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example: report. Site Nun	nber . Year-Month . ReportName . pdf	
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Project Site numbers will	be proceeded by the following:	÷
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Superfund - HW		
Spills - SP		
ERP - E		
VCP - V		
BCP - C		•

93rd STREET SCHOOL

NEW YORK STATE SUPERFUND PHASE I SUMMARY REPORT

FINAL

November 18, 1983

Prepared By:

Recra Research, Inc. 4248 Ridge Lea Road Amherst, New York 14226

For:

New York State Department of Environmental Conservation 50 Wolf Road Albany, New York 12233-0001

# 93rd STREET SCHOOL NEW YORK STATE SUPERFUND PHASE 1 SUMMARY REPORT

#### TABLE OF CONTENTS

				Page	No.					
1.0	Exec	utive Summ	ary		1					
2.0	Site	Descripti	on		2					
3.0	Prel	iminary Ha	zard Ranking System Score							
	3.1	Documenta	tion Records for Hazard Ranking System							
	3.2	EPA Preli	minary Assessment (Form 2070-12)							
	3.3	3.3 EPA Site Inspection Report (Form 2070-13)								
4.0	Site	History			5					
5.0	Site	Data			6					
	5.1	Site Area	Surface Features		6					
		5.1.1	Topography and Drainage		6					
		5.1.2	Environmental Setting		7					
	5.2	Site Hydr	rogeology		8					
		5.2.1	Geology		8					
		5.2.2	Soils		10					
		5.2.3	Groundwater		10					
	5.3	Previous	Sampling and Analyses		12					
		5.3.1	Groundwater Quality Data		12					
		5.3.2	Surface Water Quality Data		13					

## TABLE OF CONTENTS (Cont.)

				Page No
		5.3.3	Air Quality Data	13
		5.3.4	Other Analytical Data	13
6.0	Adeq	uacy of Ava	ailable Data	15
7.0	Prop	osed Phase	II Work Plan	16
	7.1	Objectives	S	16
	7.2	Prelimina	ry Field Investigation	16
		7.2.1	Air Monitoring	17
		7.2.2	Subsurface Investigation	18
		7.2.3	Sampling and Analysis	19
		7.2.4	Groundwater	22
		7.2.5	Soil	23
		7.2.6	Surface Water	24
		7.2.7	Chemical Analytical Methods	26
		7.2.8	Quality Assurance Program	26
		7.2.9	Engineering Evaluation Report/HRS Score	27
	7.3	Estimated	Costs	28
	. 12	n n-4 c	aumage and Defendances	_
			ources and Referencesd "Hazardous Waste Disposal Site Report"	

#### List of Figures

				Page N	0.
Figure	1	-	Vicinity Map		3
Figure	2		Site Map		4
Figure	3	_	Geologic Profile		9
Figure	4	-	Sampling Location Map	2	0

#### 1.0 EXECUTIVE SUMMARY

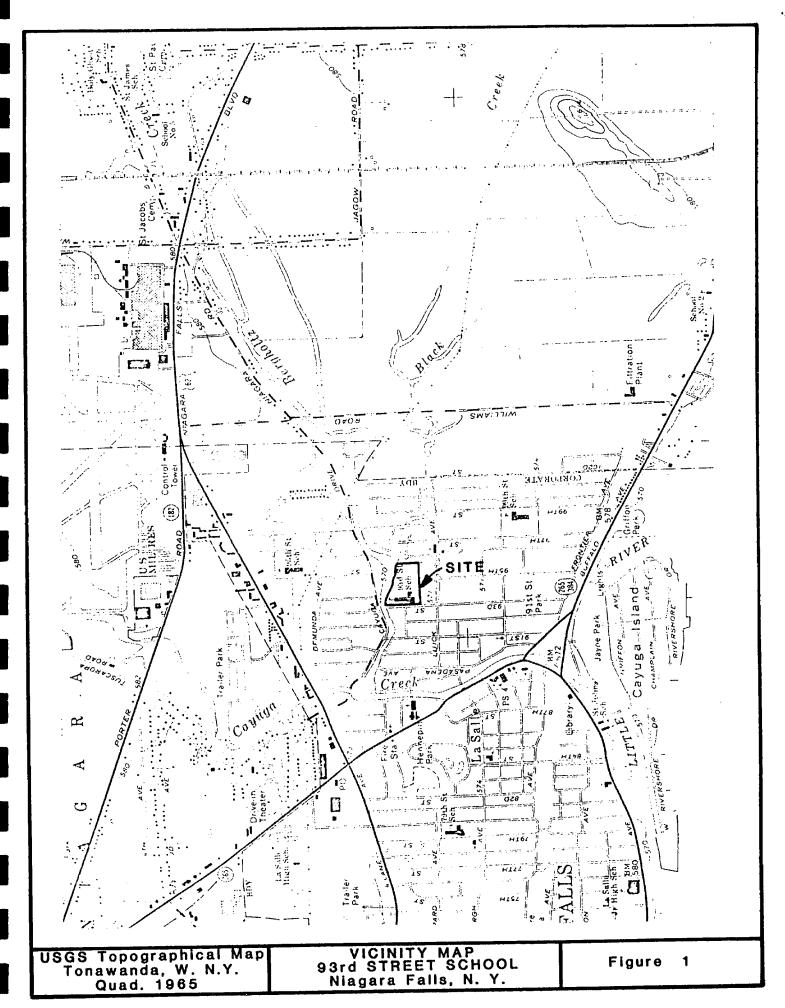
Approximately 3,000 cubic yards of fly ash and BHC cake were used for fill at the 93rd Street School, Niagara Falls, New York in 1954. Tests have shown the presence of benzene, toluene, BHC, dioxin, and lindane in on-site soils and nearby storm sewers, surface waters, and sediments. However, past testing has failed to establish the horizontal extent and thickness of the contaminated fill layer on-site. In addition, the past investigations have not differentiated the effects of off-site contamination caused by the school fill from that attributable to other Love Canal sources. No measures have been taken to cap or seal the site or to provide containment or removal of contaminated soils and waters.

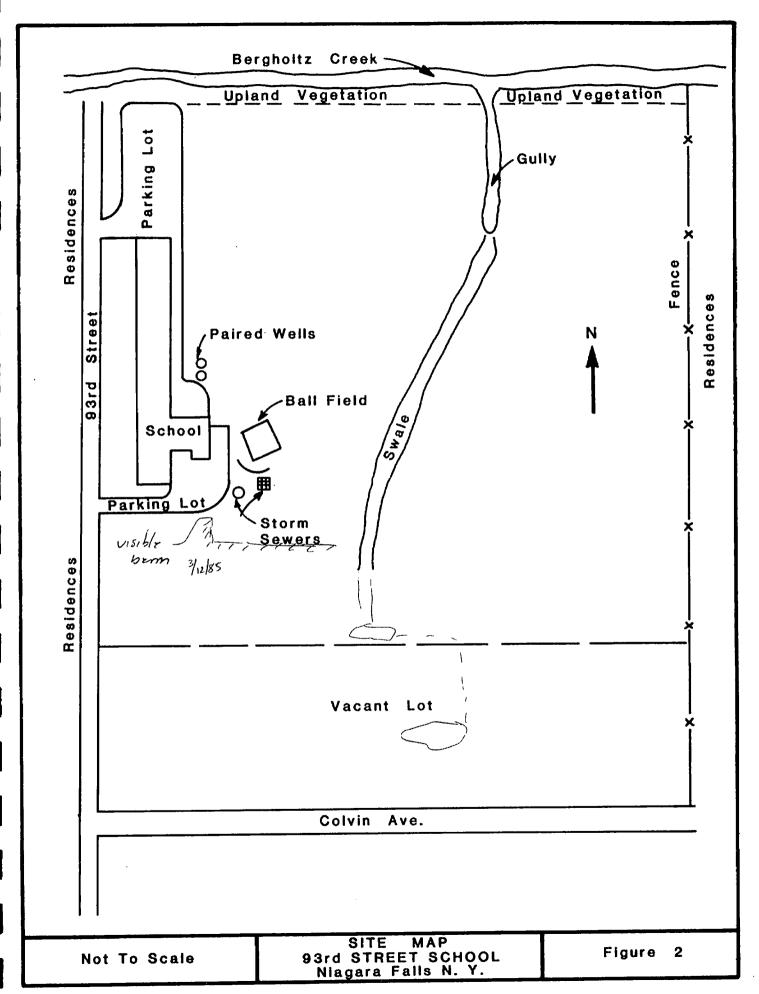
The Phase II work is expected to determine the vertical and horizontal extent of on-site contamination and to better define off-site impacts. Involved in the project will be upstream and downstream water and sediment sampling of Bergholtz Creek as well as storm sewer sampling. A gully which directs surface run-off to Bergholtz Creek will also be included in the surface water/sediment sampling. The subsurface investigation will involve analysis of groundwater from existing wells and of soils of all on-site overburden strata.

#### 2.0 SITE DESCRIPTION

The 93rd Street School is located within the City of Niagara Falls, Niagara County, New York. The elementary school was closed in 1980 by the City Board of Education. It is hoped that the school will eventually be reopened as part of the "revitalization" of the Love Canal (Ref. 1). In 1954, the Niagara Falls Board of Education contracted to have approximately 3,000 cubic yards of fly ash and BHC cake hauled from the Love Canal to the 93rd Street School for use as fill (Ref. 2). A site location map follows. The school is surrounded by residential areas.

The fill layer appears to be covered by about three feet of topsoil (Ref. 3). The horizontal extent of the fill, as well as the thickness of the layer, is uncertain. No measures have been taken to control infiltration and run-off or provide containment. Bergholtz Creek flows along the northern edge of the property. Bergholtz Creek enters Cayuga Creek, a tributary of the Niagara River, about 0.3 miles west of the site (Ref. 4). The site topography directs surface run-off to Bergholtz Creek. Storm sewers are present in the vicinity of the playground. A field map depicting the general appearance of the site follows. A greater discussion of on-site characteristics is presented in Sections 4 and 5.





# 3.0 PRELIMINARY HAZARD RANKING SYSTEM SCORE

Facesy name 93rd Street School
Location Niagara Falls, Niagara County, New York
EPA Region: 2
Person(s) in charge of the factory Superintendent of Schools.
Board of Education Niagara Falls.
New York
Name of Reviewer: Recra Research, Thc.  Date: June 3, 1983  General description of the facility:  (For example: fandfill, 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.)
Closed public school. 3,000 cubic yards of fly ash and BHC cake
placed as fill on site in 1954. Analysis of soils and ground waters
indicate presence of dioxin, lindane, benzene, and toluene. May be
contaminating adjacent storm sewers, Bergholtz Creek, and ground water.
Scores: $S_M = 32.8 (S_{gw} = 6.12 S_{sw} = 56.36 S_a = 0)$
$S_{FE} = N/A$ Range 32.5 - 53.6 $S_{DC} = 75.0$

HRS COVER SHEET

	Ground Water Route Work Sheet										
Rating Factor	Assigned Value (Circle One)	Multi- plier	Score	Max. Score	Rol. (Section)						
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.											
Poute Characteristics Depth to Aquifer of		2		6	3.2						
Concern Net Precipitation Permeability of the Unsaturated Zone	0 1 2 3 0 1 2 3	1		3 3							
Physical State	0 1 2 3	1		3							
	Total Route Characteristics Score	-	0	15							
3 Containment	0 1 2 3	1	0	3	, 3.3						
Waste Characteristics Toxicity/Persistenc Hazardous Waste Guantity		1	િ <b>છ</b>	18 8	3.4						
	Total Waste Characteristics Score		26	26							
5 Targets Ground Water Use Distance to Neares Well/Population Served		3	3 O	9 40	3.5						
	Total Targets Score		3	49	<u> </u>						
6 If fine 1 is 45, mi			3510	57,330							
Divide line 6 by	57,330 and multiply by 100	Sgw -	Lp.12	2							

