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HRS DOCUMENTATION RECORD

for

Shelby Wood Specialty, Inc. Tenaha, Texas

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Austin, Texas

August 2006

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HAZARD RANKING SYSTEM DOCUMENTATION RECORD

for

Shelby Wood Specialty, Inc. Tenaha, Shelby County, Texas TXD981917396

Prepared by:

Texas Commission on Environmental Quality State Lead Section, Remediation Division Austin, Texas

August 2006

HRS Documentation Record

Shelby Wood Specialty, Inc. Tenaha, Shelby County, Texas TXD981917396

Prepared by

Texas Commission on Environmental Quality State Lead Section, Remediation Division Austin, Texas

HRS DOCUMENTATION RECORD

SHELBY WOOD SPECIALTY, INC.

TENAHA, SHELBY COUNTY, TEXAS

SIGNATURE PAGE

Hay Linguistry Gary L. Hazelwood Texas Commission on Environmental Quality Project Manager	8-21-06 Date
Donald R. Boothby, P.G. Texas Commission on Environmental Quality State Lead Team Leader, Team II	Q/II/OG Date
Lloyd Johnson Texas Commission on Environmental Quality QA/QC Officer	$\frac{9/12/06}{\text{Date}}$
Wesley G. Newberry Texas Commission on Environmental Quality Site Discovery and Assessment Program Coordinator	<u>A25/06</u> Date

Ata-ur Rahman, Ph.D.

State Lead Section Manager

Texas Commission on Environmental Quality

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HRS DOCUMENTATION RECORD - REVIEW COVER SHEET

SITE NAME:

Shelby Wood Specialty, Inc.

CONTACT PERSON:

Documentation Record:

Gary L. Hazelwood, TCEQ Project Manager (903) 535-5108

PATHWAYS OF CONCERN:

Surface Water Migration Pathway

Potential releases of hazardous substances to the surface water pathway are of concern for this site. Hazardous substances arsenic and chromium were detected at the potential point of entry (PPE) to a HRS qualifying wetland, but not in a downstream sediment sample location required to score the surface water pathway as actual contamination.

Soil Exposure Pathway

The soil exposure pathway is a major concern for this site. An off-site Level I observed release of arsenic has been documented within twenty feet of the nearest residence to the site.

PATHWAYS, COMPONENTS, OR THREATS NOT EVALUATED:

Groundwater Pathway

The groundwater migration pathway was investigated and found that no drinking water wells are located within one mile of the site. Mr. Vince De Verdi of the Paxton Water Supply Company provided information that all residents in the area of the Shelby Wood Specialty, Inc. site obtain their drinking water from the Paxton water system. The area beginning one mile further west of the site is supplied by the City of Tenaha Water Supply Company (Ref. 10). The Groundwater Migration Pathway does not contribute to 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 evaluation of these pathways is not documented in this report, the TCEQ is concerned for all pathways surrounding the site. However, evaluation of these pathways would not have significantly increased the overall site score.)

NOTES TO THE READER

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

- 1. All references attached to this report have been stamped with a designated page number (example: Ref. 1, p. 10 = 01001). However, if the reference being cited has an original page number, that page number was cited. If the reference being cited has no original page number or the pagination is not complete, then the designated page number is cited.
- 2. The State predecessor agencies: Texas Water Quality Board (TWQB), Texas Department of Water Resources (TDWR), Texas Water Commission (TWC), Texas Air Control Board (TACB), and Texas Natural Resource Conservation Commission (TNRCC) referred to throughout this report are now known as the Texas Commission on Environmental Quality (TCEQ). The new agency, TCEQ, became effective September 1, 2002, as mandated under State House Bill 2912, Article 18 of the 77th Regular Legislative Session.

HRS DOCUMENTATION RECORD

Name of Site:

Shelby Wood Specialty, Inc.

Date Prepared:

05/2006

CERCLIS Site ID Number:

TXD981917396

TCEQ ID#:

N/A

SITE LOCATION:

Street Address of Site:

3295 U.S. Highway 84 East (see Figure 1, Site Location

Map).

City, County, State:

Tenaha, Shelby County, Texas

Topographic Map:

US Geological Survey 7.5 Minute Topographic Map, Tenaha

East, Tex. (Figure 1).

Latitude: 31° 57′ 23″ North

Longitude: 94° 11′ 31″ West

TCEQ Region:

10



Pathway Scores:

Groundwater Migration Pathway -

PE/NS

Surface Water Migration Pathway -

9.0

Soil Exposure Pathway -

7.8

Air Migration Pathway -

PE/NS

PE/NS - Pathway evaluated but does not contribute to site score.

