In administering the statewide database, TNRCC will subsequently assign permanent tracking numbers.

CORYELL COUNTY

Closed Landfill Inventory
Central Texas Council of Governments

Site Identification

County	Coryell County
	Fort Hood
Permitted Site Number	U2577

Location and Boundary

COG Confidence Level	50%
Latitude	31.3675 N
Longitude	97.6725 W
Narrative Location Description	North of 16 th Street Near the bend in 18 th street, North Fort Hood
Boundary Description	See Texas Dept. of Health Letter Feb. 1981
Basic Land Units	Tract 010500, Block 1000

Land Use	Vacant
-----------------	--------

Ownership Information

Current Property Owner(s)	US Army
Current Owner(s) Address	US Army; Ft. Hood, TX 76544
Dates of Ownership	Unknown
Land Unit	3.68 acres

Site History and Current Status

Previous Owner(s)	Unknown
Dates of Operation	7/01/76 – 9/23/88
Enforcement History	Unknown
Types of Waste Disposed	Metal, Wood, Plastic, and Building Material, Household Waste

Reference Attachments

Texas Department of Health Memo Regarding Inspection Dec. 1974
Texas Department of Health Letter Regarding Permit Application Feb. 1981
Texas Department of Health Final Cover Inspection Sept. 1988
RCRA Facility Investigation Report Dec. 1995 with map
Status of Landfill Research Form Oct. 1999
Aerial Map
Fort Hood Data Sheet with map
TNRCC Letter Regarding Post-Closure Care May 2000

Comments:

Same as Site P1284

State Department of Health

AUSTIN

TEXAS

INTER-OFFICE

FROM Pat Adell, P. E.,
Region V

Charles K. Foster, P. E., Director

TO Environmental and Consumer Health Protection

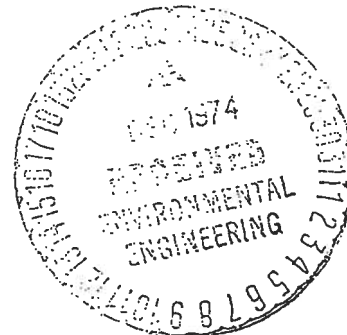
SUBJECT Solid Waste Inspection - Fort Hood - Coryell County

On November 14, 1974, the Writer inspected the Solid Waste Disposal Site serving Fort Hood at the invitation of Tom Hylands, Environmental Protection Agency, who was contacted during the inspection. Colonel Thomasett, Facilities Engineer, was contacted during the inspection, *also*.

The operation of the landfill appeared excellent as a daily cover is applied. The only problem was that very little consideration was given to the soils geology of the site. Mr. Hylands and the Writer impressed the importance of soils report on Mr. Davis, Engineer in charge of the landfill, among other things. During the visit Mr. Davis learned that the Army had a special service out of Georgia that would come in and aid bases in the selection of landfill sites. When the present site is used up in about a year, a full study will be completed before a new site is started.

This is for the Department's information.

PA/ba



SIGNED

Pat Adell, P.E.

DATE

12-20-74

CORYELL COUNTY

FORM NO. AG-2-A

p1284



Texas Department of Health

Robert Bernstein, M.D., F.A.C.P.
Commissioner

1100 West 4th Street
Austin, Texas 78756
(512) 458-7111

A. M. Donnell, Jr., M.D., M.P.H., F.A.C.P.
Deputy Commissioner

Members of the Board

William J. Kozak, Chairman
Laurance M. Nicks, Vice-Chairman
Rodrick M. Bell, Secretary
Johnnie M. Benson
H. Eugene Brown
Sydney Bernard Mudd Burgett
Ramon Cason
Charles Max Cole
Francis A. Conley
Ben M. Durr
Raymond G. Garrett
Bob D. Glass
Blanchard T. Hallen
Robert D. Houston
Jon M. Felt
Richard W. Hagadone
Isidore Hensch
Barbara T. Storer

Permit No. 1284
Coordinates: N 31° 21.10' W 97° 41.10'

PERMIT FOR A MUNICIPAL SOLID WASTE FACILITY
Issued under provisions of Article 4477-7, Vernon's
Texas Civil Statutes, and the Texas Department of Health's
"Municipal Solid Waste Management Regulations"

Permittee

U.S. Army, Fort Hood
Fort Hood, Texas 76544

Site Owner

U.S. Army, Fort Hood
Fort Hood, Texas 76544

Legal Description of Site: The legal description as submitted with the application is hereby made a part of this permit.

Size and Location of Site: The 3.688-acre site is located 200 feet south of 18th Street and 600 feet north of 16th Street within North Fort Hood in Coryell County.

Operational Classification of Site: Type III

Waste Disposal Methods Used at Site: Trench method of disposal with compaction of solid waste and cover with a minimum of six (6) inches of compacted earth not less often than once each month.

Description of Waste Materials Processed at Site: Solid waste under the regulatory jurisdiction of the Texas Department of Health, when disposed of or processed in accordance with the Department's "Municipal Solid Waste Management Regulations".

Findings of Fact and Conclusions of Law: Attached hereto and made a part hereof.

Standard Provision: Acceptance of this permit constitutes an acknowledgement that the permittee will comply with all of the terms, provisions, conditions, limitations and other restrictions embodied in this permit; with the "Municipal Solid Waste Management Regulations" of the Texas Department of Health; and with the pertinent laws of the State of Texas.

Special Provisions: See Attachment - "Special Provisions for Municipal Solid Waste Permit No. 1284".

This permit will be valid until cancelled or revoked by the Commissioner of Health of the Texas Department of Health or until the site is completely filled and rendered unusable, whichever occurs first.

Given under my Hand and Seal of Office at Austin, Texas on the 9th day of February 1981.

Robert Bernstein
Robert Bernstein, M.D., F.A.C.P.
Commissioner of Health

CORYELL COUNTY

SPECIAL PROVISIONS FOR MUNICIPAL SOLID WASTE PERMIT NO. 1284

- Property Rights:** It is the responsibility of the herein-named permittee to possess or acquire a sufficient interest in or right to the use of the property herein described for the purposes for which this permit is issued. The granting of this permit does not convey any property rights or interest in either real or personal property, nor does it authorize any injury to private property or invasion of personal rights, nor any infringement of Federal, State or local laws or regulations outside the scope of the authority under which this permit is issued.
- B. **Surface Water Protection:** Rainfall runoff within the landfill trenches or area that has become contaminated by solid waste shall not be discharged from the site unless authorized by the Texas Department of Water Resources.
- C. **Groundwater Protection:** Inasmuch as data submitted with the application indicates some natural subsoils in this site do not meet the permeability requirements of the Department's "Municipal Solid Waste Management Regulations," the permittee shall provide such man-made lining as may be necessary. Within 90 days after the date of issuance of this permit, the permittee shall submit to the Department a written soils quality control program which outlines the test procedures, frequency of professional evaluation, and methods for lining to be followed to assure continuous compliance with the aforesaid regulations. The soils quality control program shall be keyed to the site development plan for area or trench identification. In accepting this permit, the permittee agrees to follow the soils quality control program submitted unless deviation is authorized by the Department in writing.
- D. **Odor and Air Pollution Control:**
1. Any ponded water at the site must not become a source of obnoxious odors.
 2. All applicable Texas Air Control Board regulations concerning air pollution control shall be observed.
- E. **Site Development and Operation:** Site development and operation shall be in accordance with the site plans and procedures submitted with the permit application and in accordance with the Department's "Municipal Solid Waste Management Regulations." Any significant deviation from such plans and procedures must have prior approval by the Department.
- F. **Site Closing:** Site completion and closure procedures shall be in accordance with the Department's "Municipal Solid Waste Management Regulations."
- G. **Surety Bond:** Not required.

LEGAL DESCRIPTION OF TRACT
OF LAND FOR USE BY
U.S. ARMY, FORT HOOD
AS A SOLID WASTE DISPOSAL SITE

STATE OF TEXAS

1

COUNTY OF CORYELL

1

Described herein is a tract of land in the State of Texas, County of Coryell. Said strip being out of the Lucian Hannum Survey 1-202 and being a part of the original 157,588.023 Acre Camp Hood Acquisition. Said strip is a portion of the Fort Hood Military Reservation released from state authority to exclusive Federal jurisdiction in the deed cession agreement, approved by the state legislature and signed by the Governor Elect, A. SHIVERS, 6 Sept. 1930.

From a cedar post which bears approximately 460 feet in a northwesterly direction along the center line of a well maintained gravel road from the northerly intersection of 15th Street and 16th Street, both streets being paved, platted, and recorded on Federal real property records and being within the North Fort Hood cantonment area; then N 63° 10' E, 104 feet along the center line of an overhead telephone utility line. Said post being the southwest corner of existing North Fort Hood Landfill.

Then proceed to a railroad spike with an "X" cut which is along the overhead telephone utility line S 63° 30' W, approximately 24 feet. Said point being the most easterly point of the landfill addition and the POINT OF BEGINNING.

