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SUMMARY REPORT

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SPAULDING FIBRE COMPANY, INC.

NEW YORK STATE SUPERFUND
PHASE I SUMMARY REPORT

FINAL

November 28, 1983

Prepared By:

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For:

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SPAULDING FIBRE COMPANY, INC.

NEW YORK STATE SUPERFUND

PHASE I SUMMARY REPORT

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1.0 EXECUTIVE SUMMARY

Spaulding Fibre Company, Inc. is located at 310 Wheeler Street, Tonawanda, Erie County, New York. The general area can be characterized as urban/industrial with private residents occupying property adjacent to the plant on three sides. Accessibility to the plant property is limited by chain link fence and a 24 hour guard.

Primarily the company manufactures products for the electrical and electronics industry such as circuit board material. The processes used at the plant generate solid and liquid waste containing toxics such as phenol, formaldehyde, toluol and cresol. Prior to 1977 and after 1978 these materials were disposed of off-site at various locations. Between 1977 and 1978 the company operated two (2) landfills on the plant property one (1) for bagged solid waste and one (1) for drummed liquid waste. Sampling of monitoring wells in place near the liquid landfill has verified contamination with phenol above the NYSDEC groundwater standard.

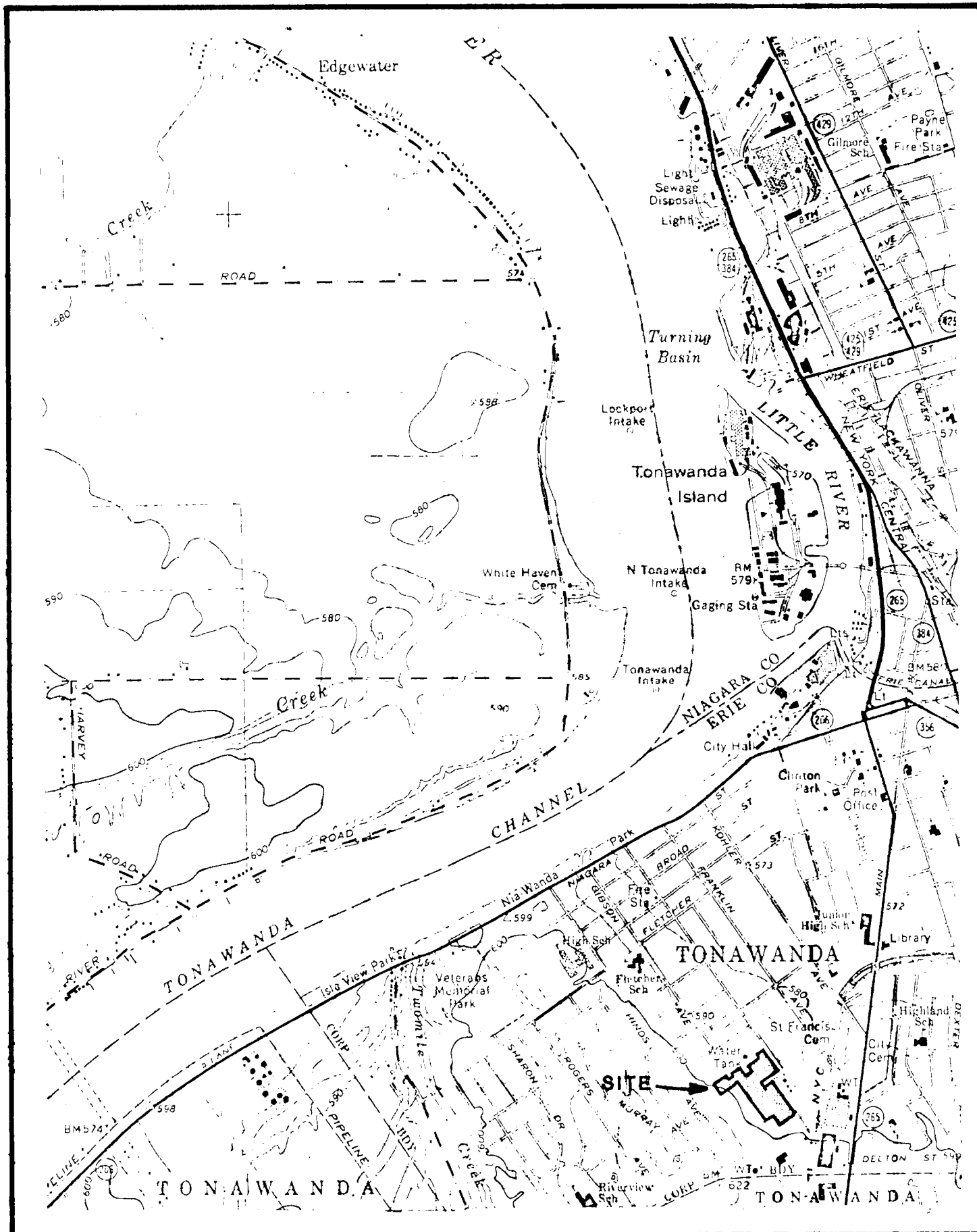
The entire area is serviced by municipal water drawn from the Niagara River. Groundwater from the bedrock shale aquifer is used for industrial purposes, however, high hydrogen sulfide content prohibits domestic use. The unconsolidated material overlying bedrock is moderately permeable consisting of till and silty clay to approximately seventy (70) foot depth.

2.0 SITE DESCRIPTION

Spaulding Fibre Company, Inc. occupies approximately fifty (50) acres of land in an urban/industrial area on the southern boundary of the City of Tonawanda (Figure 1). The plant property is bounded on three (3) sides by private residents. Accessibility to the site is limited by chain link fence and a 24-hour guard.

Topography of the area is basically flat with a shallow east-west running ditch and a mound created by landfilling being the only surface features present.

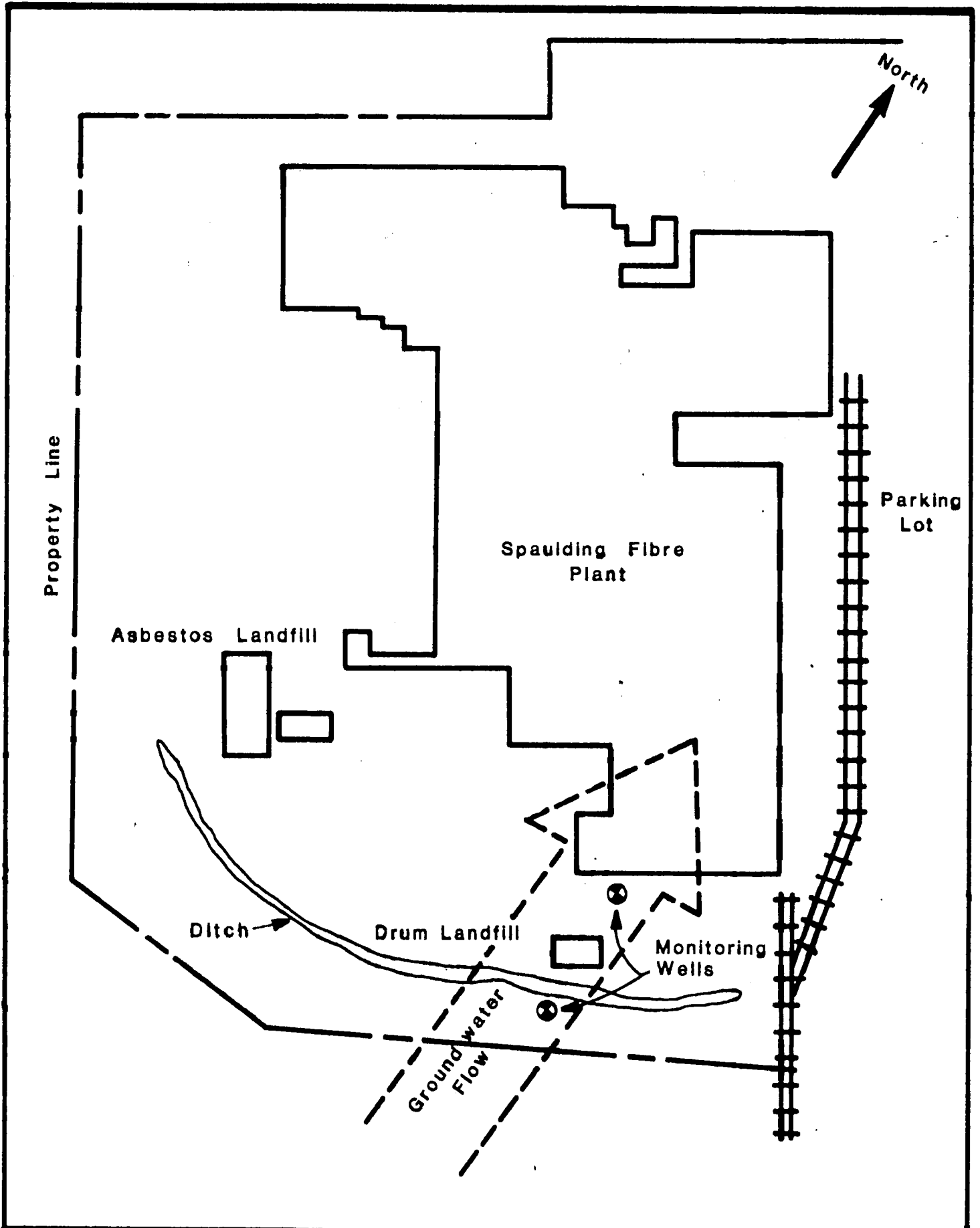
Of the fifty (50) acre total, approximately 1.5 acres have been used for two landfills. These areas are located toward the southern corner of the plant property (fig. 2). The site is grass covered in all unused areas except above the landfill containing the bagged solid waste. This area is reported to have been covered recently with an additional six (6) inch clay cap (ref. 29).



USGS Topographical Map 7.5'
Tonawanda W. Quad. 1965

VICINITY MAP
SPAULDING FIBRE CO. INC.

Figure 1



Not To Scale

**SITE MAP
SPAULDING FIBRE**

Figure 2

Ground Water Route Work Sheet						
Rating Factor	Assigned Value (Circle One)	Multi-plier	Score	Max. Score	Ref. (Section)	
1 Observed Release	0 45	1	45	45	3.1	
If observed release is given a score of 45, proceed to line 4 . If observed release is given a score of 0, proceed to line 2 .						
2 Route Characteristics					3.2	
Depth to Aquifer of Concern	0 1 2 3	2	2	6		
Net Precipitation	0 1 2 3	1	2	3		
Permeability of the Unsaturated Zone	0 1 2 3	1	2	3		
Physical State	0 1 2 3	1	3	3		
Total Route Characteristics Score			9	15		
3 Containment	0 1 2 3	1	3	3	3.3	
4 Waste Characteristics					3.4	
Toxicity/Persistence	0 3 6 9 12 15 18	1	18	18		
Hazardous Waste Quantity	0 1 2 3 4 5 6 7 8	1	4	8		
Total Waste Characteristics Score			22	26		
5 Targets					3.5	
Ground Water Use	0 1 2 3	3	3	9		
Distance to Nearest Well/Population Served	$\left. \begin{array}{l} 0 \\ 12 \end{array} \right\} \begin{array}{cccc} 4 & 6 & 8 & 10 \\ 16 & 18 & 20 & \end{array}$	1	0	40		
Total Targets Score			3	49		
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			2970	57,330		
7 Divide line 6 by 57,330 and multiply by 100			S _{gw} = 5.2			

FIGURE 2
GROUND WATER ROUTE WORK SHEET

Surface Water Route Work Sheet						
Rating Factor	Assigned Value (Circle One)	Multi-plier	Score	Max. Score	Ref. (Section)	
1 Observed Release	0 45	1	0	45	4.1	
If observed release is given a value of 45, proceed to line 4 . If observed release is given a value of 0, proceed to line 2 .						
2 Route Characteristics					4.2	
Facility Slope and Intervening Terrain	0 1 2 3	1	0	3		
1-yr. 24-hr. Rainfall	0 1 2 3	1	2	3		
Distance to Nearest Surface Water	0 1 2 3	2	4	6		
Physical State	0 1 2 3	1	3	3		
Total Route Characteristics Score			9	15		
3 Containment	0 1 2 3	1	3	3	4.3	
4 Waste Characteristics					4.4	
Toxicity/Persistence	0 3 6 9 12 15 18	1	18	18		
Hazardous Waste Quantity	0 1 2 3 4 5 6 7 8	1	4	8		
Total Waste Characteristics Score			22	26		
5 Targets					4.5	
Surface Water Use	0 1 2 3	3	9	9		
Distance to a Sensitive Environment	0 1 2 3	2	0	6		
Population Served/Distance to Water Intake Downstream	0 4 6 8 10 12 16 18 20 24 30 32 35 40	1	30	40		
Total Targets Score			39	55		
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			23166	64,350		
7 Divide line 6 by 64,350 and multiply by 100			$S_{sw} = 36.0$			

FIGURE 7
SURFACE WATER ROUTE WORK SHEET

3.0 PRELIMINARY HAZARD RANKING SYSTEM SCORE

Factory name	<u>Spaulding Fibre Co., Inc.</u>	
Location	<u>310 Wheeler Street, Tonawanda, NY 14150</u>	
EPA Region	<u>2</u>	
Person(s) in charge of the facility:	<u>Richard Hunter, V.P. - General Manager</u>	
	<u>Richard A. Preibisch, Corporate V.P.</u>	
	<u>Kenneth Kasprzak</u>	
Name of Reviewer:	<u>Recra Research, Inc.</u>	Date <u>June 3, 1983</u>
General description of the facility:	(For example: landfill, surface impoundment, pile, container; types of hazardous substances; location of the facility; contamination route of major concern; types of information needed for rating; agency action, etc.)	
	<u>The Spaulding Fibre property contains two inactive landfills</u>	
	<u>which had been used for disposal of liquid and solid industrial waste.</u>	
	<u>Some of this material may be leaking into the ground water table.</u>	
	<u>Monitoring wells are in place and have been determined to contain</u>	
	<u>phenol in excess of ground water standards.</u>	
Scores:	$S_M = 21.0$ ($S_{GW} = 5.2$ $S_{SW} = 36.0$ $S_a = 0.0$)	
	$S_{FE} = 10.2$	Range = 16 to 25
	$S_{DC} = 0.0$	