FIGURE 2
GROUND WATER ROUTE WORK SHEET

Surface Water Floute Work Sheet										
	Rating Factor		Assigned Value (Circle One)						Max. Score	Ref. (Section)
1	Observed Release		0			45)	1	45	45	4.1
	If observed releas									
2	Route Characteris		0	1 2	? ;	3	1		3	4.2
	Terrain 1-yr. 24-hr. Rainf Distance to Near	lati	0 0		-	3 3	1 2		3 6	
	Water Physical State		O	1 2	2 :	3	1		3	
	!	Total	l Rout	e Ch	ara	acteristics Score		0	15	
3	Containment		0	1 2	? :	3	1	0	3	4.3
4	Waste Characteris Toxicity/Persiste Hazardous Wast Ouantity	ence	0	3 6	s :	9 12 15 (B) 3 4 5 6 7 (B)	1	18 8	18 8	4.4
		Tota	i Wasi	e Cì	 :a:	acteristics Score		26	25	
5	Targets Surface Water U Distance to a So		0	1	;	2 (3)	3 2	9 2	9 6	4.5
	Population Serve to Water Intake Downstream		0 12 24	4 16 30		6 8 10 8 <b>20</b> 2 35 40	1	20	40	
			To:	al Ta	arg	ets Score		31	55	
[6]	If line 1 is 45,	multiply 1 x	× 4		[5] 4]	x [5]		36,270	£4,350	
[7]	Divide line   6 t	by 64,350 and	muttip	ly b	y 10	00	S <sub>5W</sub> =	56.	36	

FIGURE 7
SURFACE WATER ROUTE WORK SHEET

			Air Fioi	ute Work Sheet					
	Rating Factor		Assigne (Circle	ed Value e One)		Mulli- plier	Score	Max. Score	Ref. (Section)
1	Observed Release		0	45		1	0	45	5.1
	Date and Location:	:							
	Sampling Protocol:								<u> </u>
	If line 1 is 0, th	ne S <sub>a</sub> — 0. Inen proces	Enter on line and to line	<b>S</b> .					
[2]	Waste Characterist	ics				· •		3	5.2
	Reactivity and Incompatibility		0 1 2	3		1			
	Toxicity		0 1 2			3		9 8	
	Hazardous Waste Ouantity		0 1 2	3 4 5 6	7 -8	1		6	
,	adamit,								
	•								
		To	otal Waste Cha	eracteristics Sco	ore			20	
[3]	Targets								5.3
لـــــا	Pepulation Within		0 9 12			1		30	
	4-Mile Radius		3 21 24 27			2		6	
	Distance to Sensi Environment	tive	0 1 2	3		•			
	Land Use		0 1 2	3	•	1		3	
	1		Total Ta	gets Score				39	· 
4	Multiply 1 × 3	2 x 3						35,100	
[ <u>5</u> ]	Divide line 4 b	. — sy 35,100 аг	id multiply by	100		S <sub>a</sub> -	0		

FIGURE 9 AIR ROUTE WORK SHEET

•	S	s²
Groundwater Route Score (Sgw)	6.12	37.45
Surface Water Route Score (S <sub>sw</sub> )	56.36	3176.45
Air Route Score (Sa)	0	0
$s_{gw}^2 + s_{sw}^2 + s_a^2$		3213.9
$\sqrt{s_{gw}^2 + s_{sw}^2 + s_{a}^2}$		56.69
$\sqrt{s_{gw}^2 + s_{sw}^2 + s_a^2} / 1.73 - s_M -$		32,77

FIGURE 10
WORKSHEET FOR COMPUTING SM

		·	Fire	and	Ex	pio	5101	n W	'ork	Sn	cel				
	Rating Factor		A		gno						Mulli- plier	Score	Max. Score	Ref. (Section)	
1	Containment		1					3				1		3	7.1
2	Waste Characteristics	<u> </u>												_	7.2
	Direct Evidence		Ò		_	3						1		3	
	Ignitability		0	7		3						1		3 3	
	Reactivity				2							•		3	
	incompatibility Hazardous Waste Ouantity		-	1	2		4	5	6	7	8	1		8	
		Total	Was	te (	Cha	rac	teri	slic	s Sc	core				20	
3 -	Targets														7.3
	Distance to Nearest		0	1	2	3	4	5				1		5	
	Population			4	2	2						1		3	
	Distance to Nearest		0		2	Ą						•		-	
	Building Distance to Sensitive		О	1	2	3						1		3	
	Environment													_	
	Land Use				2			_				1		3 5	
	Population Within		0	1	2	3	4	5				1		5	
	2-Mile Radius Buildings Within 2-Mile Radius		0	1	2	3	4	5				1		5	
		•						ſ!			*				
								"							
	<b>ر</b> ـــ														
<b></b>			To	tal	Tai	get 	s S	cor	e —					24	<u> </u>
4	Multiply 1 x 2	x [3]												1,440	
5	Divide line 4 by 1	,440 and m	ultipl	ly b	y 1	00	-					SFE -	NA		

FIGURE 11 FIRE AND EXPLOSION WORK SHEET

		Direct Contact Work S	ineet			
	Rating Factor	Assigned Value (Circle One)	Multi-	Score	Max. Score	Ref. (Section)
1	Observed Incident	(i) 45	1	0	45	8.1
	If line 1 is 45, proceed to					,
2	Accessibility	0 1 2 3	1	3	3	B.2
[]	Containment	0 15	1	15	15	8.3
4	Waste Characteristics Toxicity	0 1 2 3	. 5	15	15	8.4
5	Targets Population Within a 1-Mile Radius Distance to a Critical Habitat	0 1 2 3 4 5	4	20 H	20	8.5
		Total Targets Score		24	32	
圓	If line 1 is 45, multiply 1 is 0, multiply 2			16,200	21,600	
7		and multiply by 100	s <sub>DC</sub> .	75.0	)	

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 N	AME: _	93	Brd Stree	et Schoo	01				
LOCATION:	City	of	Niagara	Falls,	Niagara	County,	New Yor	κ	

1 OBSERVED RELEASE

Contaminants detected (5 maximum):

# BENZENE AND TOLUENE (REF. 7)

Rationale for attributing the contaminants to the facility:

DETECTED IN SAMPLES FROM ON-SITE WELLS, BENZENE AND TOLUENE ALSO DETECTED IN ON-SITE SOILS. LREF. 7)

2 ROUTE CHARACTERISTICS

Depth to Aquifer of Concern

Name/description of aquifers(s) of concern:

AQUIFER IN FRACTURE ZONE AT TOP OF LOCKPORT DOLOMITE (TOP OF BEDROCK). AQUIFER IN UNCONSONDATED DEPOSITS
NOT OF REGIONAL IMPORTANCE (REF 6.)

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

30 FEET (REF. 13)

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

UNKNOWN FILL LAYER OVERLAIN BY APPROXIMATELY 3 FEET OF TOPSOIL (REF. 3)

#### Net Precipitation

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

34 INCHES (REF. 14)

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

27 INICHES (REF 14)

Net precipitation (subtract the above figures):

7 INCHES

#### Permeability of Unsaturated Zone

Soil type in unsaturated zone:

GLACIAL TILL; GLACIO-LACUSTRINE SILTS, CLAYS AND FINE SANDS (REF. 5,647)

Permeability associated with soil type:

10-7 cm/sec (Ref. 5, 6, 97)

#### Physical State

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

SOLID (REF. 2)

#### 3 CONTAINMENT

#### Containment

Method(s) of waste or leachate containment evaluated:

NO CONTAINMENT

Method with highest score:

LANDFILL NO LINER

#### 4 WASTE CHARACTERISTICS

#### Toxicity and Persistence

Compound(s) evaluated:

BHC, BENZENE, TOLUENE, DIOVIN, LINDANE (REF. 2,3,7)

Compound with highest score:

LINDANE - COMBINED TOXICITY & PERSISTENCE SCORE EQUALS 18.

#### Hazardous Waste Quantity

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

3,000 CUBIC YARDS OF FLY ASH AND BHC CAKES. (REF. 2)

Basis of estimating and/or computing waste quantity:

BASED ON DEC SURVEY CONDUCTED

ON DISPOSAL SITES IN NEW YORK - INFORMATION

PROVIDED BY DEC. \*

#### 5 TARGETS

#### Ground Water Use

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

6 INDUSTRIAL WELLS LOCATED BETWEEN 21/2 AND 3 MILES OF SITE (REF. 6)

DRINKING WATER WELLS LOCATED ON WITMER ROAD, TOWN OF NIAGARA, JUST OUTSIDE OF 3-MILE RADIUS
Distance to Nearest Well

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

21/2 MILES SOUTHWEST OF SITE ALDNY BUFFALO AVENUE BETWEEN I-190 AND HYPE PARK BLVD. (REF 6)

Distance to above well or building:

2/2 MILES (REF. 6)

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:

6 INDUSTRIAL WELLS (REF 6)

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):

N/A

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

WELLS USED FOR INDUSTRIAL PURPOSES ONLY (PEF. 6)

#### OBSERVED RELEASE

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

LINDANE, BENZENE, BHC (LEF 3,7)

Rationale for attributing the contaminants to the facility:

DETECTED IN STORM SEWERS AND BERGHOLTZ CREEK ADJACENT TO SITE, SAME CONTAMINANTS FOUND ON-SITE, HOWEVER, DATA INSUFFICIENT TO DIFFERENTIATE BETWEEN EFFECTS OF 93ED STREET SCHOOL AND \* OTHER LOVE CANAL SOURCES

#### 2 ROUTE CHARACTERISTICS

Facility Slope and Intervening Terrain

Average slope of facility in percent:

23% FACILITY GENERALLY FLAT BUT LANDSCAPED TO FORM SWALE IN CENTRAL PORTION OF SITE (REF 4,12)

Name/description of nearest downslope surface water:

NORTHERN EDGE OF SITE. CLASS "D" WATER RESOURCE.

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

~ 15% SLOPE (REF. 4.12)

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

No

Is the facility completely surrounded by areas of higher elevation?

ENTIRE AREA GENERALLY FLAT (REF 4,12)

1-Year 24-Hour Rainfall in Inches

2,1 INCHES (REF 14)

Distance to Nearest Downslope Surface Water

BERGHOLTZ CREEK, ADJACENT TO SITE (REF. 4)

Physical State of Waste

SOLID (REF. 2)

3 CONTAINMENT

Containment

Method(s) of waste or leachate containment evaluated:

NONE

Method with highest score:

LANDFILL NOT COVERED AND NO DIVERSION SYSTEM PRESENT 4 WASTE CHARACTERISTICS

#### Toxicity and Persistence

Compound(s) evaluated

SAME AS GROUNDWATER

Compound with highest score:

SAME AS GROUNDWATER

#### 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):

SAME AS GROUNDWATER

Basis of estimating and/or computing waste quantity:

SAME AS GROUNDWATER

\* \* \*

5 TARGETS

#### Surface Water Use

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

BERGHOLTZ CREEK, CLASS "D" SUITABLE FOR SECONDARY CONTACT RECREATION, CAYUGA CREEK, CLASS "C", SUITABLE FOR ALL USES EXCEPT DRINKING, CULINARY, AND FOOD PROCESSING PURPOSES.

CITY OF NIAHARA FALLS WATER INTAKES APPROXIMATELY
2.6 MILES DOWNSTREAM OF SITE (REF 4, 899)

Is there tidal influence?