THENCE S 67° 58' 25.5" W, 416.13' to a point. Said point being the most southerly point of this addition.

THENCE N 25° 47' 58.0", 405.193' to a point. Said point being the most westerly point of the addition.

THENCE N 68° 23' 56.0" E, 381.508' to a point. Said point being a railroad spike with an "X" cut and the most northerly point of the addition.

THENCE S 30° 42' 09.1" E, 406.125' to the point of beginning, containing 3.688 acres more or less.

cc: Coryell County Health Officer

CORYELL COUNTY

FINDINGS OF FACT

(1) An application for a permit to operate an existing Type III municipal solid waste landfill, along with all necessary supporting data, was properly submitted by the applicant; due notice was given; and a public hearing was held at Room 2, Building 4213, Directorate of Facilities Engineering in Fort Hood, Texas on Tuesday, November 25, 1980; and all parties were given an opportunity to appear, be represented by counsel, and present testimony or other evidence either for or against the granting of a permit.

(2) The physical conditions existing at the subject site, along with the recommended special provisions transmitted herewith, render the site suitable for use as a landfill.

(3) Use of the subject site as a Type III municipal solid waste landfill is compatible with the present uses being made of the surrounding land.

CONCLUSIONS OF LAW

(1) All procedural requirements relative to notice, hearing and due process of law were met.

(2) The subject site, if operated in compliance with the Solid Waste Disposal Act (Article 4477-7, V.A.C.S.), the Texas Department of Health Municipal Solid Waste Management Regulations and the Special Provisions which accompany the permit transmitted herewith, will not adversely affect the public health or create a public nuisance.

(3) Operation of Type III municipal solid waste landfill is a proper land use of the property described in the attached permit

SURVEILLANCE AND ENFORCEMENT BRANCH
DIVISION OF SOLID WASTE MANAGEMENT
TEXAS DEPARTMENT OF HEALTH

Site # 1284
Reg # 1
County CORYELL

Site Name N. F. HODD LE
Inspection Date 9-23-88

COMMENTS

IMPROVEMENTS

5.334 FINAL COVER HAS BEEN APPLIED TO THE ENTIRE SITE, NO EXPOSED WASTES, NO SETTLEMENT CONCERN.

ADDITIONAL COVER MATERIAL HAS BEEN STOCKPILED ON-SITE, AWAITING SPREADING. THIS MATERIAL CAME FROM DITCH WORK DONE BY A CONTRACTOR.

MR BODKIN INFORMED ME THAT THIS SITE, AS WELL AS ALL KNOWN CLOSED LANDFILLS ON FT HOOD, ARE TO BE PLACED ON THE MASTER PLAN. THIS ACTION WILL SATISFY THE REQUIREMENT FOR AN AFFIDAVIT TO THE PUBLIC.

Suggested type of letter GENERAL COMPLIANCE

TDH Representative's Signature Shirley Myers

Date 9-23-88

CORYELL COUNTY

(SEE INSTRUCTIONS)

**FINAL
RCRA FACILITY INVESTIGATION
for
Fort Hood
Sites FH-002, -013, -014, and -015
Abandoned Sanitary Landfills 2, 13, 14, and 15**

**Prepared for
U.S. Army Corps of Engineers
Fort Worth District**

DECEMBER 1995

**Prepared by
Black & Veatch Waste Science, Inc.
Overland Park, Kansas**

**Contract No. DACA47-93-D-0035
BVWS Project No. 40544**

CORYELL COUNTY

8.1 Sites FH-002, -013, -014, and -015, Abandoned Sanitary Landfills 2, 13, 14, and 15

This section includes the RFI work plan for abandoned Sanitary Landfills 2, 13, 14, and 15. This section is organized as follows:

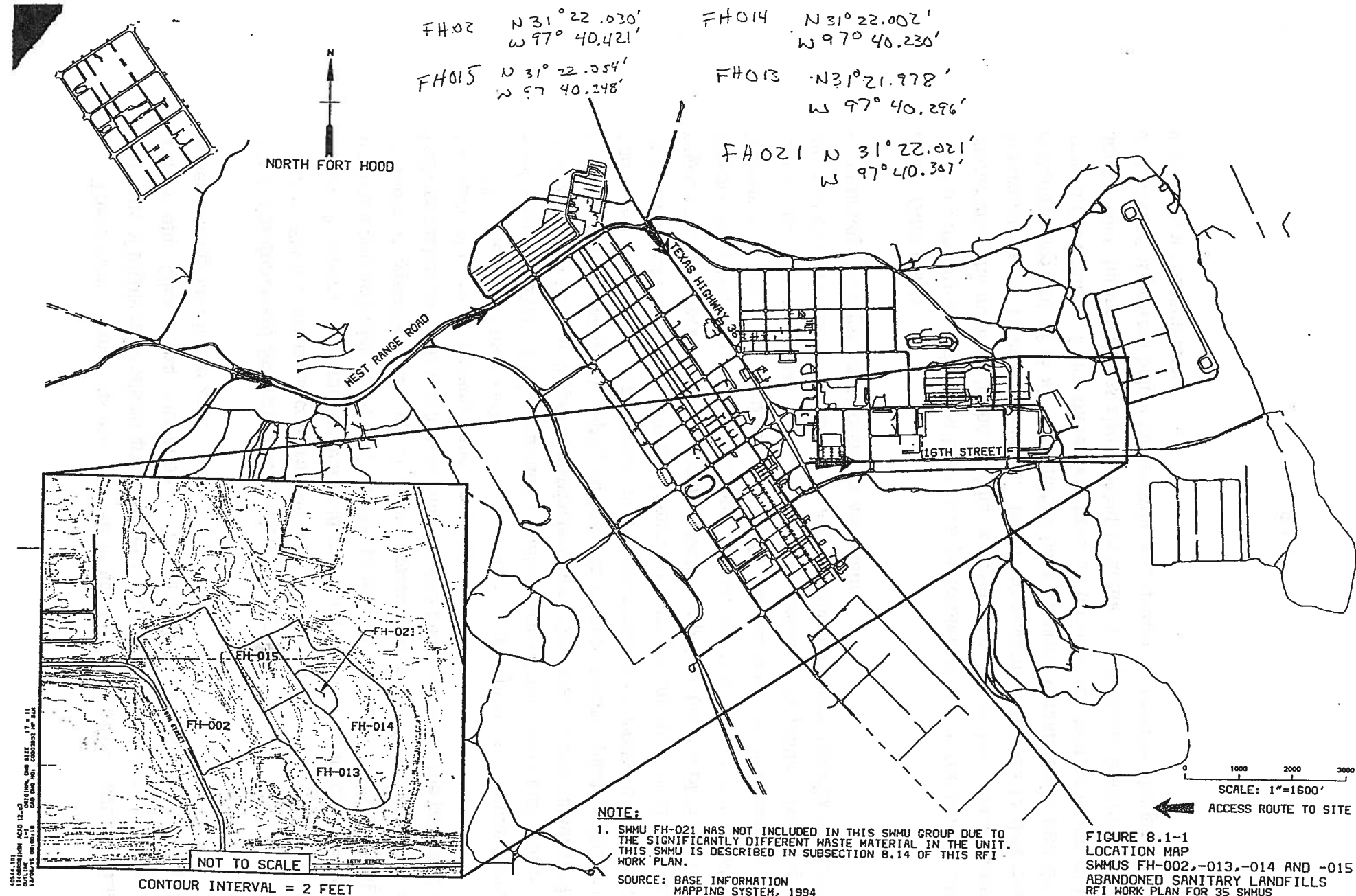
- Unit Operation and History.
- Topography and Hydrology.
- Site Specific Geology.
- Contaminant Source Information.
- Data Gaps.
- Potential Contaminant Pathways.
- Investigation Plan.
- Health and Safety Plan.
- Schedule.

8.1.1 Unit Operation and History

Four solid waste management units (SWMUs), abandoned Sanitary Landfills 2, 13, 14, and 15, were combined because of their proximity and the undefined boundaries of all four units. Site FH-021 is also located within this area. It contains used vehicular lead-acid batteries. However, it has been separated from this grouping of sites because it has significantly different waste material. The site-specific work plan for Site FH-021 is included in Section 8.14.

Site FH-002 was a trench-type landfill, with each trench approximately 15 feet wide by 15 feet deep by 225 feet long. It is approximately 6 acres in size and had a life expectancy of 5 years beginning July 1976. The actual lifespan is unknown. This landfill was operated approximately once each week during its life. It had a specified area that received construction demolition wastes, primarily rubble. The contractor that operated the landfill was responsible for daily earth cover and for policing the overall area.

Sites FH-013, -014, and -015 were trench-type landfills that received municipal solid waste. FH-013 operated between 1973 and 1975, FH-014 operated between 1975 and 1977, and FH-015 operated between 1977 and 1979. Based on the Figure 8.1-1, FH-013 is estimated to be approximately 2.8 acres, FH-014 is approximately 3.2 acres, and FH-015 is approximately 1.4 acres. All four units are closed and are currently inactive (Hood 1991).