HRS COVER SHEET

Air Route Work Sheet					
Rating Factor	Assigned Value (Circle One)	Multi-plier	Score	Max. Score	Ref. (Section)
1 Observed Release	(0) 45	1		45	5.1
Date and Location:					
Sampling Protocol:					
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					5.2
Reactivity and Incompatibility	(0) 1 2 3	1	0	3	
Toxicity	0 1 2 (3)	3	9	9	
Hazardous Waste Quantity	0 1 (2) 3 4 5 6 7 8	1	2	8	
Total Waste Characteristics Score			11	20	
3 Targets					5.3
Population Within 4-Mile Radius	} 0 9 12 15 18 21 24 27 (30)	1	30	30	
Distance to Sensitive Environment	(0) 1 2 3	2	0	6	
Land Use	0 1 2 (3)	1	3	3	
Total Targets Score			33	39	
4 Multiply 1 x 2 x 3			0	35,100	
5 Divide line 4 by 35,100 and multiply by 100			$S_a = 0.0$		

FIGURE 9
AIR ROUTE WORK SHEET

	s	s ²
Groundwater Route Score (S _{gw})	5.2	27.0
Surface Water Route Score (S _{sw})	36.0	1296.0
Air Route Score (S _a)	0.0	0.0
$S_{gw}^2 + S_{sw}^2 + S_a^2$		1323.0
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2}$		36.4
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2} / 1.73 = S_M$		21.0

FIGURE 10
WORKSHEET FOR COMPUTING S_M

Fire and Explosion Work Sheet						
Rating Factor	Assigned Value (Circle One)	Multi-plier	Score	Max. Score	Ref. (Section)	
1 Containment	1 3	1	/	3	7.1	
2 Waste Characteristics					7.2	
Direct Evidence	(0) 3	1	0	3		
Ignitability	0 1 2 (3)	1	3	3		
Reactivity	(0) 1 2 3	1	0	3		
Incompatibility	(0) 1 2 3	1	0	3		
Hazardous Waste Quantity	0 1 2 3 (4) 5 6 7 8	1	4	8		
Total Waste Characteristics Score			7	20		
3 Targets					7.3	
Distance to Nearest Population	0 1 2 3 4 (5)	1	5	5		
Distance to Nearest Building	0 1 2 (3)	1	3	3		
Distance to Sensitive Environment	(0) 1 2 3	1	0	3		
Land Use	0 1 2 (3)	1	3	3		
Population Within 2-Mile Radius	0 1 2 3 4 (5)	1	5	5		
Buildings Within 2-Mile Radius	0 1 2 3 4 (5)	1	5	5		
Total Targets Score			21	24		
4 Multiply 1 x 2 x 3			147	1,440		
5 Divide line 4 by 1,440 and multiply by 100			SFE = 10.2			

FIGURE 11
FIRE AND EXPLOSION WORK SHEET

Direct Contact Work Sheet						
Rating Factor	Assigned Value (Circle One)	Multi-plier	Score	Max. Score	Ref. (Section)	
1 Observed Incident	0 45	1	0	45	8.1	
If line 1 is 45, proceed to line 4 If line 1 is 0, proceed to line 2						
2 Accessibility	0 1 2 3	1	0	3	8.2	
3 Containment	0 15	1	0	15	8.3	
4 Waste Characteristics Toxicity	0 1 2 3	5	3	15	8.4	
5 Targets					8.5	
Population Within a 1-Mile Radius	0 1 2 3 4 5	4	20	20		
Distance to a Critical Habitat	0 1 2 3	4	0	12		
Total Targets Score			20	32		
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	21,600		
7 Divide line 6 by 21,600 and multiply by 100			SDC = 0.0			

FIGURE 12
DIRECT CONTACT WORK SHEET

3.1 Documentation Records for Hazard Ranking System

INSTRUCTIONS: The purpose of these records is to provide a convenient way to prepare an auditable record of the data and documentation used to apply the Hazard Ranking System to a given facility. As briefly as possible summarize the information you used to assign the score for each factor (e.g., "Waste quantity = 4,230 drums plus 800 cubic yards of sludges"). The source of information should be provided for each entry and should be a bibliographic-type reference that will make the document used for a given data point easier to find. Include the location of the document and consider appending a copy of the relevant page(s) for ease in review.

FACILITY NAME: Spaulding Fibre Co., Inc.

LOCATION: 310 Wheeler Street, Tonawanda, New York 14150

GROUND WATER ROUTE

1 OBSERVED RELEASE

Contaminants detected (5 maximum):

PHENOL IN EXCESS OF GROUND WATER STANDARDS HAS BEEN DOCUMENTED FROM ANALYSIS OF ON SITE MONITORING WELL WATER. (REF 1)

Rationale for attributing the contaminants to the facility:

MONITORING WELLS LOCATED UPSTREAM AND DOWNSTREAM OF DISPOSAL SITE LEAVE DOUBT AS TO WHETHER SITE IS RESPONSIBLE FOR CONTAMINATION. LEVELS OF PHENOL UPSTREAM IN SOME CASES EXCEED OR ARE THE SAME AS DOWNSTREAM LEVELS. (REF 1)

* * *

2 ROUTE CHARACTERISTICS

Depth to Aquifer of Concern

Name/description of aquifer(s) of concern:

CAMILLUS SHALE - MOSTLY GRAY SHALE WITH A CONSIDERABLE AMOUNT OF GRAY LIMESTONE AND DOLOMITE INTERBEDDED. MANY OCCURRENCES OF GYPSUM BEDS UP TO 5 FT THICK. DISSOLVING OF GYPSUM LEAVES OPENINGS FOR STORAGE & PASSAGE OF WATER IN LARGE VOLUME. MOST PRODUCTIVE AQUIFER IN AREA. INDUSTRIAL WELL YIELDS FROM 300-1200 GPM IN BUFFALO TOWNSHIP AREA. POOR QUALITY OF WATER. H₂S GAS PRESENT IN GROUNDWATER. UNIT IS TO 400 FT THICK (REF 2,3).

Depth(s) from the ground surface to the highest seasonal level of the saturated zone [water table(s)] of the aquifer of concern:

WELL DEPTHS RANGE FROM 101 TO 375 FT IN THE AREA OF SPAULDING FIBRE (3 MILE RADIUS). (REF 18)

Depth from the ground surface to the lowest point of waste disposal/storage:

15 FT IS LOWEST POINT RECORDED. (REF 3)

Net Precipitation

Mean annual or seasonal precipitation (list months for seasonal):

36 INCHES (REF 25)

Mean annual lake or seasonal evaporation (list months for seasonal):

27 INCHES (REF 25)

Net precipitation (subtract the above figures):

36
- 27

9 INCHES

Permeability of Unsaturated Zone

Soil type in unsaturated zone:

CLAYEY - SILT GENERALIZED SOIL CONDITIONS DETERMINED FROM A SERIES OF MAPS PREPARED BY URS. SOIL TEXTURE WITH 18-31% CLAY & > 35% CLAY FOUND IN THE AREA OF SPAULDING (REF 19)

Permeability associated with soil type:

6 SOIL BORINGS WERE TAKEN FROM SITE BY MR. DONALD W OWEN OF EARTH DIMENSIONS INC. PERMEABILITY TESTS PERFORMED BY CALSPAN CORP, MR. RICHARD P. LEONARD 4455 GENESSEE ST. CHEERTOWAGA, N.Y. 14225. PERMEABILITY RANGED FROM 2.0×10^{-5} CM/SEC TO 2.3×10^{-7} CM/SEC. (REF 26)

Physical State

Physical state of substances at time of disposal (or at present time for generated gases):

LIQUID (REF 2)
GAS
SOLID
SLURRY
POWDER

* * *

3 CONTAINMENT

Containment

Method(s) of waste or leachate containment evaluated:

50% RESIN 50% GLASS OR ASBESTOS DUST PREVIOUSLY BURIED IN CLAY TO DEPTH OF 15 FT. & COVERED WITH 3-5 FT OF RED CLAY & COMPACTED BY DOZER. MATERIAL MOST RECENTLY DOUBLE BAGGED IN 204 POLYETHYLENE AND BURIED. DRUMS USED AND BURIED ON SITE. SOME OBSERVED TO BE LEAKING CONTENTS UNKNOWN. (REF 4)

Method with highest score:

DRUMS OBSERVED TO BE LEAKING. NOT KNOWN IF LINERS WERE USED.

WHITE POWDERY MATERIAL (ZINC HYDROXIDE) OBSERVED IN ACTIVE TRENCH. (REF. 11)

4 WASTE CHARACTERISTICS

Toxicity and Persistence

Compound(s) evaluated:

PHENOL	CRESOL	(REF. 2)
FORMALDEHYDE	TOLUOL	
DIBUTYL PHTHALATE	METHANOL	
ANILINE OIL	ETHYL ALCOHOL	
ASBESTOS	BUTYL OXYL PHTHALATE	
	TOLUENE	

Compound with highest score:

PHENOL (REF 25)
DIBUTYL PHTHALATE
CRESOL
ASBESTOS

Hazardous Waste Quantity

Total quantity of hazardous substances at the facility, excluding those with a containment score of 0 (Give a reasonable estimate even if quantity is above maximum):

750 DRUMS CONTAINING LIQUID WASTE LISTED UNDER COMPOUNDS EVALUATED

20 TONS OF GRINDING WASTE INCLUDING PHENOL, ZINC CHLORIDE & ASBESTOS.

(REF. 5 & 7)

Basis of estimating and/or computing waste quantity:

DOCUMENTATION OF WASTE QUANTITY AND CONTENTS.

* * *

5 TARGETS

Ground Water Use

Use(s) of aquifer(s) of concern within a 3-mile radius of the facility:

INDUSTRIAL IS ONLY DOCUMENTED USE OF GROUND WATER.
ENTIRE AREA IS SERVICED BY MUNICIPAL WATER DRAWN
FROM THE NIAGARA RIVER. (REF 27)

Distance to Nearest Well

Location of nearest well drawing from aquifer of concern or occupied building not served by a public water supply:

APPROXIMATELY 2 MILES TO WELLS # 258-853-1, 2 WHICH
IS OWNED BY LINDE DIV. UNION CARBIDE CORP. (REF 27)

Distance to above well or building:

APPROXIMATELY 2 MILES. (REF 27)

Population Served by Ground Water Wells Within a 3-Mile Radius

Identified water-supply well(s) drawing from aquifer(s) of concern within a 3-mile radius and populations served by each:

ALL RECORDED WELLS ARE USED FOR INDUSTRIAL
PURPOSES. (REF 27)

Computation of land area irrigated by supply well(s) drawing from aquifer(s) of concern within a 3-mile radius, and conversion to population (1.5 people per acre):

NA

Total population served by ground water within a 3-mile radius:

NA

SURFACE WATER ROUTE

1 OBSERVED RELEASE

Contaminants detected in surface water at the facility or downhill from it (5 maximum):

No SURFACE WATER CONTAMINATION DOCUMENTED

Rationale for attributing the contaminants to the facility:

NA

* * *

2 ROUTE CHARACTERISTICS

Facility Slope and Intervening Terrain

Average slope of facility in percent:

$$\frac{\Delta \text{VERT}}{\Delta \text{HORIZ}} = \frac{10 \text{ FT}}{2000 \text{ FT}} = .005 \times 100 = .5\%$$

(REF 15)

Name/description of nearest downslope surface water:

*TONAWANDA CHANNEL OF NIAGARA RIVER.
MENTION IS MADE THAT RUNOFF MAY ENTER
TWO MILE CREEK BEFORE REACHING THE
RIVER. (REF 14 & 15)*

Average slope of terrain between facility and above-cited surface water body in percent:

$$\frac{\Delta \text{VERT}}{\Delta \text{HORIZ}} = \frac{30 \text{ FT}}{6000 \text{ FT}} = .005 \times 100 = .5\%$$

(REF 15)

Is the facility located either totally or partially in surface water?

No

Is the facility completely surrounded by areas of higher elevation?

No

1-Year 24-Hour Rainfall in Inches

2.1 INCHES

(REF. 25)

Distance to Nearest Downslope Surface Water

.8 MILES

(REF. 15)

Physical State of Waste

LIQUID GASEOUS

SOLID

SLURRY

POWDER

(REF 2)

* * *

3 CONTAINMENT

Containment

Method(s) of waste or leachate containment evaluated:

DRUMS BURIED IN LANDFILL. OBSERVED LEAKING

GRINDING DUST IN LANDFILL.

GRINDING DUST IN POLYETHYLENE BAGS LANDFILLED.

GASEOUS WASTE INCINERATED ON SITE. (REF 5)

Method with highest score:

LEAKING DRUMS (REF 11)

4 WASTE CHARACTERISTICS

Toxicity and Persistence

Compound(s) evaluated .

PHENOL	CRESOL	(REF 2)
FORMALDEHYDE	TOLUOL	
DIBUTYL PHTHALATE	METHANOL	
ANILINE OIL	ETHYL ALCOHOL	
ASBESTOS	BUTYL OCTAL PHTHALATE	
	TOLUENE	

Compound with highest score:

PHENOL
DIBUTYL PHTHALATE
CRESOL
ASBESTOS (REF 25)

Hazardous Waste Quantity

Total quantity of hazardous substances at the facility, excluding those with a containment score of 0 (Give a reasonable estimate even if quantity is above maximum):

750 DRUMS OF LIQUID \approx 188 TONS (REF 5)
20 TONS OF GRINDING WASTE

$188 + 20 = 208$ TONS

Basis of estimating and/or computing waste quantity:

DOCUMENTATION OF WASTE QUANTITY AND CONTENTS
(REF 5)

* * *

5 TARGETS

Surface Water Use

Use(s) of surface water within 3 miles downstream of the hazardous substance:

DRINKING	THE NIAGARA RIVER IS RATED AS CLASS A SPECIAL (INTERNATIONAL) BOUNDARY WATERS). BEST USES INCLUDE SOURCE OF DRINKING WATER SUPPLY AND USE FOR CULINARY OR FOOD PROCESSING. WATER INDEX NO 0-158. (REF 24)
COMMERCIAL	
RECREATIONAL	

Is there tidal influence?

