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PFOHL BROTHERS LANDFILL

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

PFOHL BROTHERS LANDFILL NEW YORK STATE SUPERFUND PHASE I SUMMARY REPORT

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1.0 EXECUTIVE SUMMARY

The Pfohl Brothers landfill is located on Aero Drive in Cheektowaga, New York occupying approximately 120 acres of land. Inactive since 1971, the site received municipal and industrial waste during its twenty-five (25) years of operation. The amount of waste disposed of is undetermined. The landfill area is now heavily vegetated although past landfill activity is perceivable.

The topography of the area shows little relief and is in the 100 year flood plain zone. The north section of the study area is designated as protected wetland. Within the region is Aero Lake; created as a result of excavation for cover material. This lake is spring fed and supportive of fish propagation. Aero Lake is drained by intermittent streams and ditches along the north area.

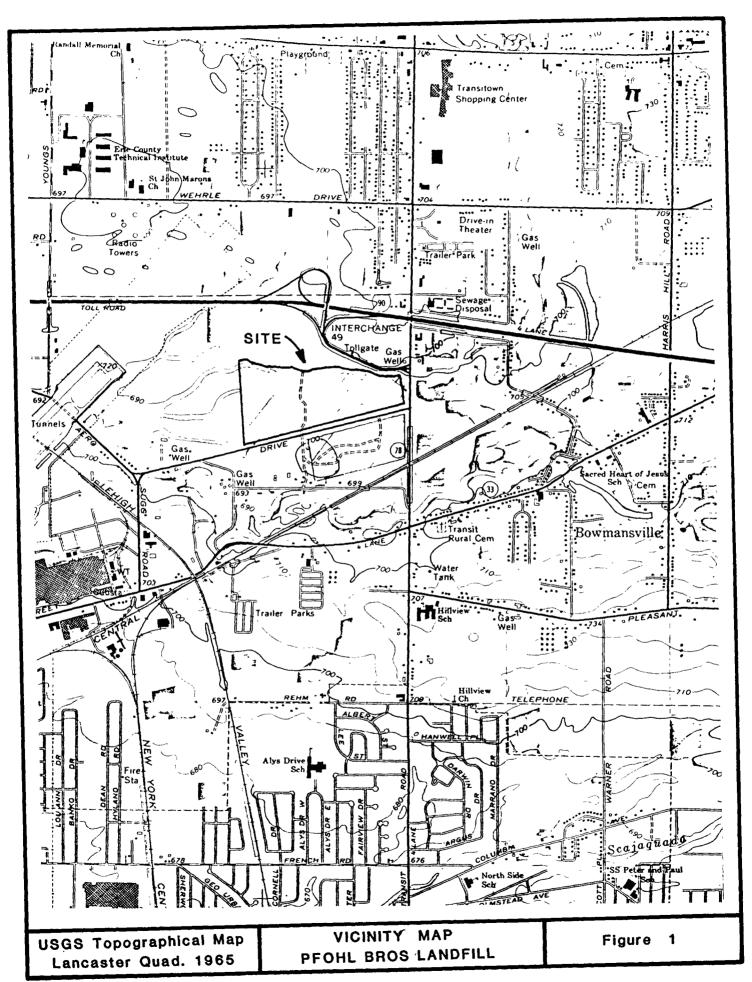
Since the closing of the Pfohl landfill, infrequent sampling has taken place. Sampling results indicate a potential environmental impact on the residents and wildlife of the area. The residences immediatley surrounding the site are dependent on groundwater, areas beyond a quarter $(\frac{1}{4})$ mile radius are supplied by public water.

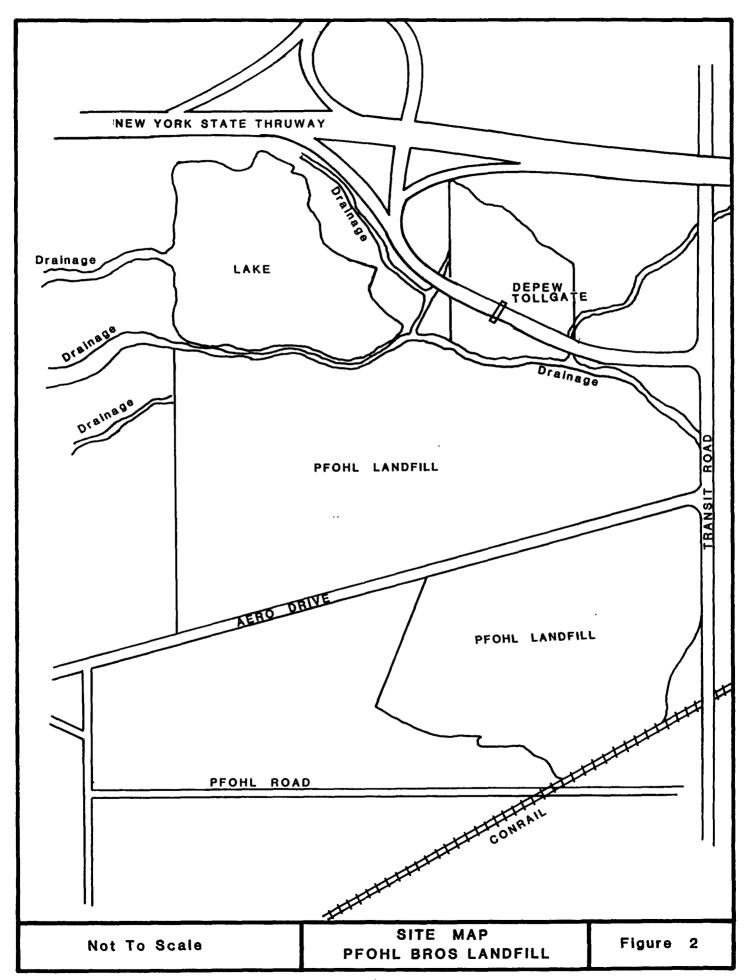
2.0 SITE DESCRIPTION

Located in the town of Cheektowaga, Erie County, New York the Pfohl Brothers landfill was operated from 1946 to 1971. The site has been owned and operated by the Pfohl family since 1946. One hundred and twenty (120) acres was utilized for the landfilling of municipal waste from surrounding townships and industrial wastes from American Optical, Westinghouse, Hooker-Durez and New York State Electric and Gas. The quantity of waste disposed of could not be determined.

Past site inspections have reported: leachate outbreaks along ditches which drain into Ellicott Creek; leachate flowing into wetlands on the west side of site; refuse protruding from areas where cover material has slumped; and, 55-gallon drums containing a tar-like substance.

Analytical testing of soil and surface water has been conducted sporadically from the time of closure. The most recent testing occurred in 1982 by the Fred C. Hart Associates of New York.





3.0 PRELIMINARY HAZARD RANKING SYSTEM SCORE

Fac≰ity name:	Pfohl Brothers Landfill
Location:	Aero Drive, Cheektowaga, N.Y.
EPA Region:	2
_	of the facility: Pfohl Brothers Brian Pfohl
	Lancaster Stone Products
	632–1020
General description	Recra Research, Inc. Date: 6-3-83 of the facility: ffill, surface impoundment, pile, container; types of hazardous substances; location of the
	on route of major concern; types of information needed for rating; agency action, etc.)
The Pfo	hl Brothers landfill operated from 1946 to 1971 with the ma-
jority of la	andfilling occurring in the 1960's. The landfill is known
to have rec	eived municipal waste as well as industrial waste. Soil and
water analys	ses indicate a migration of pollutants which can be
attributed	to the landfill.
Scores: S _M = 29.	$6 (S_{gw} = 47.8 S_{sw} = 17.6 S_a = \bullet)$
S _{FE} = (Range: 21.6 to 31.6

FIGURE 1 HRS COVER SHEET

Brian Pfohl Lancaster Stone Products 632-1020

	Ground Water Route Work Sheet									
	Rating Factor		Assigned Value (Circle One)	Multi plier	1 Score	Max. Score	Ref. (Section)			
1	Observed Release	2	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 Characteris Depth to Aquifer		0 1 2 3	2	Ь	6	3.2			
	Net Precipitation Permeability of t Unsaturated Zo	he	0 1 ② 3 0 1 ② 3	1	2 2					
	Physical State		0 1 2 🚳	1	2	3				
			Total Route Characteristics Sco	re .	13	15				
3	Containment		0 1 2 🔇	1	3	3	3.3			
4	Waste Cnaracteris Toxicity/Persiste Hazardous Waste Quantity	ence	0 3 6 9 12 15 (B) 0 1 2 3 4 5 6 7	1 8 1	18 3	18 8	3.4			
			Total Waste Characteristics Sco	re	21	26				
5	Targets Ground Water U Distance to Near Well/Population Served	rest	0 1 2 3 0 4 6 8 10 12 16 18 20 24 30 32 35 40	3 1	9 20	9 40	3.5			
,	1	· · · · · · · · · · · · · · · · · · ·		····	1					
			Total Targets Score		29	49				
6			1 x 4 x 5 2 x 3 x 4 x 5		27405	5 57,330				
7	Divide line 6 b	y 57,330 a	and multiply by 100	Sgw =	47.8	3				

