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US EPA RECORDS CENTER REGION 5

549271

N 1.59 9/10/90

MEMORANDUM

DATE: November 10, 1989

TO: William Messenger, Chief Pre-Remedial Unit

FROM: Jerome D. Oskvarek, FIT Office Manager

SUBJECT: Transmittal Memorandum Identifying A Potential NFRAP Facility

CERCLIS Site Name: Swan Creek Landfill

City: Toledo

State: Ohio

U.S. EPA ID No.: OHD980679419

SSID No.: N/A

TDD No.: F05-8706-382

PAN: F0H0486GA

THIS DOCUMENT IS CONFIDENTIAL. Due to the predecisional nature of this memorandum, this memorandum and its attachments are not to be released without prior approval of the Untied States Environmental Protection Agency (U.S. EPA).

A work plan was tasked for the above-reference site; however, due to the HRS 1 preliminary and projected calculated scores, a work plan will not be prepared. The HRS worksheets are attached to this memorandum.

HRS 1 PRELIMINARY AND PROJECTED SCORES

PRELIMINARY HRS SCORE (this score is based on existing file information that was obtained prior to the screening site inspection):

S_M= 0 S_{FE}= 0 S_{DC}= 0

PROJECTED HRS SCORE FOR A SCREENING SITE INSPECTION (this score is based on the expected acquisition of information from the screening site inspection):

S_M= 3.67 S_{FE}= 7.92 S_{DC}= 62.50

PROJECTED HRS SCORE FOR A LISTING SITE INSPECTION (this score is based on the expected acquisition of information from the Listing Site Inspection):

S_M= 7.59 S_{FE}= 7.92 S_{DC}= 62.50

HRS 1 score worksheets are attached to this memorandum.

RECOMMENDATIONS

The HRS 1 scores are below 25.00. As a result the site should be designated as a NFRAP facility.

COMMENTS

The FIT would like to make the following additional comments concerning the site.

1. The entire City of Toledo utilizes Lake Erie Surface Water for drinking.

2. According to the Preliminary Assessment. An Ohio E.P.A. inspection found no hazardous waste at the site.

3. There are no such sensitive environments threatened in the area.

4.

5.

PRELIMINARY AND PROJECTED HAZARD RANKING SYSTEM SCORE WORKSHEETS

Site Name: Swan Creek Landfill (Cercla Name)

(AKA)

Address: Glendale Ave @ Swan Creek

City/County/State/Zip Toledo / Lucas / Ohio / 43614

Cerclis ID # OHD980679419 SSID None

Prepared by Douglas D. Cusin E&E Date 10-19-89

Reviewed by Daniel Sullivan E&E Date

TDD: F05-8706-382 PAN F0H0485GA

Type of Document

PA ____

PA Reassessment ____

WP-SSI ✓

WP-LSI ____

PRELIMINARY HRS SCORE

S_M= 0 S_{FE}= 0 S_{OC}= 0

PROJECTED HRS SCORE FOR SCREENING SITE INSPECTION (SSI)

S_M= 3.67 S_{FE}= 7.92 S_{OC}= 62.50

PROJECTED HRS SCORE FOR LISTING SITE INSPECTION (LSI)

S_M= 7.59 S_{FE}= 7.92 S_{OC}= 62.50

HRS WORKSHEETS

Hazard Ranking System 1
Score Worksheets

PRELIMINARY HRS SCORE

(THIS SCORE IS BASED ON EXISTING FILE INFORMATION THAT WAS OBTAINED PRIOR TO THE SCREENING SITE INSPECTION)

	S	S^2
Groundwater Route Score (S_{gw})	0	0
Surface Water Route Score (S_{sw})	0	0
Air Route Score (S_a)	0	0
$S_{gw}^2 + S_{sw}^2 + S_a^2$		0
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2}$		0
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2} / 1.73 = S_M$		0

PROJECTED HRS SCORE FOR SCREENING SITE INSPECTION (SSI)

(THIS SCORE IS BASED ON THE EXPECTED ACQUISITION OF INFORMATION FROM THE SCREENING SITE INSPECTION)