CORYELL COUNTY

These three formations are referred to as the Trinity Group aquifer. Limited amounts of highly mineralized groundwater are capable of being produced from the Paluxy and Glen Rose formations. The Travis Peak aquifer is the primary water-bearing unit in the area.

8.1.4 Contaminant Source Information

CD waste

Site FH-002 contains construction and demolition debris, primarily concrete rubble. No specific information was found that would define the specific construction or demolition activities on Fort Hood that generated this waste. However, this type of waste is typically made up of rubble, metal, wood, plastics, and other waste building materials. This was also an uncontrolled disposal site, so the potential exists for disposal of paint, solvents, and waste oils.

The waste in Sites FH-013, -014, and -015 is anticipated to contain municipal solid waste (MSW). MSW typically includes wastes from residential households, commercial facilities, and light industrial facilities. The most common elements found in MSW include newsprint, paper, yard wastes, diapers, textiles, plastics, food wastes, and wood. Chemical constituents and characteristics of MSW landfill leachate commonly include organic nitrogen, ammonia nitrogen, nitrates, total phosphorus, organic phosphorus, alkalinity, corrosivity (acidic at $\text{pH} < 2$, basic at $\text{pH} > 12$), calcium, magnesium, potassium, sodium, chloride, sulfate, and total iron. Other constituents frequently found in an uncontrolled landfill such as these include cadmium, zinc, chromium, copper, nickel, lead, and volatile organic compounds resulting from disposal of paint, solvents, and waste oils. Sampling at these landfills will focus on determining the presence of organics and metals.

8.1.5 Data Gaps

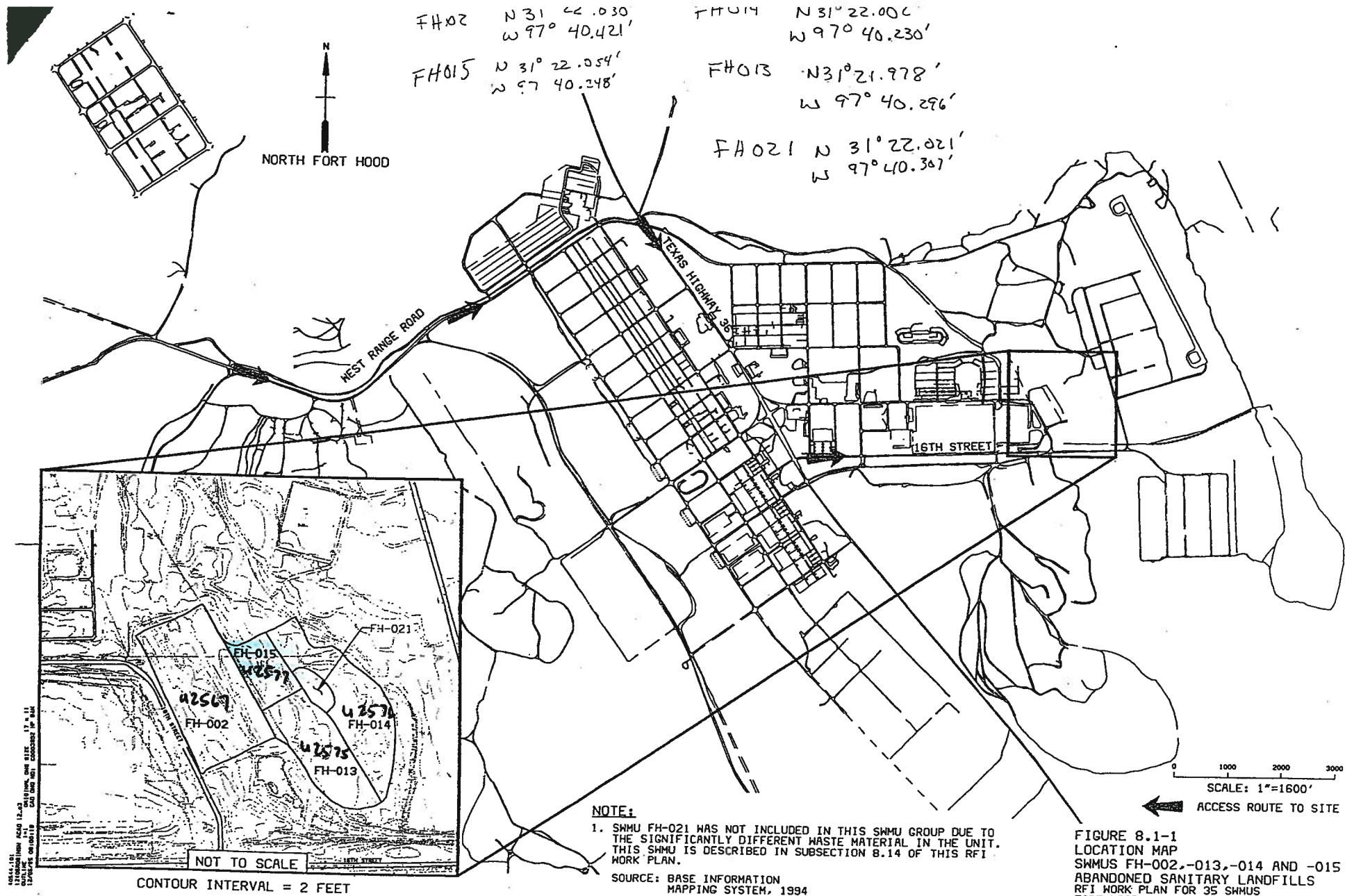
No previous investigations have been performed at any of the landfill sites to characterize the material in the landfills or determine if there has been a release of hazardous wastes from the landfills. Basic information is needed to determine if materials disposed of in all the landfills have released contaminants into the soil around the landfills. Since there have been no previous soil borings at any of these landfill sites, information is also needed to define the geology, determine whether groundwater is present below the landfills, and determine whether the groundwater, if present, is contaminated.

Closed Municipal Solid Waste Inventory

U2577

Permit #
Site Name FH-015
Site Location East of 18th Street and north of 16th Street, East of
FH-002 East of Hwy 36
Type Facility Trench Municipal
Site Lat. N 31*22.054'
Site Long. W 97*40.348'
Nearest City Gatesville
County 50
Population served nd
Tons/day nd
Date site opened - 1977
Date site closed - 1979
Size in acres - 1.4 acres
Household - yes
Const. + Demo.
Industrial
Tires
Agriculture
Brush - yes
Other
Hazardous - possibly!
Legal Actions - no
Maximum Depth of fill nd
Final Cover thickness nd
Comments - waste include newsprint, paper, yard waste, diapers
textiles, plastics, food wastes and wood

Coryell County



Status of Landfill Research Form

Permit No. 1284 Issue Date 2/9/81 County Coryell Permitted Acres 3.688

Technical Pkg Submitted for Permit? Yes ☒ File Loc. Microfiche No ☒

Date Closed to Waste Recpt. 11/86 File Loc. MSW PA # 1284 1992-3/6/8-

Date of Final Cover Inspection None File Loc. _____

*Date Affidavit(s) Approved None Acreage Closed _____
(If none, please indicate so)

File Loc. _____

Closure Plan Exists? Yes _____ File Loc. _____ No ☒

Date Closure Plan Approved None File Loc. _____

Date(s) Post Closure Started No date File Loc. _____

Date(s) Post Closure Ends 1993 File Loc. Microfiche

Length of Post Closure Period: 5 yrs. _____ 30 yrs. _____ Other (no. of yrs.) _____

*File Closed Date None File Loc. _____
(If none, please indicate so)

*Date of "Inactive Status" Acknowledgment Letter None File Loc. _____
(If none, please indicate so)

Name of Researcher Lara Sarey

Date Research Conducted 10/22/99

* copy needed

After 1990-1991 time frame not too
much useful closure information

* Comments made on inspection report (9/23/88)
Closed 11.1986 will be placed on master plan therefore 10

CORYELL COUNTY

12821

CORYELL COUNTY

SITE NUMBER : 19

CURRENT STATUS : Abandoned Landfill

PERIOD OF ACTIVITY :

See "excerpts" below.

LOCATION :

North of 16th Street near the bend in 18th Street, North Fort Hood. See General Site Map Sheet # 5.

AERIAL PHOTOGRAPHY REFERENCES :

June 21, 1962, Plates 16, and 17 (7).
Photobase Map, Sheet 5, December 19, 1982 (3).

EXCERPTS FROM "INSTALLATION ASSESSMENT OF FORT HOOD, TEXAS" (4) :

"Site 2 is also a trench-type landfill (4.5m by 4.5m by 7.5m) with a fenced-in working area, located in the vicinity of 16th and 18th Streets. This landfill is approximately 3.6-ha large and is operated approximately once weekly. It has a life expectancy of 5 years from July 1976, when it was established. This landfill also has a specified area to receive demolition-type materials (rubble). The contractor-operator is responsible for daily earth-covering of filled material as well as policing the area."