No

#### Distance to a Sensitive Environment

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

N/A

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

CLASS II FRESHWATER WETLANDS 1/2 MILE TO NORTHWEST OF SITE (REF. 11)

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

NONE

#### 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:

CITY OF NIAGARA FALLS INTAKES APPROXIMATELY
3 MILES DOWNSTREAM OF SITE (REF 4) POPULATION
SERVED, APPROXIMATELY 71,000 PEOPLE, (REF 15)

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

N/A

Total population served:

in 71,000 PEOPLE

Name/description of nearest of above water bodies:

NIAGARA RIVER APPROXIMATELY, 7 MILES SOUTH OF SITE, BERGHOLTZ & CAYUGA CREEKS ARE TRIBUTARIES OF NIAGARA RIVER

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

APPROXIMATELY 3.4 MILES (REF 4)

1 OBSERVED RELEASE

Contaminants detected:

NO ONSITE DATA. AIR TESTING OF RESIDENCES EAST OF SITE CONTAMINATION PROBABLY DERIVED FROM OTHER LOVE CANAL SOURCES. (LEF 7)

Date and location of detection of contaminants

NA

Methods used to detect the contaminants:

NA

Rationale for attributing the contaminants to the site:

2 WASTE CHARACTERISTICS

Reactivity and Incompatibility

Most reactive compound:

Most incompatible pair of compounds:

#### Toxicity

Most toxic compound:

NIA

#### Hazardous Waste Quantity

Total quantity of hazardous waste:

X/A

Basis of estimating and/or computing waste quantity:

3 TARGETS

#### Population Within 4-Mile Radius

Circle radius used, give population, and indicate how det

O to 1 mi 0 to 4 mi

0 to 1/2 mi

0 tc

.ted:

mi

#### Distance to a Sensitive Environment

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

NA

Distance to 5-acre (minimum) fresh-water wetland, if 1 mi

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

N/A

#### Land Use

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

N/A

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

N/A

Distance to residential area, if 2 miles or less:

N/A

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

N/A

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

N/A

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

N/A

PRE	LIMINARY	ASSES:	VASTE SITE SMENT D ASSESSME		I 1	CATION SITE NUMBER 932078
II. SITE NAME AND LOCATION			<del></del>			
OT SITE NAME (Legal, common, or descriptive name of tite)		02 STREET	, ROUTE NO., OR S	SPECIFIC LOCATIO	NIDENTIFIER	
93 RD STREET SCHOOL			· · · · · · · · · · · · · · · · · · ·			Toron and Income
NIAGARA FALLS		M STATE	05 ZIP CODE 0	NIAG	ARA	OZCOUNTY 08 CONG CODE DIST
09 COORDINATES LATITUDE LONGITUDE 43° 05' 15.0" 079° 57'	14 <u>0</u> "					
TO DIRECTIONS TO SITE ISlaning from marrest avolve mad)  EAST SIDE OF 93RD	STREE	T A	т ибеп	HERN E	ND of	STREET
III. RESPONSIBLE PARTIES						
NIAGARA FALLS BOARD OF EDUCATION			1805mess making. 18	NUT AV	E.	
NIAGARA FALLS		NY NY	05 ZIP CODE 1430/	06 TELEPHON	18-56/3	
07 OPERATOR (If known and different from owner)		08 STREE	(Business, mailing, re	is-deniral)		
SAME		<del></del>		Larrica		·
09 CITY	·.	10 STATE	11 ZIP CODE	12 TELEPHON	IE NUMBER	
13 TYPE OF OWNERSHIP (Check and)	1			E ED.COUNT	y Menu	AUCIDAL
A. PRIVATE DB. FEDERAL:	(Agency name)				, .	NICIPAL
☐ F. OTHER:(Soecdy)			_ OG. UNKN	IOWN		
14 OWNER: OPERATOR NOTIFICATION ON FILE (Chace affinal ADDY)  A RCRA 3001 DATE RECEIVED: / / MONTH DAY YEAR	. UNCONTROLL	ED WAST	E SITE ICERCLA 103	DATE RECEI	VED:	J C. NONE
IV. CHARACTERIZATION OF POTENTIAL HAZARD						
YES DATE 1000	□ B. EPA	CIAI [	CTOR DIF.OTHER:			CONTRACTOR
02 SITE STATUS (Chace one) 03	YEARS OF OPERA	LION				
☐ A. ACTIVE ☐ B INACTIVE ☐ C. UNKNOWN		1954	AR ENDING	VEAR	☐ NNKNOM	N
04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR A FLY ASH POSSIBLY C	DNTA MIN				AND BH	IC CAKE
OS DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR PO NO CONTAINMENT, NO MEASURES GROUNDWATER OR SURFACE WATE ARDUNDWATER CONTAMINATION, PO	5 TAKEN ER RUN	I - OF F	. PUDDIO	te mar.	100 000	
V. PRIORITY ASSESSMENT						
01 PRIORITY FOR INSPECTION (Check one if high or medium is checked compression)  D. A. HIGH  Image-clion required promptly)  (Inspection required)	te Pari 2 - Waste Inford C. LOW (Inspect on time		D. NON	zaronus Conditions and IE ther action naeded, con		siron (arm)
VI. INFORMATION AVAILABLE FROM						•
	OF IADONCY OF CORNIE	RES	EARCH.	INC		03 TELEPHONE NUMBER 1716 1838-6260
	AGENCY		ANIZATION RESERVE		ONE NUMBER	08 DATE 3 ,83

# POTENTIAL HAZARDOUS WASTE SITE

I, IDENTIFICATION 01 STATE 102 SITE NUMBER

SO EI	A			ASSESSMENT EINFORMATION		NY 9-3	2-078
II. WASTE S	TATES, QUANTITIES, AN	ID CHARACTER	ISTICS				
MA SOLID ID B. POWDE ID C. SLUDGE	TATES (Compa afficial apply)  (3 E. SLURRY  R. FINES		of waste quantities independent)	O3 WASTE CHARACTE  D A TOXIC  D B CORROL  D C RADIOA  D 0 PERSISI	CTIVE 🗆 🗀 G FLAMA	BLE DI HIGHLY TIOUS DI EXPLO MABLE DI K. REAC BLE DI LINCON	SIVE TIVE
	(Specify)	NO OF DRUMS					
III. WASTE T	YPE						
CATEGORY	SUBSTANCE	IAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS		
SLU	SLUOGE			ļ			
Orw	OILY WASTE		ļ				
SOL	SOLVENTS					DLUENE, LINE	
PSD	PESTICIDES				DIDXIN + 1	BHC DETEC	TED
occ	OTHER ORGANIC CI	HEMICALS			DN SITE		
IOC	INORGANIC CHEMIC	CALS					
ACD	ACIDS		<u> </u>				
BAS	BASES						
MES	HEAVY METALS		<u> </u>	<u> </u>	L		
IV. HAZARO	OUS SUBSTANCES 15.0.	paendis lar mast frequen	·	<del>,</del>	· · · · · · · · · · · · · · · · · · ·	r. · · · · · · ·	OS HEASTING OF
01 CATEGORY	O2 SUBSTANCE N	AME	OJ CAS NUMBER	04 STORAGE:DISE	OSAL ME THOO	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
V. FEEDSTO	CKS (Sae Appendix for CAS Numb	9/5)	<del>,</del> -	· · · · · · · · · · · · · · · · · · ·			·
CATEGORY	01 FEEDSTOC	KNAME	02 CAS NUMBER	CATEGORY	01 FEEDSTO	OCK NAME	02 CAS NUMBER
FOS				FDS			
FDS				FDS		<del></del>	
FDS				FDS			
FDS				FDS			
	OF INFORMATION ICA.						
- uceda	REF. 2,3 6	2-k 17 3-h	HOWLES, 4.D JASTES DISPOS VYSDOH "LOTE AT LINE LA	AND TRAMAN SAL SITE REPO CANAL A SH	TBNO, R., "M RT" 4/16/80 CCIAL REPORT	15DEC HAZARÊ TD ADIŒNOP (1 030a) & V.T	045 E415LATURE I 4/81

LEDA-600/4-82-0306)"

# SEPA

#### POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT

01 STATE 02 SITE NUMBER NY 9-32-078

I. IDENTIFICATION

PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS II. HAZARDOUS CONDITIONS AND INCIDENTS 01 C A. GROUNDWATER CONTAMINATION 02 08 OBSERVED (DATE: 5/82) D POTENTIAL T ALLEGED **04 NARRATIVE DESCRIPTION** 03 POPULATION POTENTIALLY AFFECTED. ON-SITE GROUNDWATER TRACES OF BEUZENE & TOLUENE DETECTED IN ONLY INDUSTRIAL WELLS LOCATED WITHIN 3 MILES OF SITE. O1 DB SURFACE WATER CONTAMINATION 770,000 O2 DOBSERVED (DATE ) BEPOTENTIAL DALLEGED O3 POPULATION POTENTIALLY AFFECTED: 770,000 O4 NARRATIVE DESCRIPTION

LINDAME, BOUZOUE & BHC DETECTED IN ADJACENT STORM SEWERS AND BERGHOLTZ CREEK. EFFECT OF OTHER LOYE CANAL SOURCES NOT SCREEUED OUT. NIAGARA FALLS WATER INTAKES L3 MILES DOWNSTREAM OF SITE (REF 3,7.4) POTENTIAL 01 E C. CONTAMINATION OF AIR 02 C OBSERVED (DATE: 03 POPULATION POTENTIALLY AFFECTED: **04 NARRATIVE DESCRIPTION** BENZER & TOLUENE VOLATILEY CONTAMINATED FILL LAYER OVERLAIN BY TOP SOIL, VOLITALIZATION 15 POSSIBLE 01 D. FIRE/EXPLOSIVE CONDITIONS 02 @ OBSERVED (DATE: .. C ALLEGED 03 POPULATION POTENTIALLY AFFECTED: , **04 NARRATIVE DESCRIPTION** UNKNOWN C POTENTIAL 02 C OBSERVED (DATE. 01 Z E. DIRECT CONTACT 03 POPULATION POTENTIALLY AFFECTED 5,000 04 NARRATIVE DESCRIPTION CONTAMINATED FILL OVERLAIN BY TOP BOIL, EXPOSURE TO PEDPLE
USING SCHOOL VARD POSSIBLE LINDAUE, BHC, BENZENE AND DIDKIN DETECTED IN SOILS. ESTIMATED POPULATION WITH ONE MILE RADIUS 02 COBSERVED (DATE 01 E. CONTAMINATION OF SOIL □ POTENTIAL C ALLEGED 03 AREA POTENTIALLY AFFECTED: .. **04 NARRATIVE DESCRIPTION** FOUND TO CONTAIN BENZENE, LINDANE, DIOXIN, BIK (REF. 2,397) 01 G DRINKING WATER CONTAMINATION 7:0000 02 G OBSERVED (DATE: 03 POPULATION POTENTIALLY AFFECTED: 7:0000 04 NARRATIVE DESCRIPTION C POTENTIAL WATER INTAKES WITTH 3 MICE CITY OF WIAGARA FALLS DOWNSTREAM OF SITE (REF4) 02 D OBSERVED (DATE: \_ [] POTENTIAL 01 TH. WORKER EXPOSURE/INJURY 03 WORKERS POTENTIALLY AFFECTED: **04 NARRATIVE DESCRIPTION** UNKNOWN, EXPOSLIRE POSSIBLE FOR ON-SITE WORKERS ☐ POTENTIAL E ALLEGED 02 () OBSERVED (DATE: 01 DI. POPULATION EXPOSURE/INJURY 04 NARRATIVE DESCRIPTION 03 POPULATION POTENTIALLY AFFECTED: \_ UNKNOWN

# POTENTIAL HAZARDOUS WASTE SITE

I. IDENTIFICATION

SEPA ,	- , ,	MINARY ASSESSMENT HAZARDOUS CONDITIONS AND INCIDER	NTS OF STATE OF S	-3Z-078
IL HAZARDOUS CONDITIO	INS AND INCIDENTS (Continued)			
D1 D J DAMAGE TO FLORA D4 NARRATIVE DESCRIPTION	4	02 () OBSERVED (DATE:)	☐ POTENTIAL	D ALLEGED
	UNKNOWN			
	14		<del></del>	
01 (1) K. DAMAGE TO FAUNA 04 NARRATIVE DESCRIPTION		02 C OBSERVED (DATE:)	D POTENTIAL	C ALLEGED
	UNKNOWN			
01 S. L. CONTAMINATION OF 04 NARRATIVE DESCRIPTION		02 OBSERVED (DATE)	☐ POTENTIAL	☐ ALLEGED
	UNKNOWN	<i>(</i>		
01 D M UNSTABLE CONTAL	ids'le eking drums)	02 ID OBSERVED (DATE:)	☐ POTENTIAL	D ALLEGED
03 POPULATION POTENTIAL	LY AFFECTED.	D4 NARRATIVE DESCRIPTION		
)	NO CONTAINM	ENT		
01 C N. DAMAGE TO OFFSI 04 NARRATIVE DESCRIPTION		02 ① OBSERVED (DATE:)	D POTENTIAL	C) ALLEGED
	UNKNOWN		• •	
A		TPs 02 © OBSERVED (DATE:)		☐ ALLEGED
PHC	AND DIDXIN	DETECTED IN STORM	SENERS(1	(EF3+1)
LINDANE DETE	ICTED IN STORM	DETECTED IN STORM SEWERS AWACEUT	TO SITE (	REF3)
01 D P ILLEGAL/UNAUTHOR 04 NARRATIVE DESCRIPTION		02 C OBSERVED (DATE:)	D POTENTIAL	☐ ALLEGED
05 DESCRIPTION OF ANY OT	THER KNOWN, POTENTIAL, OR AL	LEGED HAZARDS		
	-	_		
W TOTAL BOOK ATION OF	OTEN TALLY A SECOTED			
III. TOTAL POPULATION PO	JIENHALLY AFFECTED:			
IV. COMMENTS				
				_
M. COUDERS OF MESSAGE	TION			
	TION (Crescine discreting in the control of the con		2000T 411, 10	
3- NYSDOH "LOVE CA 4- USAS TOPUGE!	and a special kerder i wal a special kerder i albaitad, and tonaw and	ARDOUS WASTE DISPOSAL SITE RED THE CHERNOR LEGISLATURE, APRIL AVEST. NY QUADRANGLE 1965	= 1481. 4116/8	
6- JOHUSON, R. H.	, "HEOUNDWATERIN THE	NIAGARA FAUS AREA, NY." NY W	later Res Com. Bu	11.0-W-53,1964