	S	S^2
Groundwater Route Score (S_{gw})	4.18	17.47
Surface Water Route Score (S_{sw})	4.78	22.85
Air Route Score (S_a)	0	0
$S_{gw}^2 + S_{sw}^2 + S_a^2$		40.32
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2}$		6.35
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2} / 1.73 = S_M$		3.67

PROJECTED HRS SCORE FOR LISTING SITE INSPECTION (LSI)

(THIS SCORE IS BASED ON THE EXPECTED ACQUISITION OF INFORMATION FROM THE LISTING SITE INSPECTION)

	S	S^2
Groundwater Route Score (S_{gw})	10.44	108.99
Surface Water Route Score (S_{sw})	7.97	63.52
Air Route Score (S_a)	0	0
$S_{gw}^2 + S_{sw}^2 + S_a^2$		172.51
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2}$		13.13
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2} / 1.73 = S_M$		7.59

GROUNDWATER ROUTE

PRELIMINARY HRS SCORE WORKSHEET

(This score is based on existing file information that was obtained prior to the Screening Site Inspection.)

Rating Factor	Assigned Value (Circle One)	Multi-plier	Score	Description	Ref. #
1 Observed Release	(0) 45	x1			
If Observed Release scores 45 proceed to line 4 If Observed Release scores 0 proceed to line 2					
2 Route Characteristics				Aquifer Description: Limestone	8
Depth to Aquifer of concern	0 (2) 3	x2	4	40 ft.	8
Net Precipitation	0 (1) 2 3	x1	1	Precip 31.56" Evap 31.5"	2
Permeability of the Unsaturated Zone	(0) 1 2 3	x1	0	10^{-7} cm/sec Yellow & Blue Clay	8
Physical State	(0) 1 2 3	x1	0	UNKNOWN	
	Total Route Char. Score		5		
3 Containment	0 1 2 (3)	x1	3	No known containment	
4 Waste Characteristics					
Toxicity / Persistence (0 / 0 1 2 3; 1 / 3 6 9 12; 2 / 6 9 12 15; 3 / 9 12 15 18)		x1	0	UNKNOWN	
Haz. Waste Quantity	(0) 1 2 3 4 5 6 7 8	x1	0	UNKNOWN	
	Total Waste Char. Score		0		
5 Targets					
Groundwater Use	(0) 1 2 3	x3	0	Toledo is on L. Erie Surface water	3,4,9
Distance to Nearest Well / Population Served (0 / 0 0 0 0 0; 1 / 0 4 6 8 10; 2 / 0 8 12 16 20; 3 / 0 12 18 24 30; 4 / 0 16 24 32 35; 5 / 0 20 30 35 40)		x1	0	N/A	
	Total Targets Score		0		
6 If line 1 is 45, multiply 1 x 4 x 5 If line 1 is 0, multiply 2 x 3 x 4 x 5			0		
7 Divide line 6 by 57,330 and multiply by 100			S_{gw} = 0		

GROUNDWATER ROUTE

PROJECTED HRS SCORE WORKSHEET FOR SCREENING SITE INSPECTION (SSI)

(This score is based on the expected acquisition of information from the Screening Site Inspection.)