No

Distance to a Sensitive Environment

Distance to 5-acre (minimum) coastal wetland, if 2 miles or less:

NA

Distance to 5-acre (minimum) fresh-water wetland, if 1 mile or less:

NA

Distance to critical habitat of an endangered species or national wildlife refuge, if 1 mile or less:

NA

Population Served by Surface Water

Location(s) of water-supply intake(s) within 3 miles (free-flowing bodies) or 1 mile (static water bodies) downstream of the hazardous substance and population served by each intake:

POPULATION > 100,000

PUBLIC WATER INTAKE IS APPROXIMATELY 1.2 MILES FROM SPAULDING FIRE FACILITY. 3 INTAKES WITHIN 2 MILES OF DISPOSAL SITE. WATER SERVES TONAWANDA, NORTH TONAWANDA, AND LOCKPORT SUPPLIES. (REF 15)

NOTE HAS BEEN MADE THAT "ANY MIGRATION INTO THE TONAWANDA CHANNEL OF THE NIAGARA RIVER SHOULD BE DILUTED BELOW THE LEVEL WHICH WILL INDUCE ENVIRONMENTAL EFFECTS."

(REF. 5)

Computation of land area irrigated by above-cited intake(s) and conversion to population (1.5 people per acre):

NA

Total population served:

> 100,000

Name/description of nearest of above water bodies:

TONAWANDA CHANNEL OF NIAGARA RIVER

SURFACE RUNOFF MAY ENTER TWO MILE CREEK
BEFORE REACHING THE RIVER. (REF 14 & 15)

Distance to above-cited intakes, measured in stream miles.

INTAKES ARE APPROXIMATELY 1.2 MILES.
FROM FACILITY. 3 INTAKES WITHIN 2 MILES
OF SITE WHICH SERVE TONAWANDA, NORTH
TONAWANDA AND LOCKPORT. (REF 15)

AIR ROUTE

1 OBSERVED RELEASE

Contaminants detected:

ASBESTOS IS THE ONLY DOCUMENTED HAZARDOUS MATERIAL WHICH COULD BECOME AIRBORNE. NOTE MADE THAT THERE IS A HAZARD OF INHALATION OF DUST ON SITE AND THAT PROTECTIVE CLOTHING WAS REQUIRED. ZINC HYDROXIDE SLUDGE WAS ALSO ALLOWED TO AIR DRY ON SITE BEFORE DISPOSAL OF WHITE POWDER (REF 28)

Date and location of detection of contaminants

Methods used to detect the contaminants:

Rationale for attributing the contaminants to the site:

ASBESTOS DUST CREATED BY GRINDING AND CUTTING OF SPAULDITE SHEETS.

* * *

2 WASTE CHARACTERISTICS

Reactivity and Incompatibility

Most reactive compound:

NA

Most incompatible pair of compounds:

NA

Toxicity

Most toxic compound:

ASBESTOS DUST

Hazardous Waste Quantity

Total quantity of hazardous waste:

20 TONS OF INDUSTRIAL GRINDING WASTE
IN LANDFILL. (REF 5)

Basis of estimating and/or computing waste quantity:

DOCUMENTED

* * *

3 TARGETS

Population Within 4-Mile Radius

Circle radius used, give population, and indicate how determined:

0 to 4 mi 0 to 1 mi 0 to 1/2 mi 0 to 1/4 mi

> 10,000

Distance to a Sensitive Environment

Distance to 5-acre (minimum) coastal wetland, if 2 miles or less:

NA

Distance to 5-acre (minimum) fresh-water wetland, if 1 mile or less:

NA

Distance to critical habitat of an endangered species, if 1 mile or less:

NA

Land Use

Distance to commercial/industrial area, if 1 mile or less:

SITE IS AN INDUSTRIAL AREA

Distance to national or state park, forest, or wildlife reserve, if 2 miles or less:

NA

Distance to residential area, if 2 miles or less:

SITE IS ACROSS THE STREET FROM PRIVATE HOMES

Distance to agricultural land in production within past 5 years, if 1 mile or less:

NA

Distance to prime agricultural land in production within past 5 years, if 2 miles or less:

NA

Is a historic or landmark site (National Register or Historic Places and National Natural Landmarks) within the view of the site?

No

3.2 EPA PRELIMINARY ASSESSMENT (FORM 2070-12)

POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT PART 1 - SITE INFORMATION AND ASSESSMENT		I. IDENTIFICATION STATE: <u>NY</u> SITE NUMBER: <u>915050-d</u>	
II. SITE NAME AND LOCATION			
01 SITE NAME (Legal, common, or best known name of site) <u>SPAULDING FIRE CO., INC.</u>		02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER <u>310 WHEELER ST.</u>	
03 CITY <u>TONAWANDA</u>	04 STATE <u>NY</u>	05 ZIP CODE <u>14150</u>	06 COUNTY <u>ERIE</u>
09 COORDINATES LATITUDE <u>43 00 15.0</u>		LONGITUDE <u>078 53 10.0</u>	
10 DIRECTIONS TO SITE (Starting from nearest public road) <u>INTERSTATE -190 TO MILITARY RD. NORTH APPROXIMATELY .5 MILE TO WHEELER ST. TURN LEFT AND SITE WILL BE ON THE LEFT HAND SIDE ABOUT ONE BLOCK DOWN.</u>			
III. RESPONSIBLE PARTIES			
01 OWNER (if known) <u>MONOGRAM INDUSTRIES</u>		02 STREET (business, mailing, residential) <u>1241 N. ...</u>	
03 CITY <u>SANTA MONICA</u>	04 STATE <u>CA</u>	05 ZIP CODE <u>90401</u>	06 TELEPHONE NUMBER <u>()</u>
07 OPERATOR (if name and different from owner) <u>KEN LA PRZAK</u>		08 STREET (business, mailing, residential) <u>310 WHEELER ST.</u>	
09 CITY <u>TONAWANDA</u>	10 STATE <u>NY</u>	11 ZIP CODE <u>14150</u>	12 TELEPHONE NUMBER <u>(716) 692-2000</u>
13 TYPE OF OWNERSHIP (Check one) <input checked="" type="checkbox"/> A. PRIVATE <input type="checkbox"/> B. FEDERAL: _____ (Agency name) <input type="checkbox"/> C. STATE <input type="checkbox"/> D. COUNTY <input type="checkbox"/> E. MUNICIPAL <input type="checkbox"/> F. OTHER _____ (Specify) <input type="checkbox"/> G. UNKNOWN			
14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply) <input type="checkbox"/> A. RCRA 3001 DATE RECEIVED: <u>1/1</u> / <u>1</u> / <u>1</u> MONTH DAY YEAR <input type="checkbox"/> B. UNCONTROLLED WASTE SITE (RCRA 103(c)) DATE RECEIVED: <u>1/1</u> / <u>1</u> / <u>1</u> MONTH DAY YEAR <input type="checkbox"/> C. NONE			
IV. CHARACTERIZATION OF POTENTIAL HAZARD			
01 ON SITE INSPECTION <input checked="" type="checkbox"/> YES DATE <u>4/15/80</u> MONTH DAY YEAR <input type="checkbox"/> NO		BY (Check all that apply) <input type="checkbox"/> A. EPA <input type="checkbox"/> B. EPA CONTRACTOR <input checked="" type="checkbox"/> C. STATE <input type="checkbox"/> D. OTHER CONTRACTOR <input type="checkbox"/> E. LOCAL HEALTH OFFICIAL <input type="checkbox"/> F. OTHER: _____ (Specify) CONTRACTOR NAME(S): _____	
02 SITE STATUS (Check one) <input type="checkbox"/> A. ACTIVE <input checked="" type="checkbox"/> B. INACTIVE <input type="checkbox"/> C. UNKNOWN		03 YEARS OF OPERATION BEGINNING YEAR: <u>1977</u> ENDING YEAR: <u>1978</u> <input type="checkbox"/> UNKNOWN	
04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED <u>PARCEL</u> <u>AMALGAM DIL</u> <u>TOLUOL</u> <u>BUTYL OCTAL PHTHALATE</u> <u>FORMALDEHYDE</u> <u>ASBESTOS</u> <u>METHANOL</u> <u>TOLUENE</u> <u>DIBUTYL PHTHALATE</u> <u>CRESOL</u> <u>ETHYL ALCOHOL</u>			
05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION <u>UNKNOWN</u>			
V. PRIORITY ASSESSMENT			
01 PRIORITY FOR INSPECTION (Check one. If high or medium is checked, complete Part 2 - Waste Information and Part 3 - Description of Hazardous Conditions and Incidents) <input type="checkbox"/> A. HIGH (inspection required promptly) <input checked="" type="checkbox"/> B. MEDIUM (inspection required) <input type="checkbox"/> C. LOW (inspection if time available basis) <input type="checkbox"/> D. NONE (no further action needed, complete current disposition form)			
VI. INFORMATION AVAILABLE FROM			
01 CONTACT <u>RICHARD CROUCH</u>		02 OF (Agency/Organization) <u>RECRA RESEARCH, INC.</u>	
03 TELEPHONE NUMBER <u>(716) 838-6200</u>			
04 PERSON RESPONSIBLE FOR ASSESSMENT <u>ANDRE J. LAPRES</u>		05 AGENCY <u>—</u>	06 ORGANIZATION <u>RECRA</u>
07 TELEPHONE NUMBER <u>(716) 838-6200</u>		08 DATE <u>6/7/83</u> MONTH DAY YEAR	



POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 2 - WASTE INFORMATION

I. IDENTIFICATION

01 STATE: NY 02 SITE NUMBER: 915050-d

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

- A SOLID
 B POWDER, FINES
 C SLUDGE
 D OTHER _____ (Specify)
- E SLURRY
 F LIQUID
 G GAS

02 WASTE QUANTITY AT SITE

(Measure of waste quantities must be independent)

TONS 20

CUBIC YARDS _____

NO OF DRUMS 750

03 WASTE CHARACTERISTICS (Check all that apply)

- A TOXIC
 B CORROSIVE
 C RADIOACTIVE
 D PERSISTENT
- E SOLUBLE
 F INFECTIOUS
 G FLAMMABLE
 H IGNITABLE
- I HIGHLY VOLATILE
 J EXPLOSIVE
 K REACTIVE
 L INCOMPATIBLE
 M NOT APPLICABLE

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE			
OLW	OILY WASTE			
SOL	SOLVENTS	<u>750</u>	<u>DRUMS</u>	<u>PHENOL RESINS AND SOLVENTS</u>
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS			
IOC	INORGANIC CHEMICALS			
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS			

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/ DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
	<u>PHENOL</u>	<u>108-95-2</u>			
	<u>FORMALDEHYDE</u>	<u>50-00-0</u>			
	<u>DIBUTYL PHTHALATE</u>				
	<u>ANILINE OIL</u>	<u>62-53-3</u>			
	<u>ASBESTOS</u>				
	<u>CRESOL</u>	<u>1319-77-3</u>			
	<u>TOLUOL</u>				
	<u>METHANOL</u>				
	<u>ETHYL ALCOHOL</u>				
	<u>BUTYL OCTYL PHTHALATE</u>				
	<u>TOLUENE</u>	<u>108-88-3</u>			

V. FEEDSTOCKS (See Appendix for CAS Numbers)

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis reports)

REF 3. LETTER FROM: NYSDEC REGION 9, MR. ROBERT MITREY TO SPALDING FIBRE JACK KEHOE

REF 16. WASTE DISPOSAL SITES, INTERAGENCY TASK FORCE ON HAZARDOUS WASTE, MARCH 1979



POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT

PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

NY 915050d

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 A GROUNDWATER CONTAMINATION 02 OBSERVED (DATE: _____) POTENTIAL ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

PHENOL FOUND ABOVE NYSDEC STANDARD IN HIGH WATER TABLE
(REF 1)

01 B SURFACE WATER CONTAMINATION 02 OBSERVED (DATE: _____) POTENTIAL ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

THERE IS NO SURFACE WATER QUALITY DATA FOR THE SITE

01 C CONTAMINATION OF AIR 02 OBSERVED (DATE: _____) POTENTIAL ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

UNKNOWN

01 D FIRE/EXPLOSIVE CONDITIONS 02 OBSERVED (DATE: _____) POTENTIAL ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

UNKNOWN

01 E DIRECT CONTACT 02 OBSERVED (DATE: _____) POTENTIAL ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

UNKNOWN

01 F CONTAMINATION OF SOIL 02 OBSERVED (DATE: _____) POTENTIAL ALLEGED
03 AREA POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

NO MENTION OF LINERS USED IN LAGOONS, THEREFORE, THE
POTENTIAL FOR SOIL CONTAMINATION EXISTS

01 G DRINKING WATER CONTAMINATION 02 OBSERVED (DATE: _____) POTENTIAL ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

GROUNDWATER WELLS ARE NOT USED AS A POTABLE
WATER SOURCE.