POT	ENTIAL HAZAR	nous v	VASTE SITE		I. IDENTIFICA		
<b>ŞEPA</b>	SITE INSPECT				01 STATE 02 S	TE NUMBER	16
PART 1 - SITE	ELOCATION AND	INSPEC	TION INFORM	ATION		<u> </u>	
II. SITE NAME AND LOCATION							
O1 SITE NAME (Legal, common, or descriptive name of site)		02 STREE	, ROUTE NO., OR SP		DENTIFIER		
93RD STREET SCHOO	<i>L</i>			PEET		· <u>-</u> · · · · · · · · · · · · · · · · · · ·	
NIAGARA FALLS		NY	1430	WIA4A	RA	07COUNTY CODE	08 CONG DIST
9 COORDINATES 4 3° 05 15.0 0 79 57.14.0"	10 TYPE OF OWNERSH  A. PRIVATE  F. OTHER		ERAL		D. COUNTY DE	E. MUNICIP	AL.
III. INSPECTION INFORMATION							
01 DATE OF INSPECTION 02 SITE STATUS    0, 3, 83	03 YEARS OF OPERAT	1954	<u> </u>		INKNOWN		
04 AGENCY PERFORMING INSPECTION (Check all that apply)							
□ A. EPA □ B. EPA CONTRACTOR □ E. STATE ☑ F. STATE CONTRACTOR	"RESERRCH	☐ C. MU	NICIPAL D.MI HER		ACTOR	(Name of Irm)	
05 CHIEF INSPECTOR	TOS TITLE		····	(Specify) 07 ORGANIZAT	NOI NOI	TELEPHONE	NO.
KEVINI OWEN	ENVIRON MEN	ITAL S	<b>PEUAUST</b>	RECRA RE	SEARCH (	161838	3-6200
09 OTHER INSPECTORS	10 TITLE			11 ORGANIZAT	ION 12	TELEPHONE	NO.
NONE			· · · · · · · · · · · · · · · · · · ·			)	
					(	)	
					(	)	
					(	)	
		-			(	}	
13 SITE REPRESENTATIVES INTERVIEWED	SYDERINDE	NEW 15	ADDRESS	111100000000000000000000000000000000000	16	TELEPHONE	NO
DR. REED H. HAUEN	OF SCHOOLS	5	GOT WAL NIAGARA F	nus, K	/ (	161218	-56/3
					(	)	
					(	)	
					(	)	
					(	)	
					(	)	
17 ACCESS GAINED BY 18 TIME OF INSPECTION	19 WEATHER COND	ITIONS		···			
D PERMISSION 10:00 AM	SUNI	U4 /	WARM				
IV. INFORMATION AVAILABLE FROM							
01 CONTACT	02 OF (Agency/Organia	_		, 4	1	ELEPHONE N	
RICHARD L. CROUCH	KELRA	RES	NEARCH INIZATION	PHC		61838	6200
04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM	05 AGENCY			07 TELEPHONE	10. 08 D		02
KEVIH OWEH		REC	ea		-	MONTH DAY	YEAR

	_		Λ
~		17	4

#### POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

I. IDENTIFICATION 01 STATE 02 SITE NUMBER

<b>⇒EPA</b>			PART 2 - WASTE INFORMATION				NY 19-32-078		
I, WASTE ST	ATES, QUANTITIES, AN	ND CHARACTER	STICS						
O1 PHYSICAL STATES (Check all that apply) O2 WASTE QUANTI (Measures of				CTIVE G. FLAMMABLE K. REACTIVE		VE /E ATIBLE			
	(Specify)	NO. OF DRUMS		<u> </u>		<del></del>			
III. WASTE T			01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS			· · · · · · · · · · · · · · · · · · ·	
CATEGORY	SUBSTANCE I	YAME	UT GROSS AMOUNT	oz diar di mendone					
OLW OLW	OILY WASTE			· · · · · · · · · · · · · · · · · · ·					
SOL	SOLVENTS				BENZEVE, TOI	HEVE,	LINDAL	ie –	
PSD	PESTICIDES				DIOXIN		BHC		
occ	OTHER ORGANIC C	HEMICALS							
100	INORGANIC CHEMIC		· · · · · · · · · · · · · · · · · · ·						
ACD	ACIDS		<del>                                     </del>		1"				
BAS	BASES								
MES	HEAVY METALS								
V. HAZARD	OUS SUBSTANCES (See	Appendix for most frequen	itly cred CAS Numbers)					I 22 15 15 15 05	
1 CATEGORY	02 SUBSTANCE	NAME	03 CAS NUMBER	04 STORAGE/DISE	POSAL METHOD	05 CONC	ENTRATION	06 MEASURE OF CONCENTRATION	
				<u> </u>		ļ			
·*··								<u></u>	
				ļ	<del></del>	<del> </del>		ļ	
				ļ					
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			<del> </del>	<del> </del>		<del> </del>			
<del></del>				<del> </del>		-		-	
			<del>- </del>	<u> </u>		<del> </del>		<u> </u>	
		· · · · · · · · · · · · · · · · · · ·		<del> </del>		<del>                                     </del>			
				<u> </u>		1		1	
	040		<u> </u>			J		I	
	CKS (See Appendix for CAS Num		02 CAS NUMBER	CATEGORY	01 FEEOST	OCK NAME		02 CAS NUMBER	
CATEGORY	01 FEEDSTO	CKNAME	UZ CAS HOMOCII	FDS	•				
FDS			<del> </del>	· FDS	<del></del>				
FDS	<del></del>	<del> </del>	+	FDS	+				
FDS			+	FDS					
	OF INFORMATION ICA		state like semale engine	, <u>l</u>			L		
R	EF. 2,3,9	7 2- KNOW	ILES & TRAMBU	MANO, 'NYSDEC UIBO CANAL A SPEC	HAZARIDUS UAL REPOR	. WASTI	F DISPO HE GO	sal (æwl	

AND LEGISLATURE", APRIL 1981

**ŞEPA** 

#### POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

Į I.	IDEN.	rification
01	STATE	02 SITE NUMBER
l n	SV	9-32-078

PART 3 - DESCI	RIPTION OF HAZARDOUS CONDITIONS AND INCIDE	NTS LICETION	<u> </u>
I. HAZARDOUS CONDITIONS AND INCIDEN	NTS		
01 🗇 A. GROUNDWATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED:	02 □ OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	O POTENTIAL	[] ALLEGED
SEF	PRELIMINARY ASSESSMENT		
01 C B. SURFACE WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED:	O2 OBSERVED (DATE:) O4 NARRATIVE DESCRIPTION	☐ POTENTIAL	C) ALLEGED
SEE	PRELIMINARY ASSESSMENT		
01 [] C. CONTAMINATION OF AIR 03 POPULATION POTENTIALLY AFFECTED:	02 [] OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	[] POTENTIAL	□ ALLEGED
	t <sub>l</sub>		
01 ① 0. FIRE EXPLOSIVE CONDITIONS 03 POPULATION POTENTIALLY AFFECTED:	02   OBSERVED (DATE:)  04 NARRATIVE DESCRIPTION	POTENTIAL	□ ALLEGED
	"		
01 D E. DIRECT CONTACT 03 POPULATION POTENTIALLY AFFECTED:	02 [] OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	☐ POTENTIAL	☐ ALLEGED
	<b>"</b> .		
01   F. CONTAMINATION OF SOIL  O3 AREA POTENTIALLY AFFECTED:  (Ac)	02 [] OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	O POTENTIAL	□ ALLEGED
	<i>(</i> /		
01 D.G. DRINKING WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED	02 [] OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	C POTENTIAL	☐ ALLEGED
	<b>!</b>		
01 [] H. WORKER EXPOSURE/INJURY 03 WORKERS POTENTIALLY AFFECTED:	02 🗆 OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	☐ POTENTIAL	C) ALLEGED
	<i>(1</i>		
01 DI. POPULATION EXPOSURE/INJURY 03 POPULATION POTENTIALLY AFFECTED:	02 OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	☐ POTENTIAL	[] ALLEGED
	1		

**ŞEPA** 

#### POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

I. IDENTIFICATION 01 STATE 02 SITE NUMBER NY 9-32-078

	AZARDOUS CONDITIONS AND INCIDENT	rs L	
II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)			
01 D J. DAMAGE TO FLORA 04 NARRATIVE DESCRIPTION	02 [] OBSERVED (DATE:)	☐ POTENTIAL	☐ ALLEGED
NONE OBSERVED			
01 D K. DAMAGE TO FAUNA 04 NARRATIVE DESCRIPTION (Include name(s) of species)	02 D OBSERVEO (DATE:)	☐ POTENTIAL	□ ALLEGED
NONE OBSERVE			
01 D. L. CONTAMINATION OF FOOD CHAIN 04 NARRATIVE DESCRIPTION	02 🖸 OBSERVED (DATE:)	☐ POTENTIAL	☐ ALLEGED
UNKDOWA	,		
01 © M. UNSTABLE CONTAINMENT OF WASTES (Spits: Fluncil' Standing Aguids: Leaking drums) 03 POPULATION POTENTIALLY AFFECTED:	02 (1) OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	☐ POTENTIAL	□ ALLEGED
SEE PERIN	MINARY ASSESSMENT		
01 II N. DAMAGE TO OFFSITE PROPERTY 04 NARRATIVE DESCRIPTION	02 C OBSERVED (DATE)	☐ POTENTIAL	☐ ALLEGED
	(1		
01 D O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs 04 NARRATIVE DESCRIPTION	02 [] OBSERVED (DATE:)	POTENTIAL	□ ALLEGEO
	//		
D1 C P. ILLEGAL/UNAUTHORIZED DUMPING D4 NARRATIVE DESCRIPTION	02 🗇 OBSERVED (DATE:)	D POTENTIAL	☐ ALLEGED
NONE OBSERVED			
D5 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL. OR ALLEC	GED HAZARDS		
IL TOTAL POPULATION POTENTIALLY AFFECTED:			<del></del>
V. COMMENTS			
GULLY OBSERVED CONDUCTING	SURFACE RUN-OFF TO BE	FRG HOLTZ	
CLEEK, STORM SEVERS LOCATED	IN PLAYGROUND WEAP	BALLFIELN	,
EPA MONITORING WELLS PRESEN	T & PRESUMABLY USAB	LE	
. SOURCES OF INFORMATION (Cité specific references, e.g., state lites, s	ample analysis, reports:		
2-KNOWES & TRAMONTAND, WSDEC HAZARDOU 4-USGS TOPOGRAPHIC MAP, TOWAWANDA WI 6-JOHNSON, R.H., "GROUNDWATER IN THE	e niahaba falus abeainy" n	JY WATER KES. C	IOM. BULL GW 53.
7- USEPA "ENVIRONMENTAL MONITORING AT L	DYE CANAL VI LEPA-600/4-82-030	1) 9 1. II (EPA	(co)4-82-036")

EPA FORM 2070-13 (7-81)

MIAH 1982

<b>\$EPA</b>
II. PERMIT INFORMATIO
11 TYPE OF PERMIT ISSUED (Check all that apply)
A. NPDES
□ B. UIC
□ C. AIR
D. RCRA
☐ E. RCRA INTERIM STA
☐ F. SPCC PLAN
G. STATE (Specify)
CIN LOCAL