HRS SITE SCORE: 5.95

SITE SUMMARY

General Description of the Site:

The Shelby Wood Specialty, Inc. site is approximately 27.4 acres, located (3) three miles east of Tenaha on the south side of Highway 84 (Ref. 11, pp. 11002 and 11006; 12, p. 12001; 13; and Figure 1). The site is located at Longitude 94° 11' 31.64" West and Latitude 31° 57' 23.46" North, Tenaha, Shelby County, Texas (Ref. 3, p. 03007, SO-03). U. S. Highway 84 runs along the site's north property line (Ref. 11, pp. 11002 and 11006; and Figure 1). Mr. Blackie Berry's residence is located immediately west of the site and the rest of the areas around the site are rural. The facility is unsecured, it is not fenced on all sides and the gate was open each day the site was driven by. No warning signs are posted along the site's perimeter.

Site History:

Private individuals owned the property until June 1979, when the First National Bank in Center, Texas was the highest bidder after a previous owner defaulted on a loan (Ref. 14; 15; and 16). The First National Bank sold the 27.4 acres to Shelby Wood Specialty, Inc., on November 17, 1980 (Ref. 17). Shelby Wood Specialty defaulted on their loan on December 3, 1985, and Allied Marshall Bank was the highest bidder for the 27.4 acres (Ref. 18). Allied Marshall Bank sold the property to Steven Joe Watson on July 9, 1986 (Ref. 19). Steven Watson sold the property to Floyd (Doc) A. Watson on September 29, 1995 (Ref. 20). On February 24, 1997, Floyd Watson sold the property to BGS Foundation, Inc., which is the current legal owner of the property (Ref. 21 and 22). A Texas Comptroller database search revealed BGS Foundation's Registered Agent is Floyd A. Watson. On August 22, 2005, Floyd Watson signed an access agreement, to conduct the sampling event at the site (Ref. 8, p. 08001). Jason Odom, tenant, provided information about the site (Ref. 23). Over the past twenty years since Shelby Wood Specialty, Inc. ceased operations, the site has been leased by several businesses. The site has been used by auto body shops with one room used as a paint booth for automobiles. P&L Rental, a recreational vehicle rental company, is currently leasing the property from Floyd (Doc) A. Watson, per tenant - Jason Odom (Ref. 23). Interstate Pipeline Co., a tenant during 1989, stored equipment on the site (Ref. 12, p. 12001).

Deed records indicate Shelby Wood Specialty, Inc. operated from November 1980 until December 1985 (Ref. 17; and 18). Shelby Wood utilized four to five acres of the 27.4 acre property for wood treating with CCA (Ref. 12, p. 12001). The Shelby County Appraisal records indicate 3.4 of the 27.4 acre site was described as commercial (Ref. 13, p. 13001). Rails formally lead to a pressure vessel that used CCA for treating wood. The pressure vessel and chemical tanks are no longer onsite and the rails have been covered with concrete, per the current tenant (Ref. 23). On August 29, 1989, Engineering Science, Inc. (ES) conducted a site inspection for the EPA and collected one background and two onsite soil samples (Ref. 12, pp. 12004, 12013 - 12015, and 12023). The highest onsite soil samples indicated levels of chromium 6,322 mg/kg, copper 6,577 mg/kg, and arsenic 5,964 mg/kg as compared to background levels of chromium 9.75 mg/kg, copper 15.1 mg/kg, and arsenic 4.49 mg/kg. A site sketch is included in the site's file and indicates the sample locations, which were collected to a depth of six inches (Ref. 12, p. 12015).