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	45	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 Characteris Facility Slope an		ning 0 1 2 🔇	1	3	3	4.2			
	1-yr. 24-hr. Rainf Distance to Near Water		0 ① 2 3 ace 0 1 2 ③	1 2	6	3 6				
	Physical State		0 1 2 🛈	1	3	3				
			Total Route Characteristics Score		13	15				
3	Containment		0 1 2 3	1	3	3	4.3			
4	Waste Characterist Toxicity/Persiste Hazardous Waste Quantity	ence	0 3 6 9 12 15 (18) 0 1 2 (3) 4 5 6 7 8	1 1	18	18 8	4.4			
			Total Waste Characteristics Score		21	26				
5	Targets Surface Water Use Distance to a Se Environment Population Serve to Water Intake	nsitive	} 12 16 18 20	3 2 1	660	9 6 40	4.5			
	Downstream		7 24 30 32 35 40 Total Targets Score		12	55				
			1 × 4 × 5 2 × 3 × 4 × 5		11340	64,350				
7	Divide line 6 by	64,350 a	and multiply by 100	S _{sw} =	17.6					

FIGURE 7
SURFACE WATER ROUTE WORK SHEET

	Air Route Work Sheet													
	Rating Factor			ssign (Circl			e				Multi- plier	Score	Max. Score	Ref. (Section)
0	Observed Release		0			4	5				1	0	45	5.1
	Date and Location:					-								
	Sampling Protocol:													
	If line 1 is 0, the	S _a = 0. en proce				•								
2	Waste Characteristic	s									_		_	5.2
	Reactivity and Incompatibility		0	1 2	3						- 1		3	
l	Toxicity Hazardous Waste		0	1 2 1 2	3		E	•	7		3 1		9 8	
	Quantity		U	1 2	3	4	J	ь	′	0	•		В	!
														l .
		т	otal Was	le Chi	arac	teris		s S	core	• •			20	
131	Targets											1		5.3
	Population Within			9 12		18					1		30	3.5
	4-Mile Radius		J 21 2	24 27 1 2							•		•	
	Distance to Sensitiv Environment	/e	0	1 2	3						2		6	
	Land Use		0	1 2	3						1		3	
			Tot	al Tar	get	s Sc	ore						39	
4	Multiply 1 x 2	x 3											35,100	
[5]	Divide line 4 by 3	35,100 an	nd multipl	y by	100						Sa=			

FIGURE 9
AIR ROUTE WORK SHEET

	s	s²
Groundwater Route Score (Sgw)	47.8	2284.8
Surface Water Route Score (S _{SW})	17.6	309.8
Air Route Score (Sa)	0	0
$s_{gw}^2 + s_{sw}^2 + s_a^2$		2594.6
$\sqrt{s_{gw}^2 + s_{sw}^2 + s_a^2}$		50.9
$\sqrt{s_{gw}^2 + s_{sw}^2 + s_a^2} / 1.73 = s_M =$		29.4

FIGURE 10 WORKSHEET FOR COMPUTING S_M

		Fire	and	Ex	plo	\$101	n W	ork	Sheet				
Rating Factor		Assigned Value Multi- (Circle One) plier							Multi- plier	Score	Max. Score	Ref. (Section)	
Containment		1					3			1		3	7.1
Waste Characteris Direct Evidence Ignitability Reactivity Incompatibility Hazardous Waste Quantity			1 1 1	2 2	3 3	4	5	6	7 8	1 1 1 1		3 3 3 3 8	7.2
		Total Was	ste	Cha	ırac	teri	stic	s Sc	core			20	
3 Targets Distance to Near	est	0	1	2	3	4	5			1		5	7.3
Population Distance to Near	est	0	1	2	3					1		3	
Building Distance to Sens	sitive	0	1	2	3					1		3	
Environment Land Use		0	1	2	3					1		3	
Population Withir 2-Mile Radius	1	0	1	2	3	4	5			1		5	
Buildings Within 2-Mile Radius		0	1	2	3	4	5			1		5	
	·												
		To	lai '	Targ	ets	s So	core	 ;				24	
4 Multiply 1 x	2 × 3											1,440	
5 Divide line 4 b	y 1,440 ar	nd multiply	y b	y 10	0					SFE =	N/A	•	

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	() 45	1	0	45	8.1
	If line 1 is 45, proceed if line 1 is 0, proceed in	_				
2	Accessibility	0 1 2 🕄	1	3	3	8.2
3	Containment	0 🔞	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 0 1 2 3	4	8	20 12	8.5
	Il line III in 45 multiplu	Total Targets Score		20	32	
	If line 1 is 45, multiply If line 1 is 0, multiply [1 x 4 x 5 2 x 3 x 4 x 5	Į.	3500	21,600	
7	Divide line 6 by 21,600	and multiply by 100	S _{DC} =			

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 NA	ME: Pfohl	Bros. Landfill	
LOCATION:	Aero I	Drive, Cheektowaga,	N.Y.

GROUND WATER ROUTE

I OBSERVED RELEASE

Contaminants detected (5 maximum):

PCB'S LEAD AS (ARSENIC) Cr (CHROMIUM+6+3)

MERCURY (H9)
Rationale for attributing the contaminants to the facility:

THE CONTAMINANTS LISTED ABOVE MAY BE FOUND IN WASTES LISTED BY INTERAGENCY REPORT 3/79. (REF.1)

2 ROUTE CHARACTERISTICS

Depth to Aquifer of Concern

Name/description of aquifers(s) of concern:

AQUIFER IS IN THE BEDROCK \$50-60FT THICKNESS OF BED.

ONONDAGA FORMATN. (REF. 3 & REF. 7)

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

ONONDAGA OUTCROPS ~ 1000' NO. OF SITE ON WHERLE. DR.

AND 1000' NO. OF SITE ALONG THE THRUWAY. BEDROCK

DEPTH ON PEOHL ROAD WAS LOCATED TO BE 13.5FT.

(REF.3)

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

WASTE STORAGE/DISPOSAL IS AT GROUND LEVEL FOR NORTHERN SITE. THE SOUTHERN AREA HAS SHALLOW DITCHES FOR DISPOSAL. NO RECORDED DEPTH AVAILABLE. (REF. 3)

Net Precipitation

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

32 (HRS)

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

27 (HRS)

Net precipitation (subtract the above figures):

5

Permeability of Unsaturated Zone

Soil type in unsaturated zone:

SCS LISTS THE SOIL AS DUMP THE ADJACENT SOILS ARE SILTY LOAM TO A FINE SANDY LOAM (REF. 3)

Permeability associated with soil type:

2 <10⁻³ > 10⁻⁵ CM/SEC (HRS)

Physical State

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

PHYSICAL STATE OF SUBSTANCES WERE: LIQUIDS, SLUDGES AND SOLIDS. (REF. 1)

* * *

3 CONTAINMENT

Containment

Method(s) of waste or leachate containment evaluated:

LANDFILL - NO LINER, PONDING, NO SURFACE COLLECT'N SYSTEM.

DRUMS - NO LINERS, BREACHED DRUM

(REF.8)

Method with highest score:

3-BOTH METHODS

4 WASTE CHARACTERISTICS

Toxicity and Persistence

Compound(s) evaluated:

PHENOL TAR W/CHLORINATED BENZENES	3	1	
WASTE PAINTS THINNERS	2	1	(REF. Z)
CAPACITORS (W/PCB) DIOXIN'S Compound with highest score:	3 3	3 3	

PCB'S 18

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):

3 THE ONLY DOCU. AMT OF WASTE IS THE 125 TONS OF PHENOL TAR

Basis of estimating and/or computing waste quantity:

TASK FORCE 3/79 DATA (REF. Z)

5 TARGETS

Ground Water Use

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

GROUNDWATER IS USED AS A SOLE DRINKING WATER SUPPLY IN A RADIUS OF APPROXIMATELY A QUARTER MILE OF THE FACILITY (REF. 5)

Distance to Nearest Well

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

RESIDENCES OF A. JABLONSKI > PFOHL RD (REF. 3)

Distance to above well or building:

4 ≈ 4mi (REF.3)

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:

THE POP IS SERVICED BY MUNCIPAL H₂O. ONLY THOSE ON PFOHL RD (49.4), SCOTT RD (7.6), REIN RD (30.4); AERO DR(22.6)

YOUNG RD (7.6). TOTAL POP. 117.8 (REF. 9)

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):

X

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

20 117.8

SURFACE WATER ROUTE

I OBSERVED RELEASE

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

ARSENIC MERCURY LEAD

Rationale for attributing the contaminants to the facility:

REF. I

2 ROUTE CHARACTERISTICS

Facility Slope and Intervening Terrain

Average slope of facility in percent:

0% (REF. 9)

Name/description of nearest downslope surface water:

A SMALL LAKE LOCATED TO THE NORTH OF LANDFILL IS <50' AWAY. IT IS = 20' DEPTH AND IS SPRING FED. THE LAKE IS A RESULT OF EXCAVATION OF MAT'L FOR LANDFILL COVER. (REF. 3)

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

41%

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

SITE LOCATED PARTIALLY IN PROTECTED WETLANDS. (REF. 4)

Is the facility completely surrounded by areas of higher elevation?

