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# **HRS DOCUMENTATION RECORD**

for

## **Crim-Hammett Waste Disposal and Landfill**

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**March 15, 2000**

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Protecting Texas  
by Reducing and  
Preventing Pollution

# **HRS DOCUMENTATION RECORD**

**for**

**Crim - Hammett Site  
Henderson, Rusk County, Texas  
TNRCC ID 83468**

**Prepared by:**

**Texas Natural Resource  
Conservation Commission  
Austin, Texas**

**March 2000**



**HRS**

**DOCUMENTATION  
RECORD**

**Crim - Hammett Site  
Henderson, Rusk County, Texas**

**March 2000**



# Hazard Ranking System Documentation Record

Crim - Hammett Site  
Henderson, Rusk County, Texas  
TNRCC IHW ID# 83468

Prepared by

Texas Natural Resource Conservation Commission  
Site Assessment and Management Section  
Superfund Site Discovery and Assessment Program  
Austin, Texas

March 2000

**HRS DOCUMENTATION RECORD**

**Crim - Hammett Site**

**Henderson, Rusk County, Texas**

**TNRCC ID 83468**

**SIGNATURE PAGE**

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Texas Natural Resource Conservation Commission  
Superfund Site Discovery and Assessment Program  
Project Manager

\_\_\_\_\_  
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## HRS DOCUMENTATION RECORD - REVIEW COVER SHEET

**NAME OF SITE:** Crim - Hammett Site

**CONTACT PERSON:**

Site Investigation  
and Documentation Record: Gary L. Hazelwood, TNRCC (903) 535-5108

**CURRENT SITE OWNER/OPERATOR:**

Ms. Celia C. Flowers, (Attorney for Scott Hammett)  
Cooper, Flowers, and Derryberry  
5070 Kinsey Drive, Tyler, Texas 75703  
(903) 534-8063

**Pathway of Concern:**

### Surface Water Pathway

Releases of hazardous substances to the surface water pathway are of major concern for this site. Each on-site soil sample analysis indicated high levels of lead (Ref. 5, p. 05008, Table 5). Releases of lead were detected in Thompson Lake sediment (SE-10, SE-11, and SE-12), the intermittent east branch of Hardy Creek (SE-08, SE-03, and SE-04), and PPE to perennial Hardy Creek (SE-02) (Ref. 5, p. 05009, Table 7). The furthest release of lead detected downstream was at SE-02, located approximately 2.0 miles from the site. The hazardous substances documented in sediment samples are located in wetland areas (Ref. 6).

## **Pathway, Components, or Threats Not Evaluated:**

### **Ground Water Pathway**

The Ground Water Pathway was not evaluated at this time due to the lack of nearby targets. No known private drinking water wells are located in the four-mile TDL of the site (Ref. 7). The City of Henderson currently has seven active public supply wells, however, all of those wells are located in excess of a 1 mile radius of the site. The City of Henderson public supply wells have an average screening interval of 530 to 624 feet deep. The City provides water to approximately 13,479 people. Approximately 25% of the City's water comes from the one to two mile TDL and the remaining 75% comes from the three to four mile TDL (Ref. 7). Potential impact to the ground water pathway would only contribute slightly to the site score.

### **Soil Exposure Pathway**

The Soil Exposure Pathway is not being evaluated due to the lack of targets and the inclusion of this pathway does not increase the site score.

### **Air Migration Pathway**

The Air Migration Pathway is not being evaluated since the pathway score does not increase the site score. There is no observed release for the Air Migration Pathway.

*(Although these pathways have not been evaluated, the TNRCC is concerned for all pathways surrounding the site. However, evaluation of these pathways would not have significantly increased the overall site score.)*

## NOTES TO READER

The following rules were used when citing references in the HRS Documentation Record:

1. If the reference cited had an original page number, that page number is cited.
2. If the reference cited had no original page number, then a designated tracking number is cited. These references have been stamped with a designated page number (example: Ref. 1, p. 10 = 01010).
3. If the reference cited is for analytical data found within a table, the sample ID is used to locate that reference.
4. The State predecessor agencies: Texas Water Quality Board (TWQB), Texas Department of Water Resources (TDWR), Texas Water Commission (TWC), and Texas Air Control Board (TACB), referred to throughout this report are now known as the Texas Natural Resource Conservation Commission (TNRCC). The new agency, TNRCC, became effective September 1, 1993, as mandated under State Senate Bill 2 of the 73rd Regular Legislative Session.