"At the time of the Team's ground tour, the landfill was open-ended, containing approximately 0.6m of green water, to allow rainwater and groundwater to drain to a nearby surface stream draining into the Leon River. The Leon River flows to Belton Lake, a potable water source for FH and the city of Killeen. In March of 1975, USAEHA conducted a study of potential sanitary landfill sites at FH. At that time, USAEHA recommended that this site not be used as a landfill, due to the fact that "the potential is too great for leachate reaching the Leon River..." *

* "This landfill has subsequently been inspected by the State of Texas and was found to be in compliance with regulations."

Site # 13. "1973-1975" **

Site # 14. "1975-1977" **

Site # 15. "1977-1979" **

SITE NUMBER : 19 (continued)

** "Landfills operated by the trench method which reportedly contain general municipal and domestic wastes."

GEOLOGICAL BORING LOG REFERENCES :

No on-site log data available.

COMMENTS / CONCLUSIONS :

Landfill operations within this site were divided into four areas, in the June, 1982 "Installation Assessment of Fort Hood, Texas". The limits defined were based on this study and the 1982 photography. This site contains approximately 16 acres.

LEON RIVER

W/L
711.9

W/L
711.6

ABANDONED
LANDFILL
SITE #17
(ACRES = 11.099)

WELL #11

ABANDONED
LANDFILL
SITE #18
(ACRES = 1.109)

W/L
715.9

W/L 729.2

ABANDONED LANDFILL
SITE #19
(ACRES = 16.042)

57127
WELL NO. 10

SHOP
HOUSE & INDUSTRIAL AREA

CORYELL COUNTY

Robert J. Huston, *Chairman*
R. B. "Ralph" Marquez, *Commissioner*
John M. Baker, *Commissioner*
Jeffrey A. Saitas, *Executive Director*



TEXAS NATURAL RESOURCE CONSERVATION COMMISSION

Protecting Texas by Reducing and Preventing Pollution

May 1, 2000

US ARMY/FORT HOOD
GENERAL DELIVERY
FORT HOOD, TEXAS 76544

Subject: Completion of Post-Closure Care Period and Permit Expiration, Permit No. 01284

Dear Landfill Permittee:

A recent research of the Texas Natural Resource Conservation Commission (TNRCC), Municipal Solid Waste central records reveal the subject municipal solid waste (MSW) facility has completed the post-closure care maintenance requirements established by rules in effect during the operational life of this site. Therefore, this site is eligible to exit the post-closure care maintenance period.

As this site has satisfied all post-closure care maintenance requirements, the permit for this facility has now expired by its own terms. No additional waste disposal activities may be conducted at this site unless they are authorized by a new MSW permit.

Your cooperation in maintaining this closed site is greatly appreciated. Any future maintenance problems that arise are the Permittee's responsibility to correct as soon as practical.

If you have any questions concerning this matter, please contact the Municipal Solid Waste Permits Section at 512/239-6724.

Sincerely,

A handwritten signature in cursive script, reading "Dorca Zaragocza-Stone".

Dorca Zaragocza-Stone, Manager
MSW Permits Section
Waste Permits Division

DZS/lcs

All in
Ft. Had

Sites Added To Inventory

CORYELL COUNTY

**Closed Municipal Solid Waste Inventory
Database Revision Form**

COG Name: Central Texas Council of Governments

Date: July 9, 2002

Site Number*	Type of Revision (Check One)		County	Data	Reason for Revision
	Data Change	New Data			
23T001		X	Coryell County Fort Hood	23T001 is being added to the Inventory	During research for the Inventory, data for Site 23T001 was discovered and deemed significant enough to be included as a new site in the Inventory.

* For previously unidentified sites, please assign temporary site numbers in the form of: COG code/T (for temporary)/three-digit unit number (beginning with 001). For example, 18T001, 18T002, 18T003, etc. In administering the statewide database, TNRCC will subsequently assign permanent tracking numbers.

CORYELL COUNTY

Closed Landfill Inventory
Central Texas Council of Governments

Site Identification

County	Coryell County
	Fort Hood
Permitted Site Number	23T001

Location and Boundary

COG Confidence Level	75%
Latitude	31.1606 N
Longitude	97.8319 W
Narrative Location Description	North of Turkey Run Rd at road to West Fort Hood
Boundary Description	No Deed Located
Basic Land Units	Tract 010500, Block 1021

Land Use	Vacant
-----------------	--------

Ownership Information

Current Property Owner(s)	US Army
Current Owner(s) Address	US Army; Fort Hood, TX 76544
Dates of Ownership	Unknown
Land Unit	154 acres

Site History and Current Status

Previous Owner(s)	Unknown
Dates of Operation	Unknown
Enforcement History	Unknown
Types of Waste Disposed	Unknown

Reference Attachments

Fort Hood Data Sheet with map

SITE NUMBER : 1

CURRENT STATUS : Proposed Landfill

PERIOD OF ACTIVITY :

Future Use

LOCATION :

North of Turkey Run Road at road to West Fort Hood. See General Site Map Sheets # 73 & 74.

AERIAL PHOTOGRAPHY REFERENCES :

Photobase Map, Sheets 80 and 81, December 19, 1982 (3).

EXCERPTS FROM "INSTALLATION ASSESSMENT OF FORT HOOD, TEXAS" (4) :

Not mentioned in this report.

GEOLOGICAL BORING LOG REFERENCES :

#4315 through #4349

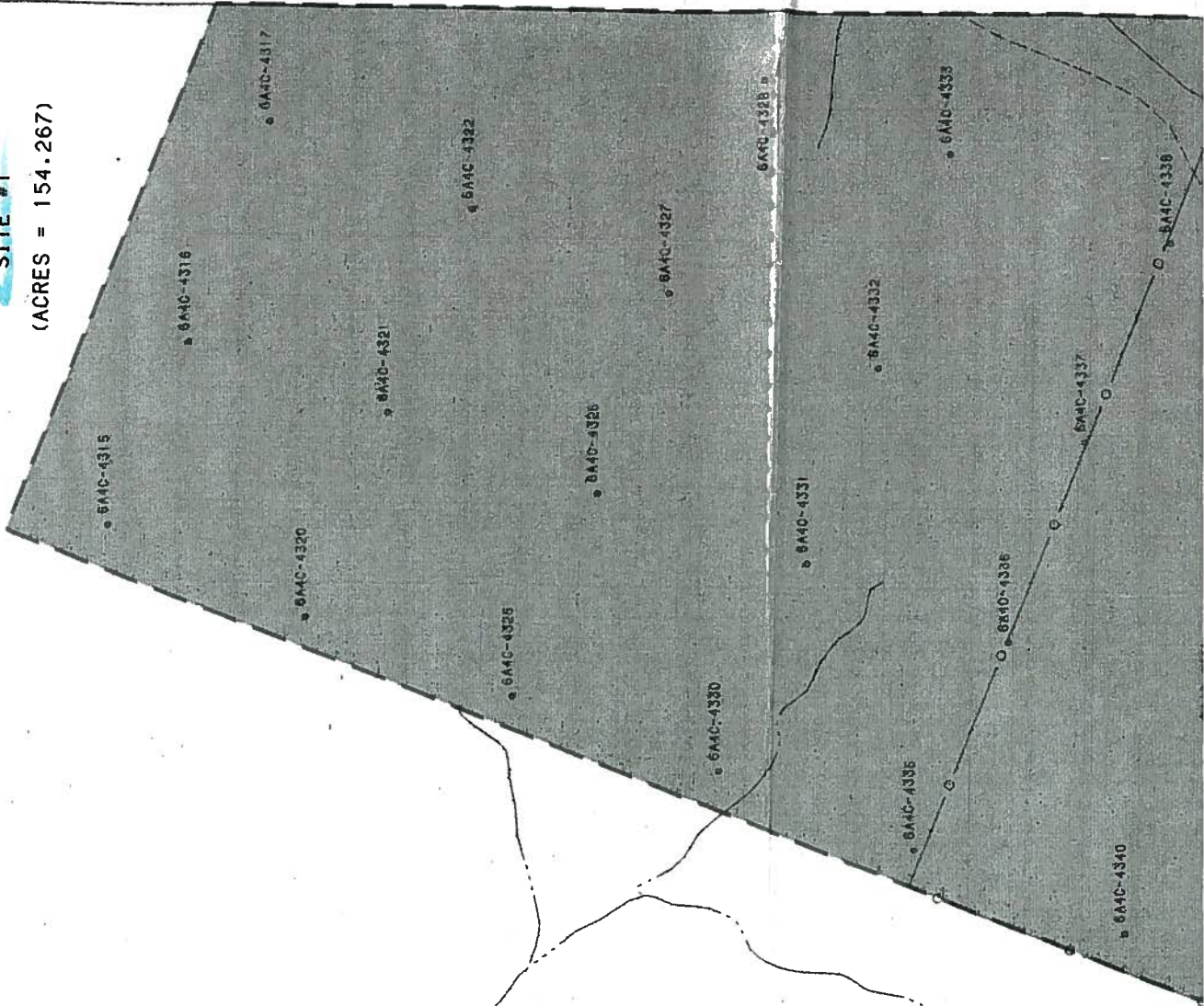
COMMENTS / CONCLUSIONS :

The proposed landfill measures approximately 3200' by 2100' (154 acres), according to survey data.