Surface Water Pathway

A sediment sampling event was conducted on August 23, 2005, by the TCEQ, six sediment samples were collected (Ref. 3, pp. 03001 - 03004; and 4, pp. 04001 - 04003, photographs 1 - 5). Dedicated stainless steel spoons and bowls were used to collect each sediment sample. The Surface Water Overland/Flood Migration Pathway has two HRS qualifying wetlands, (Palustrine/Emergent/Narrowleaved Persistent/Temporary Flooded (PEM5A) and Palustrine/Forested/Broad leaved Deciduous/ Temporarily Flooded (PFO1A)), located 0.8 miles from the site, along intermittent Shoat Creek (Ref. 5) see Figure 2 - Wetland Inventory Map. Three sediment samples, SE-01 through SE-03, were background samples (see Ref. 5, Figure 3). Three sediment samples, SE-04 through SE-06, were collected from the PEM5A wetland (Ref. 5). Observed releases of arsenic and chromium were detected in the sediment sample SE-04 (Ref. 6, p. 06161), collected at the PPE to the PEM5A wetland and in sediment sample SE-05 (Ref. 6, p. 06166), collected 25 feet downstream from the PPE (see Figure 3). An observed release was not detected in sediment sample SE-06, collected 0.1 mile downstream of the PPE, therefore the wetland was evaluated for potential impact instead of a Level II release (see Figure 3; and Table 1). These hazardous substances are attributed to the Shelby Wood Specialty, Inc. site, where they were detected at significantly higher levels than in the wetland. The on-site source is discussed in more detail under the soil exposure pathway section, following this section. The wetland was evaluated based on onsite detections of cadmium and pyrene (Ref. 6, pp. 06128, 06130, and 06133). Cadmium and pyrene were selected from the list of observed releases at the site, to calculate the waste characteristics value, due to their ecotoxicity of 10,000, persistence of 1.0, and fresh water environmental bioaccumulation value of 50,000 (Ref. 2). The hazardous waste quantity default value of ten was selected, since the hazardous constituent quantity is not adequately determined (Ref. 1, section 2.4.2.2). Including both banks of the unnamed intermittent creek to Flat Fork Creek, a two to three mile length of HRS qualifying PEM5A and PFO1A wetlands are subject to potential releases from the site (Figure 2). The assigned wetland rating value is 7.5 (Ref. 1, Table 4-24, and 4.1.4.3.1.3). Perennial surface water was not encountered within the two mile overland drainage pathway distance from the source, therefore only the environmental threat target contributes to the site score while the drinking water and human food chain threats do not contribute to the site score.

			SH	IELBY	SHELBY WOOD SPECIALTY, INC.	PECL	ALTY, I	NC.					
TAB	TABLE 1 - BACKGRO	ICKG	ROUND A	W QN	UND AND WETLAND SEDIMENT SAMPLE ANALYSIS RESULTS*	SEDIN	MENT S	AMPLE A	NALY	SIS RES	ULTS	•	
Constituents	SE-01 Backeround	pun	SE-02 Background	2 und	SE-03 Backeround	3 und	3X Highest	SE-04 PPE to	+ 0	SE-05 PPE + 25 Feet	Feet	SE-06 PPE + 0.1 Mi.	S I Mi.
	0		0		Duplicate of SE-02	f SE-02	Bkg	PEM5A Wetland	etland	PEM5A Wetland	etland	PEM5A Wetland	etland
INORGANIC mg/Kg RESULT SQL	RESULT	7ÖS	RESULT	7ÕS	RESULT SQL RESULT SQL	7 <i>ō</i> s		RESULT	7ÕS	RESULT SQL RESULT SQL RESULT SQL	TÕS	RESULT	TÕS
Arsenic	1.63	0.120	1.71	0.110	1.74	0.110	5.22	5.58	0.100	9.81 0.110 2.1	0.110	2.1	0.140
Chromium	4.06	0.063	7.61	0.061	5.13	0.060	0.060 22.83	26.7	0.055	41.1	0.062	8.84	0.075
Zinc	12.1	0.089	13.8	0.087	12	0.086	0.086 41.4	31.7	0.078	43.5 0.088	0.088	22	0.110
Reference Information	Ref. 6, p. 06181	18190	Ref. 6, p. 06176	92190	Ref. 6, p. 06113	06113		Ref. 6, p. 06161	16161	Ref. 6, p. 06166 Ref. 6, p. 06171	99190	Ref. 6, p.	06171

*Table contains only constituents with observed releases that are attributable to the Shelby Wood Specialty, Inc. Site

No observed releases of semivolatile constituents were detected Shaded/Bold - Met the observed release criteria.

NA - Not applicable.

SQL - Sample quantitation limit. ND - Undetected at the laboratory reported detection limit (IDL).