## HRS DOCUMENTATION RECORD

**Name of Site:** Crim - Hammett Site

**Date Prepared:** 01/2000

**CERCLIS Site ID Number:** TX0001315886

**TNRCC ID#:** 81789

### SITE LOCATION:

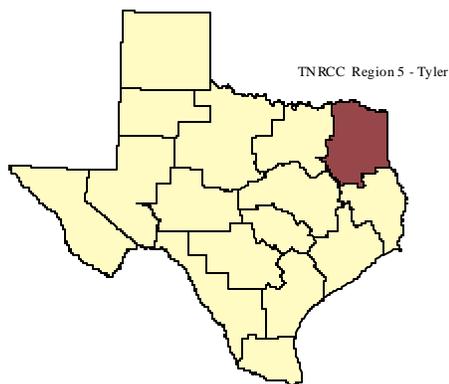
**Street Address of Site:** 801 Highway 64, Henderson, Rusk County, Texas (see Figure 1, Site Location Map).

**City, County, State:** Henderson, Rusk County, Texas

**Topographic Map:** US Geological Survey 7.5 Minute Topographic Map, Henderson, Tex. 1973 (Ref. 9)

**Latitude:** 32° 10' 03" North      **Longitude:** 94° 48' 01" West (Ref. 9)

**TNRCC Region: 5**



### SITE SCORING SUMMARY:

#### Pathway Scores:

Groundwater Migration Pathway -	NE	
Surface Water Migration Pathway -		60.00
Soil Exposure Pathway -	NE	
Air Migration Pathway -		NE

NE - Not Evaluated

## **SITE SUMMARY**

### **GENERAL DESCRIPTION OF THE SITE:**

The site is located at Latitude 32E10'03"N and Longitude 94E48'01"W at 801 Highway 64, Henderson, Rusk County, Texas. The legal description of the site is included in the warranty deeds and deeds of trust (Ref. 10, p. 500; 11, p. 697; 12, p. 266; and 13, pp. 271 and 272) (see Figures 1 and 2).

The Crim - Hammett Site (the "Site") occupies approximately 3.6 acres just south of Highway 64, in north Henderson, Texas (Ref. 10, p. 500; 11, p. 697; 12, p. 266; 13, p. 272; and 14). The Site was owned by members of the Crim family from September 21, 1928 until April 18, 1990 (Ref. 10; 11; 12; and 13). The International Harvester Franchise was also documented in Articles of Amendment to the Articles of Incorporation, to begin operations at the site on August 14, 1961 (Ref. 11, pp. 703 and 704) The Franchise was dissolved on March 5, 1986 (Ref. 11, p. 699). On April 18, 1990, the site was purchased by Scott Hammett from the Crim Family (Ref. 12).

On April 13, 1993, Richard Cain, an interested purchaser, initiated a Phase I Environmental Site Assessment for the site (Ref. 15). However, after receiving a verbal report of the assessment findings by Ana-Lab Corp, Mr. Cain stopped the assessment before the final report was prepared (Ref. 16). On March 6, 1994, Mr. Hammett notified the Texas Natural Resource Conservation Commission (TNRCC) of contamination buried at the Crim - Hammett Site (Ref. 17; 18; and 19, pp 2 and 3).

During the Crim Family's ownership of the site, an alleged landfill was used for the burial of waste oil, tanks, wood chips, drums, and battery chips (Ref. 3, SSI Photographs 16, and 19; 4, pp. 15, 49, and 51; 17; 18; and 19). Previous excavations on-site to identify the landfill materials may have resulted in hazardous substances being left on the site's surface (Ref. 3, SSI Photographs 16, and 19; and 4, pp. 15, 49, and 51). A comparison of aerial photographs from 1939 and 1960 show the area of the alleged landfill located on the northwest corner of Thompson Lake has been converted to land (Ref. 23; and 24).