01 H WORKER EXPOSURE/INJURY 02 OBSERVED (DATE: _____) POTENTIAL ALLEGED
03 WORKERS POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

NO RECORDS

01 I POPULATION EXPOSURE/INJURY 02 OBSERVED (DATE: _____) POTENTIAL ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

RESIDENTS ARE WITHIN 500 FEET OF LANDFILL AREAS. (REF 15)



POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION
01 STATE 02 SITE NUMBER
NY 915050-d

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 J. DAMAGE TO FLORA 02 OBSERVED (DATE: _____) POTENTIAL ALLEGED
04 NARRATIVE DESCRIPTION

UNKNOWN

01 K. DAMAGE TO FAUNA 02 OBSERVED (DATE: _____) POTENTIAL ALLEGED
04 NARRATIVE DESCRIPTION (include names of species)

UNKNOWN

01 L. CONTAMINATION OF FOOD CHAIN 02 OBSERVED (DATE: _____) POTENTIAL ALLEGED
04 NARRATIVE DESCRIPTION

UNKNOWN

01 M. UNSTABLE CONTAINMENT OF WASTES 02 OBSERVED (DATE: _____) POTENTIAL ALLEGED
(See Manual standing liquid leaking drums)
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

01 N. DAMAGE TO OFF-SITE PROPERTY 02 OBSERVED (DATE: _____) POTENTIAL ALLEGED
04 NARRATIVE DESCRIPTION

UNKNOWN

01 O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs 02 OBSERVED (DATE: _____) POTENTIAL ALLEGED
04 NARRATIVE DESCRIPTION

UNKNOWN

01 P. ILLEGAL/UNAUTHORIZED DUMPING 02 OBSERVED (DATE: _____) POTENTIAL ALLEGED
04 NARRATIVE DESCRIPTION

NONE

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

UNKNOWN

III. TOTAL POPULATION POTENTIALLY AFFECTED: _____

IV. COMMENTS

V. SOURCES OF INFORMATION (See specific references, e.g., state files, sample analysis reports)

REF 1 - NYSDEC MEMORANDUM, PETER BUECHI, IN REFERENCE TO ACTS TESTING & LABS TECHNICAL REPORTS
15 - USGS TOPOGRAPHIC MAP, TONAWANDA NORTH, NY, QUADRANGLE, 1965
18 - NYS WATER RESOURCES COMMISSION, ERIE-NIAGARA BASIN GROUNDWATER RESOURCES ENB-3, 1973

		POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT				I. IDENTIFICATION	
		PART 1 - SITE LOCATION AND INSPECTION INFORMATION		01 STATE NY	02 SITE NUMBER 915050-0		
II. SITE NAME AND LOCATION							
01 SITE NAME (Legal, common, or descriptive name of site) SPAULDING FIBRE, COMPANY, INC.				02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER 310 WHEELER ST.			
03 CITY TONAWANDA		04 STATE NY	05 ZIP CODE 14150	06 COUNTY ERIE		07 COUNTY CODE	08 CONG DIST
09 COORDINATES LATITUDE 43 22 15.0		LONGITUDE 078 53 10.0		10 TYPE OF OWNERSHIP (Check one) <input checked="" type="checkbox"/> A. PRIVATE <input type="checkbox"/> B. FEDERAL <input type="checkbox"/> C. STATE <input type="checkbox"/> D. COUNTY <input type="checkbox"/> E. MUNICIPAL <input type="checkbox"/> F. OTHER <input type="checkbox"/> G. UNKNOWN			
III. INSPECTION INFORMATION							
01 DATE OF INSPECTION 6/16/83 <small>MONTH DAY YEAR</small>		02 SITE STATUS <input type="checkbox"/> ACTIVE <input checked="" type="checkbox"/> INACTIVE		03 YEARS OF OPERATION 1977 1978 UNKNOWN <small>BEGINNING YEAR ENDING YEAR</small>			
04 AGENCY PERFORMING INSPECTION (Check all that apply) <input type="checkbox"/> A. EPA <input type="checkbox"/> B. EPA CONTRACTOR <input type="checkbox"/> C. MUNICIPAL <input type="checkbox"/> D. MUNICIPAL CONTRACTOR <input type="checkbox"/> E. STATE <input type="checkbox"/> F. STATE CONTRACTOR <input type="checkbox"/> G. OTHER							
05 CHIEF INSPECTOR ANDRE J. LAPRES		06 TITLE GEOLOGIST		07 ORGANIZATION REORA		08 TELEPHONE NO. (716) 838-6200	
09 OTHER INSPECTORS JAMES STACHOWSKI		10 TITLE GEOLOGIST		11 ORGANIZATION REORA		12 TELEPHONE NO. (716) 838-6200	
						()	
						()	
						()	
						()	
13 SITE REPRESENTATIVES INTERVIEWED KENNETH CASPERZAK		14 TITLE		15 ADDRESS 310 WHEELER ST		16 TELEPHONE NO. (716) 692-2000	
						()	
						()	
						()	
						()	
						()	
17 ACCESS GAINED BY (Check one) <input type="checkbox"/> PERMISSION <input type="checkbox"/> WARRANT		18 TIME OF INSPECTION		19 WEATHER CONDITIONS			
IV. INFORMATION AVAILABLE FROM							
01 CONTACT RICHARD CROUCH		02 OF (Agency/Organization) REORA RESEARCH INC.			03 TELEPHONE NO. (716) 838-6200		
04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM ANDRE J. LAPRES		05 AGENCY	06 ORGANIZATION REORA	07 TELEPHONE NO. 838-6200	08 DATE 5/31/83 <small>MONTH DAY YEAR</small>		



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 2 - WASTE INFORMATION

I. IDENTIFICATION

01 STATE: NY 02 SITE NUMBER: 915050-d

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply) <input checked="" type="checkbox"/> A SOLID <input checked="" type="checkbox"/> B POWDER, FINES <input type="checkbox"/> C SLUDGE <input type="checkbox"/> D OTHER _____ <small>(Specify)</small>	02 WASTE QUANTITY AT SITE <small>(Measures of waste quantities must be independent)</small> TONS <u>20</u> CUBIC YARDS _____ NO OF DRUMS <u>750</u>	03 WASTE CHARACTERISTICS (Check all that apply)		
		<input checked="" type="checkbox"/> A TOXIC <input type="checkbox"/> B CORROSIVE <input type="checkbox"/> C RADIOACTIVE <input checked="" type="checkbox"/> D PERSISTENT	<input type="checkbox"/> E SOLUBLE <input type="checkbox"/> F INFECTIOUS <input type="checkbox"/> G FLAMMABLE <input type="checkbox"/> H IGNITABLE	<input type="checkbox"/> I HIGHLY VOLATILE <input type="checkbox"/> J EXPLOSIVE <input type="checkbox"/> K REACTIVE <input type="checkbox"/> L INCOMPATIBLE <input type="checkbox"/> M NOT APPLICABLE

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE			
OLW	OILY WASTE			
SOL	SOLVENTS	<u>750</u>	<u>DRUMS</u>	<u>PHENOLIC RESINS AND SOLVENTS</u>
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS			
IOC	INORGANIC CHEMICALS			
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS			

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION

V. FEEDSTOCKS (See Appendix for CAS Numbers)

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state fees, sample analysis reports)

REF 16. - WASTE DISPOSAL SITES, INTERAGENCY TASK FORCE ON HAZARDOUS WASTE, MARCH, 1979.



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
NY	915050-d

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 A. GROUNDWATER CONTAMINATION
02 OBSERVED (DATE: _____) POTENTIAL ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION
PHENOL FOUND AT LEVELS ABOVE NYSDEC STANDARD IN HIGH WATER TABLE
(REF 1)

01 B. SURFACE WATER CONTAMINATION
02 OBSERVED (DATE: _____) POTENTIAL ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION
THERE IS NO SURFACE WATER QUALITY DATA FOR THE SITE

01 C. CONTAMINATION OF AIR
02 OBSERVED (DATE: _____) POTENTIAL ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION
NO RECORD OF ANY INCIDENT

01 D. FIRE/EXPLOSIVE CONDITIONS
02 OBSERVED (DATE: _____) POTENTIAL ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION
NO RECORD

01 E. DIRECT CONTACT
02 OBSERVED (DATE: _____) POTENTIAL ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION
UNKNOWN

01 F. CONTAMINATION OF SOIL
02 OBSERVED (DATE: _____) POTENTIAL ALLEGED
03 AREA POTENTIALLY AFFECTED: _____ (Acres) 04 NARRATIVE DESCRIPTION
NO MENTION OF LINERS USED IN LAGOONS, THEREFORE, THE
POTENTIAL FOR SOIL CONTAMINATION EXISTS

01 G. DRINKING WATER CONTAMINATION
02 OBSERVED (DATE: _____) POTENTIAL ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION
GROUNDWATER WELLS ARE NOT USED AS A POTABLE WATER
SOURCE

01 H. WORKER EXPOSURE/INJURY
02 OBSERVED (DATE: _____) POTENTIAL ALLEGED
03 WORKERS POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION
NONE REPORTED

01 I. POPULATION EXPOSURE/INJURY
02 OBSERVED (DATE: _____) POTENTIAL ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION
UNKNOWN



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE NY 02 SITE NUMBER 915050-d

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 J. DAMAGE TO FLORA 02 OBSERVED (DATE: _____) POTENTIAL ALLEGED
04 NARRATIVE DESCRIPTION

UNKNOWN

01 K. DAMAGE TO FAUNA 02 OBSERVED (DATE: _____) POTENTIAL ALLEGED
04 NARRATIVE DESCRIPTION (include name(s) of species)

UNKNOWN

01 L. CONTAMINATION OF FOOD CHAIN 02 OBSERVED (DATE: _____) POTENTIAL ALLEGED
04 NARRATIVE DESCRIPTION

UNKNOWN

01 M. UNSTABLE CONTAINMENT OF WASTES
(Spills/Runoff/Standing liquids Leaking drums) 02 OBSERVED (DATE: _____) POTENTIAL ALLEGED
03 POPULATION POTENTIALLY AFFECTED _____ 04 NARRATIVE DESCRIPTION

NO MENTION OF LINERS USED IN LAGOONS

01 N. DAMAGE TO OFFSITE PROPERTY 02 OBSERVED (DATE: _____) POTENTIAL ALLEGED
04 NARRATIVE DESCRIPTION

NONE KNOWN

01 O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs 02 OBSERVED (DATE: _____) POTENTIAL ALLEGED
04 NARRATIVE DESCRIPTION

UNKNOWN

01 P. ILLEGAL/UNAUTHORIZED DUMPING 02 OBSERVED (DATE: _____) POTENTIAL ALLEGED
04 NARRATIVE DESCRIPTION

NONE KNOWN

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZAROS

UNKNOWN

III. TOTAL POPULATION POTENTIALLY AFFECTED: _____

IV. COMMENTS

V. SOURCES OF INFORMATION (Cite specific references, e.g., State IDs, SEM/DA analysis reports)

REF 1- NYSDEC MEMORANDUM, PETER BUECHI, 2-11-83, IN REFERENCE TO ACTS TESTING TECHNICAL REPORTS
1B- NYS WATER RESOURCE COMMISSION, ERIE-NIAGARA BASIN GROUNDWATER RESOURCES, ENB-3, 1973



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION
PART 4 - PERMIT AND DESCRIPTIVE INFORMATION

I. IDENTIFICATION
01 STATE NY 02 SITE NUMBER 915050 d

II. PERMIT INFORMATION

01 TYPE OF PERMIT ISSUED <small>(Check all that apply)</small>	02 PERMIT NUMBER	03 DATE ISSUED	04 EXPIRATION DATE	05 COMMENTS
<input type="checkbox"/> A. NPDES				
<input type="checkbox"/> B. UIC				
<input type="checkbox"/> C. AIR				
<input type="checkbox"/> D. RCRA				
<input type="checkbox"/> E. RCRA INTERIM STATUS				
<input type="checkbox"/> F. SPCC PLAN				
<input type="checkbox"/> G. STATE <small>(Specify)</small>				
<input type="checkbox"/> H. LOCAL <small>(Specify)</small>				
<input type="checkbox"/> I. OTHER <small>(Specify)</small>				
<input type="checkbox"/> J. NONE				

III. SITE DESCRIPTION

01 STORAGE/DISPOSAL <small>(Check all that apply)</small>	02 AMOUNT	03 UNIT OF MEASURE	04 TREATMENT <small>(Check all that apply)</small>	05 OTHER
<input type="checkbox"/> A. SURFACE IMPOUNDMENT			<input type="checkbox"/> A. INCENERATION	<input checked="" type="checkbox"/> A. BUILDINGS ON SITE
<input type="checkbox"/> B. PILES			<input type="checkbox"/> B. UNDERGROUND INJECTION	
<input type="checkbox"/> C. DRUMS, ABOVE GROUND			<input type="checkbox"/> C. CHEMICAL/PHYSICAL	06 AREA OF SITE 50 <small>(Acres)</small>
<input type="checkbox"/> D. TANK, ABOVE GROUND			<input type="checkbox"/> D. BIOLOGICAL	
<input type="checkbox"/> E. TANK, BELOW GROUND			<input type="checkbox"/> E. WASTE OIL PROCESSING	
<input checked="" type="checkbox"/> F. LANDFILL	20 / 7.50	TONS / DRUMS	<input type="checkbox"/> F. SOLVENT RECOVERY	
<input type="checkbox"/> G. LANDFARM			<input type="checkbox"/> G. OTHER RECYCLING/RECOVERY	
<input type="checkbox"/> H. OPEN DUMP			<input type="checkbox"/> H. OTHER <small>(Specify)</small>	
<input type="checkbox"/> I. OTHER <small>(Specify)</small>				

07 COMMENTS

IV. CONTAINMENT

01 CONTAINMENT OF WASTES (Check one)
 A. ADEQUATE, SECURE B. MODERATE C. INADEQUATE, POOR D. INSECURE, UNSOUND, DANGEROUS

02 DESCRIPTION OF DRUMS, DIKING, LINERS, BARRIERS, ETC.

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE: YES NO
 02 COMMENTS

VI. SOURCES OF INFORMATION (Cite specific references, e.g. state files, sample analysis, reports)

REF 16 - WASTE DISPOSAL SITES, INTERAGENCY TASK FORCE ON HAZARDOUS WASTE, MARCH, 1979.



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION
01 STATE: NY 02 SITE NUMBER: 915050-d

II. DRINKING WATER SUPPLY

01 TYPE OF DRINKING SUPPLY <small>(Check as applicable)</small>			02 STATUS			03 DISTANCE TO SITE	
	SURFACE	WELL	ENDANGERED	AFFECTED	MONITORED	A.	
COMMUNITY	A. <input checked="" type="checkbox"/>	B. <input type="checkbox"/>	A. <input type="checkbox"/>	B. <input type="checkbox"/>	C. <input type="checkbox"/>	<u>1.0</u>	(mi)
NON-COMMUNITY	C. <input type="checkbox"/>	D. <input type="checkbox"/>	D. <input type="checkbox"/>	E. <input type="checkbox"/>	F. <input type="checkbox"/>	B.	