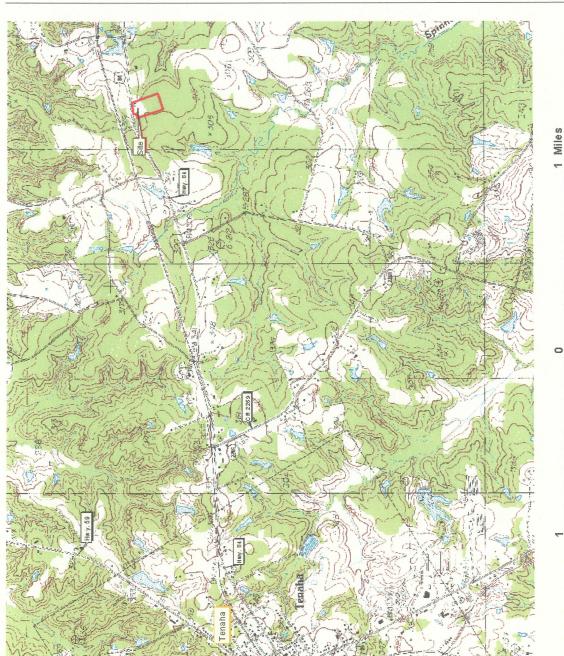
Soil Exposure Pathway

A soil sampling event was conducted on August 23, 2005. Eight soil samples were collected from 1 - 8 inches depth, with dedicated stainless steel spoons and bowls (Ref. 3, pp. 03005 - 03008; and 4, pp. 04003 - 04006, photographs 6 - 12). Two of the soil samples were background samples, SO-01 and SO-02, see Figure 4, for their locations. Five soil samples were collected from the site, SO-03 through SO-07. SO-07 is a duplicate of soil sample SO-06. Soil sample SO-08 was collected from a residential property, at the closest residence. The Soil Exposure Pathway has documented observed releases of arsenic, cadmium, calcium, chromium, copper, magnesium, manganese, sodium, zinc, acenaphthylene, anthracene, benz(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, carbazole, chrysene, dibenz(a,h)anthracene, dibenzofuran, fluoranthene, flourene, indeno(1,2,3-cd)pyrene, phenanthrene, and pyrene (Ref. 6, pp. 06118 - 06122 and 06123 - 06147). The hazardous waste quantity default value of ten was selected, since the hazardous constituent quantity is not adequately determined (Ref. 1, section 2.4.2.2). The soil exposure pathway was evaluated based on chromium's toxicity of 10,000 (Ref. 2) and 18 was assigned as the hazardous waste quantity (Ref. 1, Table 2-7).

The targets are the current on-site workers for P&L Rental that is leasing the site and the resident individual, living within 20 feet of a level I concentration of arsenic (Ref. 3, p. 03008; 4, pp. 04004 - 04006, photographs 8 - 12; and 8, pp. 08002 - 08003). Arsenic concentrations exceeded Texas Risk Reduction Program (TRRP) protective concentration levels (PCLs) in soil sample SO-08, collected at a residential property at the closest residential property (Ref. 2; 6, p. 06143; and 9, pp. 09002 - 09003). The residential soil sample was collected approximately twenty feet from Mr. Blackie Berry's residence, which is located just west of the site. Mr. Berry is a widower that lives by himself at the closest residence. There were on site levels of arsenic over four times higher than the residential sample, but at levels within TRRP's protective concentration levels for commercial property. The nearby individual target was not evaluated, since one person met the criteria for a resident individual (Ref. 1, section 5.2.3.1). The nearby population count surrounding the Shelby Wood Specialty, Inc. site is eight people in the 0 to 0.25 mile radius, 18 in the 0.25 to 0.5 mile radius, 68 in the 0.5 to 1 mile radius, 282 in the 1 to 2 mile radius, 371 in the 2 to 3 mile radius, and 1,119 in the 3 to 4 mile radius.