The alleged landfill and contaminated soil are located at the west and southwest areas of the site (see Figure 2). Sample analysis results from a TNRCC Screening Site Inspection (SSI) conducted in February 1996 indicated the following contaminants detected in on-site soils: antimony (31.1 mg/Kg), barium (161 mg/Kg), cadmium (9.3 mg/Kg), copper (1,135 mg/Kg), lead (17,900 mg/Kg), zinc (137 mg/Kg), heptachlor (14.0 Fg/Kg), 4,4'-DDD (110.0 Fg/Kg),

and aroclor-1260 (2,600 Fg/Kg) (Ref. 5, p. 05008, Tables 4 and 5).

The February 1996 SSI sampling event also documented hazardous substances in Thompson Lake and Hardy Creek wetlands sediment located downstream from the site. Observed releases of arsenic (19.3 mg/Kg), chromium (58.0 mg/Kg), lead (123 mg/Kg), vanadium (78.4 mg/Kg), 4,4'-DDD (30 Fg/Kg), and chrysene (620 Fg/Kg) were detected in the sediment samples (Ref. 5, p. 05009, Table 7). No drinking water intakes are located within the 15-mile target distance limit (TDL) (Ref. 7; and 20). Neither Thompson Lake, nor the remainder of the 15-mile TDL are considered fisheries (Ref. 21). Thompson Lake is classified as a Palustrine/Open Water/Diked/Impounded (POWHh) wetland. However, the Thompson Lake wetland is a deepwater wetland which does not qualify as an HRS eligible wetland (Hazard Ranking System Guidance Manual, p. A-21). Hardy Creek is classified as a Palustrine/Forested/Broad-Leaved Deciduous/Temporary Water Regime (PFO1A) wetland, which is eligible to be used as an HRS wetland area (Ref. 6). The PFO1A wetland begins at the Thompson Lake spillway and extends 1.20 miles along Hardy Creek to a point just south of Main Street (Ref. 6). Sediment sample location SE-02 was the furthest downstream point that lead was detected (see Figure 3).

Threatened and endangered species which may use habitat within a 4-mile radius of the site are the *Picoides borealis* (Red-cockaded Woodpecker), *Haliaeetus leucocephalus* (Bald Eagle), *Pituophis melanoleucus ruthveni* (Louisiana Pine Snake), *Macrocllemys temminckii* (Alligator Snapping Turtle), and the *Plethodon serratus* (Southern Redback Salamander) (Ref. 22).

Figure 1 - Site Location Map

Figure 2 - Site Map

Figure 3 - Sample Location Map

## REFERENCES

- | <u>Reference Number</u> | <u>Description of the Reference</u>  |
|-------------------------|--|
| 1.                      | U.S. Environmental Protection Agency, 40CFR Part 300, <i>Hazard Ranking System</i> , Appendix A, 55 FR 51583, December 1990.   |
| 2.                      | U. S. Environmental Protection Agency, <i>Superfund Chemical Data Matrix (SCDM)</i> . June 1996.   |
| 3.                      | U. S. Environmental Protection Agency, Screening Site Inspection Report, Photographs, February 1996. 11 pages.   |
| 4.                      | U.S. Environmental Protection Agency. <u>Preliminary Assessment/Screening Site Inspection Field Logbook for Crim - Hammett Site, Henderson, Rusk County, Texas, CERCLIS #TXO001315886</u> , February 1996. 27 pages. |
| 5.                      | Texas Natural Resource Conservation Commission, Analytical Data Assessment of CLP Data Package, Crim - Hammett Site's Screening Site Inspection Analytical Results, February 1996. 9 pages.                          |
| 6.                      | U.S. Department of the Interior, Fish and Wildlife Service, Henderson, Texas Quadrangle, 7.5 Minute Series. <u>National Wetlands Inventory Map</u> . February 1980. 1 page.  |
| 7.                      | Hazelwood, Gary, Field Investigator, Texas Natural Resource Conservation Commission, to Steve Akers, City of Henderson. Telephone Memo. November 8, 1995. 1 page.  |
| 8.                      | Akers, Steve, City of Henderson, to Gary Hazelwood, Field Investigator, Texas Natural Resource Conservation Commission. Facsimile. November 8, 1995. 1 page.   |
| 9.                      | U.S. Geological Survey, Henderson, Texas Quadrangle, 7.5 Minute Series. <u>Topographic Map</u> . 1973. (Four-mile radius added by TNRCC). 1 page.  |
| 10.                     | Records of Rusk County, State of Texas, <u>Warranty Deed</u> . Volume 705, November 8, 1960. Pages 500-501.  |
| 11.                     | Records of Rusk County, State of Texas, <u>Warranty Deed</u> . Volume 1480, August 15,   |