NO -

1-Year 24-Hour Rainfall in Inches

2" (HRS)

Distance to Nearest Downslope Surface Water

< 1000'

Physical State of Waste

PHYSICAL STATES OF SUBSTANCES WERE: LIQUIDS, SLUDGES AND SOLIDS (REF.1)

3 CONTAINMENT

Containment

Method(s) of waste or leachate containment evaluated:

LANDFILL - NO LINER, NO LEACHATE COLLECT'N SYSTEM

DRUMS - NO LINER, BREACHED (REF. 8)

Method with highest score:

3-BOTH

4 WASTE CHARACTERISTICS

Toxicity and Persistence

Compound(s) evaluated

PHENOL TAR W/CHLORINATED
BENZENES

WASTE PAINTS CAPACITORS (W/PCB)

Compaind with highest score:

PCB'S 18

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):

3 125 TONS PHENOL TOUR

Basis of estimating and/or computing waste quantity:

REF. I

* * *

5 TARGETS

Surface Water Use

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

ELLICOTT CRK-IS CLASSED AS "C".

Z AERO LAKE - AREA IS POSTED. HOWEVER
PEOPLE USE LAKE FOR FIGHING & BOATING.

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 I mile or less:

3 < 4 m (REF 9 & REF. 4)

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

20

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:

THE WATER INTAKES ARE SITUATED IN THE NIAGARA RIVER. THE NIAGARA R. IS MORE THAN 3 MI AWAY FROM SITE. THE INTAKES SERVICE > 10,000 PERSONS. (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:

>10,000 (REF.5)

Name/description of nearest of above water bodies:

NIAGARA RIVER - DRAINS LAKE ERIE TO LOKE ONTARIO.

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

>3mi. (REF.9)

1 OBSERVED RELEASE

Contaminants detected:

NONE DETECTED

Date and location of detection of contaminants

N/A

Methods used to detect the contaminants:

NA

Rationale for attributing the contaminants to the site:

NA

* * *

2 WASTE CHARACTERISTICS

Reactivity and Incompatibility

Most reactive compound:

NA

Most incompatible pair of compounds:

NA

Toxicity

Most toxic compound:

Hazardous Waste Quantity

Total quantity of hazardous waste:

Basis of estimating and/or computing waste quantity:

* * *

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

Distance to a Sensitive Environment

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

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

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

Land Use

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

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

Distance to residential area, if 2 miles or less:

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

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

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

POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT PART 1 - SITE INFORMATION AND ASSESSMENT 1. IDENTIFICATION O1 STATE 02 SITE NUMBER NY 915043								
II. SITE NAME AND LOCATION 01 SITE NAME (Legal, common, or descriptive name of site)		02 6795	7 50,175,110 00	S COFOIE O COLTO	UDENTICIED			
PFOHL BROTHERS LANDFILL		02 STREET, ROUTE NO, OR SPECIFIC LOCATION IDENTIFIER AERO DRIVE						
OS CHEEKTOWAGA			05 ZIP CODE 14225			07COUNTY 08 CONG CODE DIST		
09 COORDINATES LATITUDE LONGITUDE 42°56'45" 18°42'								
10 DIRECTIONS TO SITE (Staning from nearest public road) RT 33 TO SUGG RO, TU BEARING EAST. SITE IS 2 APPO DR.	RN NOI	RETH E OA	ONTO S NORT	ugg RD. H & Sout	AT YI H SIDI	NTERSECTION E OF		
III. RESPONSIBLE PARTIES								
PFOHL FAMILY (BRIAN PFO	HL)		T (Business, mailing, ii)					
03 CITY		04 STATE	05 ZIP CODE	06 TELEPHON	NUMBER			
BFLO	-	KM	14221	(716)63:	2-1020			
07 OPERATOR (# known and different from owner)			T (Business, melling, i	residential)				
same as owner								
οθ CITY		10 STATE	11 ZIP CODE	12 TELEPHON				
☐ F. OTHER:(Specify)	Agency name)			TE DD.COUNTY		NICIPAL		
14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply) A. RCRA 3001 DATE RECEIVED: MONTH DAY YEAR B.	UNCONTROLL	ED WAST	E SITE ICERCIA 10	DATE RECEIV	ED: MONTH D	/ C. NONE		
IV. CHARACTERIZATION OF POTENTIAL HAZARD								
BY NO	🖸 B. EPA	CIAL I	ACTOR D	C. STATE	S O. OTHER	CONTRACTOR		
	EARS OF OPERA	TION						
A. ACTIVE BYB. INACTIVE C. UNKNOWN		946 EGINNING Y		G YEAR	☐ UNKNOW	N		
SITE IS KNOWN TO HA SUCH AS: PHENOL TAR W PAINTS ! THINNERS, CAPACIT	VE RE VCHLO ORS W	ECE RIN PCB	ATED E	NDUSTR BENZEN BSSIBU	ES, W	NASTES ASTE STE CONTAININ		
LOCATED DIRECTLY ADJA LAKE IS USED BY LOCAL RI RESULT THESE RESIDENTS USE MUDFILL FOR ACCESS TO THE	CENT ESIDEN ED TRA	THE UTS ULS	SITE FOR FI WHICH	IS AER SHING & RUN T	SWIHH SWIHH HBUSH	LE. THIS TING, AS A THE		
V. PRIORITY ASSESSMENT 01 PRIORITY FOR INSPECTION (Check one Il high or medium ill checked, complete	Part 2 . Wasta fria-	mation and o	ad 3 . Description of 4	Azardous Condenne cod t				
	C. LOW (Inspect on time		D. NO			stion formj		
VI. INFORMATION AVAILABLE FROM						`		
01 CONTACT 02	OF (Agency/Organiza		SEAR	CH, INC		03 TELEPHONE NUMBER (716) 838-6200		
	AGENCY	06 ORG	ANIZATION CRA	07 TELEPHO	NE NUMBER 38-6200	08 DATE		

50	١

POTENTIAL HAZARDOUS WASTE SITE

	I, IDENTIFICATION						
1	01 STATE	02 SITE NUMBER					
	NY	915043					

WE	A			ASSESSMENT EINFORMATION		NY 915	043
II. WASTE S	TATES, QUANTITIES, AN	ID CHARACTER	ISTICS				
01 PHYSICAL S	C E SLURRY R, FINES OF LIQUID E GAS	02 WASTE QUANT [Measures of must be TONS CUBIC YARDS	ITY AT SITE of waste quantities macpendenty	03 WASTE CHARACT TA TOXIC B CORRO C RADIOA TE D PERSIS	ACTIVE SE FLAM	THIGHLY THOUS DI EXPLOS MABLE K REACTI	SIVE VE PATIBLE
	(Specify) .	NO OF DRUMS		l			
III. WASTE T			1	T	1		
CATEGORY	SUBSTANCE N	AME	01 GROSS AMOUNT	02 UNIT OF MEASURE		0-1004	
SLU OLW	SLUDGE OILY WASTE			ーー・ テ	T	SEVERAL	
SOL	SOLVENTS		 			E BEEN R	
PSD	PESTICIDES					DISPOSET	
occ	OTHER ORGANIC CH	JEMICAL S				. NO QUAI	
IOC	INORGANIC CHEMIC			<u> </u>	HAVE DE	EN ESTIF	MIED
ACD	ACIDS	ALG	<u> </u>		<u> </u>		
BAS	BASES		 				
MES	HEAVY METALS		<u> </u>				
IV. HAZARD	OUS SUBSTANCES (S.O. A)	ppendix for most frequen	lly cried CAS Numbers)	<u> </u>	<u> </u>		
01 CATEGORY	02 SUESTANCE N		03 CAS NUMBER	04 STORAGE/DIS	POSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
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V. FEEDSTO	CKS (See Appendix for CAS Number	ors)					
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VI. SOURCES	OF INFORMATION ICA.	specilic references, e.g.,	, state files, sample analysis, r	eports)			
F	REFORT: INTE	eragen(cy task	FORCE	3/79	<u>*</u> .	

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POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

PART 3 - DESCRIPT	TION OF HAZARDOUS CONDITIONS AND INCIDENTS NY 915043
II. HAZARDOUS CONDITIONS AND INCIDENTS	TOTAL TIREATE OUT ON THE TOTAL THE T
01 LE A. GROUNDWATER CONTAMINATION	02 DOBSERVED (DATE) DOTENTIAL DALLEGED
03 POPULATION POTENTIALLY AFFECTED == 1	04 NARRATIVE DESCRIPTION
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VISITS.	
01 C. CONTAMINATION OF AIR	02 OBSERVED (DATE) POTENTIAL ALLEGED
03 POPULATION POTENTIALLY AFFECTED	
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N	O ANALYTICAL RESULTS AVAILABLE
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01 D. FIRE/EXPLOSIVE CONDITIONS	02 D OBSERVED (DATE) D POTENTIAL D ALLEGED
03 POPULATION POTENTIALLY AFFECTED.	
NO	REPORTS
01 D E. DIRECT CONTACT	02 OBSERVED (DATE:
03 POPULATION POTENTIALLY AFFECTED.	04 NARRATIVE DESCRIPTION
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01 Tof. CONTAMINATION OF SOIL	02 OBSERVED (DATE:) POTENTIAL ALLEGED
03 AREA POTENTIALLY AFFECTED: 120	O4 NARRATIVE DESCRIPTION
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TRESPOCE OF/CON	REF.10
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03 WORKERS POTENTIALLY AFFECTED:	04 NARRATIVE DESCRIPTION
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POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT

I. IDENTIFICATION 01 STATE 02 SITE NUMBER

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	V SOURCES OF INFORMATION CO.			