			ıţ	тõs	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	ТÕS	0.11	0.025	8.2	0.057	0.033	2.1	4.1	7.4	0.082	p. 147	
	80 03	Closest	Resident	RESULT 3	QN	QN	QN	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	RESULT	24.8	0.282 0		47.4	37.5	411	290	23	53.8 0	Ref. 6, pp. 06143 - 06147	
	3.V	Highest	Bkg		NA	NA	ΥN	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		6.93	0.369	6030	28.74	26.34	1704	774	45.9	82.2		
	7.		-06	7ÕS	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	TÕS	0.13	0.0300	9.9	0.07	0.04	2.6	0.05	9.6	9.6	06118 -	
SL	60.02	Duplicate	of SO-06	RESULT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	RESULT	8.26	0.0568	580	25	7.24	90.3	81.9	12.4	390	Ref. 6, pp. 06118 06122	
RESIT		. e	;e	7ÕS	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	7ÕS	0.12	0.0270	1.6	0.064	0.04	2.4	0.046	8.30	9.1	,	
ANAL VSIS RESTILTS	80.09	On-site	Source	RESULT	ND	ND	QN	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	RESULT	5.7	0.0354	478	20.3	5.88	83.8	87.8	8.84	257	Ref. 6, pp. 06138 06142	NA - Not applicable.
			4)	7ÕS	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	TÕS	0.11	0.026	098	90.0	0.035	2.2	4.3	7.9	0.086	6123 -	A - Not a
LBY WOOD SPECIALTY, INC.	80.09	On-site	Source	RESULT	QN	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	RESULT	43.8	0.0761	38900	89.5	59.1	807	284	80.2	60.7	Ref. 6, pp. 06123 - 06127	Z
IAL)		. 0	0	7ÕS	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	TÕS	0.12	0.027	016	6.4	3.7	2.4	4.6	8.3	9.1	6133 -	
LBY WOOD SPECIALTY, INC.	60.03	On-site	Source	RESULT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	QN	ND	ND	ND	ND	RESULT	23	0.39	34000	206	39.6 J	1820	1540	203	170	Ref. 6, pp. 06133 - 06137	ation limit.
MOC				7ÕS	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	7ÕS	9.5	0.022	730	5.1	2.9	1.9	3.6	9.9	7.3	128 - 1	e quantita stimated
		On-site	Source	RESULT	110 J	190 JL-SUR	490 JL-SUR	420 JL-SUR	670 JL-SUR	290 JL-SUR	300 JL-SUR	160 JL-SUR	670 JL-SUR	52 JL-SUR	80 JL-SUR	1600 JL-SUR	50 JL-SUR	350 JL-SUR	1100 JL-SUR	1200 JL-SUR	RESULT	117	0.461	72900	280	154	7210	2040	183	6.98	Ref. 6, pp. 06128 06132	SQL - Sample quantitation limit. J - Result is estimated.
SHE BACKGROUNI	Hioheet	Bkg			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ΑN	NA	NA	NA	NA		2.31	0.123	2010	9.58	8.78	268	258	15.3	27.4		
BAC		_ puno		7ÕS	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	7ÕS	0.12	0.027	8.9	0.063	0.036	2.30	4.50	8.10	0.1	06151 55	nit (IDL).
TABLE 2 -		Background		RESULT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ON .	ND	ND	ND	RESULT	2.31	0.101	2010	5.75	5.66	9.895	258	15.3	21.1	Ref. 6, pp. 06151 - 06155	teria. detection lin
TAI	1	punc		7ÕS	31	31	31	31	31	31	31	31	31	31	18	31	31	31	31	31	7ÕS	0.11	0.025	8.30	0.06	0.03	2.200	0.042	7.60	0.083	. 06156 60	lease crit
	SO-01	Background		RESULT	ND	ND	ND	QN	QN	ΩN	ΠN	ΩN	GN	ΩN	QN	QN	ΩN	QN	QN	ND	RESULT	16.1	0.123	437	9.58	8.78	911	9:59	9.32 J	27.4	Ref. 6, pp. 06156 - 06160	observed re e laboratory
	Constituents			SEMIVOLATILE μg/Kg	Acenaphthene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Carbazole	Chrysene	Dibenz(a,h)anthracene	Dibenzofuran	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Phenanthrene	Pyrene	INORGANIC mg/Kg	Arsenic	Cadmium	Calcium	Chromium	Copper	Magnesium	Manganese	Sodium	Zinc	Reference Information	Shaded/Bold - Met the observed release criteria. ND - Undetected at the laboratory reported detection limit (IDL).