1982. Pages 696-705.

12. Records of Rusk County, State of Texas, Warranty Deed. Volume 1685, April 18, 1990. Pages 265-270.
13. Records of Rusk County, State of Texas, Deed of Trust. Volume 1685, April 18, 1990. Pages 271-275.
14. Records of Rusk County, State of Texas, Plat Map. 1 page.
15. Ana-Lab Corporation Laboratory, to Richard Cain, East Texas Meat, Inc. Analytical Results Report and Chain of Custody Forms. April 13, 1993. 16 pages.
16. Bill Peery, Jr., Lab Manager, Ana-Lab Corporation Laboratory, to Vic McWherter, Enforcement Coordinator, Texas Natural Resource Conservation Commission. Letter. August 10, 1995. 1 page.
17. Scott Hammett, Office Visit, with Noel Luper, Field Investigator, Texas Natural Resource Conservation Commission. March 6, 1994. 1 page.
18. Scott Hammett, to Texas Natural Resource Conservation Commission. Telephone Complaint Entry Form. March 24, 1994. 1 page.
19. Mike Brashear and Molly Prater, Region 5 Waste Program Manager and Inspector, Texas Natural Resource Conservation Commission, to Mark Vickery, Municipal Solid Waste Enforcement and Compliance, Texas Natural Resource Conservation Commission. Interoffice Memorandum. April 2, 1995. 15 pages.
20. Reddy, Mohan, Agriculture-Watershed Management Division, Texas Natural Resource Conservation Commission, to Gary Hazelwood, Field Investigator, Texas Natural Resource Conservation Commission. Water Rights by Basin Data Base. Facsimile. October 25, 1995. 5 pages.
21. Hazelwood, Gary, Field Investigator, Texas Natural Resource Conservation Commission, to Bobby Colston, Game Warden, Texas Parks and Wildlife Department. Telephone Memo. December 28, 1995. 1 page.
22. Breslin, Shannon, Assistant Data Manager, Texas Parks and Wildlife Department, to Wesley Newberry, PA/SI Program Technical Director, Texas Natural Resource Conservation Commission. Letter. December 12, 1995. 7 pages.

23. Texas Natural Resources Information System. Aerial Photographs. North Henderson, Rusk County. August 16, 1939. 1 page.
24. Texas Natural Resources Information System. Aerial Photographs. North Henderson, Rusk County. January 30, 1960. 1 page.
25. Hazelwood, Gary, Field Investigator, Texas Natural Resource Conservation Commission, to Steve Akers, City of Henderson. Telephone Memo. December 4, 1995. 1 page.
26. Lin, Mabel, Texas Natural Resource Conservation Commission, to Gary Hazelwood, Field Investigator, Texas Natural Resource Conservation Commission. Telephone Memo. October 25, 1995. 1 page.

WORKSHEET FOR COMPUTING HRS SITE SCORE

		<u>S</u>	<u>S<sup>2</sup></u>
1.	Ground Water Migration Pathway Score ( $S_{gw}$ ) (from Table 3-1, line 13)	NE	
2a.	Surface Water Overland/Flood Migration Component (from Table 4-1, line 30)	60.00	3,600.00
2b.	Ground Water to Surface Water Migration Component (from Table 4-25, line 28)	NE	
2c.	Surface Water Migration Pathway Score ( $S_{sw}$ ) Enter the larger of lines 2a and 2b as the pathway score.	NE	
3.	Soil Exposure Pathway Score ( $S_s$ ) (from Table 5-1, line 22)	NE	
4.	Air Migration Pathway Score ( $S_a$ ) (from Table 6-1, line 12)	NE	
5.	Total of $S_{gw}^2 + S_{sw}^2 + S_s^2 + S_a^2$		3,600.00
6.	<b>HRS Site Score</b> Divide the value on line 5 by 4 and take the square root	<b><u>30.00</u></b>	