## POTENTIAL HAZARDOUS WASTE SITE

I. IDENTIFICATION						
Q1 STATE	02 SITE NUMBER					
NY	9-32-018					

<b>SEPA</b>			PECTION SCRIPTIVE INFORMAT	ION	NY 9-32-078
II. PERMIT INFORMATION	A				<del> </del>
OT TYPE OF PERMIT ISSUED (Check all that apply)	02 PERMIT NUMBER	03 DATE	SSUED 04 EXPIRATION DATE	05 COMMENTS	
·		İ			
☐ A. NPDES		<del>-}</del>		<del> </del>	<u></u>
		<del> </del>			
C. AIR		<del> </del>		<del> </del>	
D. RCRA		┼		<del> </del>	
E. RCRA INTERIM STATUS		<del></del>		ļ <del>.</del>	
DF. SPCCPLAN		<del></del>			
G. STATE (Specify)		<del> </del>			
☐ H. LOCAL (Specify)		ļ			
☐ I. OTHER (Specify)		<u> </u>		<u></u>	
D J. NONE		<u> </u>		<u> </u>	
II. SITE DESCRIPTION					
1 STORAGE DISPOSAL (Check all that apply)	02 AMOUNT 03 UNIT OF	MEASURE	04 TREATMENT/Check all that a	φοίγ)	05 OTHER
☐ A. SURFACE IMPOUNDMENT	The second section of the section of the second section of the section of t		A. INCENERATION		_
☐ B. PILES			☐ B. UNDERGROUND INJ	ECTION	☐ A. BUILDINGS ON SITE
C. DRUMS, ABOVE GROUND			C C. CHEMICAL/PHYSICA	NL.	
D. TANK, ABOVE GROUND	······································		☐ D. BIOLOGICAL		
☐ E. TANK, BELOW GROUND  ©(F. LANDFILL	3,500 Cubic	V15.	C E. WASTE OIL PROCES		06 AREA OF SITE
G G. LANDFARM	8,000	~ <del>/4</del> ~~	☐ F. SOLVENT RECOVER ☐ G. OTHER RECYCLING		10
☐ H: OPEN DUMP			H. OTHER	necoveni	(Acres)
[] I. OTHER(Specify)				ecity)	
V. CONTAINMENT					
1 CONTAINMENT OF WASTES (Check one)					
OF A. ADEQUATE, SECURE	☐ B. MODERATE	□ C. IN	ADEQUATE, POOR	D. INSECU	IRE, UNSOUND, DANGEROUS
2 DESCRIPTION OF DRUMS, DIKING, LINERS,  LAYER OF  TAKEN TO PROVI  PERCOLATION OF	TOPSOIL OVER	FILL ACE 10	I NO CONTAIN PUN-OFF CONT GROUNDWAT	VMOUT, POL DR	NO MEASURES TO PREYEUT
	CONTINUE TO	<i>ار</i> د	, -,,		
/. ACCESSIBILITY			<del></del>	<del></del>	
01 WASTE EASILY ACCESSIBLE BYE 02 COMMENTS SCHOOL Q	s ino RDUNDS ACCES	551BLE	TO PUBLIC		
. SOURCES OF INFORMATION (Cre s)	Decirio relevances a o state like vamore	analysis race	tel		
	7 - KNOWLES A	JD TRA	MONTANO "NUSDEC	HAZARDOU*	THE GOIERNOR AND
- USEPA "ENVICONMENTAL I	LEUISLATUR LA LOUITORING AT LO	e, ap	EIL 1981 NAL. VII (FA-600	14-82-03	CX) & VII

### POTENTIAL HAZARDOUS WASTE SITE

	I. IDENTIFICATION							
i	OI STATE	02 SITE NUMBER 9- 32-018						

<b>⇒EPA</b>	SITE INSPECTION REPORT  PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA  O1 STATE 02 SITE NUMBER  PY 9- 32-018						
II. DRINKING WATER SUPPLY						<del></del>	<del> </del>
01 TYPE OF DRINKING SUPPLY	· · · · · · · · · · · · · · · · · · ·	02 STATUS	<del></del>			03	3 DISTANCE TO SITE
(Check as applicable) SURFACE	WELL	ENDANGER	ED AFFECTE	:n	MONITORED		
COMMUNITY A D	B. C	A. D	B. 🗆	.0	C. 🗆	Δ	(I)
NON-COMMUNITY C. []	D. []	D. C	€. □		F. C	A.	·(mi)
III. GROUNDWATER			<u>_</u>	<del></del>			1,1117
01 GROUNDWATER USE IN VICINITY (CARCK ONE)							
C. A. ONLY SOURCE FOR DRINKING	B. DRINKING (Other sources availa) COMMERCIAL, IN (No other water source)	DUSTRIAL, IRRIGATIO	(Lanifed	IERCIAL,	INDUSTRIAL, IRRIGAT ces evellable)	ION I	C) D. NOT USED, UNUSEABLE
02 POPULATION SERVED BY GROUND WAT	ER INDUSTRY	-	03 DISTANCE TO	NEARES	ST DRINKING WATER W	/ELL	N/A (ml)
04 DEPTH TO GROUNDWATER	05 DIRECTION OF GRO	UNDWATER FLOW	08 DEPTH TO AO		07 POTENTIAL YIEL	D	08 SOLE SOURCE AQUIFER
<u> 410 (ft)</u>	SOUTH		of concern	(ft)	VARIABLE		D YES ENO
09 DESCRIPTION OF WELLS (Including useage.			L	(m)	TARIFFOCE	(gpd)	
INDUSTRIAL WELL			Plocess V				
DEPOSITS  10 RECHARGE AREA  BEDROCK  COMMENTS VIA INFIL  DEPOSITS	AQUIFER RE		IT DISCHARGE A	MMENT	Possible S Beegholtz 2 Discharges	OREE	HARYE TU K., BEDRUCK INGUARA ENERS
IV. SURFACE WATER	······································	· · · · · · · · · · · · · · · · · · ·		·			
01 SURFACE WATER USE (Check one)  12 A. RESERVOIR, RECREATION DRINKING WATER SOURCE		I, ECONOMICALLY TRESOURCES	□ с. сомі	MERCIA	L, INDUSTRIAL	0.0	) NOT CURRENTLY USED
02 AFFECTED/POTENTIALLY AFFECTED BOX	DIES OF WATER						
NAME:					AFFECTED		DISTANCE TO SITE
BERGHOLTZ CLEEK	,				_	A	Linapial
CAYUGA CLEEK					0		CJULETIT (mi)
NIAMARA RIVE	٤					-	(mi)
V. DEMOGRAPHIC AND PROPERTY	INFORMATION						
01 TOTAL POPULATION WITHIN	MEGNIKATION			1 02/	DISTANCE TO NEARES	T BODI	LATION
				"	RESIDEN(		
ONE (1) MILE OF SITE TWO (2) MILES OF SITE THREE (3) MILES OF SITE  A							
NO. OF PERSONS	NO. OF PERSONS	N	O OF PERSONS	1	<u></u>		(mi)
03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE 04 DISTANCE TO NEAREST OFF-SITE BUILDING							
05 POPULATION WITHIN VICINITY OF SITE (Pro	ivide narrative description of n	sture of population within y	cintrol site, e.g. (wel	village, de	OSelv Occulated urban area	•	• ,
05 POPULATION WITHIN VICINITY OF SITE (Provide narrative description of nature of population wathin vicinity of site, e.g., (use), village, densely populated urban area)  SCHOOL LOCATED IN A RESIDENTIAL SECTION OF NIAHARA RIVER							

## POTENTIAL HAZARDOUS WASTE SITE

I. IDENTIFICATION

	OTION REPORT  OT
VI. ENVIRONMENTAL INFORMATION	
01 PERMEABILITY OF UNSATURATED ZONE (Check one)	
A. 10 <sup>-6</sup> 10 <sup>-8</sup> cm/sec	☐ C. 10 <sup>-4</sup> - 10 <sup>-3</sup> cm/sec ☐ D. GREATER THAN 10 <sup>-3</sup> cm/sec
02 PERMEABILITY OF BEDROCK (Check one)	
☐ A. IMPERMEABLE ☐ B. RELATIVELY IMPERMEAB (Less than 10 <sup>-6</sup> cm/sec) (10 <sup>-4</sup> - 10 <sup>-6</sup> cm/sec)	LE GC. RELATIVELY PERMEABLE D. VERY PERMEABLE  [10-2-10-4 cm/sec] (Greater than 10-2 cm/sec)
03 DEPTH TO BEDROCK 04 DEPTH OF CONTAMINATED SOIL ZONE	05 SOIL pH
20 (m) UNKUDWN (m)	
06 NET PRECIPITATION 07 ONE YEAR 24 HOUR RAINFALL	08 SLOPE   DIRECTION OF SITE SLOPE   TERRAIN AVERAGE SLOPE
(in)(in)	<u>&lt;3</u> % NDRTH <u>&lt;3</u> %
09 FLOOD POTENTIAL 10	
SITE IS IN 100 YEAR FLOODPLAIN	IER ISLAND, COASTAL HIGH HAZARD AREA, RIVERINE FLOODWAY
11 DISTANCE TO WETLANDS/5 acre minimum/	12 DISTANCE TO CRITICAL HABITAT (of endangered species)
ESTUARINE OTHER	(mi)
A(mi) B(mi)	ENDANGERED SPECIES:
13 LANO USE IN VICINITY	<u> </u>
COMMERCIAL/INDUSTRIAL RESIDENTIAL AREAS; NATIC FORESTS, OR WILDLING COMMERCIAL RESIDENTIAL RESIDENTIAL AREAS; NATIC FORESTS, OR WILDLING COMMERCIAL RESIDENTIAL RESIDE	FE RESERVES PRIME AG LAND AG LAND
l ·	FLAT LYING. ON THE NORTHERN
EDGE OF THE SITE THEREISA:	5 TO 10 FOOT DROP TO BERELHOLTZ
CREEK WITH A SLOPE OF ABOUT	16%. SCHOOL GROUNDS HAVE
	TO DIRECT RUN-DEF TOWARDS
BERGHOLTZ CREEK	
	i
VII. SOURCES OF INFORMATION (Cae specific references, e.g., state files, sample analysis.	(PDOGE)
4- 4545 TOPOGRAPHIC MAP TONAWAYOA WEST	

4- WOUD TOPOURAPHIC MAP, TOWN WANDA WEST QUADRANGLE .NY RUS

10- NIAGARA FALLS DEPT. OF DLAUDING & DEFENDAMENT "ZONIKY MAP OF DIAGARAFALLS" 2/2/70 11- BATCHELLER, 4., NYSDEC, REG. 9, TELEPHONE CONUESSATION 4/1/83

14-US DEDT OF COMMERCE, NAT'L CLIMATIC CENTER. "CUMATIC ATLAS OF THE U.S.) 1979

<b>\$EPA</b>	\		POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 6 - SAMPLE AND FIELD INFORMATION	I. IDENTIFICATION  01 STATE 02 SITE NUMBER  NY 9-32-078
II. SAMPLES TAK	EN			
SAMPLE TYPE	01	NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTIMATED DATE RESULTS AVAILAE
GROUNDWATER			REF. 7	
SURFACE WATE	R		REF 3 \$7	
WASTE			Ref. 3	
AIR			REF. 7	
RUNOFF				
SPILL				
SOIL			REF 2,347	
VEGETATION				
OTHER		•		
III. FIELD MEASUR	REMENTS TAKE	N .		
O1 TYPE	02	COMMENTS		
IV. PHOTOGRAPH	S AND MAPS	***		
01 TYPE GROUP	NO [] AERIAL		02 IN CUSTODY OF	
03 MAPS D YES E) NO	04 LOCATION OF	MAPS 384	IName of organization or indivi-	DU#/
V. OTHER FIELD D	ATA COLLECTE	D (Provide narrative de	SC(IDIIDII)	

VI. SOURCES OF INFORMATION (CRE SDECTIC PETERENCES & D. STATE THES. SAMPLE ANALYSIS, PROPORT)

2-KNOWLES + TRAMONTANO, "NYSDEC HAZARDOUS WASTE DISPOSAL SITE REPORT " 4/16/80

3-NYSDOH "LOFE CAUAL" A SPECIAL REPORT TO THE GOVERNOR & LEGISLATURE " APRIL 1981

4- USGS TOPO MAP, TONAWANDA WEST, NY, QUADRANGLE 1965 7- USEDA "ENVIRONMENTAL MONITORING AT LOTE CANAL. Y. I (EPA-600/4-82-0304) & VII. 1EDA-600/4-82-6806)" MAY 1982