Shelby Wood Specialty, Inc. TXD981917396



Shelby Wood Specialty, Inc. Tenaha (Shelby County) Texas

TXD981917396

Site Location Map Miles

0

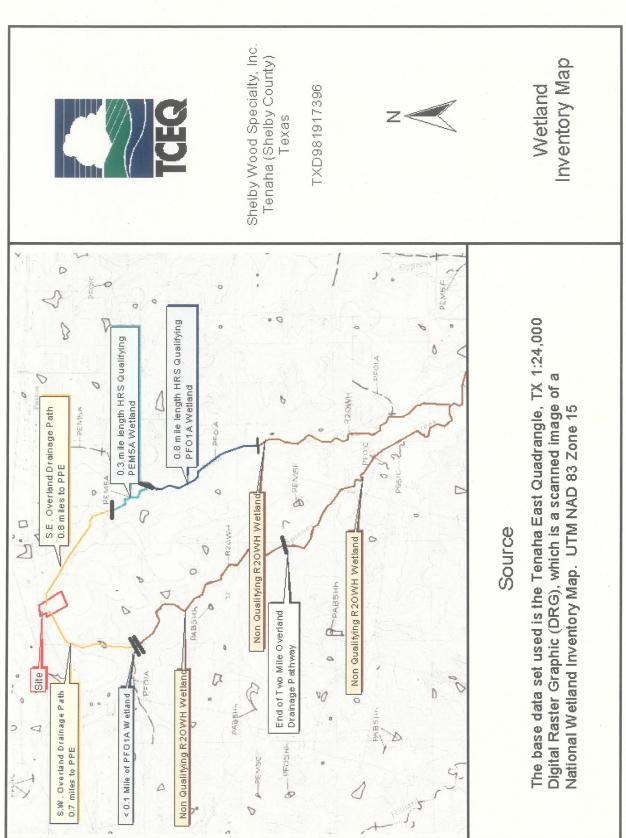
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August 2006

The base data set used is the Tenaha East Quadrangle, TX 1:24,000 Digital Raster Graphic (DRG), which is a scanned image of a U.S. Geological Survey topographic map. UTN NAD 83 Zone 15

Source

Figure 2 - Wetland Inventory Map



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Figure 3 - Sediment Sample Location Map



Shelby Wood Specialty, Inc. Tenaha (Shelby County) Texas

TXD981917396



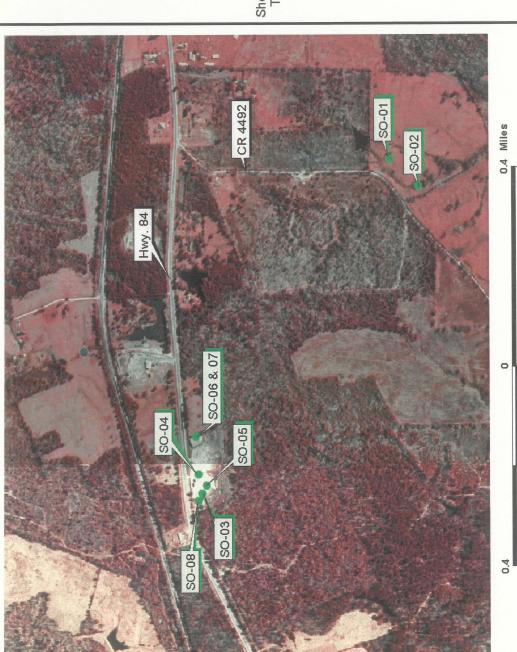
Sediment Sample Location Map

Source

Shelby Wood Specialty, Inc. TXD981917396 The base data set used are the Tenaha East NW and NE, TX Digital Orthoquarter Quadrangles (DOQQ), which are digital photographs processed by the TCEQ GIS Section, with GPS data points added. UTN NAD 83 Zone 15

HRS Documentation Record

August 2006



Shelby Wood Specialty, Inc. Tenaha (Shelby County) Texas TXD981917396



Soil Sample Location Map

Source

The base data sets used are the Tenaha East NW and NE, TX Digital Orthoquarter Quadrangles (DOQQ), which are digital photographs processed by the TCEQ GIS Section, with GPS data points added. UTN NAD 83 Zone 15 Shelby Wood Specialty, Inc. TXD981917396

12

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Number Description of the Reference

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- 2. U. S. Environmental Protection Agency, Superfund Chemical Data Matrix (SCDM). January 2004.
- 3. Hazelwood, Gary, Project Manager, Texas Commission on Environmental Quality, Sampling Event Field Notes. August 23, 2005. 8 pages.
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- 5. U.S. Department of the Interior. National Wetland Inventory Map, Tenaha East, Tex., 7.5 Minute Topographic Quadrangle. 1 page.
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- 12. Engineering-Science, Inspection Report. August 29, 1989. 27 pages.
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- 23. Hazelwood, Gary, Project Manager, Texas Commission on Environmental Quality, Field Notes, Deed Search Summary and Interview With Site Tenant, Jason Odom, P&L Rental. February 3, 2005. 1 page.
- 24. Cook, Kelly, Texas Commission on Environmental Quality, to Gary Hazelwood, Population Ring Information for the Shelby Wood Specialty, Inc. Site. February 11, 2005. 9 pages.