III. GROUNDWATER

01 GROUNDWATER USE IN VICINITY (Check one)

A. ONLY SOURCE FOR DRINKING
 B. DRINKING (Other sources available)
COMMERCIAL, INDUSTRIAL, IRRIGATION (No other water sources available)

C. COMMERCIAL, INDUSTRIAL, IRRIGATION (If used other sources available)

D. NOT USED, UNUSEABLE

02 POPULATION SERVED BY GROUND WATER <u>NA</u>		03 DISTANCE TO NEAREST DRINKING WATER WELL <u>NA</u> (mi)	
04 DEPTH TO GROUNDWATER <u>70</u> (ft)	05 DIRECTION OF GROUNDWATER FLOW <u>N 010°</u>	06 DEPTH TO AQUIFER OF CONCERN <u>≈ 40</u> (ft)	07 POTENTIAL YIELD OF AQUIFER <u>1050 GPM</u>
		08 SOLE SOURCE AQUIFER <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	

09 DESCRIPTION OF WELLS (including usage, depth, and location relative to population and buildings)

10 RECHARGE AREA <input type="checkbox"/> YES <input type="checkbox"/> NO	COMMENTS	11 DISCHARGE AREA <input type="checkbox"/> YES <input type="checkbox"/> NO	COMMENTS
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V. SURFACE WATER

01 SURFACE WATER USE (Check one)

A. RESERVOIR, RECREATION DRINKING WATER SOURCE

B. IRRIGATION, ECONOMICALLY IMPORTANT RESOURCES

C. COMMERCIAL, INDUSTRIAL

D. NOT CURRENTLY USED

02 AFFECTED/POTENTIALLY AFFECTED BODIES OF WATER

NAME:	AFFECTED	DISTANCE TO SITE
<u>NIAGARA RIVER</u>	<input type="checkbox"/>	<u>1.0</u> (mi)
	<input type="checkbox"/>	(mi)
	<input type="checkbox"/>	(mi)

V. DEMOGRAPHIC AND PROPERTY INFORMATION

01 TOTAL POPULATION WITHIN			02 DISTANCE TO NEAREST POPULATION
ONE (1) MILE OF SITE A. _____ NO. OF PERSONS	TWO (2) MILES OF SITE B. _____ NO. OF PERSONS	THREE (3) MILES OF SITE C. _____ NO. OF PERSONS	<u>500 FT</u>

03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE	04 DISTANCE TO NEAREST OFF-SITE BUILDING
	<u>500 FT</u>

05 POPULATION WITHIN VICINITY OF SITE (Provide as naive description of nature of population within vicinity of site, e.g., rural village, densely populated urban area)

HEAVILY POPULATED URBAN AREA



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION
01 STATE 02 SITE NUMBER
NY 915050-d

VI. ENVIRONMENTAL INFORMATION

01 PERMEABILITY OF UNSATURATED ZONE (check one)
 A. $10^{-6} - 10^{-8}$ cm/sec B. $10^{-4} - 10^{-6}$ cm/sec C. $10^{-2} - 10^{-3}$ cm/sec D. GREATER THAN 10^{-3} cm/sec

02 PERMEABILITY OF BEDROCK (check one)
 A. IMPERMEABLE (Less than 10^{-6} cm/sec) B. RELATIVELY IMPERMEABLE ($10^{-4} - 10^{-6}$ cm/sec) C. RELATIVELY PERMEABLE ($10^{-2} - 10^{-4}$ cm/sec) D. VERY PERMEABLE (Greater than 10^{-2} cm/sec)

03 DEPTH TO BEDROCK 70 (ft) 04 DEPTH OF CONTAMINATED SOIL ZONE _____ (ft) 05 SOIL pH _____

06 NET PRECIPITATION 9 (in) 07 ONE YEAR 24 HOUR RAINFALL 2.1 (in) 08 SLOPE SITE SLOPE 0 % DIRECTION OF SITE SLOPE _____ TERRAIN AVERAGE SLOPE 0 %

09 FLOOD POTENTIAL
SITE IS IN _____ YEAR FLOODPLAIN SITE IS ON BARRIER ISLAND, COASTAL HIGH HAZARD AREA, RIVERINE FLOODWAY

11 DISTANCE TO WETLANDS (5 acre minimum)
ESTUARINE OTHER
A. _____ (mi) B. _____ (mi)
12 DISTANCE TO CRITICAL HABITAT (of endangered species) _____ (mi)
ENDANGERED SPECIES: _____

13 LAND USE IN VICINITY
DISTANCE TO:
COMMERCIAL/INDUSTRIAL RESIDENTIAL AREAS, NATIONAL/STATE PARKS, FORESTS, OR WILDLIFE RESERVES AGRICULTURAL LANDS PRIME AGLAND AG LAND
A. 50 FT B. _____ (mi) C. _____ (mi) D. _____ (mi)

14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY
TOPOGRAPHY IN THE AREA AROUND SPAULDING FIBRE IS GENERALLY FLAT.

VII. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis reports)

15 - USGS TOPOGRAPHIC MAP, TOWAWANDA NORTH QUADRANGLE, 1965
25 - HRS MITRE MODEL, JULY 16, 1982.



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 7 - OWNER INFORMATION

I. IDENTIFICATION
01 STATE 02 SITE NUMBER
NY 915050-d

II. CURRENT OWNER(S)							PARENT COMPANY (if applicable)						
01 NAME MONOGRAM INDUSTRIES			02 D+B NUMBER		08 NAME			09 D+B NUMBER					
03 STREET ADDRESS (P.O. Box, RFD #, etc.) 1299 OCEAN AVE				04 SIC CODE		10 STREET ADDRESS (P.O. Box, RFD #, etc.)				11 SIC CODE			
05 CITY SANTA MONICA		06 STATE CA	07 ZIP CODE 90401		12 CITY			13 STATE	14 ZIP CODE				
01 NAME			02 D+B NUMBER		08 NAME			09 D+B NUMBER					
03 STREET ADDRESS (P.O. Box, RFD #, etc.)				04 SIC CODE		10 STREET ADDRESS (P.O. Box, RFD #, etc.)				11 SIC CODE			
05 CITY		06 STATE	07 ZIP CODE		12 CITY			13 STATE	14 ZIP CODE				
01 NAME			02 D+B NUMBER		08 NAME			09 D+B NUMBER					
03 STREET ADDRESS (P.O. Box, RFD #, etc.)				04 SIC CODE		10 STREET ADDRESS (P.O. Box, RFD #, etc.)				11 SIC CODE			
05 CITY		06 STATE	07 ZIP CODE		12 CITY			13 STATE	14 ZIP CODE				
01 NAME			02 D+B NUMBER		08 NAME			09 D+B NUMBER					
03 STREET ADDRESS (P.O. Box, RFD #, etc.)				04 SIC CODE		10 STREET ADDRESS (P.O. Box, RFD #, etc.)				11 SIC CODE			
05 CITY		06 STATE	07 ZIP CODE		12 CITY			13 STATE	14 ZIP CODE				
01 NAME			02 D+B NUMBER		08 NAME			09 D+B NUMBER					
03 STREET ADDRESS (P.O. Box, RFD #, etc.)				04 SIC CODE		10 STREET ADDRESS (P.O. Box, RFD #, etc.)				11 SIC CODE			
05 CITY		06 STATE	07 ZIP CODE		12 CITY			13 STATE	14 ZIP CODE				
III. PREVIOUS OWNER(S) (List most recent first)							IV. REALTY OWNER(S) (if applicable list most recent first)						
01 NAME			02 D+B NUMBER		01 NAME			02 D+B NUMBER					
03 STREET ADDRESS (P.O. Box, RFD #, etc.)				04 SIC CODE		03 STREET ADDRESS (P.O. Box, RFD #, etc.)				04 SIC CODE			
05 CITY		06 STATE	07 ZIP CODE		05 CITY			06 STATE	07 ZIP CODE				
01 NAME			02 D+B NUMBER		01 NAME			02 D+B NUMBER					
03 STREET ADDRESS (P.O. Box, RFD #, etc.)				04 SIC CODE		03 STREET ADDRESS (P.O. Box, RFD #, etc.)				04 SIC CODE			
05 CITY		06 STATE	07 ZIP CODE		05 CITY			06 STATE	07 ZIP CODE				
01 NAME			02 D+B NUMBER		01 NAME			02 D+B NUMBER					
03 STREET ADDRESS (P.O. Box, RFD #, etc.)				04 SIC CODE		03 STREET ADDRESS (P.O. Box, RFD #, etc.)				04 SIC CODE			
05 CITY		06 STATE	07 ZIP CODE		05 CITY			06 STATE	07 ZIP CODE				
V. SOURCES OF INFORMATION (Check specific references, e.g., State files, satellite imagery, etc.)													



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 6 - SAMPLE AND FIELD INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
NY 915050-d

II. SAMPLES TAKEN

SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER		NO SAMPLES TAKEN AT TIME OF INVESTIGATION	
SURFACE WATER			
WASTE			
AIR			
RUNOFF			
SPILL			
SOIL			
VEGETATION			
OTHER			

III. FIELD MEASUREMENTS TAKEN

01 TYPE	02 COMMENTS
NONE	

IV. PHOTOGRAPHS AND MAPS

01 TYPE <input checked="" type="checkbox"/> GROUND <input type="checkbox"/> AERIAL	02 IN CUSTODY OF <u>RECRA RESEARCH, INC.</u> <small>(Name of organization or individual)</small>
03 MAPS <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	04 LOCATION OF MAPS <u>USGS 7.5' TONAWANDA WEST QUAD 1965</u>

V. OTHER FIELD DATA COLLECTED (Provide narrative description)

VI. SOURCES OF INFORMATION (One specific reference, e.g., state files, sample analysis reports)



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 8 - OPERATOR INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

NY 915050-d

II. CURRENT OPERATOR (Provide a different form owner)				OPERATOR'S PARENT COMPANY (if applicable)			
01 NAME		02 D+B NUMBER		10 NAME		11 D+B NUMBER	
SPAULDING FIBRE CO.							
03 STREET ADDRESS (P.O. Box, RFD#, etc.)			04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD#, etc.)			13 SIC CODE
310 WHEELER ST.							
05 CITY		06 STATE	07 ZIP CODE	14 CITY		15 STATE	16 ZIP CODE
TONAWANDA		NY	14150				
08 YEARS OF OPERATION		09 NAME OF OWNER					
III. PREVIOUS OPERATOR(S) (List most recent first, provide only if different from above)				PREVIOUS OPERATORS' PARENT COMPANIES (if applicable)			
01 NAME		02 D+B NUMBER		10 NAME		11 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD#, etc.)			04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD#, etc.)			13 SIC CODE
05 CITY		06 STATE	07 ZIP CODE	14 CITY		15 STATE	16 ZIP CODE
08 YEARS OF OPERATION		09 NAME OF OWNER DURING THIS PERIOD					
01 NAME		02 D+B NUMBER		10 NAME		11 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD#, etc.)			04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD#, etc.)			13 SIC CODE
05 CITY		06 STATE	07 ZIP CODE	14 CITY		15 STATE	16 ZIP CODE
08 YEARS OF OPERATION		09 NAME OF OWNER DURING THIS PERIOD					
01 NAME		02 D+B NUMBER		10 NAME		11 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD#, etc.)			04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD#, etc.)			13 SIC CODE
05 CITY		06 STATE	07 ZIP CODE	14 CITY		15 STATE	16 ZIP CODE
08 YEARS OF OPERATION		09 NAME OF OWNER DURING THIS PERIOD					

IV. SOURCES OF INFORMATION (See specific references, e.g., state files, sample analysis reports)



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 9 - GENERATOR/TRANSPORTER INFORMATION

I. IDENTIFICATION
01 STATE NY 02 SITE NUMBER 915050 d

II. ON-SITE GENERATOR

01 NAME SPAULDING FIBRE		02 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.) 310 WHEELER		04 SIC CODE	
05 CITY TONAWANDA	06 STATE NY	07 ZIP CODE 14150	

III. OFF-SITE GENERATOR(S)

01 NAME NONE		02 D+B NUMBER		01 NAME		02 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	
05 CITY	06 STATE	07 ZIP CODE		05 CITY	06 STATE	07 ZIP CODE	
01 NAME		02 D+B NUMBER		01 NAME		02 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	
05 CITY	06 STATE	07 ZIP CODE		05 CITY	06 STATE	07 ZIP CODE	

IV. TRANSPORTER(S)

01 NAME		02 D+B NUMBER		01 NAME		02 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	
05 CITY	06 STATE	07 ZIP CODE		05 CITY	06 STATE	07 ZIP CODE	
01 NAME		02 D+B NUMBER		01 NAME		02 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	
05 CITY	06 STATE	07 ZIP CODE		05 CITY	06 STATE	07 ZIP CODE	

V. SOURCES OF INFORMATION (Give specific references, e.g., State files, analytical reports)



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
NY	915050-d

II. PAST RESPONSE ACTIVITIES

01 <input type="checkbox"/> A. WATER SUPPLY CLOSED 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
NO RECORD OF THIS ACTION TAKEN		
01 <input type="checkbox"/> B. TEMPORARY WATER SUPPLY PROVIDED 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
NOT KNOWN		
01 <input type="checkbox"/> C. PERMANENT WATER SUPPLY PROVIDED 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
NOT KNOWN		
01 <input type="checkbox"/> D. SPILLED MATERIAL REMOVED 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
UNKNOWN		
01 <input type="checkbox"/> E. CONTAMINATED SOIL REMOVED 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
LAGOONS HAVE BEEN EXCAVATED AND CONTENTS PLACED ELSEWHERE (REF 3)		
01 <input type="checkbox"/> F. WASTE REPACKAGED 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
UNKNOWN		
01 <input type="checkbox"/> G. WASTE DISPOSED ELSEWHERE 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
LAGOON CONTENTS EMPTIED AND SOILS EXCAVATED PLACED IN UNKNOWN LOCATION (REF 3)		
01 <input type="checkbox"/> H. ON SITE BURIAL 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
ONE LANDFILL WITH 750 DRUMS OF LIQUID WASTE ONE LANDFILL CONTAINS APPROXIMATELY 20 TONS OF SOLID WASTE		
01 <input type="checkbox"/> I. IN SITU CHEMICAL TREATMENT 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
REACTION WATERS ARE INCINERATED AT THE PLANT		
01 <input type="checkbox"/> J. IN SITU BIOLOGICAL TREATMENT 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
NONE KNOWN		
01 <input type="checkbox"/> K. IN SITU PHYSICAL TREATMENT 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
NONE KNOWN		
01 <input type="checkbox"/> L. ENCAPSULATION 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
NONE KNOWN		
01 <input type="checkbox"/> M. EMERGENCY WASTE TREATMENT 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
NONE KNOWN		
01 <input type="checkbox"/> N. CUTOFF WALLS 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
NONE KNOWN		
01 <input type="checkbox"/> O. EMERGENCY DIKING/SURFACE WATER DIVERSION 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
NONE KNOWN		
01 <input type="checkbox"/> P. CUTOFF TRENCHES/SUMP 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
UNKNOWN		
01 <input type="checkbox"/> Q. SUBSURFACE CUTOFF WALL 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
UNKNOWN		



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

I IDENTIFICATION	
01 STATE	02 SITE NUMBER
NY	915050-d

II PAST RESPONSE ACTIVITIES (Continued)

01 <input type="checkbox"/> R. BARRIER WALLS CONSTRUCTED 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
NONE KNOWN		
01 <input type="checkbox"/> S. CAPPING COVERING 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
3-5' OF CLAY CAP COVERING 20 TONS OF POLYETHYLENE BAGGED PHENOLIC AND ASBESTOS RESIN (REF 3)		
01 <input type="checkbox"/> T. BULK TANKAGE REPAIRED 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
UNKNOWN		
01 <input type="checkbox"/> U. GROUT CURTAIN CONSTRUCTED 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
UNKNOWN		
01 <input type="checkbox"/> V. BOTTOM SEALED 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
BAGGED WASTE DISPOSED OF IN CLAY PITS - DEPTH OF CLAY UNKNOWN (REF 3)		
01 <input type="checkbox"/> W. GAS CONTROL 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
UNKNOWN		
01 <input type="checkbox"/> X. FIRE CONTROL 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
UNKNOWN		
01 <input type="checkbox"/> Y. LEACHATE TREATMENT 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
UNKNOWN		
01 <input type="checkbox"/> Z. AREA EVACUATED 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
2 LAGOONS HAVE BEEN EMPTIED AND EXCAVATED DATE UNKNOWN; EXCAVATED SOIL SHIPPED TO UNKNOWN LOCATION		
01 <input type="checkbox"/> 1. ACCESS TO SITE RESTRICTED 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
CHAIN LINK FENCE AND 24 HOUR GUARD		
01 <input type="checkbox"/> 2. POPULATION RELOCATED 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
NO RELOCATION		
01 <input type="checkbox"/> 3. OTHER REMEDIAL ACTIVITIES 04 DESCRIPTION	02 DATE _____	03 AGENCY _____

III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis reports)

REF 3 - LETTER FROM: NYSDEC REGION 9, MR. ROBERT MITREY TO: MR. JACK KEHDE. SPALDING FIBRE, 9-11-78.