<b>≎</b> EPA	PO	SITE INSPEC	RDOUS WASTE SITE CTION REPORT ER INFORMATION	LIDENTIFICATION OI STATE OZ SITENUMBER NY 9-32-078			
II. CURRENT OWNER(S)			PARENT COMPANY (# applicable)				
O1 NAME NIAGARA FAUS BOARD OF EDUCATION O3 STREET ADDRESS (P.O. BOX, RFO P. OFC.)	02	D+8 NUMBER	08 NAME	(	D9 D+B NUMBER		
03 STREET ADDRESS (P.O. BOX, RED P. OC.) 607 WALNUT AVE.		04 SIC CODE	10 STREET ADDRESS (P. O. Box, RFD P, erc.)	·····	11 SIC CODE		
607 WALNUT AVE.  OSCITY NIAGARA FALLS	STATE O7	ZIP CODE	12 CITY	13 STATE	14 ZIP CODE		
O1 NAME	o <sub>2</sub>	0+BNUMBER	08 NAME		09 O+8 NUMBER		
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFO #, etc.)		11 SIC CODE		
05 CITY 06 S	STATE	ZIP COOE	12 CITY	13 STATE	14 ZIP CODE		
O1 NAME	٥	2 D+B NUMBER	OB NAME		09 D+8 NUMBER		
O3 STREET ADORESS (P.O. Box, RFD #, etc.)		04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFO #, etc.)	<del>_</del>	11SIC CODE		
05 CITY 06 S	STATE	7 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE		
01 NAME	0:	2 D+8 NUMBER	O8 NAME		09D+BNUMBER		
O3 STREET ADDRESS (P.O. Box, RFD #, etc.)	l.	04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD P, etc.)		11 SIC CODE		
05 CITY	STATEO	7 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE		
III. PREVIOUS OWNER(S) (List most recent first)			IV. REALTY OWNER(S) (# applicable: fist most re	cent first)			
O1 NAME	O:	2 D+8 NUMBER	01 NAME		02 D+8 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 065	STATE 0	7 ZIP COOE	05 CITY	06 STATE	O7 ZIP CODE		
O1 NAME	oz	D+8 NUMBER	O1 NAME		02 D+8 NUMBER		
03 STREET ADDRESS (P. O. Box, AFD #, etc.)		04 SIC CODE	03 STREET ADORESS (P.O. Bas. RFD #, etc.)		04 SIC CODE		
05 CITY 00 S	STATE 07	ZIP CODE	05 CITY	OB STATE	07 ZIP CODE		
O1 NAME	o	2 O+B NUMBER	01 NAME		02 D+8 NUMBER		
OS STREET ADDRESS (P.O. Box, RFO P. etc.)		04 SIC CODE	O3 STREET ADDRESS (P.O. Bos. RFO #, etc.)		04 SIC CODE		
OSCITY , O6S	STATE	O7 ZIP CODE	05 CITY	OB STATE	07 ZIP COOE		
V. SOURCES OF INFORMATION (Cate aspectic refer	rences, e.g	., state files, sample analysis, r	(eports)				
NYSDEC REGION 9							

		P	OTENTIAL HAZ	ARDOUS WASTE SITE		IFICATION
			CTION REPORT ATOR INFORMATION	OI STATE	02 SITE NUMBER 9-32-078	
II. CURRENT OPERAT	OR (Provide # different fro	vn owner)		OPERATOR'S PARENT COMPANY	II appicable)	
OT NAME			02 D+B NUMBER	10 NAME	11 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD P. cic.)			04 SIC CODE	12 STREET ADDRESS (P.O. Box. RFD #, #IC.)	13 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	14 CITY	15 STAT	E 16 ZIP CODE
08 YEARS OF OPERATION	09 NAME OF OWNER	· [	<u> </u>			.1
III. PREVIOUS OPERAT	TOR(S) (List most recent)	lirst; provide on	ly If different from owner)	PREVIOUS OPERATORS' PARENT C	OMPANIES	(If applicable)
0) NAME 02			02 D+8 NUMBER	10 NAME	11 D+B NUMBER	
03 STREET ADDRESS IP.O. B	or, 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 STAT	E 16 ZIP CODE
08 YEARS OF OPERATION	09 NAME OF OWNER	DURING THIS	SPERIOD			1
01 NAME			02 D+B NUMBER	10 NAME		11 0+8 NUMBER
03 STREET ADDRESS (P.O. 85	DL RED#, etc.)		04 SIC CODE	12 STREET ADDRESS (P O Box. PFD P. atc.)		1 3 SIC CODE
05 CITY	<del></del>	06 STATE	07 ZIP CODE	14 CITY	15 STATE	16 ZIP CODE
08 YEARS OF OPERATION	OS NAME OF OWNER		SPERIOD  OF EDUCATION	w		
D1 NAME	MININGHEH THUE		02 0+B NUMBER	10 NAME	<del></del>	11 D+B NUMBER
03 STREET ADDRESS (P.O. Bo	A, RFD #, otc.)	_ <b></b> l	04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD #, etc.)		13 SIC CODE

06 STATE 07 ZIP CODE

08 YEARS OF OPERATION 09 NAME OF OWNER DURING THIS PERIOD

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

14 CITY

15 STATE 16 ZIP CODE

05 CITY

<b>\$EPA</b>			ENTIAL HAZAI SITE INSPEC ENERATOR/TR/		DENTIFIC STATE 02 S Y 9	SITE		
II. ON-SITE GENERATOR								
01 NAME		U2 D	+8 NUMBER					
03 STREET ADDRESS (P.O. Box, RFD P. etc.)	<b>^</b>		04 SIC CODE					
05 CITY	06 STATE	07 Z	IP CODE					
III. OFF-SITE GENERATOR(S)								
OI NAME		02 0	9+8 NUMBER	O1 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	08 STATE	07 2	ZIP CODE	05 CITY	ľ	06 STATE	07 Z	IP CODE
01 NAME	<u> </u>	02 (	)+B NUMBER	01 NAME			<b>0</b> 2 D	+ 8 NUMBER
O3 STREET ADDRESS (P.O. BOA, RFD #, BIC.)		L	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)				04 SIC CODE
05 CITY .	06 STATE	07	ZIP CODE	OS CITY		06 STATE	07 Z	IP CODE
IV. TRANSPORTER(S)	L	Ļ						
01 NAME		021	D+B NUMBER	O1 NAME			02 0	+8 NUMBER
03 STREET ADDRESS (P.O. Bas, RFD #. etc.)		1	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 2	IP CODE
01 NAME	1	02	D+B NUMBER	O1 NAME			02 0	)+BNUMBER
03 STREET ADDRESS (P.O. Box. RFD #, etc.)		<u> </u>	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)				04 SIC CODE
05 CITY	06 STATE	07	ZIP CODE	OS CITY		OG STATE	07	ZIP CODE
W COURCE OF INFORMATION			state Mex. cample analysis	(RDQ(TS)				
V. SOURCES OF INFORMATION (Cite special				•		a A =		TA 11
NOTE: 3000 CU	BIC Y	AR	.05 OF 1	LY ASH AND BHO	; </td <td>CALE Www.</td> <td>•</td> <td>reori</td>	CALE Www.	•	reori
LOVE CANAL US	SEP .	A-s	5 FILL	AT 93RD STREET	) (	REF	. 2	2)
2 - KNOWLES +T SITES REPOR	RAMON T" 4	lta -Il	*-80 MO' "NADE	TC HAZAEDOUS WASTE	DIS	POSA (		

	Fr	M
1	<b>}}-</b>	Ш
~	£	

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

I. IDENTIFICATION				
01	STATE	02 SITE NUMBER		
		9-32-018		

P			ONSE ACTIVITIES	s	NY 9-32-078
PAST RESPONSE ACTIVITIES				<del></del>	
01 D A. WATER SUPPLY CLOSED 04 DESCRIPTION		02 DATE		03 AGENCY	r
	TOW OF		NATURE		
01 D B. TEMPORARY WATER SUPPLY PROVIDED 04 DESCRIPTION		02 DATE		03 AGENCY	·
04 DESCRIPTION .	\$4				
01 C PERMANENT WATER SUPPLY PROVIDED 04 DESCRIPTION		02 DATE		03 AGENCY	
U4 DESCRIPTION	*				
01 [] D. SPILLED MATERIAL REMOVED		02 DATE		03 AGENCY	(
04 DESCRIPTION	. 61				
01 D E. CONTAMINATED SOIL REMOVED		02 DATE .		03 AGENCY	
04 DESCRIPTION	p#			• •	
01 D F. WASTE REPACKAGED		02 DATE .		03 AGENCY	
04 DESCRIPTION	No.			• •	
01 D G. WASTE DISPOSED ELSEWHERE		02 DATE .		03 AGENCY	
04 DESCRIPTION	•				
01 D H. ON SITE BURIAL		02 DATE _		03 AGENCY	
04 DESCRIPTION	•	# <b>*</b> -:		<del></del>	
01 © I. IN SITU CHEMICAL TREATMENT		02 DATE		03 AGENCY	
04 DESCRIPTION	H	,		<del>**</del> **********************************	
01 D J. IN SITU BIOLOGICAL TREATMENT		02 DATE _		03 AGENCY	
04 DESCRIPTION	**				
01 D K. IN SITU PHYSICAL TREATMENT		02 DATE		03 AGENCY	
04 DESCRIPTION	11				
01 D L. ENCAPSULATION 04 DESCRIPTION	10	02 DATE _		03 AGENCY .	
04 DESCRIPTION	<b>-</b> •				
01 D M. EMERGENCY WASTE TREATMENT 04 DESCRIPTION	· 0	J2 DATE		03 AGENCY	
U4 DESCRIPTION	~•				
01 C N CUTOFF WALLS 04 DESCRIPTION		J2 DATE		03 AGENCY _	
04 DESCRIPTION	*1				
01 C O. EMERGENCY DIKING/SURFACE WATER DIVE		2 DATE		03 AGENCY _	
04 DESCRIPTION	11				
01 ☐ P. CUTOFF TRENCHES/SUMP 04 DESCRIPTION	0	J2 DATE		03 AGENCY _	
U4 DESCRIPTION	•1				
01 [] Q. SUBSURFACE CUTOFF WALL	0	2 DATE		03 AGENCY _	
04 DESCRIPTION	N	· •		WO risman	

**SEPA** 

# POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

I. IDENTIFICATION

101 STATE 02 SITE NUMBER

NY 9-32-078

42 E17 1	PART 10 - PAST RESPONSE ACTIVITIES	
II PAST RESPONSE ACTIVITIES (Continued)		
01 [] R. BARRIER WALLS CONSTRUCTED	O2 DATE	03 AGENCY
04 DESCRIPTION	NO ACTION OF THIS NATUR	E TAKEN
01 S. CAPPING/COVERING	02 DATE	03 AGENCY
04 DESCRIPTION LAYER O	F TOPSOIL COVERS WASTE	s (REF 2,3,7)
O1 [] T. BULK TANKAGE REPAIRED	02 DATE	03 AGENCY
04 DESCRIPTION	NA	
01 🗆 U. GROUT CURTAIN CONSTRUCTED	02 DATE	03 AGENCY
04 DESCRIPTION	NO ACTION OF THIS NATU	RE TAKEN
01 D V. BOTTOM SEALED	02 DATE	03 AGENCY
04 DESCRIPTION	<b>6</b> -	
01 🗆 W. GAS CONTROL	02 DATE	03 AGENCY
04 DESCRIPTION	••	
01 CI X. FIRE CONTROL	02 DATE	03 AGENCY
04 DESCRIPTION	te .	
01 🗆 Y. LEACHATE TREATMENT	02 DATE	03 AGENCY
04 DESCRIPTION	••	
OT . Z. AREA EVACUATED	02 DATE	O3 AGENCY
04 DESCRIPTION	11	
01 🗆 1. ACCESS TO SITE RESTRICTED	02 DATE	03 AGENCY
04 DESCRIPTION	P	
01 0 2. POPULATION RELOCATED	02 DATE	03 AGENCY
04 DESCRIPTION	**	
01 D 3. OTHER REMEDIAL ACTIVITIES	02 DATE	03 AGENCY
04 DESCRIPTION		

III. SOURCES OF INFORMATION (Cité specific references, e.g., siète fées, sample analysis, reports)

2-KNOWLES + TRAMONTANO " WIS DEC HAZARDOUS WASTE DISPOSAL SITE REPORT" 4-16-82

3- NYSDOH "LOVE CANAL A SPECIAL REPORT TO THE GOVERNOR + LEGISLATURE - 4/81

7- USEPA "ENVIRONMENTAL MONITORING AT LOTE LAWAL, V.I (EPA-600/4-82-6304) and



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

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

DY 9-32-016

II. EN	FOF	CEMENT	INFORMATION
--------	-----	--------	-------------

01 PAST REGULATORY/ENFORCEMENT ACTION [] YES W NO

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

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

#### 4.0 SITE HISTORY

In 1954, approximately 3,000 cubic yards of fly ash and BHC cake were placed as fill at the 93rd Street School. The material was excavated from the Love Canal. The fill was subsequently covered with top soil and seeded. The topsoil is currently about 3 feet thick. The horizontal extent and thickness of the fill layer is uncertain (Ref. 1, Ref. 2, Ref. 3). No measures have been taken to control infiltration and run-off or provide containment.