WORKSHEET FOR COMPUTING HRS SITE SCORE

		<u>S</u>	$\underline{S^2}$
1.	Ground Water Migration Pathway Score (S _{gw}) (from Table 3-1, line 13)		
2a.	Surface Water Overland/Flood Migration Component (from Table 4-1, line 30)	9_	81
2b.	Ground Water to Surface Water Migration Component (from Table 4-25, line 28)		
2c.	Surface Water Migration Pathway Score (S _{sw}) Enter the larger of lines 2a and 2b as the pathway score.		
3.	Soil Exposure Pathway Score (S _s) (from Table 5-1, line 22)	7.8	60.84
4.	Air Migration Pathway Score (S _a) (from Table 6-1, line 12		
5.	Total of $S_{gw}^2 + S_{sw}^2 + S_s^2 + S_a^2$		141.84
6.	HRS Site Score Divide the value on line 5 by 4 and take the square root		5.95

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

Factor Ca	tegories aı	nd Factors	Maximum Value	Value Assigned
DRINKING	G WATER	THREAT (Not Evaluated, go to Environmental Threat)		
Drinking V	Water Thr	reat Score		
1.	Observe	d Release (Observed Releases are documented in Table 1)	550	<u>550</u>
2.	Potentia	I to Release by Overland Flow:		
	2a.	Containment	10	<u>10</u>
	2b.	Runoff	25	<u>1</u>
	2c.	Distance to Surface Water	25	<u>6</u>
	2d.	Potential to Release by Overland Flow		
		(Lines $2a \times (2b + 2c)$)	500	<u>70</u>
3.	Potentia	l to Release by Flood:		
	3a.	Containment (Flood)	10	<u>10</u>
	3b.	Flood Frequency	50	<u>7</u>
	3c.	Potential to Release by Flood		
		(Lines 3a x 3b)	500	<u>70</u>
4.	Potentia	I to Release		
	(Lines 2	d + 3c, subject to a maximum of 500)	500	<u>140</u>
5.	Likeliho	od to Release		
	(Higher	of Lines 1 and 4)	550	<u>550</u>
Waste Cha	racteristi	<u>cs</u>		
6.	Toxicity	/Persistence	*	
7.	Hazardo	us Waste Quantity	*	<u>10</u>
8.	Waste C	haracteristics	100	<u>0</u>
Targets				
9.	Nearest	Intake	50	
10.	Population	on:		
	10a.	Level I Concentrations	**	_
	10b.	Level II Concentrations	**	_
	10c.	Potential Contamination	**	
	10d.	Population (Lines 10a + 10b + 10c)	**	
11.	Resource	es	5	
12.	Targets ((Lines 9 + 10d + 11)	**	_

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

DRINKING WATER THREAT (Concluded)

Factor Ca	tegories a	nd Factors	Maximum Value	Value Assigned
Drinking \(\frac{1}{2}\)	Water Thi	reat Score		
13.		g Water Threat Score ((Lines 5 x 8 x 12)/82,500, subject kimum of 100)	100	<u>0</u>
HUMAN F	FOOD CHA	AIN THREAT (Not Evaluated, go to Environmental Threat)		
Likelihood	l of Releas	<u>se</u>		
14.	Likeliho	od of Release (Same value as Line 5)	550	<u>550</u>
Waste Cha	<u>aracteristi</u>	<u>cs</u>		
15.	Toxicity	/Persistence/Bioaccumulation	*	
16.	Hazardo	ous Waste Quantity	*	<u>10</u>
17.	Waste C	haracteristics	1,000	<u>0</u>
Targets				
18.	Food Ch	ain Individual	50	
19.	Populati	on:		
	19a.	Level I Concentrations	**	<u>_</u> :
	19b.	Level II Concentration	**	_
	19c.	Potential Human Food Chain Contamination	**	_
	19d.	Population (Lines 19a + 19b + 19c)	**	_
20.	Targets			
	(Value f	rom Lines 18 + 19d)	**	
Human Fo	od Chain	Threat Score		
21.		Food Chain Threat Score ((Lines 14 x 17 x 20)/82,500 o a maximum of 100)	100	<u>0</u>