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 11 - ENFORCEMENT INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NY	915050-d

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION YES NO

02 DESCRIPTION OF FEDERAL, STATE, LOCAL REGULATORY/ENFORCEMENT ACTION

III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis reports)

4.0 SITE HISTORY

Spaulding Fibre Company, Inc. is a division of Monogram Industries of California. The company began operation in Tonawanda, New York in 1911. Basic manufacturing processes employed at this plant include paper making, condensation, polymerization, resin carrier saturating, high pressure laminating, vulcanizing filament (1960 to 1977), and fabrication (1939 to 1973). The products manufactured by this company are largely for the electrical industry. These products include vulcanized fibre, thermosetting laminates, paper filawound glass tubing (1960-1977), and fabrication of fibre and laminates (1939-1973). The waste generated from these processes and products are scrap vulcanized fibre, vulcanized fibre sheet, thermosetting plastic, zinc sulfate and diatomaceous earth, zinc hydroxide filter cake, waste oil, asbestos, glass dust, waste varnishes, fabrication grindings and waters of reaction containing phenol, formaldehyde, solvents, and cresylic (Ref. 16).

All combustible waste was incinerated at the plant up until 1969. During this time the grinding waste, which consisted of 50% phenolic resin and 50% asbestos or glass dust, had been lagooned. These lagoons have since been excavated and the excavated material has been disposed of. The names of the haulers and the location of disposal are unknown.

From 1969 to 1974, wastes were hauled by Wheatfield Warehouses Incorporated of North Tonawanda. The waste hauled by this firm included

scrap vulcanized fibre, vulcanized fibre sheet, and thermosetting plastic and trimmings. These materials were disposed of at Seaway Industrial Park and an unspecified area of what is now known as the Lasalle Expressway in Niagara Falls, New York.

Since 1972 Niagara Sanitation has hauled the solid wastes and Booth Oil Company, Incorporated hauls the waste oils. Waters of reaction are incinerated at the Spaulding Fibre plant.

During the period 1977 to 1978 Spaulding Fibre operated two (2) landfill areas on the Company property. These landfills are at present inactive, however, the materials disposed of are still in place on the site. One landfill contains approximately 750 drums of liquid waste. The other landfill contains approximately 20 tons of solid waste. The drummed liquid waste at the site contains phenol, formaldehyde, dibutyl phthalate, aniline oil, cresol, toluol, methanol, ethyl alcohol, buty octal phthalate, and toluene. The solid waste, which is generated by a glass "Spauldite" grinding operation at the plant, consists of phenol, asbestos, glass and zinc chloride. This material had been double bagged in polyethylene and buried in clay pits to a depth of fifteen (15) feet (Ref. 3).

5.0 SITE DATA

5.1 Site Area Surface Features

5.1.1 Topography and Drainage - The topography in the area of Spaulding Fibre can generally be characterized as flat. Surface features are typical of a glacial lake plain environment. Topography in the immediate area is mainly the result of urban development. Slope of the area has been determined, from the U.S.G.S. Tonawanda West quadrangle, to be approximately .5% (10 ft/2000 ft) to the north (Ref. 15). The nearest downslope water surface is the Niagara River northwest of the site which is a "Class A" (special international boundary) water resource (Ref. 24). Runoff may, however, enter Two Mile Creek west of the site before reaching the Niagara River. Storm sewers for Tonawanda would most likely prevent surface runoff of any distance.

5.1.2 Environmental Setting - The Spaulding Fibre plant is located in a densely populated urban area. There are no protected wetlands, critical habitats of endangered species or wildlife refuges in the vicinity of the site. The Niagara River, Two Mile

Creek and Tonawanda Creek are the only nearby surface waters and are approximately .5 miles from the site (Ref. 15).

5.2 Site Hydrogeology

5.2.1 Geology - Bedrock beneath the Spaulding Fibre site is the Camillus Shale of the Salina Group and is encountered at approximately 40 feet below the ground surface. This unit consists mainly of gray shale, however, considerable amounts of gray limestone and dolomite are found interbedded in the unit. Gypsum and anhydrite are present within the beds of shale and many occurrences are found to be up to five (5) feet thick. Overall thickness of the Camillus shale is approximately 400 feet. Regional dip of the bedrock is to the south at approximately .5° (Ref. 23).

5.2.2 Soils - The unconsolidated material overlying bedrock in the area is mainly clayey lake sediments and dense glacial till. Boring logs taken at the Spaulding site detail the soil profile to twenty (20) feet as; fill to four (4) feet over .5 foot of silty clay lake sediments resting on very dense silty clay loam glacial till (Ref. 19). Calspan Corporation of Cheektowaga, New York

determined the permeability of these materials ranged from 2.0×10^{-5} to 2.3×10^{-7} cm/sec (Ref. 26). The surficial soil has been characterized as urban by the Soil Conservation Service.

5.2.3 Groundwater - Groundwater wells are not frequently used in the area around Spaulding Fibre and those that are in use are for industrial purposes. Well depths range from 101 feet to 375 feet and draw water from the Camillus shale bedrock aquifer. Yields of wells in this unit are extremely high due to the large storage capacity created by the dissolving of interbedded gypsum. However, the quality of water drawn from this aquifer is poor due to the high hydrogen sulfide content (Ref. 23). The high groundwater table is reported to be perched in the uppermost fill layer above clay at a depth of approximately four (4) feet. Groundwater flow is in a northerly direction toward the Niagara River and the Erie Canal (Ref. 19).

5.3 Previous Sampling and Analysis

5.3.1 Groundwater Quality Data - Groundwater monitoring wells are in place near the drummed liquid landfill with one (1) well upstream and one (1) well

downstream of groundwater flow. These are shallow wells at approximately thirty-four (34) foot depth and are screened in the glacial till. Analysis for phenol, antimony and COD has been done biannually since 1978 by Acts Testing Labs, Inc. In November, 1982, Spaulding was advised that monitoring for antimony should be discontinued and monitoring for THO should be initiated. Phenol has been found in excess of NYSDEC standards in both the upstream and the downstream wells (Ref. 1). In some cases the levels of phenol were found to be higher in the upstream than the downstream well, however, this may be due to groundwater mounding as a result of the release of overburden pressure by excavating for the landfill. There has been no known testing of groundwater quality for other than the above mentioned parameters.

5.3.2 Surface Water Quality Data - There is no surface water quality data for the site.

5.3.3 Air Quality Data - There is no air quality data for the site.

ACTS TESTING LABS, INC.

3900 Broadway • Buffalo, N.Y. 14227-1192 • (716) 684-3300

TECHNICAL REPORT

October 19, 1982

Mr. Leonard Oseekey
SPAULDING FIBRE COMPANY

OBJECT:

Analysis of two wastewater samples received from Spaulding Fibre Company, 310 Wheeler Street, Buffalo, New York on October 12, 1982.

RESULTS:

	10/11/82 Landfill Well By Fence (✓)	10/11/82 Landfill Well By Building (P)
Phenols	LT 0.03	LT 0.03
Antimony	LT 0.002	LT 0.002
COD	LT 1.0	14.0

LT = Less Than

The above results are reported as milligrams per liter (mg/l).

EXPERIMENTAL:

All analyses were conducted according to procedures listed in "Standard Methods for the Examination of Water and Wastewater", 15th Edition, 1980.

ACTS TESTING LABS, INC.

Thomas Knickerbocker
Thomas Knickerbocker
Environmental Laboratory
Coordinator

ACTS TESTING LABS, INC.

Daniel P. Hurtha
Daniel P. Hurtha, Ph.D.
Laboratory Director

ACIS TESTING LABS, INC.

3900 Broadway • Buffalo, N. Y. 14227 • (716) 684-3300

TECHNICAL REPORT

April 8, 1981

Mr. Leonard Oseekey
SPAULDING FIBRE COMPANY

OBJECT:

Analysis of two wastewater samples received from Spaulding Fibre Company, 310 Wheeler Street, Buffalo, New York on March 26, 1981.

RESULTS:

	<u>Well A</u>	<u>Well B</u>
Phenol	0.21	0.26
Antimony	LT 0.005	LT 0.005
Chemical Oxygen Demand	7.7	11.5

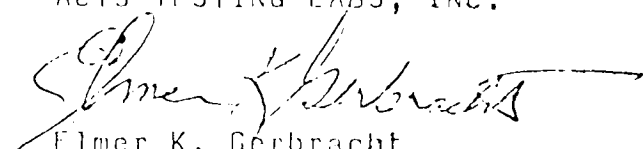
The above results are reported as milligrams per liter (mg/l).

LT = Less Than

EXPERIMENTAL:

The analyses were performed according to the most recently published guidelines of Title 40, Code of Federal Regulations, Section 136.3, "Identification of Test Procedures", December 1, 1976.

ACIS TESTING LABS, INC.


Elmer K. Gerbracht
Laboratory Director

ACIS TESTING LABS, INC.

3900 Broadway • Buffalo, N. Y. 14227 • (716) 684-3300

TECHNICAL REPORT

November 7, 1980

Mr. Leonard Oscekey
SPAULDING FIBRE COMPANY

OBJECT:

Analysis of two wastewater samples received from Spaulding Fibre Company, 310 Wheeler Street, Buffalo, New York on October 23, 1980.

RESULTS:

	<u>Well A</u>	<u>Well B</u>
Phenol	LT 0.03	LT 0.03
Antimony	LT 0.002	LT 0.002
Chemical Oxygen Demand	18.8	55.6

The above results are reported as milligrams per liter (mg/l).

LT = Less Than

EXPERIMENTAL:

The analyses were performed according to the most recently published guidelines of Title 40; Code of Federal Regulations, Section 136.3 "Identification of Test Procedures", December 1, 1976.

ACIS TESTING LABS, INC.

Angelo M. Fatta
Angelo M. Fatta, Ph.D.
Technical Director

ACTIS TESTING LABS, INC.

3900 Broadway • Buffalo, N. Y. 14227 • (716) 684-3300

TECHNICAL REPORT

May 28, 1980.

Mr. Leonard Oseekey
Spaulding Fibre Company

OBJECT:

Analysis of two well water samples received from Spaulding Fibre Co.,
310 Wheeler Street, Tonawanda, New York on May 15, 1980.

RESULTS:

	<i>UP</i> <u>Well #1</u>	<i>Down</i> <u>Well #2</u>
COD, mg/l	7.9	19.9
Phenol, mg/l	0.23	0.19
Antimony, mg/l	<0.001	<0.001
<= less than		

EXPERIMENTAL:

The analyses were performed according to the most recently published
guidelines of Title 40, Code of Federal Regulations, Section 136.3
"Identification of Test Procedures", December 1, 1976.

A.M. Fatta, Ph.D.
Technical Director

AMF/sih

ACIS TESTING LABS, INC.

3900 Broadway • Buffalo, N. Y. 14227 • (716) 684-3300

TECHNICAL REPORT 9-699

January 3, 1980

Mr. Leonard Oseckey
Spaulding Fibre Company

OBJECT:

Analysis of two well samples received from Spaulding Fibre Company,
310 Wheeler Street, Tonawanda, New York on 12/20/79 at 8:00 AM.

RESULTS:

	<u>Well #A</u>	<u>Well #B</u>
COD, mg/l	19.8	32.2
Phenol, mg/l	0.07	0.08
Antimony, mg/l	<0.005	<0.005

< = less than

EXPERIMENTAL:

The analyses were performed according to the most recently published guidelines of Title 40, Code of Federal Regulations, Section 136.3 "Identification of Test Procedures", December 1, 1976.

Richard C. Gessner

Richard C. Gessner
Laboratory Manager

RCG/sih

ACIS TESTING LABS, INC.

455 Cayuga Road • Buffalo, N.Y. 14225 • 716-634-8221

TECHNICAL REPORT 9-542

October 3, 1979

Mr. L. Oscekey
Spaulding Fibre Company

OBJECT:

Analysis of two well samples received from Spaulding Fibre Company, 310 Wheeler Street, Tonawanda, New York on 9/20/79 at 8:00 A.M.

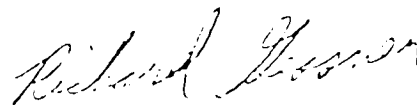
RESULTS:

	<u>Well #1</u>	<u>Well #2</u>
COD, mg/l	24.4	50.1
Phenol, mg/l	0.15	0.08
Antimony, mg/l	<0.005	<0.005

< = less than

EXPERIMENTAL:

The analyses were performed according to the most recently published guidelines of Title 40, Code of Federal Regulations, Section 136.3 "Identification of Test Procedures", December 1, 1976.