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POTENTIAL HAZARDOUS WASTE SITE

	I. IDENT	IFICATION
	01 STATE	02 SITE NUMBER
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04 PERSON RESPONSIBLE FOR SITT	E INSPECTION FORM	US AGENCY	CE CAGANZATION	07 TELEPHONE NO.	06 DATE	
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POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 2- WASTE INFORMATION

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		915043

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POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

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PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

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II. HAZARDOUS CONDITIONS AND INCIDENTS				
03 POPULATION POTENTIALLY AFFECTED	62 LI OBSENVED (DATE)	D POTENTIAL	D ALLEGED
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01 D.G. DRINKING WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED	02 TOBSERVED (DATE) C4 NARRATIVE DESCRIPTION		⊇ POTEI/TIAL	Z ALLEGED
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POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

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HAZARDOUS CONDITIONS AND INCIDENTS 4				
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COMMENTS				
SOURCES OF INFORMATION (Considering information in position)	sample analysis reports .			
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POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION

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POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

L IDENTIFICATION NY 915043

PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA VI. ENVIRONMENTAL INFORMATION DI PERMEABILITY OF UNSATURATED ZONE ICAGE ON UZ FERMEABILLI T OF BELINAA DIA EMPERMEABLE DIB RELATIVELY IMPERMEABLE DIC RELATIVELY PERMEABLE DID VERY PERMEABLE 1 64 DEFIN OF CONTAMINATED SOIL ZUINE 105 SCHL pm ___tп. DO NET PHECHITATION -- I UT UTIE YEAR 24 HOUR HAINFALL OB SLOP: SITE SLOPE I DIRECTION OF SITE SLOPE , TERRAIN AVERAGE SLOPE FLUCUPUTENTOL DI SITE IS ON BARRIER ISLAND, COASTAL HIGH HAZARD AREA, RIVERINE FLOODWAY ____YEAR FLOODPLAIN SITE IS IN ___ 12 DISTANCE TO CRITICAL MABITAT for encompared appecas; 11 DISTANCE TO WETLANDS DE MIN ESTUARINE OTHER ____ (ml) в ___ ENDANGERED SPECIES _ __ (m) ___ (ml) DISTANCE TO _ ______ RESIDENTIAL AREAS NATIONALISTATE PARKS. FORESTS OR WILDLIFE RESERVES AGRICULTURAL LANDS --AGLAND PRIME AG LAND __COMMERCIAL TIDUSTRIAL _____ (··•; 14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY ·- - -- VII SOURCES OF IMPORMATION If an armode releience and state lies sample energia records

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

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EPA FORM 2070-13 (7-81)

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

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D4 DESCRIPTION			
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04 DESCRIPTION			
O1 D E. CONTAMINATED SOIL REMOVED	02 DATE	03 AGENCY	
- 04 DESCRIPTION			-
01 CLF. WASTE REPACKAGED 04 DESCRIPTION	02 DATE	03 AGENCY	
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POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 10-PAST RESPONSE ACTIVITIES

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01 E. U. GROUT CURTAIN CONSTRUCTES 04 DESCRIPTION	O2 UA1	O3 AGENC1		
O1 [] V. BOTTOM SEALED O4 DESCRIPTION	02 DATE	03 AGENCY		
01 D W. GAS CONTROL 04 DESCRIPTION	OZ DATE	D3 AGENCY		
01 D X FIRE CONTROL 04 DESCRIPTION	02 DATE	D3 AGENCY		
01 D Y. LEACHATE TREATMENT 04 DESCRIPTION	O2 DATE	O3 AGENCY		
01 D Z AREA EVACUATED 04 DESCRIPTION	O2 DATE	03 AGENCY		
01 D 1. ACCESS TO SITE RESTRICTED 04 DESCRIPTION	O2 DATE	03 AGENCY		
01 © 2. POPULATION RELOCATED 04 DESCRIPTION	02 DATE	O3 AGENCY		
O1 D 3 OTHER REMEDIAL ACTIVITIES D4 DESCRIPTION	O2 DATE	D3 AGENCY		

IIL SOURCES OF INFORMATION (Che specific inferences e.g. state fres sample analysis reports)



POTENTIAL HAZARDOUS WASTESITE

I. IDENTIFICATION

WELL.		SITE INSPECTION REPORT PART 11 - ENFORCEMENT INFORMATION		
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III. SOURCES OF INFORMATION (Consumers to energial organizations) sample at mean records.

EPA FORM 2070-13 (7-81)

4.0 SITE HISTORY

Little is known of the owners or land use prior to 1946 regarding the Pfohl Brothers site. From 1946 to 1971, the 120 acres of land owned by the Pfohl family was used for landfilling. The site accepted municipal and industrial wastes. The industrial wastes were identified through generators as: pine tar pitch, waste paints and thinners, waste cutting oils, oil contaminated Fuller's earth, phenol tar containing chlorinated benzenes, oil and capacitors with PCB's. No records were kept on the quanity of wastes received other than an estimate of the amount of phenol tar. This was estimated at 125 tons (Ref. 1).

Management practices of the landfill are generally unknown. However, in a previous site inspection field report, it was stated that pockets existed in the landfill which exposed contents possibly indicating poor compaction practices during operations (Ref. 6).

The northern section contains a man-made lake which was created as a result of excavation for cover material. The lake is spring fed; 40 acres in size, 20 ft. deep and supports a large trout population (Ref. 2). The lake and site surface water drain into Ellicott Creek via intermittent streams and drainage ditches along Transit Road, Conrail tracks and Aero Drive.

5.0 SITE DATA

5.1 Site Area Surface Features

5.1.1 Topography and Drainage - Topographically the site shows little relief (Ref. 9). The landfill is located in the 100-yr. flood plain of Ellicott Creek. The elevation of the actual site area has been raised approximately 3-4 ft. above normal elevation, which is 690 ft. (Ref. 8). The site is bisected into a northern and a southern section by Aero Drive, which runs east-west between Sugg Road and Transit Road.

The drainage for the site and Aero Lake is via ditches and intermittent streams to Ellicott Creek.

The north section of Pfohl Brothers lies within a protected wetland (See Figure 2).

5.1.2 Environmental Setting - The area surrounding Pfohl
Brothers is heavily populated. People living more
than a quarter mile from the site are serviced by
municipal water. Residents living approximately
1200 ft. from the site rely on groundwater as their

drinking water source. They are located on Scott Place, Aero Drive and Pfohl Road (Figure 3).

No endangered species are found in the area of concern, although, Aero Lake has a large fish population.

5.2 Hydrogeology

5.2.1 Geology - Located in the Erie-Niagara Basin, the bedrock is overlain by unconsolidated material of glacial origin consisting of till, glaciolacustrine and gravel deposits. The bedrock consists of Camillus Shale, Onondaga Limestone Akron and Dolomite which are of Silurian and Devonian age. The Camillus Shale contains beds of gypsum which are potential water bearers. The Onondaga Limestone is the most utilized unit for groundwater supply due to its yield. The bedrock is reported as dipping gently to the south at an average dip of 30-40 ft. per mile (Ref. 7). The bedrock underlying Pfohl Landfill is the Onondaga Limestone Formation, total thickness is 110 ft. The formation outcrops on Wherle Drive to the north.

The site lies within the physiographic province of Erie-Ontario lowlands.

- 5.2.2 Soil As stated earlier, the unconsolidated material is of glacial origin which is comprised of till, glaciolacustrine and gravel deposits. The surficial soil of the study area is classified as "dump" by the Soil Conservation Survey. The soils along the perimeter were classified as fine sandy loam and silt loam. These soils are typically poorly drained and tend to be of low permeability, 10^{-5} to 10^{-7} cm/sec.
- 5.2.3 <u>Groundwater</u> The aquifer of concern under the site appears to be the bedrock. As listed in the groundwater resources of the Erie-Niagara Basin, the wells surrounding Pfohl Brothers are drilled into bedrock. Both the Camillus and Onondaga Formations are water bearing units. However, water obtained from the Camillus Shale is reported to have naturally occurring hydrogen sulfide.

5.3 <u>Previous Sampling and Analyses</u>

5.3.1 Groundwater Quality Data - Samples of this nature

have been limited to the testing of privately owned wells. On May 15, 1980, the Erie County Health Department tested 10 neighboring wells. Location of these wells are depicted on Figure 3. It was found that groundwater wells downgradient contained trace levels of such contaminants as: PCB's, Silvex, Phenol and Heavy Metals. Results are presented in the following pages.