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

Factor Ca	tegories a	nd Factors	Maximum Value	Value Assigned	
ENVIRON	IMENTAL	THREAT			
Likelihoo	d of Releas	<u>se</u>			
22.		ood of Release (Same Value as Line 5) (See Tables 1 Observed releases of arsenic and chromium are attributable te)	550	550	
Waste Ch	aracterist	ics			
23.		em Toxicity/Persistence/ Bioaccumulation (Ref. 2, Based ium and pyrene: 10,000x1.0x50,000=500,000,000)	*	500,000,000	
24.	for a haz	ous Waste Quantity (Ref. 1, Sec. 2.4.2.2) The default value cardous constituent quantity not adequately determined for I wetland impact is 10.	*	<u>10</u>	
25.	Waste C	Characteristics (Ref. 1, Table 2-7)	1,000	<u>180</u>	
Targets					
26.	Sensitiv	e Environment:			
	26a.	Level I Concentrations	**		
	26b.	Level II Concentrations	**	_	
	26c.	Potential Contamination (Ref. 1, Table 4-24, Sec. 4.1.4.3.1.3; and 5) Both banks of 1.1 miles of HRS qualifying wetlands equals 2.2 miles of wetlands. The value 75 is reduced to a 7.5 value due to potential impact rather than a Level II impact.	**	<u>7.5</u>	
	26d.	Sensitive Environments			
		(Lines 26a + 26b + 26c)	**	<u>7.5</u>	
27.	Targets	(Value from Line 26d)	**	<u>7.5</u>	
Environm	ental Thro	eat Score			
28.	Environ	mental Threat Score			
		22 x 25 x 27)/82,500, subject to a maximum of 60) 0x7.5)/82,500=9	60	9	
SURFACE SCORE FO		OVERLAND/FLOOD MIGRATION COMPONENT TERSHED			
29.	WATER	SHED SCORE***			
	(Lines 1	3 + 21 + 28, subject to a maximum of 100)	100	9	
SURFACE SCORE	WATER	OVERLAND/FLOOD MIGRATION COMPONENT			
30.		ent Score (S _{of})*** (Highest score from Line 29 for all eds evaluated, subject to a maximum of 100)	100	9	

SOIL EXPOSURE PATHWAY SCORESHEET

SIDENT I	POPULATION	and Factors ON THREAT on Aquifer	Maximum Value	Value Assigned
1.	Likelih arsenic	ood of Exposure (Table 1) A Level I observed release of is documented at the closest resident's property, imately twenty five feet from his residence.	550	<u>550</u>
Waste	Characteri	<u>stics</u>		
2.	Toxicit	y (Ref. 2) Arsenic	*	10,000
3.	constitu	ous Waste Quantity (Ref. 1, Section 2.4.2.2) The hazardous tent quantity is not adequately determined, therefore a value of 10 is assigned.	*	<u>10</u>
4.	Waste	Characteristics (Ref. 1, Table 2-7)	100	<u>18</u>
Targets	<u>s</u>			
5.	Photogi docume	nt Individual (Ref. 1, Section 5.1.3.1; 3, p. 03008; 4, p. 04006, raph 12; and 9) A Level I observed release of arsenic was nted on Mr. Blackie Berry's property, within twenty five feet	50	<u>50</u>
6.	of his h			
0.	6a.	nt Population: Level I Concentrations (Ref. 1, Section 5.1.3.2) One resident individual subject to Level I concentration of arsenic.	**	<u>10</u>
	6b.	Level II Concentrations	**	_
	6c.	Resident Population (Lines 6a + 6b)	**	_
7.		rs (Ref. 8, p. 08002; and 23) P&L Rental is currently leasing Jason Odom is a full time employee.	15	<u>5</u>
8.	Resource	ces	5	<u>0</u>
9.	Terrest	rial Sensitive Environments	***	_
10.	Targets	(Lines $5 + 6c + 7 + 8 + 9$)	**	<u>65</u>
Resider	nt Populatio	on Threat Score		
11.	Resider	nt Population Threat (Lines 1 x 4 x 10) 550x18x65=643,500	**	643,500
<u>NEARI</u>	BY POPUL	ATION THREAT		
Likelih	ood of Exp	<u>osure</u>		
12.		veness/Accessibility (Ref. 1, Table 5-6) The site is le, but no public recreational use.	100	<u>10</u>
13.		Contamination (Ref. 1, Table 5-7; and 13, p. 13001) 3.4 $144,704$ ft ² = 40 value	100	<u>40</u>
14.	Likeliho	ood of Exposure (Ref. 1, Table 5-8)	500	<u>5</u>

Maximum value applies to waste characteristics category

^{**} Maximum value not applicable

*** No specific maximum value applies to factor. However, pathway score based solely on terrestrial sensitive environments is maximum of 60 limited

^{****} Do not round to the nearest integer