Rating Factor	Assigned Value (Circle One)	Multi-plier	Score	Description	Ref. #
1 Observed Release	(0) 45	x1	0		
If Observed Release scores 45 proceed to line 4 If Observed Release scores 0 proceed to line 2					
2 Route Characteristics				Aquifer Description: Limestone	8
Depth to Aquifer of concern	0 1 (2) 3	x2	4	40 ft.	8
Net Precipitation	0 (1) 2 3	x1	1	Precip 31.56" Evap 31.5"	2
Permeability of the Unsaturated Zone	(0) 1 2 3	x1	0	10^{-1} cm/sec	8
Physical State	0 (1) 2 3	x1	1	Assumed Solids present	
	Total Route Char. Score		6		
3 Containment	0 1 2 (3)	x1	3	Assume no containment	
4 Waste Characteristics					
Persistence / Toxicity	0 1 2 3 0: 0 0 0 0 1: 3 6 9 12 2: 6 9 12 15 3: 9 12 15 (18)	x1	18	Assume heavy metals present.	
Haz. Waste Quantity	0 (1) 2 3 4 5 6 7 8	x1	1	UNKNOWN	
	Total Waste Char. Score		19		
5 Targets					
Groundwater Use	0 (1) 2 3	x3	3	Assume some irrigation in Area	1
Distance to Nearest Well / Population Served	0 1 2 3 4 0: 0 0 0 0 0 1: 0 (4) 6 8 10 2: 0 8 12 16 20 3: 0 12 18 24 30 4: 0 16 24 32 35 5: 0 20 30 35 40	x1	4	Assumed irrigation for farms - 2-3 miles	
	Total Targets Score		7		
6 If line 1 is 45, multiply 1 x 4 x 5 If line 1 is 0, multiply 2 x 3 x 4 x 5			2394		
7 Divide line 6 by 57,330 and multiply by 100			S_{gw} = 4.18		

GROUNDWATER ROUTE

PROJECTED HRS SCORE WORKSHEET FOR LISTING SITE INSPECTION (LSI)

(This score is based on the expected acquisition of information from the Listing Site Inspection.)

Rating Factor	Assigned Value (Circle One)	Multi-plier	Score	Description	Ref. #
1 Observed Release	0 (45)	x1	45		
If Observed Release scores 45 proceed to line 4. If Observed Release scores 0 proceed to line 2.					
2 Route Characteristics				Aquifer Description: Limestone	8
Depth to Aquifer of concern	0 1 (2) 3	x2	4	40 ft.	8
Net Precipitation	0 (1) 2 3	x1	1	Precip 31.56" Evap 31.5"	2
Permeability of the Unsaturated Zone	(0) 1 2 3	x1	0	10^{-7} cm/sec	8
Physical State	0 (1) 2 3	x1	1	Assume solids present	—
	Total Route Char. Score		6		
3 Containment	0 1 2 (3)	x1	3	Assume no containment	
4 Waste Characteristics					
Persistence	0 1 2 3				
Toxicity	0: 0 0 0 0; 1: 3 6 9 12; 2: 6 9 12 15; 3: 9 12 15 (18)	x1	18	Assume Heavy metals	—
Haz. Waste Quantity	0 (1) 2 3 4 5 6 7 8	x1	1	Unknown	—
	Total Waste Char. Score		19		
5 Targets					
Groundwater Use	0 (1) 2 3	x3	3	Irrigation on farms assumed	—
Distance to Nearest Well / Population Served	0: 0 0 0 0 0; 1: 0 (4) 6 8 10; 2: 0 8 12 16 20; 3: 0 12 18 24 30; 4: 0 16 24 32 35; 5: 0 20 30 35 40	x1	4	Assume 1-100 people on residential well H_2O	—
	Total Targets Score		7		
6 If line 1 is 45, multiply 1 x 4 x 5; If line 1 is 0, multiply 2 x 3 x 4 x 5			5985		
7 Divide line 6 by 57,330 and multiply by 100			S_{gw} = 10.44		

SURFACE WATER ROUTE

PRELIMINARY HRS SCORE WORKSHEET

(This score is based on existing file information that was obtained prior to the Screening Site Inspection.)