- Surface Water Quality Data Over the past two
 years, samples from leachate seeps and ditches along
 Aero Lake have been analyzed by Recra Research, Inc.
 for the NYSDEC, Fred C. Hart and Associates and the
 Erie County Health Department. Locations of these
 sampling points are shown on Figure 5. Results of
 these samples indicate a migration of contaminants
 which are of environmental concern. These results
 are presented in the following pages.
- 5.3.3 <u>Air Quality Data</u> No air quality analysis performed to date.
- 5.3.4 Other Analytical Data Soil contamination was evident from analyses performed by Recra Research,
 Inc. and Fred C. Hart Associates. The sampling points were located in the north and northwest

sections and collected from drainage ditches, leachate seeps and the wetlands (Figure 5). Detectable levels of PCB's, pesticides and heavy metals were found. These results are provided in in the following pages.

RESULTS OF EXAMINATION OF JATER

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1						
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fluorides		*************	(Cu)	Copper		
Mardness		*****	(Fe)	Iron		
Phenols		*	(10)	Iron-soluble		
Sulfates			(Pb)	Lead		
Free Ammonia	·· ·························		(110)	Hagnesium		
Free Ammonia Albuminoid Ammonia	 		(tin)	Hanganene		
Nitritos			(115)	Hercury		
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Potal Dissolved So	lids .		(z_n)	Zinc		
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Deptachlor epoxide						
Dieldrin						
Endrin						
DDT	-					
נותם						
DDE						
ile thoxyclilor						
lilrex	, 					
Toxaphene_	 					
2, 4-1)					•	
Getvek 2,4,5,-T	· · · · · · · · · · · · · · · · · · ·	0.2		11 / 13	1 10	
P.C.B. Aroclor 124	8	0.3		Same C	illalel.	
•			Kenne	th C. Wahl		
1			Sr. S	Janitary Chemic	it	
j.				-		

Joseph Pulco, DVII, IPII

Director

RESULTS OF EXAMINATION OF MATER

Tal matory Number	80-580	Sent by:	_ U.	Sienkiewicz		
datea: Collected_	6/23/80	Received:	6/2	4/80	Reported:	12/18/80
Tilaca :	Choektowaca				Country	limb a
Sampling Point:	Rollaway Ser	vice, 825 Ro	in Rd.	- Creek sou	rce of supply #/	
Name:			Tena	nt:		
r Physical examinati	OU •					
Color:		Airbidity.	11.111		Odor cold	
					odor, cord	
DUBLICAL EXAMINATI	ON:	$m_{\rm C}/1$				$m_{\rm H}/1$
p'l vulue			(g A)	Arsenic		
r and a little			(Bu)	Barium		
110 Jr VI 4 13 0			(00)	Cadiatan		
for rose			(CT)	CITOMILUM		
1 rides	·	****	(vu)	Obliner		
endinces.			(Fe)	iron		~~~~
illanols Switzter	***		Cut.	Tron-gornare		
Fire Anmonia		···	(110)	Mannalum		
			(Un)	Haneancae		
L. Liftee Lift area mg.NO ₃ +NO Total boilds Total boilds Charical Overa De			(11e)	Hercury		
Ell area mg. NO. +NO) ₂ -N/1		(Se)	Selenium		
"Sotal bollds	<u> </u>		(Λ_R)	Silver		
To' I Pissolved So	lida		(2n)	Zinc		
Annual or ben in	matia		(Mn)	Sodium		
Auberton Index			(Cn)	Calcium		
•						
Pasticipas: A	ONE DETECTED	սց/1	RIM	RKG:		
alilu Benzene Hexa						
L. adane	THE THE					
L'adanc beta Benzene Hexac	hloride	······································				
Hertachlor	v-da-Gud-dust-d					
441117333						
Reptichlor epoxide						
·ieldrin						
:.n-lrin	Protestant de la companya de la companya de la companya de la companya de la companya de la companya de la comp					
101,	· · · · · · · · · · · · · · · · · · ·			•		
DD!)						
DEX !k: Jioxychlor	···					
Hirex						
Toxagi and						
2, 4-12				•		
311Vex		-			λ	
.C.il. Aroclor 1	254, trace(L.	T. 0.051		-	11/1/1 C	
			Kenne	th Co Valid	- 10000	
			- racinite	eth Ca Valil		

Sr. Sanitary Chemist

Director

Joseph Puleo, DVM, HTI

RESULTS OF EXAMINATION OF WATER

Nobe atory Number 80-716	Sent by:	W. Sienkiewicz		
organ: Collected 10/16/80	Received:	10/16/80	Reported:	12/29/80
Chook toward	n		County:	Erie
familing Point: 825 Rein Re	d. Rollaway	Service (creek) #1		
Chines		Tenant:		
		-		
TAN CAL EXAMINATION:				
State 1	Turbidity	, NIU	Odor, cold_	
COUNTY STATEMENT OF STATEMENT O				ma / 1
Control Edulination:	$m_{\rm E}/1$			$m_{\mathcal{C}}/1$
U volue		(As) Arsenic		L.T. 0.02
,"L value Alkalinity	4- 	(Ba) Barium		0-3
M.B.A.S.	agunto-duragu, quagrusquadro Pearr	(cd) Cadmium		0.001
Tanada Tiorides	60	(Cr) Chromium		L.T. 0.01
- Proriles		(Cu) Copper		0.03
(14), (26)		(Fe) tron		0.16
darans denot	L.T. 0.001	Iron-noluble		
minter.	300.0	(Pb) Lead		L.T. 0.01
fice Ammenia		(lig) Hagneslum		20.2
11 1 from M -1 A		Uln) Hang, mese		0.04
1 firstes	4 المستنب المستنب المستنب المستنب	(llg) Hercury		L.T. 0.000
* It is an agalication and		(Se) Selenium		0.002
is all list ids		(Ag) Sllver		L.T. 0.01
nutri Dissolved Solids		(/n) /inc		0.02
iftrites iftrough agaleganogal/1 is all Solids out to be solved Solids contact Oxygen Demand	10.1	(Nn) Sodius		31.8
and entes Index	da da a emperatura dell'interdire	(Ca) Calcium_		
		T.O.C.		10.9
Confedence NEGATIVE	<u> </u>	Cyanides		L.T. 0.005
digital engene hexachloride		Specific Cond	uctivity 12	6() (umnos/cm/
In no				
I in the me to be the mean lexachloride				
heat of for	agang magangan andaradhadh dhiftinis - d			
dr	ggangaring, albuqueration and attention. These			
Sidr Jerachier epoxide				
be aren				
andri:				
POT				
(¹ ,1)' t				
DDE				
Rethor realor				
licex				
"to place				
14 + 17				
11 Ves		$\int_{-\infty}^{\infty} \int_{-\infty}^{\infty}	1 (
.C.J. NEGATIVE	 	Keen the C	Wall	
		Kenneth C. Mahl	· · · · · · · · · · · · · · · · · · ·	

Joseph Pulee, DVH, HPH Director

Sr. Ganitary Chemist

RESULTS OF EXAMINATION OF JATER

Laboratory Number 2	30-469	Sent by: _	<u> 17, 51</u>	enkievicz			
Dates: Collected 5	5/15/80	Received:	5/ 1.6/	'80	Re	ported:	7/22/30
Place: Compling Point: Compling Point: Compling Point: Compling Point: Complex Po	heektowaga				Co	unty:	i.rie
Sampling Point: 9	999 Rein Rd.	, Radio Ta	ixi, di	illed vell	#2		
Owner:			Tena	nt:			
PHYSICAL EXAMINATION:							
Color:		Turbidity,	HIU		<u> </u>	or, cold	-
CHEHICAL EXAMINATION:		ma / 1					mg/1
CHERICAL EXAMINATION.		$\frac{mg/1}{}$					<u>""/41_4</u>
pil value			(Va)	Arsenic			
Alkalinity			(Ba)	Barium			
11.B.A.S.			(ċa)	Cadmium			
Cutoridea			(Cr)	Chromium			
Fluorides			(Cu)	Copper			
Mardness			(Fe)	Iron			
Phenols				Iron Iron-soluble	e		* · · · · · · · · · · · · · · · · · · ·
Sulfates			(Pb)	Lend			
Free Ammonia			(11g)	Hagnesium			
Albuminoid Ammonia		*************************************	(tin)	Hanganese			
Nitriton			(116)	Horoury			
Hitrites Hitrates mg.NO ₃ +NO ₂ -N Total Solids Total Masolved Solid	/1		(se)	Hercury_			
Total Solids	/ `		(Aa)	Selenium	· 		
Total Magalyod Salid	n		(26)	Gilver_	 		
Chemical Oxygen Deman	, l		(No.)	Zinc			
Asbestos Index	<u> </u>		(Ca)	Sodium		 	
			(011)	Calcium			
U.JUTTA I NICO			REIA	DP C •			
PESTICIDES:		$\frac{\text{ug}/1}{}$	1(12 0)	mo.			
alpha Benzene Hexachle	oride						
Lindane beta Benzene Hexachlo							
beta Benzene Hexachlo	ride						
Heptachlor							
Aldrin							
Aldrin Heptichlor epoxide							
Dieldrin							
indrin							
roa							
טמט -							
DDE							
Hethoxychlor							
ilirex							
Toxaphene:							
2, 4-1)	· · · · · · · · · · · · · · · · · · ·						
	VEX	36					
P.C.B.				11 -11	0 (1)	0.0	
-					r rre	1577	
ı				eth C. Vahl	_		
ľ			Sr. S	Ganitary Chem	nist		