Richard C. Gessner,
Laboratory Manager

RCG/dk

ACIS TESTING LABS, INC.

455 Cayuga Road • Buffalo, N.Y. 14225 • 716 634 8221

TECHNICAL REPORT 9-458

August 29, 1979

Mr. L. Oscekey
Spaulding Fibre Company

OBJECT:

Analysis of two well samples received from Spaulding Fibre Company,
310 Wheeler Street, Tonawanda, New York on 8/18/79 at 9:00AM.

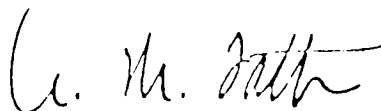
RESULTS:

	<u>Well #1</u>	<u>Well #2</u>
COD, mg/l	26.5	49.1
Phenol, mg/l	0.04	0.03
Antimony, mg/l	<0.10	<0.10

< = less than

EXPERIMENTAL:

The analyses were performed according to the most recently published guidelines of Title 40, Code of Federal Regulations, Section 136.3 "Identification of Test Procedures", December 1, 1976.



A. M. Fatta, Ph.D.
Laboratory Director

ACIS TESTING LABS, INC.

455 Cayuga Road • Buffalo, N.Y. 14225 • 716-634-8221

TECHNICAL REPORT 9-302

May 30, 1979

Mr. L. Oseekey
Spaulding Fibre Company

OBJECT:

Analysis of two well samples received from Spaulding Fibre Company, 310 Wheeler Street, Tonawanda, New York on 5/17/79 at 7:45AM.

RESULTS:

	<u>Well #1</u>	<u>Well #2</u>
COD, mg/l	93.0	38.8
Phenol, mg/l	0.18	0.24
Antimony, mg/l	<0.1	<0.1

< = less than

EXPERIMENTAL:

The analyses were performed according to the most recently published guidelines of Title 40, Code of Federal Regulations, Section 136.3 "Identification of Test Procedures", December 1, 1976.

A. M. Fatta
A. M. Fatta, Ph.D.
Laboratory Director

noted
RGS

ACIS TESTING LABS, INC.

455 Cayuga Road • Buffalo, N.Y. 14225 • 716-634-8221

TECHNICAL REPORT 9-181

May 30, 1979

Mr. L. Oscekey
Spaulding Fibre Company

OBJECT:

Analysis of two well samples received from Spaulding Fibre Company, 310 Wheeler Street, Tonawanda, New York on 3/22/79 at 8:00AM.

RESULTS:

	<u>Well #1</u>	<u>Well #2</u>
COD, mg/l	22.8	76
Phenol, mg/l	0.07	0.23
Antimony, mg/l	<0.01	<0.01

< = less than

EXPERIMENTAL:

The analyses were performed according to the most recently published guidelines of Title 40, Code of Federal Regulations, Section 136.3 "Identification of Test Procedures", (Standard Methods for the Examination of Water and Wastewater, 14th Edition 1975).

A. M. Fatta

A. M. Fatta, Ph.D.
Laboratory Director

*On-Test
RES*

ACTIS TESTING LABS, INC.

455 Cayuga Road • Buffalo, N.Y. 14225 • 716-634-8221

TECHNICAL REPORT 9-005

February 1, 1979

Mr. L. Oseckey
Spaulding Fibre Company

OBJECT:

Analysis of two well samples received from Spaulding Fibre Company, 310 Wheeler Street, Tonawanda, New York on 1/25/79 at 8:00AM.

RESULTS:

	<u>#1</u>	<u>#2</u>
COD, mg/l	78	59
Phenol, mg/l	0.22✓	0.09
Antimony, mg/l	LT 0.01	LT 0.01

LT = less than

EXPERIMENTAL:

The analyses were performed according to the most recently published guidelines of Title 40, Code of Federal Regulations, Section 136.3 "Identification of Test Procedures" (Standard Methods for the Examination of Water and Wastewater, 14th Edition, 1975).

Analyst A. M. Fatta

A. M. Fatta, Ph.D.

ACTIS TESTING LABS, INC.

455 Cayuga Road • Buffalo, N.Y. 14225 • 716-634-8221

TECHNICAL REPORT 785-528

November 29, 1978

Mr. L. Oseekey
Spaulding Fibre Company

OBJECT:

Analysis of two well samples received from Spaulding Fibre Company, 310 Wheeler Street, Tonawanda, New York on 11/23/78.

RESULTS:

	<u>#1</u>	<u>#2</u>
COD, mg/l	175	89
Phenol, mg/l	LT 0.25/	0.10
Antimony, mg/l	LT 0.01	LT 0.01

LT = less than

EXPERIMENTAL:

The analyses were performed according to the most recently published guidelines of Title 40, Code of Federal Regulations, Section 136.3 "Identification of Test Procedures" (Standard Methods for the Examination of Water and Wastewater), 14th Edition, 1975.

Analyst

A. M. Fatter

A. M. Fatter, Ph.D.

5.3.4 Other Analytical Data - There has been no other reported testing other than that previously mentioned.

6.0 ADEQUACY OF AVAILABLE DATA

In compiling the Hazardous Ranking Score, Spaulding Fibre Company, Inc. was found to have a score for Sm equal to 21.0. However, because some route rating factors involve a certain degree of subjectivity, due to data inadequacies, a range for the Sm score was developed and found to be 16 to 25. These data inadequacies are as follow:

- o There has been no testing for contaminants other than phenol, antimony, and COD.

- o There has been no testing of water in the bedrock aquifer.

7.0 PROPOSED PHASE II WORK PLAN

7.1 Objectives

As per the inadequacies of the data base that were itemized in the preceding section, a work plan has been developed which, to the extent practical, will provide the information required to address the following list.

- o Potential environmental effects of the landfill.
- o The extent and magnitude of contamination, based on site specific hydrogeologic conditions.
- o The data inputs necessary to effectuate the development and recommendations of cost effective remedial actions.

Detailed descriptions of the elements of this work plan are herein provided.

7.2 Scope of Work

The primary purpose of this work element is to fill the data gaps identified in the preliminary assessment, so as to permit a complete site characterization/ranking (HRS) and engineering evaluation of remedial alternatives. The preliminary field investigation

includes the following items:

- o Geophysical Exploration
- o Subsurface Investigation
- o Monitoring Well Installation
- o Sampling and Analysis

Throughout the investigative effort, field activities will be performed in strict accordance with established safety protocol, presented in Recra Research, Inc.'s Operation Manual -- Field and Analytical Services (previously submitted to NYSDEC by Recra as part of a prequalifying submission).

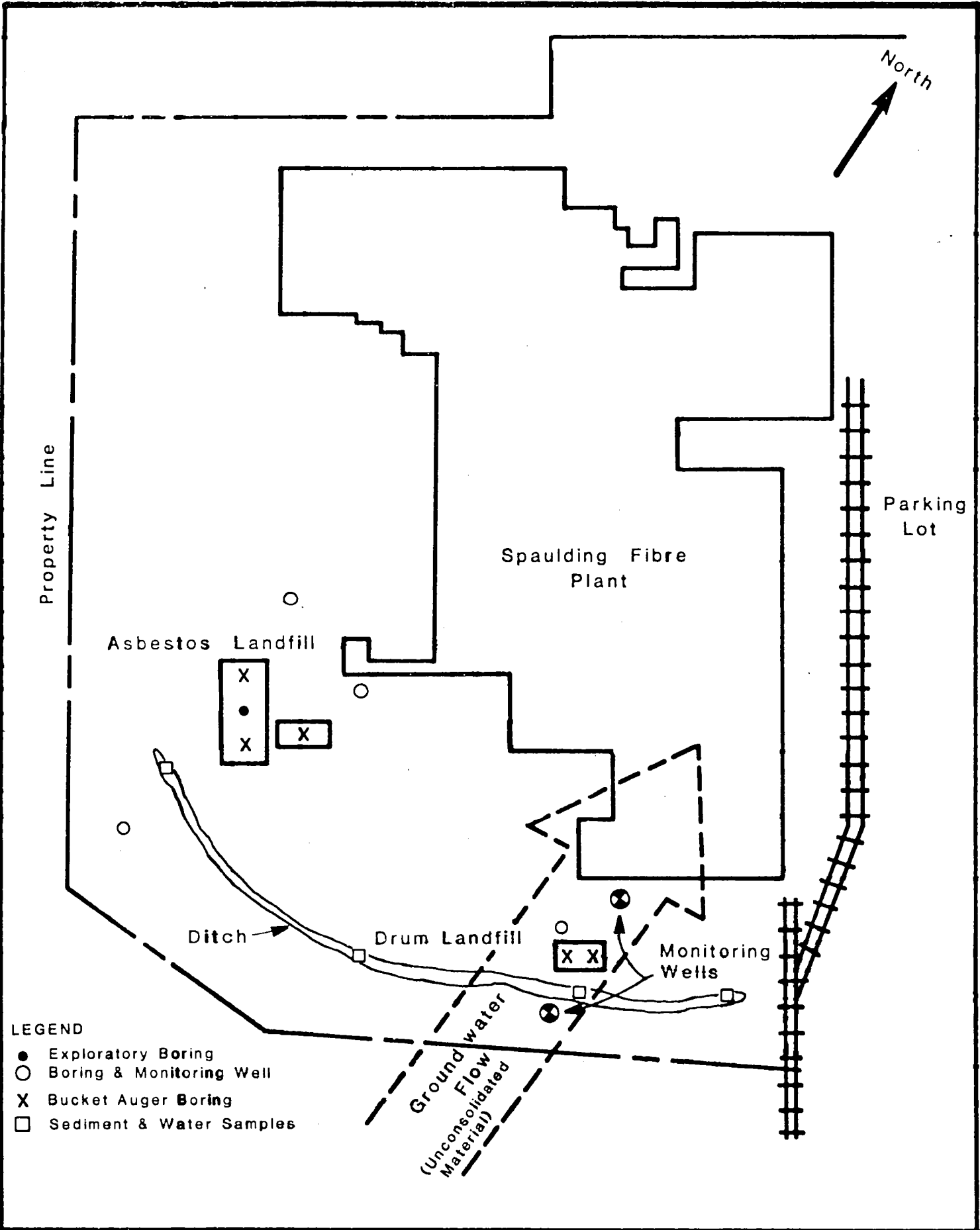
7.2.1 Geophysical Exploration - After initial assessment of the ambient air quality at the site, a geophysical program will be performed to determine the limits of the disposal area and any concentrated areas of buried metals (e.g., drums). At this time a magnetometer survey is proposed and considered sufficient to determine the extent of the drum landfill.

The magnetometer survey will be performed on a grid over the entire disposal area. The survey will be performed using a Scintrey MP-2 proton magnetometer, with measurements taken to an accuracy of approximately 2 gammas. A base station will be established, and reference readings to determine magnetic drift will be performed at

least every 45 minutes. The grid will be established using a tape and level. The readings at each station will be digitalized and a computer-generated contour map will be prepared for evaluation.

7.2.2 Subsurface Investigation - To address both the asbestos landfill and the drum landfill, five (5) borings will be completed as shown in the following figure. One (1) of the five (5) will be through the asbestos landfill to characterize the depth of the fill and subsurface geology. The remaining four (4) borings will be established as monitoring wells. All borings are estimated to be a maximum of 50 feet in depth. Additionally three (3) hand auger borings will be taken from the cap at each of the two (2) landfills.

All test borings at both landfills will be drilled with a truck, trailer, and/or all-terrain-mounted auger rig using hollow stem augers. During construction of the test borings, split spoon samples will be continuously obtained in one (1) test boring adjacent to the disposal site. In the other test borings, split spoon samples will be obtained at five (5) foot inter-



Not To Scale

Sampling & Well Locations Map
SPAULDING FIBRE

Figure 3

vals and/or when noticeable changes in lithology or drilling characteristics occur. If the unconsolidated material is found to be extremely heterogeneous, all test borings will be continuously sampled. Also, if a confining layer is encountered, Shelby tube samples will be obtained to determine its undisturbed permeability.

The acquired samples will be visually identified in the field following the procedure set forth in ASTM-D-2488, noted appropriately on boring logs with the sample number and recorded standard penetration test results (ASTM-D-1586), and placed in pre-cleansed, teflon-lined, screw-cap glass jars for return to Recra Research, Inc.'s, Tonawanda, New York laboratory.

In order to avoid possible cross-contamination during construction of the test borings, the apparent upgradient borings will be completed first; then the downgradient holes will be drilled. Between each test boring, the augers will be cleaned with water obtained from a known non-contaminated source. Also, between each split spoon sample, the split spoon will be cleaned with water, acetone and distilled water. All spent water/acetone liquid accumulated during this process will be disposed of in an on-site drum. Upon completion of each test boring to bedrock, the test boring will be backfilled with cement bentonite grout to approximately five (5) to six (6) feet below the first encountered water level, in order to avoid the possible vertical migration of contaminated groundwater from the first encountered water-bearing zone down to bedrock. Prior to leaving the site, the drill rig will be decontaminated using high pressure water.