Rating Factor	Assigned Value (Circle One)	Multi-plier	Score	Description	Ref. #
1 Observed Release	(0) 45	x1	0	No Documentation	
If Observed Release scores 45 proceed to line 4 If Observed Release scores 0 proceed to line 2					
2 Route Characteristics				Facil<3 x	1
	Intervening Terrain Facility Slope (0) 0 0 0 3 0 1 1 2 3 0 1 2 2 3 0 2 2 3 3 0 2 3 3 3	x1	0	Interv<3 x	1
1-yr. 24 hr Rainfall	0 1 (2) 3	x1	2	2.25 in.	2
Distance to Nearest Surface Water	0 1 2 (3)	x2	6	Approx ~ 812.5 Ft.	2
Physical State	(0) 1 2 3	x1	0	No documentation	
	Total Route Char. Score		8		
3 Containment	0 1 2 (3)	x1	3	No known containment	—
4 Waste Characteristics					
Persistence / Toxicity	0 1 2 3 0 (0) 0 0 0 1 3 6 9 12 2 6 9 12 15 3 9 12 15 18	x1	0	Unknown	
Haz. Waste Quantity	(0) 1 2 3 4 5 6 7 8	x1	0	Unknown	
	Total Waste Char. Score		0		
5 Targets					
Surface Water Use	(0) 1 2 3	x3	0	No Surface Water use	4
Dist. to Sensitive Environment	(0) 1 2 3	x2	0	No Sensitive Environments	1
	Distance to Water Intake Downstream Population Served (0) 0 0 0 0 0 4 6 8 10 0 8 12 16 20 0 12 18 24 30 0 16 24 32 35 0 20 30 35 40	x1	0	No intakes from Swan Creek, or wells	4
	Total Targets Score		0		
6 If line 1 is 45, multiply 1 x 4 x 5 If line 1 is 0, multiply 2 x 3 x 4 x 5			0		
7 Divide line 6 by 64,350 and multiply by 100	S_{sw} = 0				

SURFACE WATER ROUTE

PROJECTED HRS SCORE WORKSHEET FOR SCREENING SITE INSPECTION (SSI)

(This score is based on the expected acquisition of information from the Screening Site Inspection.)

Rating Factor	Assigned Value (Circle One)	Multi-plier	Score	Description	Ref. #
1 Observed Release	(0) 45	x1	0		
If Observed Release scores 45 proceed to line 4 If Observed Release scores 0 proceed to line 2					
2 Route Characteristics				Facil<3 x	1
Facility Slope — Intervening Terrain (0 0 0 0 3; 0 1 1 2 3; 0 1 2 2 3; 0 2 2 3 3; 0 2 3 3 3)		x1	0	Interv<3 x	1
1-yr. 24 hr Rainfall	0 1 (2) 3	x1	2	2.25 in.	2
Distance to Nearest Surface Water	0 1 2 (3)	x2	6	Swan Creek ~ 812.5 Ft.	1
Physical State	0 (1) 2 3	x1	1	Assume some solids unconsolidated materials	
	Total Route Char. Score		9		
3 Containment	0 1 2 (3)	x1	3	Assume Landfill has no secure containment	
4 Waste Characteristics					
Toxicity — Persistence (0 1 2 3) × Toxicity (0 1 2 3): 0: 0 0 0 0; 1: 3 6 9 12; 2: 6 9 12 15; (3): 9 12 15 (18)		x1	18	Assume Heavy metals (i.e. Pb)	3
Haz. Waste Quantity	0 (1) 2 3 4 5 6 7 8	x1	1	Unknown	
	Total Waste Char. Score		19		
5 Targets					
Surface Water Use	0 1 (2) 3	x3	6	Assume some fishing	—
Dist. to Sensitive Environment	(0) 1 2 3	x2	0	No sensitive env. present	—
Population Served — Distance to Water Intake Downstream (0 0 0 0 0; 0 4 6 8 10; 0 8 12 16 20; 0 12 18 24 30; 0 16 24 32 35; 0 20 30 35 40)		x1	0	No known S.W. intakes within 3 miles downstream	—
	Total Targets Score		6		
6 If line 1 is 45, multiply 1 x 4 x 5 If line 1 is 0, multiply 2 x 3 x 4 x 5			3078		
7 Divide line 6 by 64,350 and multiply by 100			S_{sw} = 4.78		

SURFACE WATER ROUTE

PROJECTED HRS SCORE WORKSHEET FOR LISTING SITE INSPECTION (LSI)

(This score is based on the expected addition of information from the Listing Site Inspection.)