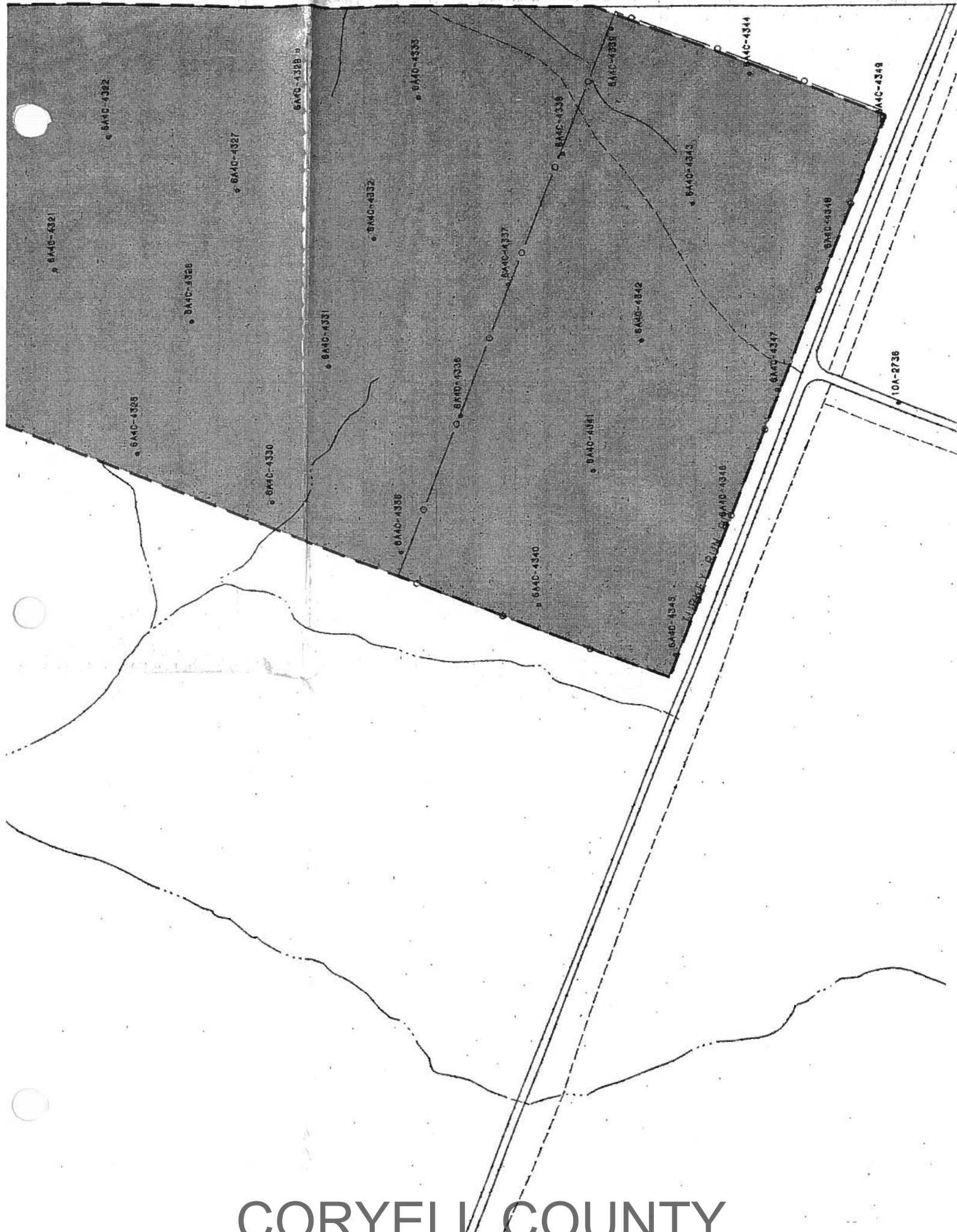
PROPOSED LANDFILL

SITE #1

(ACRES = 154.267)



CORYELL COUNTY



CORYELL COUNTY

**Closed Municipal Solid Waste Inventory
Database Revision Form**

COG Name: Central Texas Council of Governments

Date: July 9, 2002

Site Number*	Type of Revision (Check One)		County	Data	Reason for Revision
	Data Change	New Data			
23T002		X	Coryell County Fort Hood	23T002 is being added to the Inventory	During research for the Inventory, data for Site 23T002 was discovered and deemed significant enough to be included as a new site in the Inventory.

* For previously unidentified sites, please assign temporary site numbers in the form of: COG code/T (for temporary)/three-digit unit number (beginning with 001). For example, 18T001, 18T002, 18T003, etc. In administering the statewide database, TNRCC will subsequently assign permanent tracking numbers.

CORYELL COUNTY

Closed Landfill Inventory
Central Texas Council of Governments

Site Identification

County	Coryell County
	Fort Hood
Permitted Site Number	23T002

Location and Boundary

COG Confidence Level	50%
Latitude	31.1481
Longitude	97.8011
Narrative Location Description	South of North Avenue and east of Clear Creek Road
Boundary Description	No Deed Located
Basic Land Units	Tract 010500, Block 1035

Land Use

\
Structures built: tactical equipment shop, associated buildings,
Central Avenue, portion of Barrack/Mess parking facilities

Ownership Information

Current Property Owner(s)	US Army
Current Owner(s) Address	US Army; Ft. Hood, TX 76544
Dates of Ownership	Unknown
Land Unit	16 acres

Site History and Current Status

Previous Owner(s)	Unknown
Dates of Operation	Prior to 1961
Enforcement History	Unknown
Types of Waste Disposed	Unknown

Reference Attachments

Fort Hood Data Sheet with map

SITE NUMBER : 10

CURRENT STATUS : Abandoned Landfill

PERIOD OF ACTIVITY :

Active in 1955 (6)
Active in 1958 (5)
Prior to 1961 (8)

LOCATION :

South of North Avenue and East of Clear Creek Road. See
General Site Map Sheet # 83.

AERIAL PHOTOGRAPHY REFERENCES :

November 25, 1955, Plates 338 and 339 (6).
Figure 14, April 4, 1958, Scale 1:4500 (5).
May 29, 1961, Plates 24, 25, and 26 (8).
June 21 and 22, 1962, Plates 54, 55, 56, and 57 (7).
July 11, 1962, Plates 316, 317, and 318 (9).
Figure 19, April 3, 1970, Scale 1:12500 (5).
Photobase Map, Sheets 81 and 91, December 19, 1982 (3).

EXCERPTS FROM "INSTALLATION ASSESSMENT OF FORT HOOD, TEXAS" (4) :

Not mentioned in this report.

GEOLOGICAL BORING LOG REFERENCES :

1055 through # 1057
1159 through # 1164
1276 through # 1281
1301 through # 1305
1344 through # 1348
2000 through # 2017
2034 through # 2036

OTHER REFERENCE DOCUMENTS :

See construction drawings for Tactical Equipment Shops # 38053
& # 38063, Enlisted Men Barracks # 41002, Mess # 41003, and
Mess # 41007.

SITE NUMBER : 10 (continued)

COMMENTS / CONCLUSIONS :

A number of structures have been constructed over or adjacent to this abandoned landfill. The structures include Tactical Equipment Shop # 38063 and associated buildings, Central Avenue, portion of Barrack / Mess # 41002 & # 41003, and associated parking facilities. A Storage building and parking facilities are proposed for this site on the current Master Plan.

Activity appear to have begun just prior to the November 25, 1955 photography. The 1958 photograph in the March, 1986 "Relook", Figure 14, notes a "trench" and labels the site as a "landfill". Activity at the site had been completed by the time the 1961 photography was flown.

This site contains approximately 16 acres.

ABANDONED LANDFILL
SITE #11
RES = 23.912)

FLOOD

OUTLINE

MOHAVE, MARICOPA

WACO
CT

WICHITA
DR

EXERCISE 5

EXERCISE FAC

OPEN
N

KILLEEN
ELEMENTARY SCHOOL

CORYELL COUNTY

**Closed Municipal Solid Waste Inventory
Database Revision Form**

COG Name: Central Texas Council of Governments

Date: July 9, 2002

Site Number*	Type of Revision (Check One)		County	Data	Reason for Revision
	Data Change	New Data			
23T003		X	Coryell County Fort Hood	23T003 is being added to the Inventory	During research for the Inventory, data for Site 23T003 was discovered and deemed significant enough to be included as a new site in the Inventory.

* For previously unidentified sites, please assign temporary site numbers in the form of: COG code/T (for temporary)/three-digit unit number (beginning with 001). For example, 18T001, 18T002, 18T003, etc. In administering the statewide database, TNRCC will subsequently assign permanent tracking numbers.