Joseph Puleo, DVII, APH

Director

RESULTS OF EXAMINATION OF WATER

Unbowntory Number 80-579	Sent by:	W. Sienkiewicz		
Lates: Collected 6/23/80	Received:	6/24/80	Reported:	12/18/80
Pice: Cheektowaga	•		County:	Eric
Pince: Checktowaga Sampling Point: drilled well	- Radio Ta	xi, 999 Rein Rd. #2		
Owner:		Tenant:		

PHYSICAL EXAMINATION:				
Color:	Turbidity,	ערוו	Odor, cold	
				_
CHIRICAL WARINATION:	$\frac{m_0/1}{2}$			mg/1
ni vojus		(Ag) Argonia		
pl. ralue		(As) Arsenic		-
Alkalinity Pallacera		(Ba) Barium		
Chicaiden		(Od) Cadilitalii		
verides	· · · · · · · · · · · · · · · · · · ·	(Cr) Chromium		
lin-dines		(Cu) Copper		-
The tols	· · · · · · · · · · · · · · · · · · ·	(Fe) Iron Iron-soluble		-
Sulfates		(Pb) Lead		
FIVE AURETRIA		(Hg) Hagnen Lum		
ALCOPILGE ACTIONS		(int) intigations		
i trices ii cs mg.NO ₂ -N/1 ii is lolids futa dissolved Solids		(10,7 in 1 Cd) y		
in cangalo _n +NO _n =N/1		(OC) OCICITANI		
te . T (olide		(14)		
Form Prisolved Sollds Charles 1 Oxygen Demand		(MI) AINC		
Charlet 1 Oxygen Demand		(1451) CLACETON		
Libra cos Index		(Cn) Calcium		
" TICIDES: NONE DETECTED	$\frac{100}{1}$	RUMARKS:		
H ' Penzene Mexachloride	-			
Lance to the bette bette bette bette besterne Bexachloride				
beta bergine Besachloride				
- 1 141867 26. 1				
The state of the s				
in the epoxide				
i. irin				
noris.				
p. '				
W.				
FD!;				
in thoxych lor				
HIPOX				
Toxaphine				
2, 6,3				
liver		17 1/10.	11 / 1	
Aroclor 1254, trace(La)	<u> 0.05)</u>	Ky Walle C.	Uell	
		Kenneth C., Vahl		

Joseph Puleo, DVM, HPH Director

Sr. Sanitary Chemist

RESULTS OF EXAMINATION OF JAITER

Laboratory Number	87-432	Sent by:	W. SI	enkiewicz		
Dates: Collected	5/15/00	Received:	5/16/	ˈG()	Reported:	7/12/30
Place:	Checktoraga	 1			County:	Crie
Place: Sampling Point:	03 Pfohl Re	I. Pfohl Tru	ich ing.	drilled well	¥3	
Owner:			Tena	nt:		
			•	**************************************	- 	
PHYSICAL EXAMINATION	OH:					
Color:		_ Turbidity,	เนาก		Odor, cold_	
CHERICAL EXAMINATION	ON:	<u>mg/1</u>				mg/1
11 1			(4)	A		
pll value			(84)	Arsenic		
Alkalinity			(Bn)	Barium		
H.B.A.S.			(60)	Cadmium		
Chlorides			(0.5)	CITTOHITUH		
Fluorides	-		(Gu)	Copper		
Hardness			(Fe)	Iron Iron-soluble	· · · · · · · · · · · · · · · · · · ·	
Phenols	 		4	Iron-soluble		
SULIVEGE			(1.0.)	read		
Free Ammonia			(ug)	павнентим		
Free Ammonia Albuminoid Ammonia			Cim	nanganese		
Hitrites Nitrates mg.NO ₃ +NO, Total Solids	·		CORT	nercury		
Nitrates mg.NO ₃ +NO,	₂ -11/1		(Se)	setenium		
Total Solida			· · · · · · · · · · · · · · · · · · ·	211661		
Lingui nianotada 20	1 1 (18		(zn)	Zinc		
Chemical Oxygen Dei	nand		(Na)	Sodium		
Asbestos Index			(Cn)	Calcium		
PESTICIDES:		<u>ug/1</u>	REIN	RKS:		
1						
nlpha Benzene Hexad	chloride					
Lindane						
Lindane beta Benzene Hexael	loride					
Heptachlor						
Aldrin						
Heptachlor epoxide						
Dieldrin				•		
andrin						
DDT						
ומט						
UDE						
licthoxychlor						
Hirex						
Toxaphené		,				
2, 4-D	1	J.D				
Jilven		/-1-1		_	. C	
P.C.B. proclor 124	8	1.4		Kungf Cd	1. (C	
				. de maria de la companya de la comp	71100	
				eth Co Wahil		
•			Sr.	Sanitary Chemin	t.	
			loue	oh Puleo, DVII, i	mu	
l .			SOHE	minuco, um j	g ti	

Director

RESULTS OF EXAMINATION OF GATER

Grant Collected 10/1 Grant Point: Piole Const:	6/80 Received:	10/16/80	Reported:	12/22/80
ogles Point: Proh	1 Trucking (drilled	well) 85 Pfohl Rd.	# 3	
Omer:	mark application from the state of the state	l'enant:		**************************************
may a communition:		•		
Service of the second s	Perioldley,	IIIU	Odor, cold	
Matter D. 1200a (100a)	ing./1			<u>mc/</u>
pri v: 'm		(Aa) Arsenie		L.T. 0.02
of vitor Alkern the	The time of time of time o	(Ba) Bartur		6.2
Chile step CLT	t management or a common party argument area on	(Cd) Codmitum		0.012
title stry CL-	6500	(Gr) Garonian		6.7. C.UI
		(Cu) Copper		0.14
Chancin PHENOLS Alteria SO ₄ = Con Anamara Con It on America	0.001	(Fe) Iron		1.30
Allete: SO,=	65,1	Tron-galuble (15) Lead (16) Hencelon		C-17
Later Assertion		116's and activities		(4/2.)
iller troud American	The district of the special section of the second special section ((Ilm) Marganene		0,2
interior in the state of the st	mental management and the graph and development or splace a	(15.) if restry		T. T. C. COC
100,000	the many that the transfer is a second continue of	(Se) Selentum		1T. ().(1/1)
intat displyed boller	Barbaran Barbaran and American State of the Company	(Ag) Silver		
han it expen beauted	COD 20.7	(Un) alno (Nn) bodina		
interior Index	en en en en en en en en en en en en en e	(Ca) Calcium		663-8
		Cyanides		0,007
" " "G"DEa: BORE	DETECTED un/1	T.O.C.		52,5
		Specific Cond	uctivity 19,7	88 (unliga/cm
in 14 demiene ^d emielder Militari) ((C			
id a.	de			
Programme and	and the second second of the second second of the second			
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promise operate				
the telefold	- Arramarish in the Made of a part of the decisions			
ult in	Pallinghage & Control of the Control			
The same and the s	transmit then you call a new angeless			
Dr.	Companyagement of a filtrage spin of a spin of the spi			
e thoore itor				
Trey	refreshalpeli stedentententer i erte stestagen ag			
instruction	Committee to the state of the s			
The same of the state of the state of the same of the				
Night of		, , ,	, , ,	
· je. · NOIII:	DETECTED	Ring C	it lately	
*		Kenneth C. Vahl		

Sr. Genitary Chemint

Director

Joseph Puleo, DVII, IMIL

RESULTS OF EXAMINATION OF GATER

Laboratory Number	30-490	Sent by:		enkiewicz		
Dates: Collected	5/15/80	Recelved:	5/16/	(80)	Reported:	77:27:0
Place:	CirceltLowag	ุล			County:	ric
Place: Sampling Point:	86), Aero B	r., R & F He	olding,	drilled well	4	
Owner:			Tena	nt:		
PHYSICAL EXAMINATIO		mont tita.	.1		01	
Color:		_ lurbialty,	1110		odor, cold_	
CHEHICAL EXAMINATIO	t i:	mg/1				$m_{\rm E}/1$
oli valuo	•		(AA)	Arsenic		
pli value Alkalinity	······································		(Ba)	Bartum		
H.B.A.S.			(Ç4)	Barium Cadinium	······································	
Chlorides			(Cr)	Chromium		
Fluorides			(Cu)	Copper		······································
Unrduess			(Fe)	iron		
Phenole_			• • •	Iron-soluble_		
Sulfates			(Pb)	Lend		
Free Ammonia			(rig)	Hagnesium		
Albuminoid Ammonia			(IIn)	Hanganese		
Witrites Witrates ageNO3+NO2 Total Solids Total Manalysis Sol			(Hg)	Hercury		
Mitrates mg.NO3+NO2	-N/1		(96)	selenium		
Total Solids			(Ag)	Silver		
TOTAL DIABOTAGE SOF	Lub		(Zn)	Zinc		
-Chemical Oxygen Dem	and		(Na)	Sodium		
Asbestos Index			(Cn)	Calcium		
PESTICIDES:		<u>ug/1</u>	REM	RKS:		
alpha Benzene Bexac	hloride					
Lindane	T TOT TOE	T 0.05 tra	C O			
beta Benzene Hexach	loride	LI COLUMN	CC			
Heptachlor_						
Heptichlor epoxide						
Dieldrin						
Endrin						
POT						
טמט						
DDE						
He thoxych lor_						
Mirex						
Toxaphene		 				
2, 4-1)						
311 WX 2,4,5,-TP	SILUEX	(), 72				
P.C.B.						