Rating Factor	Assigned Value (Circle One)	Multi-plier	Score	Description	Ref. #
1 Observed Release	0 45	x 1	45		
If Observed Release scores <5 proceed to line 4 If Observed Release scores 0 proceed to line 2					
2 Route Characteristics	Intervening Terrain Facility Slope: 0 0 0 0 3 / 0 1 1 2 3 / 0 1 2 2 3 / 0 2 2 3 3 / 0 2 3 3 3	x 1	0	Facil <3 % Interv <3 %	1 1
1-yr. 24 hr Rainfall	0 1 2 3	x 1	2	2.25 in	
Distance to Nearest Surface Water	0 1 2 3	x 2	6	Swan Creek ~ 812.5 Ft	1
Physical State	0 1 2 3	x 1	1	Assume some solid, unconsolidated materials	
	Total Route Char. Score		9		
3 Containment	0 1 2 3	x 1	3	Assume landfill has no secure containment	
4 Waste Characteristics					
Persistence / Toxicity	0 1 2 3 0: 0 0 0 0 1: 3 6 9 12 2: 6 9 12 15 3: 9 12 15 18	x 1	18	Assume Heavy metals	—
Haz. Waste Quantity	0 1 2 3 4 5 6 7 8	x 1	1	Unknown	—
	Total Waste Char. Score		19		
5 Targets					
Surface Water Use	0 1 2 3	x 3	6	Assume some fishing	—
Dist. to Sensitive Environment	0 1 2 3	x 2	0	No Sensitive Environments present	1
Population Served / Distance to Water Intake Downstream	0: 0 0 0 0 0 4: 0 4 6 8 10 8: 0 8 12 16 20 12: 0 12 18 24 30 16: 0 16 24 32 35 20: 0 20 30 35 40	x 1	0	No known S.W. intakes downstream	—
	Total Targets Score		6		
6 If line 1 is 45, multiply 1 x 4 x 5 If line 1 is 0, multiply 2 x 3 x 4 x 5			5130		
7 Divide line 6 by 64,350 and multiply by 100			S_{sw} = 7.97		

AIR ROUTE

PRELIMINARY HRS SCORE WORKSHEET

(This score is based on existing file information that was obtained prior to the Screening Site Inspection.)

Rating Factor	Assigned Value (Circle One)	Multi-plier	Score	Description	Ref. #
1 Observed Release	(0) 45	x1	0		
If line 1 is 0, the S_a=0. Enter on line 5 If line 1 is 45, then proceed to line 2					
2 Waste Characteristics					
Reactivity & Incompatability	0 1 2 3	x1			
Toxicity	0 1 2 3	x3			
Haz. Waste Quantity	0 1 2 3 4 5 6 7 8	x1			
	Total Waste Char. Score				
3 Targets					
Population within 4-mile Radius	Dist to Population 0 0 0 0 9 12 15 18 12 15 18 21 Pop 15 18 21 24 18 21 24 27 21 24 27 30	x1			
Distance to Sensitive Environment	0 1 2 3	x2			
Land Use	0 1 2 3	x1			
	Total Targets Score				
4 Multiply 1 x 2 x 3			0		
5 Divide line 4 by 35,100 and multiply by 100			S_a =		

No Air Sampling Will be Done at this Time.

AIR ROUTE

PROJECTED HRS SCORE WORKSHEET FOR SCREENING SITE INSPECTION (SSI)

(This score is based on the expected acquisition of information from the Screening Site Inspection.)

Rating Factor	Assigned Value (Circle One)	Multi-plier	Score	Description	Ref. #
1 Observed Release	(0) 45	x1	0		
If line 1 is 0, the S_a=0. Enter on line 5 If line 1 is 45, then proceed to line 2					
2 Waste Characteristics					
Reactivity & Incompatability	(0) 1 2 3	x1	0	Unknown	—
Toxicity	(0) 1 2 3	x3	0	Unknown	—
Haz. Waste Quantity	0 (1) 2 3 4 5 6 7 8	x1	1	Assume small amounts of Pb. (lead)	
	Total Waste Char. Score		1		
3 Targets					
Population within 4-mile Radius	Dist to Population Pop 0 0 0 0 9 12 15 18 12 15 18 21 15 18 21 24 18 21 24 27 21 24 27 (30)	x1	30	~ 158,000	1,5,6
Distance to Sensitive Environment	(0) 1 2 3	x2	0	No sensitive environments Present	1
Land Use	0 1 2 (3)	x1	3	Residential Areas Middle School.	1
	Total Targets Score		37		
4 Multiply 1 x 2 x 3			0		
5 Divide line 4 by 35,100 and multiply by 100			S_a = 0		