CORYELL COUNTY

Closed Landfill Inventory
Central Texas Council of Governments

Site Identification

County	Coryell County
	Fort Hood
Permitted Site Number	23T003

Location and Boundary

COG Confidence Level	50%
Latitude	31.1373
Longitude	97.8171
Narrative Location Description	North of Copperas Cove Rd. Between Comanche Villages II and III
Boundary Description	No Deed Located
Basic Land Units	Tract 010500, Block 1036

Land Use

Vacant

Ownership Information

Current Property Owner(s)	US Army
Current Owner(s) Address	US Army; Ft. Hood, TX 76544
Dates of Ownership	Unknown
Land Unit	3 acres

Site History and Current Status

Previous Owner(s)	Unknown
Dates of Operation	Active in 1962, unknown when abandoned
Enforcement History	Unknown
Types of Waste Disposed	Unknown

Reference Attachments

Fort Hood Data Sheet with map

SITE NUMBER : 12

CURRENT STATUS : Abandoned Landfill

PERIOD OF ACTIVITY :

Possibly active in 1961 (8)
Active in 1962 (7)
Date of abandonment is unknown.

LOCATION :

North of Copperas Cove Road between Comanche Villages II and III. See General Site Map Sheet # 83.

AERIAL PHOTOGRAPHY REFERENCES :

May 29, 1961, Plates 13 and 24 (8).
June 22, 1962, Plates 128 and 129 (7).
Photobase Map, Sheet 91, December 19, 1982 (3).

EXCERPTS FROM "INSTALLATION ASSESSMENT OF FORT HOOD, TEXAS" (4) :

Not mentioned in this report.

GEOLOGICAL BORING LOG REFERENCES :

No on-site log data available.
The closest logs, lying to the west of this site, are:
1566, # 1570, & # 2200

COMMENTS / CONCLUSIONS :

The Master Plan has placed 4 pavilions over or adjacent to this landfill area, along with an access road and parking area. The site also falls within the Standard Project Flood outline of Clear Creek.

Limits of this site were determined from historical aerial photography.

The site was in use at the same time as Site # 13, and may have been an unauthorized landfill site. Activity may have been present in the 1961 photography, and was active at the time of the 1962 photography, as trucks can be seen dumping material.

This site contains approximately 3 acres.

(ACRES = 2.734)
ABANDONED
LANDFILL
SITE #12

COMANCHE
CIR

COMANCHE AVE

KARANKAWA CIR

KILLI
ELEMENTAR

COPPERAS

APPROX. BDRY

KILL
JR. F
SMITH MIDD

ABANDONED LANDFILL
SITE #13
(ACRES = 35.647)

MAINT SHOP
NUC WPNS

CORYELL COUNTY

**Closed Municipal Solid Waste Inventory
Database Revision Form**

COG Name: Central Texas Council of Governments

Date: July 9, 2002

Site Number*	Type of Revision (Check One)		County	Data	Reason for Revision
	Data Change	New Data			
23T004		X	Coryell County Fort Hood	23T004 is being added to the Inventory	During research for the Inventory, data for Site 23T004 was discovered and deemed significant enough to be included as a new site in the Inventory.

* For previously unidentified sites, please assign temporary site numbers in the form of: COG code/T (for temporary)/three-digit unit number (beginning with 001). For example, 18T001, 18T002, 18T003, etc. In administering the statewide database, TNRCC will subsequently assign permanent tracking numbers.

CORYELL COUNTY

Closed Landfill Inventory
Central Texas Council of Governments

Site Identification

County	Coryell County
	Fort Hood
Permitted Site Number	23T004

Location and Boundary

COG Confidence Level	50%
Latitude	31.1337 N
Longitude	97.7982 W
Narrative Location Description	North of Copperas Cove Rd. and East of Clear Creek Rd.
Boundary Description	No Deed Located
Basic Land Units	Tract 010500, Block 1033

Land Use

Vacant

Ownership Information

Current Property Owner(s)	US Army
Current Owner(s) Address	US Army; Ft. Hood, TX 76544
Dates of Ownership	Unknown
Land Unit	7 acres

Site History and Current Status

Previous Owner(s)	Unknown
Dates of Operation	Prior to 1951
Enforcement History	Unknown
Types of Waste Disposed	Unknown

Reference Attachments

Fort Hood Data Sheet with map

SITE NUMBER : 14

CURRENT STATUS : Abandoned Landfill

PERIOD OF ACTIVITY :

Active in 1943 (5)
Prior to 1951 (5)

LOCATION :

North of Copperas Cove Road and East of Clear Creek Road. See
General Site Map Sheet # 83.

AERIAL PHOTOGRAPHY REFERENCES :

~Figure 10, December 16, 1943, Scale 1:7500 (5).
~Figure 13, June 2, 1951, Scale 1:10500 (5).
~November 25, 1955, Plates 337 and 338 (6).
~Figure 16, April 4, 1958, Scale 1:6800 (5).
~May 29, 1961, Plates 13, 14, 15, 24, 25, and 26 (8).
~June 22, 1962, Plates 134 and 135 (7).
Figure 18, January 7, 1966, Scale 1:11300 (5).
Figure 20, April 3, 1970, Scale 1:7200 (5).
Photobase Map, Sheet 91, December 19, 1982 (3).

EXCERPTS FROM "INSTALLATION ASSESSMENT OF FORT HOOD, TEXAS" (4) :

Not mentioned in this report.

GEOLOGICAL BORING LOG REFERENCES :

No on-site log data available.

COMMENTS / CONCLUSIONS :

There are no structures currently located, or planned in the future, on this site.

Activity at this site began around 1943, as evidenced by a open "trench" shown on Figure 10, December 16, 1943. The site appears to be abandoned on Figure 13, June 2, 1951.

This site contains approximately 7 acres.

PROJECT

FLOOD

ABANDONED LANDFILL
SITE #14
(ACRES = 7.271)

OUTLINE

CLEAR CREEK ROAD

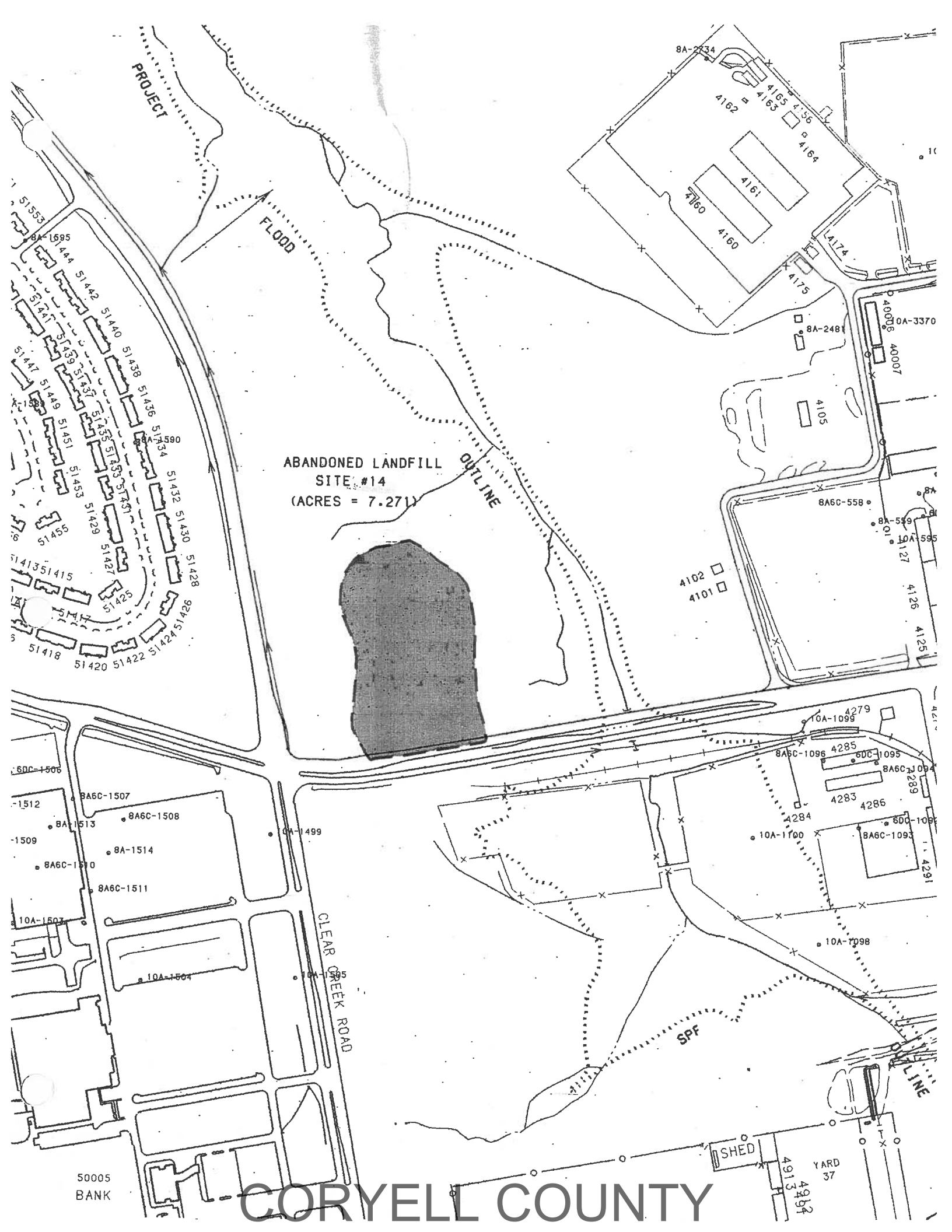
SPF

SHED

YARD 37

50005
BANK

CORYELL COUNTY



**Closed Municipal Solid Waste Inventory
Database Revision Form**

COG Name: Central Texas Council of Governments

Date: July 9, 2002

Site Number*	Type of Revision (Check One)		County	Data	Reason for Revision
	Data Change	New Data			
23T005		X	Coryell County Fort Hood	23T005 is being added to the Inventory	During research for the Inventory, data for Site 23T005 was discovered and deemed significant enough to be included as a new site in the Inventory.