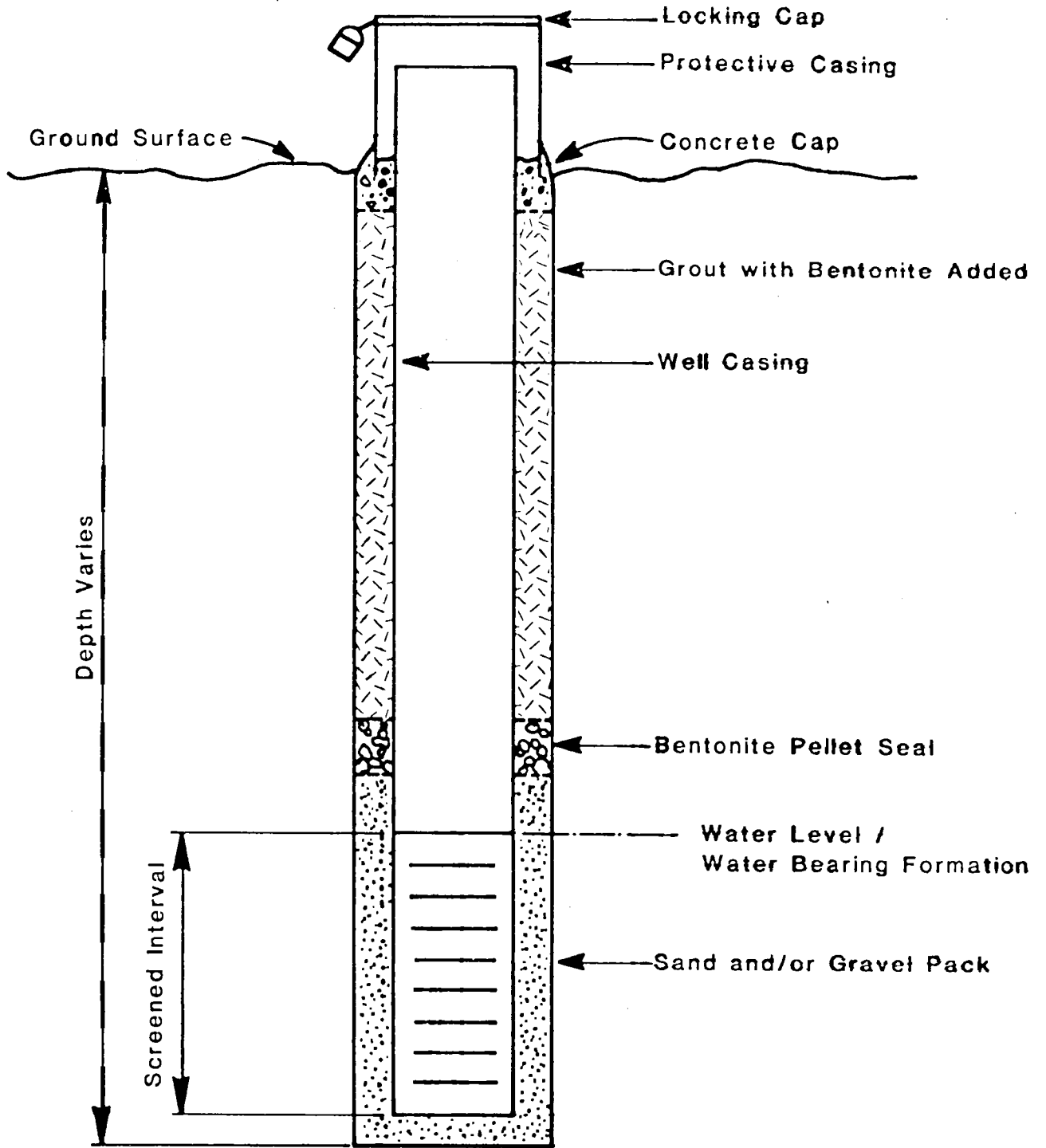
7.2.3 Monitoring Well Installation - The monitoring wells will be constructed of two-inch I.D. cast iron riser pipe with a five-foot long galvanized, wire-wound-wrapped steel screen. Although the use of PVC casing and screens would be less expensive, the possible presence of solvents suggests the use of galvanized steel screens and risers. The screen will be placed just below the encountered water table. The annulus between the casing/screen and boring well will be properly sand-packed and sealed (cement/bentonite and cement) to the ground surface and the well provided with a locking cap. A typical monitoring well in unconsolidated material is illustrated in Figure 4.

Upon completion of well construction, all monitoring wells will be properly developed, and all test borings and/or top of well casings will be surveyed to determine their location and elevation above sea level. At that time, variable head tests will be performed on the wells around the site to estimate the in-situ permeability of the screened interval.

All field activity will be under the direct super-

FIGURE 4

MONITORING WELL DETAIL
In Unconsolidated Formation



vision of a qualified geologist and/or hydrogeologist.

7.2.4 Sampling and Analysis - The following procedures will encompass sampling and analyses of the newly installed wells and surface waters; sediments analyses of the samples obtained from the test boring program. If desired, all samples will be split with the owner of the site. Also upon completion of the analytical program, the owner will be notified of the results if he so requests. All samples will be analyzed for the parameters listed in Table 1.

7.2.4.1 Groundwater - Following equilibrium of water levels within the installed wells, water elevations will be measured to determine the water table surface.

Representative groundwater samples will then be collected after the wells have been fully evacuated or a volume of three times the well contents have been removed.

Evacuation of water from the wells and the

TABLE 1

Parameter List
Spaulding Fibre
Groundwater, Surface Water and Soils/Sediments

pH
Specific Conductance
Chloride
Total Organic Carbon
Sulfate
+ Phenol (total)
+ Oil and Grease
Total Metals
+ Cadmium
+ Chromium (total)
+ Copper
+ Iron
+ Lead
+ Nickel
+ Zinc
+ Halogenated Organic Scan
+ PCB's
+ Nitrogen/Phosphorus Scan
+ Volatile Organic Scan
+ Dry Weight
+ Grain Size/Atterberg limits (8 samples)

+ Indicates analyses also performed on soils

acquisition of the samples will be accomplished with an Isco Model 1580 peristaltic pump, using separate low-density polyethylene tubing for each well and changing the silicon rubber tubing within the ISCO between wells. An exception to this procedure will be employed when obtaining the required volume of sample for volatile organic analysis. This will be accomplished using small volume galvanized steel bailers that have been separately designated for each well.

Upon collection of the sample, field pH, temperature and conductivity measurements will be recorded. The samples will be placed in appropriate pre-cleaned bottles (septa vials), labelled, chilled and immediately returned to Recra's Tonawanda, New York laboratory for preservation and analyses of previously listed chemical parameters. If the samples cannot be returned to Recra's laboratory in a timely fashion due to the distance between the site and Recra's laboratory, field preservation will be performed prior to chilling.

7.2.4.2 Surface Water - The sampling of surface water will entail collecting water and sediments from the

ditch located south of the landfills. Four (4) surface water and four (4) sediment samples will be taken. General locations of sampling are illustrated in Figure 4. The water samples will be obtained using a pond sampler with separate sampling bottles designated for each sampling location. Sediment samples will be taken using a two (2) foot gravity type sampler. All sediment samples will be placed in precleaned, teflon-lined, screw capped glass jars, labelled, chilled and returned to Recra for analysis. The same procedures as determined for ground water will be followed after acquisition of the surface water samples. All samples will be analyzed for the previously listed parameters.

7.2.4.3 Soil - Selected subsurface soil samples will undergo both physical and chemical analyses. The remaining samples will be archived by Recra Research, Inc. for a period of 6 months after completion of the contract.

The physical analysis will aid in the characterization of the underlying unconsolidated material. The physical parameters of concern during this investigation are grain size distribu-

tion (ASTM-D-422), Atterberg Limits (ASTM-D-423 & 424) and classification (ASTM-D-248). The number of samples to undergo analysis for the above parameters is dependent on the homogeneity of the subsurface conditions underlying the bottom of the uncontrolled hazardous waste landfill. The results from these tests, in conjunction with Standard Penetration Test results, will aid in the design and evaluation of remedial programs.

Chemical analyses of selected samples will be used to characterize attenuation by on-site soils. A sample from the unsaturated zone and a sample from the saturated zone will generally be utilized from each test boring.

7.2.5 Chemical Analytical Methods - The procedures to be utilized for analyses of water, stream sediment and soil samples during this investigation are in basic accordance with one or more of the following reference texts:

- Methods for Chemical Analysis of Water and Wastes, United States Environmental Protection Agency,
- NIOSH Manual of Analytical Methods, 2nd Edition United States Department of Health, Education

- Standard Methods for the Examination of Water and Wastewater, 14th Edition, APHA, AWWA, WPCF.

7.2.6 Quality Assurance Program - An overall Quality Assurance Program is essential for the production of high-quality analytical data. Such a program requires precise control of laboratory activities. For the Quality Assurance Program in effect at the Laboratories of Recra Research, Inc., the reader referred to a document previously submitted by Recra Research, Inc. to NYSDEC, entitled, "Operation Manual - Field and Analytical Services."

7.2.7 Engineering Evaluation Report/HRS Score - The purpose of this evaluation report is to compile all existing and newly-developed information concerning the site, and utilize this information to:

- o Evaluate feasible remedial alternatives at the site and prepare budget-level cost estimates for these alternatives
- o Based upon this evaluation, recommend the most cost-effective and environmentally sound course of remedial action

- o Prepare a Hazard Ranking System (HRS) score for the site.

It is presently anticipated that the output from this Evaluation Report will consist of a single bound report, subdivided into at least the following sections:

- HRS Score - Utilizing USEPA's formal method of presentation (Federal Register/Vol. 47, No. 137/Friday, July 16, 1982, the following completed work sheets will be included in this opening section: HRS Cover Sheet; Groundwater Route Work Sheet; Surface Water Route Work Sheet; Air Route Work Sheet; Fire and Explosion Work Sheet; and Direct Contact Work Sheet.
- Background
- Summary of Project Activities
- Identification and Evaluation of Remedial Alternatives
- Recommendations
- Appendix - Complete Site Data Base

7.3 Estimated Costs

The estimated cost per individual element of the preceding

scope of work are listed as follows:

o	Geophysical Exploration	\$ 3446.64
o	Subsurface Investigation	8921.42
o	Sampling and Analysis	9608.00
o	Engineering Evaluation and Report	<u>8684.22</u>

TOTAL COST \$30660.28

APPENDIX A

REFERENCES

1. NYSDEC Memorandum, Peter Buechi, 2/11/83 in reference to Acts Testing Labs Technical Reports.
2. NYSDEC Industrial Waste Survey, DEC Interviewer John E. Ianotti 11/10/76.
3. Letter from: NYSDEC Region 9 Mr. Robert Mitrey to: Spaulding Fibre Mr. Jack Kehoe, 9/11/78/
4. Spaulding Fibre Trial Notes and Workpapers available at DEC Region 9 Solid Waste Dept.
5. NYSDEC Information Dossier 79.2, April 11, 1979
6. NYSDEC Industrial Chemical Survey Part 1, January 26, 1977.
7. NYSDEC Hazardous Waste Disposal Sites Reports, Ronald Tramontano, April 15, 1980.
8. NYSDEC Facility Inspection Form, D. Tanol, 8/22/78.

9. Letter from: Spaulding Fibre Mr. Jack Kehoe to: NYSDEC Mr. Robert J. Mitrey, P.E., Sept. 12, 1978.
10. Letter From: Spaulding Fibre, Mr. Jack Kehoe To: Environmental Conservation Dept. Bureau of Water Resources, Mr. Anthony T. Voell P.E. Chief, August 31, 1978.
11. Memo, Spaulding Fibre Disposal Area Inspection, Donald Tamol, Anthony T. Voell, August 25, 1978.
12. Environmental Assessment Part III, Spaulding Fibre Co. Project No. 15534, Handwritten notes.
13. Letter From: NYSDEC Region 9 Mr. Robert J. Mitrey, to: Spaulding Fibre Mr. Jack Kehoe, August 30, 1978.
14. ECDEP Report, Spaulding Fibre - #915050 - (a, b, and c), October 1981.
15. U.S. Geological Survey, Topographic Map, Tonawanda North Quadrangle, 1965.
16. Waste Disposal Sites, Interagency Task Force on Hazardous Wastes, March 1979.

17. Letters From: Spaulding Fibre, Mr. L. F. Oseecky, to: Mr. John McMahan, P.E. In reference to Acts Testing Labs Technical Reports. October 21, 1982, January 21, 1982, April 9, 1981, November 12, 1980.
18. NYS Water Resources Commission, Erie-Niagara Basin Groundwater Resources, ENB-3. 1973
19. Earth Dimensions Inc., Soils Report and Test Borings and Logs, September 27, 1978.
20. Interagency Task Force on Hazardous Wastes, Information Sheet. Oct. 30, 1978.
21. Computer Printout Data Sheet, Spaulding Fibre Co., Inc. 1978
22. Notes taken from DEC Region 9 Spaulding Fibre File, 4/15/83.
23. Geology of Erie County New York, Edward J. Buehler and Irving H. Tesmer, Buffalo Society of Natural Sciences Bulletin, Vol 21 No. 3 Buffalo 1963.
24. Codes, Rules and Regulations of the State of New York, Vol 6C, Section 837.4, pg. 1605. 1966
25. HRS Mitre, July 16, 1982.

26. Letter from Richard P. Leonard, Environmental Science Department, Calspan Corp. 11/9/78.
27. Notes taken from application for treatment of an industrial hazardous waste stream September 28, 1983. Document available at DEC Region 9
28. Site visit and personal interview with Ken Kasprzak, Spaulding Fibre site representative, June 6, 1983.

APPENDIX B

HAZARDOUS WASTE SITE REPORT

REVISED

Code: N

Site Code: 915050-d

Name of Site: Spaulding Fibre Co., Inc.

Region: 9

County: Erie

Town/City: Tonawanda

Street Address: 310 Wheeler St., Tonawanda, N.Y. 14150

Status of Site:

- o 2 Inactive landfills. Located in an urban/industrial area. Used for disposal of liquid and solid industrial waste containing phenolic resins. Site drains through municipal storm sewers to the Niagara River. Approximately 70 feet of moderately permeable soil overlying bedrock.
- o Urban/industrial high residential area. Flat topography.
- o Nearest dwelling within 500 feet of landfills.
- o Nearest water body: Niagara River. Approximately 1 mile north
- o Nearest water supply: Municipal water supply drawn from the Niagara River.
- o Approximately 4 feet to seasonal high water table.
- o Soil type: Urban fill

Type of Site: Landfill

Estimated Size: 50 acres/1.5 acres used for landfilling.

Hazardous Waste Disposed?: Yes

Type and Quantity of Hazardous Waste: Approximately 750 drums of liquid industrial wastes, mostly resins and some solvents. 20 tons of solid industrial waste containing phenolic resins and asbestos.

Present Owner: Monogram Industries, Inc., Santa Monica California.

Time Period Site Was Used: 1977 to 1978

Site Status: Inactive

Types of Samples: Groundwater. Found to have phenol above standards.

Remedial Action: None

Status of Legal Action: None

Permits Issued: Unknown

Assessment of Environmental Problems: Site is surrounded on three sides by private residents.

Assessment of Health Problems: None known

Person Completing This form: Andre J. LaPres, Recra Research, Inc.

Date: June 6, 1983

RECEIVED

DEC 15 1983

N.S. DEPT. OF
ENVIRONMENTAL CONSERVATION
REGION 9 HEADQUARTERS