AIR ROUTE

PROJECTED HRS SCORE WORKSHEET FOR LISTING SITE INSPECTION (LSI)

(This score is based on the expected aquisition of information from the Listing Site Inspection.)

Rating Factor	Assigned Value (Circle One)	Multi-plier	Score	Description	Ref. #
1 Observed Release	(0) 45	x1	0		—
If line 1 is 0, the S_a=0. Enter on line 5 If line 1 is 45, then proceed to line 2					
2 Waste Characteristics					
Reactivity & Incompatability	(0) 1 2 3	x1	0	Unknown	—
Toxicity	(0) 1 2 3	x3	0	Unknown	—
Haz. Waste Quantity	0 (1) 2 3 4 5 6 7 8	x1	1	Unknown	—
	Total Waste Char. Score		1		
3 Targets	Dist to Population				
Population within 4-mile Radius	Pop: 0 0 0 0 / 9 12 15 18 / 12 15 18 21 / 15 18 21 24 / 18 21 24 27 / 21 24 27 (30)	x1	30	158,000	1,5,6
Distance to Sensitive Environment	(0) 1 2 3	x2	0	No sensitive environments present	1
Land Use	0 1 2 (3)	x1	3	Residential areas – public school	
	Total Targets Score		33		
4 Multiply 1 x 2 x 3			0		
5 Divide line 4 by 35,100 and multiply by 100			S_a = 0		

FIRE AND EXPLOSION

PRELIMINARY HRS SCORE WORKSHEET

(This score is based on existing file information that was obtained prior to the Screening Site Inspection.)

Rating Factor	Assigned Value (Circle One)	Multi-plier	Score	Description	Ref. #
1 Containment	(0) 3	x1	1		
2 Waste Characteristics					
Direct. Evidence	(0) 3	x1	0	No potential problems	7
Ignitability	(0) 1 2 3	x1	0	↓	↓
Reactivity	(0) 1 2 3	x1	0		
Incompatability	(0) 1 2 3	x1	0		
Haz. Waste Quantity	(0) 1 2 3 4 5 6 7 8	x1	0		
	Total Waste Char. Score		0		
3 Targets					
Dist. to Nearest Pop.	0 1 2 3 (4) 5	x1	4	Residential homes ~ 150 Ft	1
Dist. to Nearest Bldg.	0 1 (2) 3	x1	2	Homes ~ 150 Ft away	1
Dist. to Sensitive Env.	(0) 1 2 3	x1	0	No known Sensitive environments	1
Land Use	0 1 2 (3)	x1	3	Golf Course, homes	1,7
Pop. Within 2 miles	0 1 2 3 4 (5)	x1	5	Toledo, 340,680	1
Bldgs. Within 2 miles	0 1 2 3 4 (5)	x1	5	City of Toledo	1
	Total Targets Score		19		
4 Multiply 1 x 2 x 3			0		
5 Divide line 4 by 1,440 and multiply by 100			S_{FE} = 0		

FIRE AND EXPLOSION

PROJECTED HRS SCORE WORKSHEET FOR SCREENING SITE INSPECTION (SSI)

(This score is based on the expected acquisition of information from the Screening Site Inspection.)