#### 5.0 SITE DATA

#### 5.1 Site Area Surface Features

5.1.1 Topography and Drainage - The site is generally flat but appears to have been landscaped to direct surface runoff towards Bergholtz Creek. The site slopes gently from the east and west to create a swale in the central portion of the site. The swale terminates at its northern end in a small gully that discharges to Bergholtz Creek. Two inlets to storm sewers were observed south of the ball field near the parking lots. These storm sewers apparently discharge to Bergholtz Creek north of the school, although the actual lines were not traced.

Bergholtz Creek is classified as a Class "D" water. Cayuga Creek is classified as a Class "C" water. Cayuga Creek enters the Niagara River about one mile south of the confluence of Bergholtz and Cayuga Creek. The Niagara River is classified as a Class "A-Special" (International Boundary) water. The best usage of Class "D" waters are for secondary contact recreation. Accordingly, the water conditions must be suitable for fish survival. Class "C" waters are considered suitable for all uses

except drinking, culinary or food processing purposes, and primary contact recreation. Class "A-Special" waters are used as sources of water for drinking, culinary or food processing purposes, primary contact recreation, and other usages (Ref. 8, Ref. 9).

The water intakes of the Niagara Falls water treatment plant are approximately 2.6 miles from the site. These intakes are the only surface water intakes for drinking water located within three miles of the site (Ref. 4).

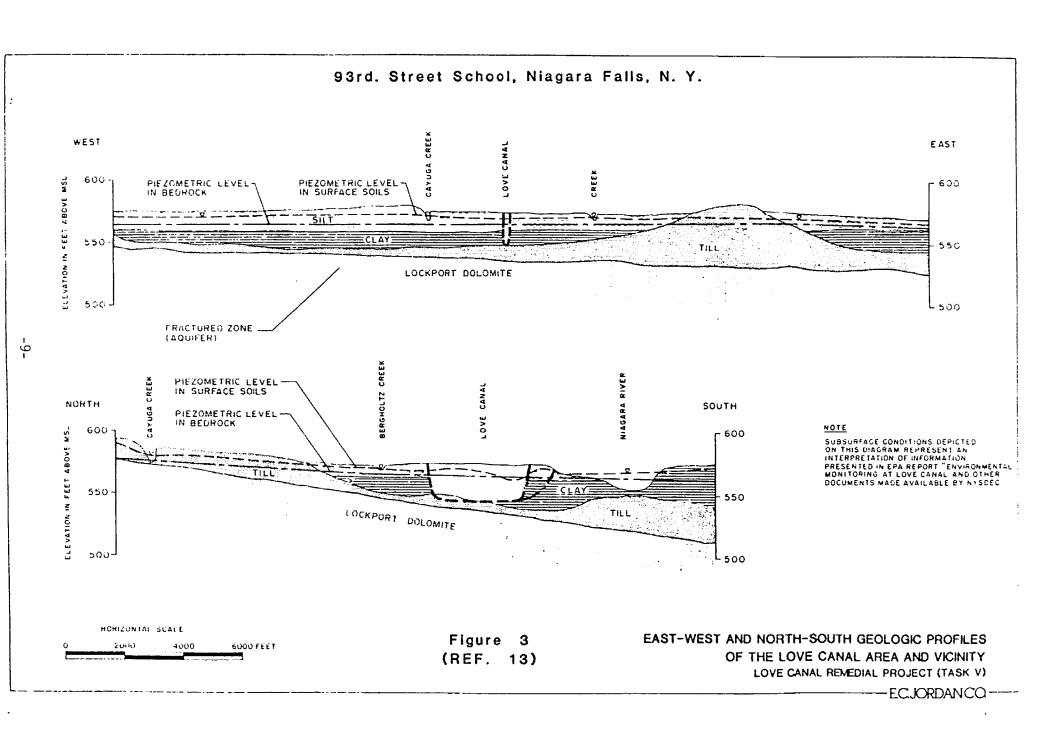
Invironmental Setting - The 93rd Street School is located in a predominately residential section of Niagara Falls (Ref. 10, Ref. 14, Ref. 15).

Bergholtz Creek flows along the northern edge of the site (Ref. 4). The northern portion of the site is in the 100 year floodplain of the creek. There are no critical habitats of endangered species in the vicinity of the site. A Class II freshwater wetlands is located about one-half mile southeast of the school property. A second wetland has been tentatively identified about one mile to the northwest of the site. Field investigations are needed to verify and classify the second wetland (Ref. 11).

There are very few areas offering wildlife habitat value in the vicinity of the 93rd Street School. The school site is regularly maintained and the entire grounds are mowed. A vacant lot with tall weeds and a few scattered trees is south of schoolgrounds. A narrow band of upland trees and vegetation separates the schoolyard from Bergholtz Creek on the north. Wetland vegetation, including a willow tree, is found in the gully running from the site into Bergholtz Creek. In all other areas, including north of Bergholtz Creek, residences are found (Ref. 12).

### 5.2 Site Hydrogeology

5.2.1 <u>Geology</u> - The Lockport Dolomite, which is of Silurian Age, forms the bedrock beneath the site (Ref. 5, Ref. 6, Ref. 7). The Lockport Formation is composed almost entirely of dolomite, a slightly soluble calcium magnesium carbonate. However, a relatively thin section of limestone is encountered near the base of the formation. The Lockport Dolomite reaches a thickness of about 150 feet. The formation dips gently in a southerly direction at a rate of approximately 30 feet per mile. (Figure 3)



- overlain by unconsolidated Pleistocene deposits.

  The overburden generally varies from 20 to 45 feet in thickness in the area of the site. Deposits of glacial till overlain by clay, silt, and fine sand layers form the general surficial geology. Area geologic profiles are provided. On the 93rd Street School, the fill layer, originating from Love Canal material, and topsoil have been placed on top of the natural overburden (Ref. 3, Ref. 5, Ref. 6, Ref. 7, Ref. 13). Permeabilities in the glacial till and the clay, silt, and fine sands deposit can reach as low as 10<sup>-7</sup> cm/sec (Ref. 5, Ref. 6, Ref. 7).
- Groundwater As depicted in the geologic profiles, 5.2.3 groundwater occurs both in the bedrock and the Groundwater the unconsolidated deposits. Lockport Dolomite occurs in three types of openings. These openings are the horizontal bedding joints, vertical joints, and dissolution cavities. The bedding joints form at least seven important water These zones are surrounded, and bearing zones. essentially impermeable by separated, Recharge appears to occur at outcrops of the bedding joints. Downward migration of water through vertical joints in the bedrock appears to play a minor, or no

role in the recharging of the lower water bearing zones (Ref. 6, Ref. 13).

A moderately permeable zone exists in the upper ten to fifteen feet of Lockport Dolomite. This zone is characterized by extensive vertical jointing, bedding joints widened by the solution of the dolomite, and cavities formed by the solution of gypsum pockets. Water in this aquifer is recharged by the downward infiltration of water through the overlying unconsolidated deposits, as well as at outcrops (Ref 6). Water in this uppermost bedrock aquifer flows in a generally southerly direction with eventual discharge to the Niagara River (Ref. 6, Ref. 7).

Due to the low permeability of the natural overburden material, the unconsolidated deposits are not important sources of groundwater (Ref. 7). The hydrologic conditions of the surficial sediments at the 93rd Street School have not been adequately defined. Groundwater from these deposits may discharge to Bergholtz Creek or percolate to the uppermost bedrock aquifer with eventual discharge to the Niagara River. As depicted in the attached geologic profiles, the piezometric surface of both

the overburden and uppermost bedrock aquifers are within about ten feet of the ground surface (Ref. 13).

There are no known drinking water wells in the vicinity of the school. Area residents receive water supplied by the water departments of the City of Niagara Falls, the Towns of Niagara and Wheatfield, and Niagara County. Although there are a number of industrial wells in the City of Niagara Falls, no wells are closer than 2.6 miles to the 93rd Street School (Ref. 6).

### 5.3 Previous Sampling and Analysis

Groundwater Quality Data - Some data on groundwater quality was obtained during the U.S. Environmental Protection Agency's (EPA) investigation of Love Canel (Ref. 7). Groundwater at the school was found to contain traces of benzene (not exceeding 20 ug/1) and toluene (not exceeding 25 ug/1). These contaminants were detected in samples from both the bedrock and the overburden. Monitoring wells installed as part of the EPA study are still in existence and presumably usable (Ref. 12).

- Surface Water Quality Data Lindane, in concentrations varying from 15 to 97 ug/l, was detected in storm sewers on 93rd Street, adjacent to the school (Ref. 3). In addition, traces of benzene and gamma BHC were measured in Bergholtz Creek. However, the levels of these contaminants were similar (or greater) in samples upstream of the site (Ref. 7).
- Air Quality Data Benzene was detected in residences east of the school. Values ranged from 6.6 ug/m³ outside the houses, to 7.2 ug/m³ inside the houses, and 8.7 ug/m³ in the basement. However, like the surface water data, the testing does not screen the impacts of the 93rd Street School from other Love Canal sources (Ref. 7).
- Street School have been analyzed. Low-level lindane contamination was detected in the fly ash fill layer. The fly ash was also found to contain 380 parts per trillion (ppt) of dioxin (Ref. 3). Core samples from the upper six inches of sediments contained cadmium ranging from 1200-1700 ug/kg. Traces of benzene (not exceeding 25 ug/kg) were also found in soil from the school grounds. In the same

samples, no gamma - BHC contamination was detected (Ref. 7). In samples obtained from the homeplate area of the school's ballfield, hexachloracyclohexane contamination was found (Ref. 3). Contamination of school soils by trichlorobenzene and tetrachlorobenzene has been reported by NYSDEC (Ref. 2).

Sediments in the storm sewers adjacent to the school and in Bergholtz Creek have been tested. Benzene, toluene, and gamma - BHC have been detected in sediments in Bergholtz Creek near the site. However, the levels did not exceed concentrations measured in upstream samples (Ref. 7). Gamma - BHC, with a concentration of 79 ug/kg, was detected in sediment in a storm sewer on 93rd Street (Ref. 7). Sediment in a storm sewer discharging from the school area into Bergholtz Creek was found to contain 29 ppb of dioxin (Ref. 3).

#### 6.0 ADEQUACY OF AVAILABLE DATA

In compiling the Hazard Ranking Score, the 93rd Street School was found to have a score for Sm equal to 25.3. 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 25 to 30. These data inadequacies are as follows:

- o The horizontal extent and thickness of the fill layer has not been established for the entire site.
- o The thickness (i.e. total volume) of top soil overlying the fill layer over the entire site is uncertain.
- o The impact of contaminants on groundwater quality in the bedrock aquifer has not been determined.
- The effect of contamination from the 93rd Street School fill on water and sediments in Bergholtz Creek and adjacent storm sewers has not been differentiated from impacts arising from other Love Canal sources.
- o The possible, direct exposure, effects on people using the school grounds are uncertain.

#### 7.0 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.
- The data inputs necessary to effectuate the development and recommendation of cost effective remedial actions.

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

### 7.2 Preliminary Field Investigation

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 Air Monitoring
- o Subsurface Investigation
- o Surface Water and Sediment Testing

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).

Air Monitoring - Prior to implementation of the 7.2.1 various field investigative techniques associated with this element, an initial site screening will be conducted using a Century Organic Vapor Analyzer (OVA) and/or an HNU photoionizer. Based upon described site characteristics, Recra team personnel engaged in this activity will enter the site equipped with Level 3 respiratory protection. grid pattern will be established at the site and readings taken and recorded at each grid point. This survey will determine the initial level of protection necessary for workers' safety. In addition, upgradient and downgradient air monitoring stations will be established. If the results are indicative of air quality problems, additional

testing will be initiated at specified distances away from the site.