* For previously unidentified sites, please assign temporary site numbers in the form of: COG code/T (for temporary)/three-digit unit number (beginning with 001). For example, 18T001, 18T002, 18T003, etc. In administering the statewide database, TNRCC will subsequently assign permanent tracking numbers.

CORYELL COUNTY

Closed Landfill Inventory
Central Texas Council of Governments

Site Identification

County	Coryell County
	Fort Hood
Permitted Site Number	23T005

Location and Boundary

COG Confidence Level	50%
Latitude	31.0911
Longitude	97.8462
Narrative Location Description	North of the outer Fence Rd (security area of West Fort Hood) and West of Base Road.
Boundary Description	No Deed Located
Basic Land Units	Tract 023200, Block 1063 and 1062

Land Use

Vacant

Ownership Information

Current Property Owner(s)	US Army
Current Owner(s) Address	US Army; Ft. Hood, TX 76544
Dates of Ownership	Unknown
Land Unit	13 acres

Site History and Current Status

Previous Owner(s)	Unknown
Dates of Operation	Prior to 1953
Enforcement History	Unknown
Types of Waste Disposed	Unknown

Reference Attachments

Fort Hood Data Sheet with map

SITE NUMBER : 15

CURRENT STATUS : Abandoned Landfill

PERIOD OF ACTIVITY :

Prior to and after 1953 (5,10)

LOCATION :

North of the Outer Fence Road (security area of West Fort Hood) and west of Base Road. See General Site Map Sheet # 99.

AERIAL PHOTOGRAPHY REFERENCES :

November 20, 1953, Plates FH 2-7, FH 2-8 and FH 2-9 (10).
Figure 22, May 16, 1970, Scale 1:22000.
Photobase Map, Sheet 109, December 19, 1982 (3).

EXCERPTS FROM "INSTALLATION ASSESSMENT OF FORT HOOD, TEXAS" (4) :

Not mentioned in this report.

GEOLOGICAL BORING LOG REFERENCES :

No on-site log data available.

OTHER REFERENCES:

Personal interview with Mr. Ray Hale, DEH, Real Property Division (11).

COMMENTS / CONCLUSIONS :

Mr. Ray Hale, Real Property Division, indicated that he recalled a landfill operation just north of the fenced security area at West Fort Hood. The area he defined matches very well with ground scars that are visible on the 1953 photography and on Figure 22, May 16, 1970.

Aerial photography near this site during the years of suspected operation, was not readily available since the old Killeen Base was protected by a "Restricted Fly-Over Zone" due to the nature of military operations at that time.

This site contains approximately 13 acres.

8A-143

BASE ROAD

(ACRES = 11.714)

(ACRES = 1.117)

PROBABLE
LANDFILLS
SITE #15

8A-1880

OUTER FENCE ROAD

INNER FENCE ROAD

NORTH ROAD

VFNT

CORYELL COUNTY

10A-4041

10A-4042

10A-4043

8A-4040

8A6C-4039

80C-4037

10A-4044

8A6C-4040

**Closed Municipal Solid Waste Inventory
Database Revision Form**

COG Name: Central Texas Council of Governments

Date: July 9, 2002

Site Number*	Type of Revision (Check One)		County	Data	Reason for Revision
	Data Change	New Data			
23T006		X	Coryell County Fort Hood	23T006 is being added to the Inventory	During research for the Inventory, data for Site 23T006 was discovered and deemed significant enough to be included as a new site in the Inventory.

* For previously unidentified sites, please assign temporary site numbers in the form of: COG code/T (for temporary)/three-digit unit number (beginning with 001). For example, 18T001, 18T002, 18T003, etc. In administering the statewide database, TNRCC will subsequently assign permanent tracking numbers.

CORYELL COUNTY

Closed Landfill Inventory
Central Texas Council of Governments

Site Identification

County	Coryell County
	Fort Hood
Permitted Site Number	23T006

Location and Boundary

COG Confidence Level	50%
Latitude	31.0753 N
Longitude	97.8242 W
Narrative Location Description	East of the runway of Robert Gray Army Airfield and south of Buildings 90087 and 90088
Boundary Description	No Deed Located
Basic Land Units	Tract 023200, Block 1063

Land Use

Fire fighter training / Robert Gray Army Airfield

Ownership Information

Current Property Owner(s)	US Army
Current Owner(s) Address	US Army; Ft. Hood, TX 76544
Dates of Ownership	Unknown
Land Unit	4 acres

Site History and Current Status

Previous Owner(s)	Unknown
Dates of Operation	Prior to 1984
Enforcement History	Unknown
Types of Waste Disposed	Unknown

Reference Attachments

Fort Hood Data Sheet
Fort Hood Site Maps

SITE NUMBER : 16

CURRENT STATUS : Abandoned Landfill

PERIOD OF ACTIVITY :

Prior to 1982 (3)
Active in 1984

LOCATION :

East of the runway of Robert Gray Army Airfield and south of Buildings 90087 and 90088. See General Site Map Sheet # 104.

AERIAL PHOTOGRAPHY REFERENCES :

Photobase Map, Sheet 113, December 19, 1982 (3).

EXCERPTS FROM "INSTALLATION ASSESSMENT OF FORT HOOD, TEXAS" (4) :

Not mentioned in this report.

GEOLOGICAL BORING LOG REFERENCES :

2698 through # 2705
3077 through # 3088
3107, # 3182, & # 3183
3230 through # 3231
3235 through # 3243

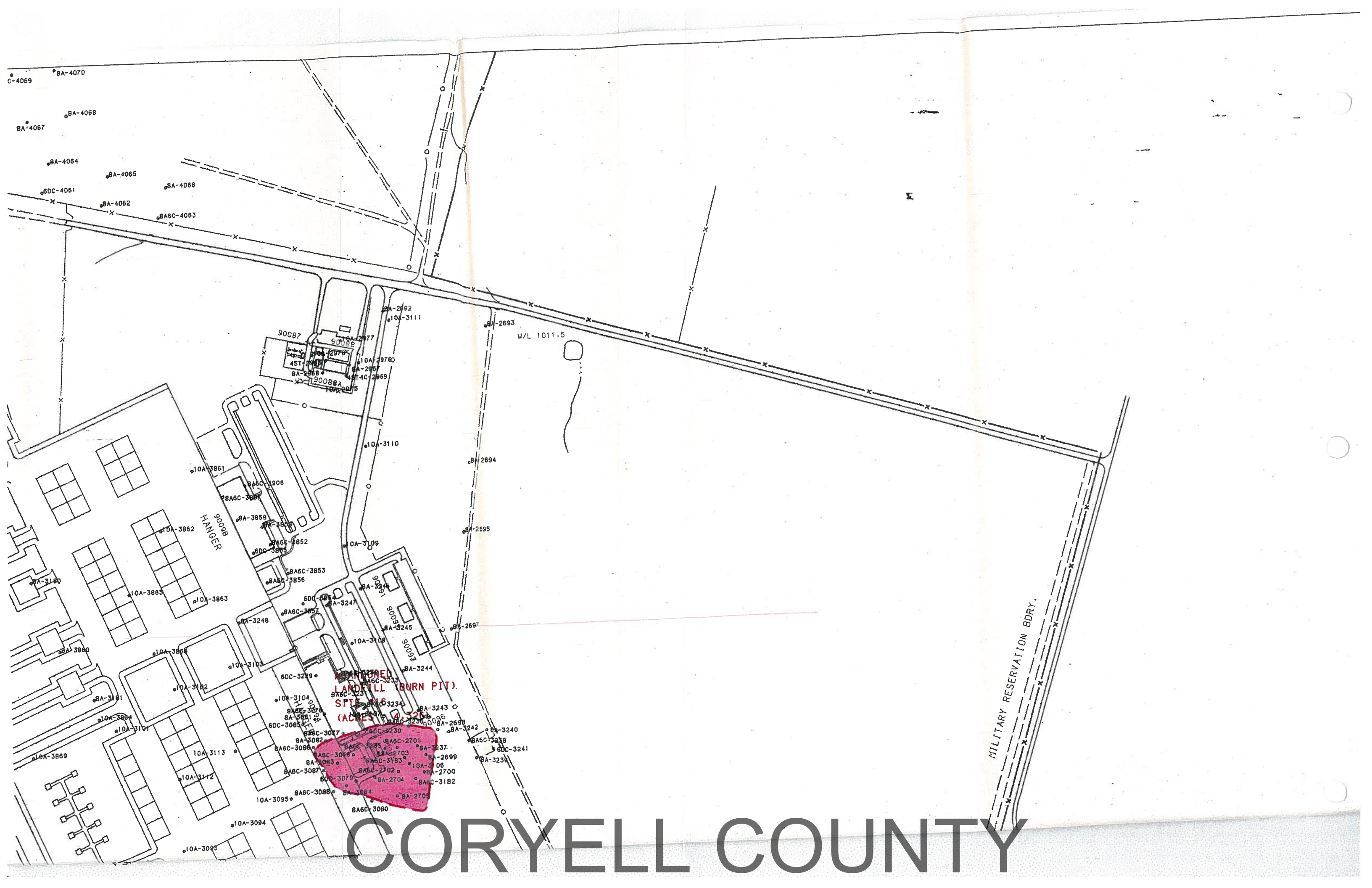
OTHER REFERENCE DOCUMENTS :