Rating Factor	Assigned Value (Circle One)	Multi-plier	Score	Description	Ref. #
1 Containment	1 (3)	x1	3	No precautions taken Open area.	
2 Waste Characteristics					
Direct Evidence	(0) 3	x1	0	Unknown	
Ignitability	0 (1) 2 3	x1	1	Assume ignition	
Reactivity	(0) 1 2 3	x1	0	Unknown	
Incompatability	(0) 1 2 3	x1	0	Unknown	
Haz. Waste Quantity	0 (1) 2 3 4 5 6 7 8	x1	1	Unknown	
	Total Waste Char. Score		2		
3 Targets					
Dist. to Nearest Pop.	0 1 2 3 (4) 5	x1	4	Residential areas ~ 150 Ft. away	1
Dist. to Nearest Bldg.	0 1 (2) 3	x1	2	Homes ~ 150 Ft.	1
Dist. to Sensitive Env.	(0) 1 2 3	x1	0	No sensitive environments present.	1
Land Use	0 1 2 (3)	x1	3	Residential areas, School, Golf Course	1, 7
Pop. Within 2 miles	0 1 2 3 4 (5)	x1	5	Toledo ~ 340,680	1
Bldgs. Within 2 miles	0 1 2 3 4 (5)	x1	5	Toledo	1
	Total Targets Score		19		
4 Multiply 1 x 2 x 3			114		
5 Divide line 4 by 1,440 and multiply by 100			S_{FE} = 7.92		

FIRE AND EXPLOSION

PROJECTED HRS SCORE WORKSHEET FOR LISTING SITE INSPECTION (LSI)

(This score is based on the expected acquisition of information from the Listing Site Inspection.)

Rating Factor	Assigned Value (Circle One)	Multi-plier	Score	Description	Ref. #
1 Containment	1 (3)	x1	3		
2 Waste Characteristics					
Direct Evidence	(0) 3	x1	0	Unknown	
Ignitability	0 (1) 2 3	x1	1	Assume ignition	
Reactivity	(0) 1 2 3	x1	0	Unknown	
Incompatability	(0) 1 2 3	x1	0	Unknown	
Haz. Waste Quantity	0 (1) 2 3 4 5 6 7 8	x1	1	Unknown	
	Total Waste Char. Score		2		
3 Targets					
Dist. to Nearest Pop.	0 1 2 3 (4) 5	x1	4	Homes ~150 Ft.	
Dist. to Nearest Bldg.	0 1 (2) 3	x1	2	Homes ~150.0 Ft	
Dist. to Sensitive Env.	(0) 1 2 3	x1	0	No sensitive environment present.	
Land Use	0 1 2 (3)	x1	3	Residential homes, School golf course	
Pop. Within 2 miles	0 1 2 3 4 (5)	x1	5	City of Toledo	
Bldgs. Within 2 miles	0 1 2 3 4 (5)	x1	5	City of Toledo	
	Total Targets Score		19		
4 Multiply 1 x 2 x 3			114		
5 Divide line 4 by 1,440 and multiply by 100			S_{FE} = 7.92		

DIRECT CONTACT

PRELIMINARY HRS SCORE WORKSHEET

(This score is based on existing file information that was obtained prior to the Screening Site Inspection.)

Rating Factor	Assigned Value (Circle One)	Multi-plier	Score	Description	Ref. #
1 Observed Incident	(0) 45	x1		No documentation	
If line 1 is 45, proceed to line 4 If line 1 is 0, proceed to line 2					
2 Accessibility	0 1 2 (3)	x1	3	No barriers anywhere around the facility	7
3 Containment	0 (15)	x1	15	No Known documentation	
4 Waste Characteristics					
Toxicity	(0) 1 2 3	x5	0	Unknown	
5 Targets					
Pop. Within 1 mile	0 1 2 3 4 (5)	x4	20	Population ~ 13,580	1,5,6
Dist. to Crit. Habitat	(0) 1 2 3	x4	0	N/A	
	Total Targets Score		20		
6 If line 1 is 45, multiply 1 x 4 x 5 If line 1 is 0, multiply 2 x 3 x 4 x 5			0		
7 Divide line 6 by 21,600 and multiply by 100	S_{DC} = 0				

DIRECT CONTACT

PROJECTED HRS SCORE WORKSHEET FOR SCREENING SITE INSPECTION (SSI)