Kenneth C. Wahl Sr. Sanitary Chemist

Joseph Puleo, DVH, HPH Director

Abilic Health Division

AUGULTS OF EXAMINATION OF VATER

Laboratory Mulbor	80-725	Sent by:	W. Sienkiewicz		
Dates: Collocted	10/23/80	aleceived	10/23/80	Roportod	12/28/80
Place:	Cheektowaga			County:	Erie
Place: Sampling Point:	R & F Mouldir	vs (drilled	well) ##		
Omer:			onant:		
P TO LOAD DOWN THOUS		Manada da la Ann	·mtf	(Mon sold	
Color		. Curbauty,	111.0	_ (dor, cond	
TAIDMALS ANDUCTO	: (4):	me/1			15/1
nll value			(As) Arsonic	c	L.T. 0.02
pli value Alludinity	**************************************		(Da) Barium		0.3
المائمة المائمة	* * * * * * * * * * * * * * * * * * * 		(Cd) Cadmin	n	L.T. 0.001
Cillorides		90.0	(Cr) Chronin	เขา	L.T. 0.01
- Toot - Co2			(Cu) Coppor		0.03
Hardness Finencls Sulfates			(Fe) Iron		1.36
linonola		L.T. 0,001	Iron-s	olublo	
		30.0	(Pb) Load _		$L_{\bullet}T_{\bullet} \cap (1)$
Pree Anonia			(I)() ikkmes:	Lua	23.4
Albuminoid Amonia			(im) liangun	050	0.02
Withites			(.k;) cercur	у	0.0005
Hitrates Total Solids	- 		(30) 3010nii	un	(1,003
Total Solids	7.1.1.	****	(AC) SILVER		Le1e ()e()1
Total Dissolved So	TIGS		(in) Solive		33.5
Chemical, Segments	3 643161		(Ca) Calciu	M	93 /
Advistor Index					
Cyanides		L.T005	т.о.с.	···	8.2
PATICON:	Hone detecte	1. ug/1	SAME:		
alpha bonzene hera	chloride		Conn. 1.6	la Cambrahladar	0/4
Idariano beta berzone home			specif	ic Conductivity	841 umhos
beta berzone home	hloride				
Helitacimor					
Aldrin	-				
lioptach or epostide		·			
Dieldrin	·	 			
Undrin grap					
סממ	-				
1)1)()					
	-				
Hethogyelder				•	
Marchilania				. 1	10 100
2 1 .11				Rimuri	だし いんなん
Silvex				Kenneth C. V	Vahl
P.G.B.	Hone detecte	d.		Sonior Sanit	

Joseph Puleo, UVII, 1841 Director

RESULTS OF EXAMINATION OF WATER

Laboratory Number	80-491	Sent by:	7. Si	enkievicz.		
Dates: Collected	5/15/80	Received:	5/16/	80	Reported:	7/22/80
Place:	Checktovas	a			County:	arie
Sampling Point:	991 Acro D	r. Veaver l	Ifc. d	rilled well	F 5	
Owner:			Tena	nt:		
		***	•	*		
PHYSICAL EXAMINATION						
Color:		_ Turbidity,	NIU		Odor, cold_	
		_		•		
CHEHICAL EXAMINATION)H:	mc/1				mg/1
nli vatuo			(Aa)	Argonic		
pli value		*********	(110)	Arsenic		
Alkalinity H.B.A.S.	 		(¢4)	Barium	-	
Chlorides			(00)	Cadmium		
Fluorides			(Cu)	Chromium		
Hardness		,	(Fa)	Copper		
Phenols			(10)	Iron Iron-soluble		
Sulintes			(Pb)	Lond		
Free Armonia	****		(ttg)	Lead		
Free Ammonia Albuminoid Ammonia	*************************************		(IIn)	Hanganese Lianganese		
Hitrites			(11e)	Manganese		
Nitrites Nitrates mg.NO ₃ +NO ₂ Total Solids Total Dissolved Sol	-N/1		(Sc)	Hercury Selentum		
Total Solids	2	**************************************	(Ae)	Selenium		
Total Dissolved Sol	lide		(2n)	SilverZinc		
Chemical Oxygen Den	nand		(Na)	Sodium		
Asbestos Index			(Ca)	Calcium		

PESTICIDES:		un / 1	RH IA	D1C: •		
		$\frac{\mathrm{ug}/1}{}$	10/2/00	ACCO.		
alpha Benzene Hexac	hloride					
Lindane	1 '	Γ () ()5 trace	:e			
beta Benzene Hexach	loride					
lileptachtor		-				
Midrin						
Heptachlor epoxide						
nielarin						
hadrin	***					
DDT						
DDD						
DDE	···					
llethoxych lor						
litrex :						
Toxaphene						
2, 4-1)						
XEXXXX 2,4,5,-T	1	<u>". 0.05</u> trac	e	i1 1 c	, /1	
l'-C-B-			/	Buntil & U	MAN	
			Kenne	th C. Valil		
_			Sr. S	Janitary Chemis	t	•

Joseph Puleo, DVH, APH Director

RESULTS OF EXAMINATION OF WATER

Laboratory Number	80-488	Sent by:	W. Si	lenkiewicz		
Dates: Collected_	5/15/30	Received:	5/16/	(80)	Reported:	7/22/30
Place:	Checktovage	• 1			County:	Erie
Place: Sampling Point:	850 Aero D	r., Hall Tri	icking,	drilled well	# 6	
Owner:			Tena	nt:		
			•			
PHYSICAL EXAMINATION						
Color:	 	_ Turbidity,	NIO		Odor, cold_	
CHEHICAL EXAMINATION	ii:	$m_{\rm S}/1$				mg/1
pli value_			(As)	Arsenic		
Alkalinity			(Ba)	Barium		
И.В.А.S.	 		(ça)	Cadmiun		
Chlorides			(Cr)	Chromium		
Fluorides		······································	(Cu)	Copper		
Hardness		····	(Fe)	Iron		
Phenols				Iron-soluble		
Sulfates			(Pb)	Lead		
Free Ammonia			(tig)	llagnesium		
Albuminoid Ammonia	, , , , , , , , , , , , , , , , , , , 		(tin)	Hanganese		
Nitrites			(11g.)	Hercury		
Nitrites Nitrates mg.NO ₃ +NO ₂ Total Colida	-1/1		(Se)	Selenium		
			(ለგ)	511ver		
TOCKT NIBBOTAGG SOT	108		(Zn)	%inc		
-Chemical Oxygen Dem	and		(Na)	Sourm		
Asbeston Index			(Cn)	Calcium		
			•			
PESTICIDES:		$\frac{\mathrm{ug}/1}{}$	REIM	IUKS:		
alpha Benzene Hexac						
Lindane						
beta Benzene Hexach	loride	-				
Heptachlor						
Adrin						
heptachlor epoxide						
Dieldrin						
Mndrin		 				•
ppr	·					
DDD						
DDE				•		
Hethoxychlor						
llirex		 				
Toxaphene:						
2, 4-1)		() ()		_	.3	
XIIWX 2,4,5,-TP		0.0	1	11 100	1 ('0	
P.C.B. Aroclor	1700	(),1		immille L U	(411)	
			Kenh	eth C. Vahl		