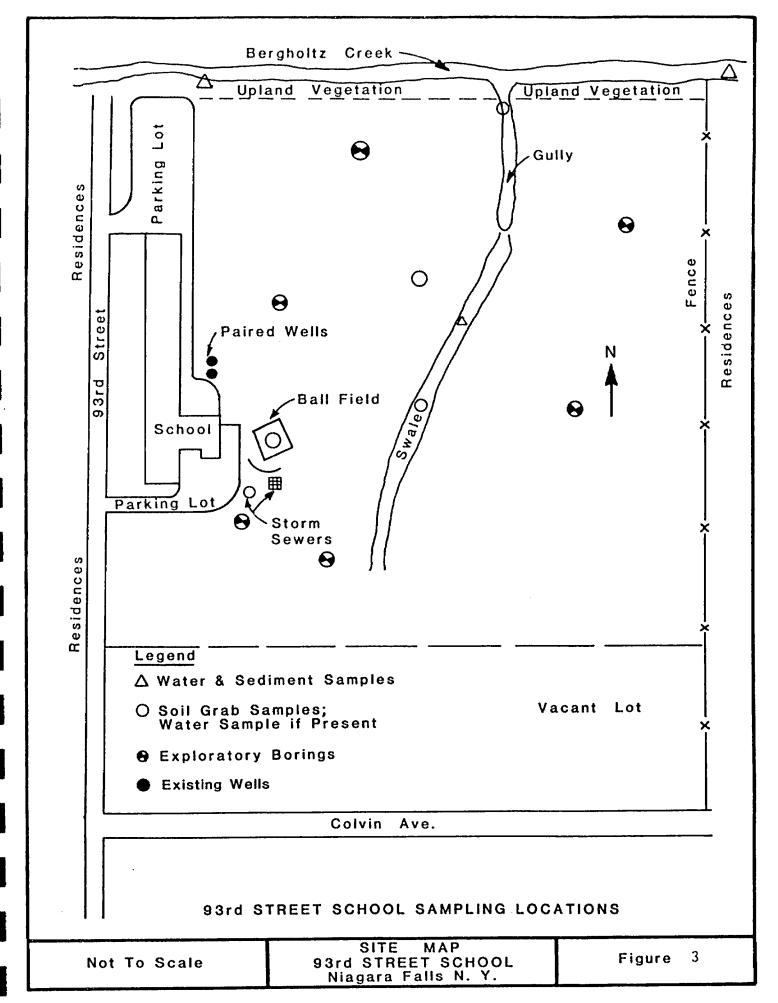
During actual field investigative work, ambient and worker air monitoring will be conducted periodically using appropriate instrumentation, such as the photoinoizer and/or OVA. When deemed necessary from actual readings, the level of respiratory protection will be adjusted to meet existing conditions. All disposable equipment necessary for worker safety will be placed daily into covered on-site drums provided by Recra, and removed from the site and disposed of either upon reaching full capacity or upon completion of all field work.

7.2.2 Subsurface Investigation - To the extent possible, monitoring wells already in existence will be used. During the site visit one pair of monitoring wells were located. Possibly up to three more pairs of wells are located on, or in close proximity to the school property (Ref. 7). Attempts will be made to secure the boring logs for these and any other wells and/or exploratory drillings made in the vicinity of the site. Permission will be sought from the U.S. Environmental Protection Agency (and other responsible parties) to sample the existing monitoring

wells. At this time, the installation of new monitoring wells is not considered necessary.

To determine the horizontal and vertical extent of soil contamination, Four (4) shallow test borings with continuous split spoon sampling will be installed at locations shown on the accompanying site map. Each will have a carbon steel monitoring well emplaced screen above the clay layer, if present. If no clay layer is encountered, each will be screened just below the first encountered water bearing zone. Each well is estimate at 15 feet. Two (2) additional deeper borings will be made at locations specified on the site map. Each will be 35 feet deep and a monitoring well installed in the upper bedrock. The samples will be collected using a bucket auger, hand corer or an Samples will be collected at equivalent technique. each new strata and at one-foot intervals. Soil analyzed will be archived by samples not Research, Inc. All field activities will be under the direct supervision of a qualified geologist and/or hydrogeologist. Due to sampling method limitations, the soil sampling will be conducted during dry weather See Figure 3 for sampling locations conditions. and Table 1 for parameters.

7.2.3 Sampling and Analysis - The procedures to be used in sampling ground and surface waters and sediments are described below. 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.



#### TABLE 1

#### Parameter List 93rd Street School, Niagara Falls, NY

рΗ

Specific Conductance

Chloride

Sulfate

Total Organic Carbon

- + Cadmium
- + Chromium (Total)
- + Chromium (Hexavalent)
- + Copper
- + Iron
- + Lead
- + Mercury
- + Nickel
- + Silver
- + Zinc
- + Polychlorinated Biphenyls (PCB)
- + Halogenated Organic Scan (HOSE)
- + BTX Scan (Benzene, Toluene, Xylene)
- Chlorobenzenes
- + Chlorotoluene
- + BHC's
- + Trichlorophenol

Dry Weight (soils only)

Dioxin (subcontracted and not included in price)

Indicates analyses also performed on soils

7.2.4 <u>Groundwater</u> - From the water levels within the existing 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 acquisition of the samples will be accomplished with an Isco Model 1580 peristalitic pump, using separate

low-density polyethlene 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, labeled, chilled and immediately returned to Recra's Tonawanda, New York laboratory for preservation and analysis of various chemical parameters.

7.2.5. 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 distribution (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 the 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 and to establish the veritical and horizontal extent of soil contamination. Samples from the top soil, fill layer (if present), and each new strata of overburden encountered during the test boring excavation will be tested. Additionally, samples from each foot of unconsolidated deposit excavated will be archived by Recra Research and maintained for 6 months after the completion of this project.

7.2.6 Surface Water - The sampling of surface water will entail collecting water and sediments form Bergholtz Creek and the two storm sewers on the school playground. Sediments from the gully discharging into

Bergholtz Creek will also be collected. Water, if present, from the gully will be sampled. Two water samples will be obtained from Bergholtz Creek. One will be upstream of the site, the other at the downstream edge of the school property. The samples will be obtained using a pond sampler with separate sampling bottles designated for each sampling location. The same procedure as previously described for groundwater will be followed after acquisition of the surface water sample and the samples will be analyzed for the parameters listed. The storm sewers will be sampled in the same manner.

Since the possibility exists that contaminated water from the site discharges into the adjacent stream as a slug after storm events, and may not be contributing to degradation of the stream during the sampling interval, two (2) stream sediment samples will also be obtained and analyzed for the parameters listed. These samples will be obtained at the same locations as the water samples, as indicated on the attached site drawing. The samples will be collected using a 2 foot gravity type sampler. In addition, grab samples of sediments from the gully and the storm sewers will be obtained. All soil and sediment samples will be

placed in pre-cleaned, teflon-lined, screw capped glass jars, labelled, chilled, and returned to Recra for analysis. To avoid cross-contamination of the sediment samples, the core tube will be cleaned with water acetone, and distilled water between sample locations.

- 7.2.7 Chemical Analytical Methods The procedure 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 and Welfare,
  - Standard Methods for the Examination of Water and Wastewater, 14th Edition, APHA, AWWA, WPCF.
- 7.2.8 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 is referred to a document previously submitted by Recra Research, Inc. to NYSDEC, entitled, "Operation Manual - Field and Analytical Services."

- 7.2.9 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:

- o <u>HRS Score</u> 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.
- o Background
- o Summary of Project Activities
- o <u>Identification and Evaluation of Remedial</u>
  Alternatives
- o Recommendations
- o Appendix Complete Site Data Base

### 7.3 Estimated Cost

The estimated cost per individual element of the preceding scope of work are listed as follows.

0	Subsurface Investigation	\$11454.42
0	Analysis	12197.00
0	Engineering Evaluation & Report	5868.70
	TOTAL COST	\$29520.12

#### APPENDIX A

#### DATA SOURCES AND REFERENCES

- 1. Morris, Richard, Director of Love Canal Revitilization Agency, personal interview, 6/3/83.
- Knowles, G.D. and R. Tramontano, "NYS Dept. of Environmental Conservation Hazardous Waste Disposal Sites Report", 4/16/80.
- 3. NYS Department of Health, "Love Canal A Special Report to the Governor and Legislature", April 1981.
- 4. U.S. Geological Survey, "Tonawanda West, New York, Topographical Quadrangle," 1965.
- 5. Kindle, E. and F. Taylor, "Niagara, New York", Geol. Atlas of the United States, U.S. Geol. Survey, Folio 190, 1913.
- 6. Johnston, R. H., "Groundwater in the Niagara Falls Area, New York", N.Y. Water Res. Comm. Bull. 6W-53, 1964.
- 7. U.S. Environmental Protection Agency, "Environmental Monitoring at Love Canal, Vol. I (EPA-600/4-82-030a) and Vol. II (EPA-600/4-82-0306)", May, 1982

- 8. N.Y.S. Division of Water Resources, "New York Water Classifications and Quality Standards, Chapter X, Article 2, Parts 700-704", 9/1/78.
- 9. N.Y.S. Division of Water Resources," Chapter X, Article 8, Part 835

  Lake Erie Niagara River Drainage Basin Series", 10/15/66.
- 10. Niagara Falls Dept. of Planning and Development, "Zoning Map of the City of Niagara Falls," 2/2/70
- 11. Batcheller, G., N.Y.S. Department of Environmental Conservation Region 9, Telephone Conversation, 6/1/83.
- 12. Recra Research, 93rd Street School Site Visit, 6/3/83.
- 13. E.C. Jordan, Co., "Task V: Three Year Groundwater and Surface Water Monitoring Program Love Canal Area and Vicinity, Niagara Falls, New York", prepared for NYSDEC, 1/3/83.
- 14. U.S. Department of Commerce, National Climatic Center, "Climatic Altas of the United States", 1979.
- 15. U.S. Bureau of Census, "1980 Census of the Population", March 1981.
- 16. Town of Niagara Town Board, "Zoning Map of the Town of Niagara, Niagara County, New York," 3/14/78.

17. Krehbiel Associates, Inc. "Zoning Map of the Town of Wheatfield, Niagara County, New York", 10/4/82.

#### APPENDIX B

### HAZARDOUS WASTE DISPOSAL SITE REPORT

#### REVISED

Code: A

Site Code: 9-32-078

Name of Site: 93rd Street School

Region: 9

County: Niagara

Town/City: (C) Niagara Falls

Street Address: 93rd Street

#### Status of Site:

- In 1954,, the Niagara Falls Board of Education contracted to have 3,000 cubic yards of fly ash and BHC hauled from Love Canal for fill at the 93rd Street School. Subsequently, the fill was covered by approximately 3 feet of topsoil and the site was landscaped to direct surface run-off northward towards Bergholtz Creek.
- o The school was closed by the Board of Education in 1980.
- o The site is located within a residential section of Niagara Falls.
- o Benzene, toluene, BHC, lindane, and dioxin have been detected in on-site soil and groundwater and off-site storm sewers, surface waters, and sediments. Past investigations have failed to differentiate off-site impacts of the 93rd Street School site and other Love Canal sources.
- o No measures have been taken to cap or seal the site; to provide containment; or to remove contaminated material from the site.

 Public has unlimited access to site and adjacent bodies of surface water.

Type of Site: Landfill

Estimated Size: Extent of fill area on schoolgrounds not known.

Hazardous Waste Disposal: Confirmed

Type and Quantity of Hazardous Wastes: 3,000 cubic yards of fly ash and BHC cake from Love Canal

Present owner: Niagara Falls Board of Education

Address: Superintendent of Schools 607 Walnut Avenue, Niagara Falls,
New York

Time Period Site Was Used for Waste Disposal: 1954

Site Status: Inactive

Type of Samples: Soil, Surface Water, Groundwater

Remedial Action: None

Status of Legal Action: None

Permit Issued: None

Assessment of ENvironmental Problem: Contamination of on-site soil and groundwater has occurred. Possible contamination of off-site surface waters, storm sewers, groundwaters, and soil and sediments.

Assessment of Health Problems: Possible exposure of public using the site and adjacent surface water bodies to contaminants. May impact (though extremely limited when compared to other contamination sources) on the City of Niagara Falls drinking water supplies.

Person completing this form: Kevin C. Owen, Recra Research, Inc.

Date: June 3, 1983

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