(This score is based on the expected acquisition of information from the Screening Site Inspection)

Rating Factor	Assigned Value (Circle One)	Multiplier	Score	Description	Ref. #
1 Observed Incident	(0) 45	x1	0	Assume none	
If line 1 is 45, proceed to line 4 If line 1 is 0, proceed to line 2					
2 Accessibility	0 1 2 (3)	x1	3	Assume No barriers	
3 Containment	0 (15)	x1	15		
4 Waste Characteristics					
Toxicity	0 1 2 (3)	x5	15	Assume Heavy Metals	
5 Targets					
Pop. Within 1 mile	0 1 2 3 4 (5)	x4	20	Population ~ 13,580	
Dist. to Crit. Habitat	(0) 1 2 3	x4	0	N/A	
	Total Targets Score		20		
6 If line 1 is 45, multiply 1 x 4 x 5 If line 1 is 0, multiply 2 x 3 x 4 x 5			13,500		
7 Divide line 6 by 21,600 and multiply by 100			S_{DC} = 62.5		

DIRECT CONTACT

PROJECTED HRS SCORE WORKSHEET FOR LISTING SITE INSPECTION (LSI)

(This score is based on the expected acquisition of information from the Listing Site Inspection).

Rating Factor	Assigned Value (Circle One)	Multi-plier	Score	Description	Ref. #
1 Observed Incident	(0) 45	x1	0	Assume no deaths	
If line 1 is 45, proceed to line 4 If line 1 is 0, proceed to line 2					
2 Accessibility	0 1 2 (3)	x1	3	Assume No barriers	
3 Containment	0 (15)	x1	15	Assume no containment	
4 Waste Characteristics					
Toxicity	0 1 2 (3)	x5	15	Assume heavy metals	
5 Targets					
Pop. Within 1 mile	0 1 2 3 4 (5)	x4	20	Approx ~ 13,580	
Dist. to Crit. Habitat	(0) 1 2 3	x4	0	No potential sensitive environments present	
	Total Targets Score		20		
6 If line 1 is 45, multiply 1 x 4 x 5 If line 1 is 0, multiply 2 x 3 x 4 x 5			13,500		
7 Divide line 6 by 21,600 and multiply by 100			S_{DC} = 62.5		

REFERENCES

REFERENCE DOCUMENTATION SHEET

Ref. #	DESCRIPTION OF REFERENCE
1	USGS Topographic maps: Maumee Quadrangle,
	Toledo, Sylvania, and Rossford Quadrangles. 7.5 minute
	Series. 1934, 1935, 1964, and revised 1979.
2	U.S. Dept. of Commerce; Gov't Printing Office.
	1963. Rainfall Frequency Atlas. Technical Paper
	#40, Washington D.C. pp. 43 and 68.
3	EPA Potential Hazardous Waste Site Preliminary
	Assessment, September 19, 1985, Site Information
	and Assessment Conducted by Paula Ventura, Ecology and
	Environment. Chicago, Illinois.
4	Kurt Erickson, Director of Regional Planning, Toledo
	Metropolitan Area Council of Governments; Toledo Ohio.
	Telephone Log Dated October 20, 1989.

REFERENCE DOCUMENTATION SHEET

Ref. #	DESCRIPTION OF REFERENCE
5	Dot McGrer, Information Assisstant, United States Census Bureau, Chicago IL. Telephone Conversation Log Dated October 19, 1989
6	State of Ohio Department of Developement, Square Mile Reference Sheet for Incorporated Areas in Ohio Over 2500. Columbus Ohio
7	Chief Robert Schwanzell, Chief of Toledo Fire Prevention. Toledo, Ohio. Telephone Conversation. Log Dated October 23, 1989.
8	Well Logs, Larsen Drilling Co., Lucas Co., OH.

REFERENCE DOCUMENTATION SHEET

Ref. #	DESCRIPTION OF REFERENCE
9	Informational Assistant, Village of Holland Village Office, Holland, OH. Telephone Conversation Log Dated October 24, 1989.