See construction drawings for Hanger # 90094 and associated structures.

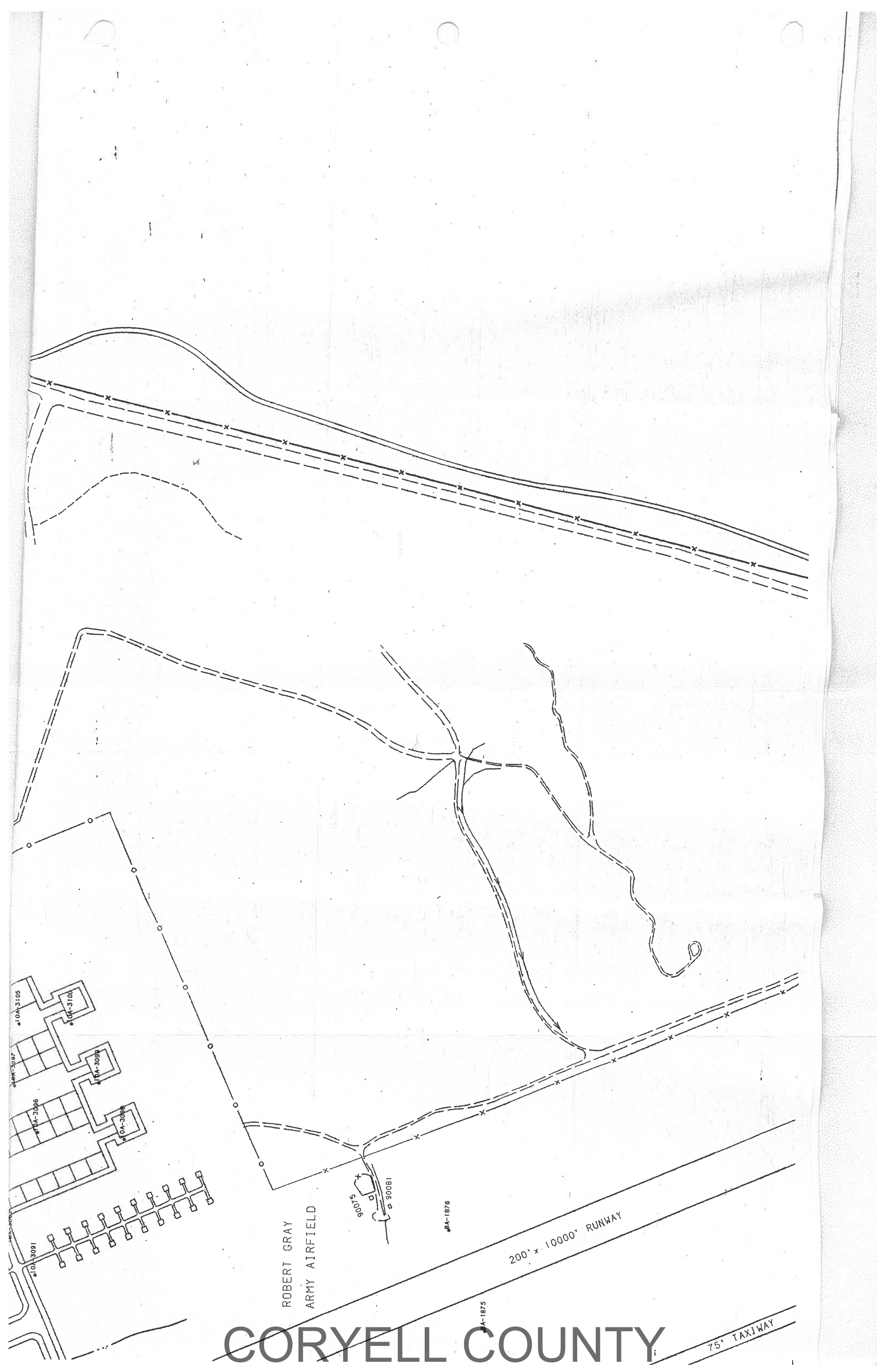
COMMENTS / CONCLUSIONS :

A recent construction project has placed a Concrete Wash Rack, Lighting Vault / Emergency Generator Building, and access roads over the limits of this site.

This site was referenced on construction drawings dated January, 1984 in the West Fort Hood area as a "Burn Pit". The limits of this site were determined from ground scars on the 1982 photography. The site was also used for firefighter training. This site contains approximately 4 acres.



CORYELL COUNTY



CORYELL COUNTY

**Closed Municipal Solid Waste Inventory
Database Revision Form**

COG Name: Central Texas Council of Governments

Date: July 9, 2002

Site Number*	Type of Revision (Check One)		County	Data	Reason for Revision
	Data Change	New Data			
23T007		X	Coryell County Fort Hood	23T007 is being added to the Inventory	During research for the Inventory, data for Site 23T007 was discovered and deemed significant enough to be included as a new site in the Inventory.

** For previously unidentified sites, please assign temporary site numbers in the form of: COG code/T (for temporary)/three-digit unit number (beginning with 001). For example, 18T001, 18T002, 18T003, etc. In administering the statewide database, TNRCC will subsequently assign permanent tracking numbers.*

CORYELL COUNTY

Closed Landfill Inventory
Central Texas Council of Governments

Site Identification

County	Coryell County
	Fort Hood
Permitted Site Number	23T007

Location and Boundary

COG Confidence Level	50%
Latitude	31.3728 N
Longitude	97.6782 W
Narrative Location Description	Former Pond located east of "G" street and North of 21 st (extended), North Fort Hood
Boundary Description	No Deed Located
Basic Land Units	Tract 010500, Block 1000

Land Use	Vacant
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Ownership Information

Current Property Owner(s)	US Army
Current Owner(s) Address	US Army; Ft. Hood, TX 76544
Dates of Ownership	Unknown
Land Unit	1 acre

Site History and Current Status

Previous Owner(s)	Unknown
Dates of Operation	Prior to 1977
Enforcement History	Unknown
Types of Waste Disposed	Unknown

Reference Attachments

Fort Hood Data Sheet with map

SITE NUMBER : 18

CURRENT STATUS : Abandoned Landfill

PERIOD OF ACTIVITY :

Prior to 1977 (4)

LOCATION :

Former pond located east of "G" Street and north of 21st Street (Extended), North Fort Hood. See General Site Map Sheet # 5.

AERIAL PHOTOGRAPHY REFERENCES :

June 21, 1962, Plates 16, and 17 (7).
Photobase Map, Sheet 5, December 19, 1982 (3).

EXCERPTS FROM "INSTALLATION ASSESSMENT OF FORT HOOD, TEXAS" (4) :

Site # 17.

"A pond area, covered in 1977. Reportedly an illegal dumping area used by off-post contractors" (4).

GEOLOGICAL BORING LOG REFERENCES :

No on-site log data available.

COMMENTS / CONCLUSIONS :

The limits of this site were determined from differences in vegetation (tree lines) on the 1982 photography and compared with the boundaries of the June, 1982 "Installation Assessment of Fort Hood, Texas" (4). This site contains slightly over 1 acre.

LEON RIVER

W/L
711.9

W/L
711.8

ABANDONED
LANDFILL
SITE #17
(ACRES = 11.099)

W/L
715.9

ABANDONED
LANDFILL
SITE #18
(ACRES = 7.109)

WELL #11

W/L 729.2

ABANDONED LANDFILL
SITE #19
(ACRES = 16.042)

57127
WELL NO. 10

SHOP
HOUSE & INDUSTRIAL AREA

CORYELL COUNTY