**TABLE 4-1  
SURFACE WATER OVERLAND/FLOOD MIGRATION COMPONENT SCORESHEET**

DRINKING WATER THREAT - Not evaluated due to lack of targets (Ref. 20)  
HUMAN FOOD CHAIN THREAT - Not evaluated due to lack of fishery (Ref. 21)

<u>Factor Categories and Factors</u>		<u>Maximum</u>	<u>Value</u>
		<u>Value</u>	<u>Assigned</u>
<b><u>Likelihood of Release:</u></b>			
1.	Observed Release (Ref. 5, Tables 2, 3, and 7)	550	550
2.	Potential to Release by Overland Flow		
	2a. Containment	10	NE
	2b. Runoff	25	NE
	2c. Distance to Surface Water	25	NE
	2d. Potential to Release by Overland Flow (lines 2a[2b+2c])	500	NE
3.	Potential to Release by Flood:		
	3a. Containment (Flood)	10	NE
	3b. Flood Frequency	50	NE
	3c. Potential to Release by Flood (lines 3a x 3b)	500	NE
4.	Potential to Release (Lines 2d + 3c, subject to a maximum of 500)	500	NE
5.	Likelihood to Release  (Higher of Lines 1 and 4)	550	<b>550</b>

**TABLE 4-1  
SURFACE WATER OVERLAND/FLOOD MIGRATION COMPONENT SCORESHEET**

ENVIRONMENTAL THREAT

**Factor Categories and Factors**

<b><u>Maximum</u></b>	<b><u>Value</u></b>
<b><u>Value</u></b>	<b><u>Assigned</u></b>

**Likelihood of Release**

22.	Likelihood of Release (Same Value as Line 5)	550	<b>550</b>
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**Waste Characteristics**

23.	Ecosystem Toxicity/Persistence/ Bioaccumulation [(DDD 5x10 <sup>8</sup> ), (heptachlor epoxide 5x10 <sup>8</sup> ), (PCB's 5x10 <sup>8</sup> ), and (lead 5x10 <sup>6</sup> )] (Ref. 2; and 5, Table 4)	*	5x10 <sup>8</sup>
24.	Hazardous Waste Quantity (Ref. 1, p. 51592, first bullet)	*	100
25.	Waste Characteristics (Ref. 1, p. 51624)	1,000	320

**Targets**

26.	Sensitive Environment:		
	26a. Level I Concentrations	**	0
	26b. Level II Concentrations (Hardy Creek Wetland - 1.80 miles) (Ref. 5, Tables 2, 3, and 7; 6; and Figure 4)	**	50
	26c. Potential Contamination	**	NE
	26d. Sensitive Environments (Lines 26a + 26b + 26c)	**	50
27.	Targets (Value from Line 26d)	**	<b>50</b>

**Environmental Threat Score**

28.	Environmental Threat Score  ((Lines 22 x 25 x 27)/82,500, subject to a maximum of 60): (550 x 320 x 50)/82,500 = 106.67 ***Use the maximum of 60.	60	<b>60</b>
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**SURFACE WATER OVERLAND/FLOOD MIGRATION COMPONENT SCORE FOR A WATERSHED**

29.	WATERSHED SCORE***  (Lines 13 + 21 + 28, subject to a maximum of 100)	100	<b>60</b>
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**SURFACE WATER OVERLAND/FLOOD MIGRATION COMPONENT SCORE**

30.	Component Score (S <sub>of</sub> )*** (Highest score from Line 29 for all watersheds evaluated, subject to a maximum of 100)	100	<b>60</b>
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\* Maximum value applies to waste characteristics category  
 \*\* Maximum value not applicable  
 \*\*\* Do not round to the nearest integer