Sr. Sanitary Chemist

Joseph Puleo, DVH, APIL

Director

hiblic Health Division

EGULES OF EXAMINATION OF VATER

laboratory Haubor 30-724	Sent by:_	W. Sienk	clewicz		
Dates: Collocted 10/23/80	.leccived_	10/23/80)	Reported	12/29/80
Place: Cheektowaga				County:	Erie
Place: Cheektowaga Sampling Point: Hall Trucking	(drilled	well)	6		
Omer:		Tonant:			
P TO COATA DIVER MATERIAL					
Color	Turbidity,	, inu		(dor, cold _	
GENERAL AMINISTON:	me/1				in:/1
•		4.			
pll value		(1/8)	Argonic		L.T. 0.02
7443414417.107		(TXX)	varium		LaTa UaZ
Cidorides		(υα)	Cadmin		L.T. 0.001
Chhorides	65.0	(Cr)	Chronium		LeTe CeO1
		(Cu)	Cobbor _		LaTa 0.02
Hardness Honols Lightes		(Fo)	Iron	iblo	0.36
L. Lonoita	$T_{\bullet} = 0.001$	/ \	fron-solu	iblo	
		(Ръ)	Load		L.T. 0.01
Free Aponia		(1ic)	ingnesiw:	1	23,4
VITOGE GROTH WOOTE'S		(in)	Tianganosc)	(), 04
HANDIONS -		(.lg)	ercury _		0,0005
11 .113 (119) 33		(30)	Scloutum		L.T. 0.001
Total Solids		(76)	Silver _		L.T. 0.01
Total Disselval Colids		(Zn)	%inc		L.T. (), 02
ANOMICAL ACABOIT ASTRAIG		(lia)	Sodium _		34,9
Ashestos Index		(Ca)	Calcium _		99,6
CyanidesL	r005			· · · · · · · · · · · · · · · · · · ·	
P.TTICTDE: Home detected.		UIN			
none delected	<u>us/1</u>	(• 10	(107)		
alpha bonzene hemolyloride					
Linchno			Specific	Conductivity	825 umlios/
beta bersone homeinloride	······································			 -	
Heptachlor					
× 1/100/10:					
lieptach or eposside					
'lieldrin					
'Beldrin Undrin	····				
Mil					
nno					
Dist					
rethogelder					
				1.7	111 1/11
Toxaphene 2. 1-D				Karris	R.Cilichel
2, 1-0, 3.11vex				Kenneth C. W	
P.C.B. None detected.	•			Sonior Sanit	

Joseph Puleo, UVII, IIII Director

RESULTS OF EXAMINATION OF WATER

	30-487		U. Si	lonkiewicz		
Dates: Collected '	5/15/80	Received:	5/16/	/30	Reported:	7722780
Place: (Checktowas					
Sampling Point:	Transit Rd	Thruway	service	entrance	7	
Owner:			Tena	nt:		*****
ı						
PHYSICAL EXAMINATION:						
Color:		Turbidity,	NIO_		Odor, cold_	
		• •				•
CHEHICAL EXAMINATION:		$m_{\rm E}/1$				<u>mg/1</u>
l			()	•		
pli value			(10.1)	WL86UIC		
Alkalinity_			(Ba)	Bartum		
M. B.A.S.			くしほう	Cadmiun		
Chlorides			(CE)	CITOHITUH		
Fluorides			(04)	COMPCE		
Hardness			(Fe)	î.cou		
I,UGUOT8			Cost N	iron-soluble		
SULINEER			(10)	read		
Free Ammonia			(rig)	Hagnesium		
Albuminoid Ammonia			(1111)	unganese		
Nitrites Hitrates mg.NO ₃ +NO ₂ -N	71		CHEA	Hercury		
Total Solids	¹		(96)	selenium		
Total Solids Total Dissolved Solid			(rgs)	PITAGL		
Charles 1 Owner Dags	.B		(4n)	Zinc		
Chemical Oxygen Deman	· · · · · · · · · · · · · · · · · · ·		(Na)	3001un		
Anbenton Index	· · · · · · · · · · · · · · · · · · ·		(Cn)	Calcium		
PESTICIDES:		<u>us/1</u>	RHIM	IKS:		
olpha Benzene Hexachil	oride					
Lindane	Or roc					
Lindane beta Benzene Hexachlo	ride					
Hentachlor	1100					
Heptachlor Aldrin						
Heptichlor epoxide						
Dieldrin						
Endrin		*****				
rao						
ממט						
DDE	· · · · · · · · · · · · · · · · · · ·					
Hethoxychlor						
Hirex						
Toxophene	-					
2, 4-1)						
0114UK 2,4,5,-T		1.0		. 4		
P.C.B. Aroclor 1248	``	1.()		Parmet C	Walk	
M OCTOL RANG		LOVI			CUTE III	
i .	•			eth C. Valil		
-			Sr.	innitary Chemi	lot	

Joseph Pulco, DVM, APH

Director

RESULTS OF EXAMINATION OF MATER

Laboratory Number	30-581	Sent by:	W. Sienkiewicz		
			6/24/80	Reported:	12/18/80
Place:	Checktowas	n		County:	Eric
Sampling Point:	Thruway Se	rvice Ctr., T	ansit & Aero (EC!/	A) #7	-
Owner:			Tenant:		
PHYSICAL EXAMINATI		Trub Lild to	11771	0.1	
COTOR;		luroinity,	NTU	Odor, cold_	
CHETICAL EXAMINATI	ion:	$m_{\rm G}/1$			mg/
pli value			(As) Arsenic		
Alkalinity_			(Ba) Barium		· · · · · · · · · · · · · · · · · · ·
M.A.A.S.			(Cd) Cadmium		
Chlorides			(Cr) Chromium		
Chlorides Fluorides		0.8	(Cu) Copper		
Unrduess		126-7	(Fe) Iron	*** **********************************	
Phonols			(Fe) Iron Iron-soluble	· • • • • • • • • • • • • • • • • • • •	·····
Sulfates			(Ph) Lead		
Free Anmonia			(Pb) Lead		
			(lig) Hagnesium		
Nitrites	· 		(IIn) Hanganese		**************************************
Nitrites Nitrates mg.NO ₃ +NO Total Solids Total Dissolved So)N/1		(lig) Hercury		
Total Solids	2		(Se) Selenium		
Total Dissolved Se	11/18		(IIR) DITAGE		
Chemical Oxygen De	mand		(Zn) Zinc		·
Asbestos Index			(Na) Sodium (Ca) Calcium		
-13-drap.					
PESTICIDES: NOV	E DETECTED	<u>ug/1</u>	REJIARKS:		
alpha Benzene Hex	chloride				
Lindane	er-a-ultra				
Lindane beta Benzene Hexad	chloride				
Heptachlor_					
Aldrin					
Heptachlor epoxide					
Dieldrin					
Endrin					
PDT					•
מתט					
DDE					
Hethoxychlor					
lirex					
Toxapliene					
2, 4-D		****			
Silvex			4.1		
	254, trace(L	T. 0.05)		111 1	
			Kenneth C. Wahl		
				f - h	
STATES OF			Sr. Sanitary Chem.	TUC	

Joseph Puleo, DVH, APH Director



RESULTS OF EXAMINATION OF WATER

Laboratory Number 80-715	Sent by:	V. Sienkiewicz		
Dates: Collected 10/16/80	Received:	10/16/80	Reported:	12/19/80
Place: Cheektowaga	- 		County:	Erie
Sampling Point: Transit Rd.	. Thruway to	ll area (public water	supply) #7	
Owner:				
				
PHYSICAL EXAMINATION:				
Color:	Turbidity,	หาบ	Odor, cold	
				
CHEHICAL EXAMINATION:	$m_{c}/1$			mg/1
pll value		(As) Arsenic		L.T. 0.02
Alkalinity	*************************************	(Ba) Harium		. 0.3
H.B.A.S.		(Cd) Cadinium		L.T. 0.001
H.B.A.S. Chlorides	22.5	(Cr) Chromium		L.T. 0.02
PAUDEIGES		(Cu) Copper		L.T. (1.02
liardness		(Fe) Iron		L.T. 0.05
Hardness Phenols L Sulfates	T- 0-001	(Fe) Iron Iron-soluble		
Sulfates	25.7	(Pb) Lead		I.T. 0.01
Free Ammonia		(Mg) Magnesium		7.8
Albuminoid Ammonia		(lin) llangancea		L.T. ().()1
Nitrites Nitrates mg.NO ₃ +NO ₂ -N/1 Total Solids		(lig) Hercury		L.T. 0.0004
Nitrates mg.NO2+NO2-N/1		(Se) Selenium		L.T. 0.001
Total Solids	-	(Ag) Silver		L. T. 0.01
Total Dissolved Solids		(Zn) Zinc		L.T. 0.02
Chemical Oxygen Demand	2.3	(Na) Sodium		12.5
Asbestos Index		(Ca) Calcium		39.1
Cyanides L	T. 0.005	***		
PESTICIDES: Negative		REMINKS:		
alpha Benzene Hexachloride		Specific Conductiv	ity	318 umlios/c
Lindane		T.O.C		
beta Benzene Hexachloride	*****	* * * * * * * * * * * * * * * * * * * 		
ileptachlor				
Heptachlor epoxide				
Dieldrin				•
andrin	*************************************			
DDT				
DDD	*************************************			
DDE				
Hethoxychlor				
llirex				
Toxophene	774-200-200-2-2-2			
2, 4-1)			•	
Gilvex			, a	
P.C.B. Negative	******	Kinnet C.	11.11	
		Kenneth C. Walil	co che	

Joseph Pulco, DVM, iPH Director

Sr. Sanitary Chemist

RESULTS OF EXAMINATION OF WATER

Laboratory Number 30	1-406	Sent by: _	7. 3i	enkiewicz		
Ontes: Collected 5/	/15/80	Received:	5/16/	80	Reported:	7/22/30
Γlace: C!	ice" tovaga	•				Srie
Sampling Point: 1	Scott Pl.	lickean Tr	ucking	, drilled well	#9	
(Xmer:			Tena	nt:		
6-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4			•			
PHYSICAL EXAMINATION:						
Color:		Turbidity,	UTU		Odor, cold	
CHEHICAL EXAMINATION:		$m_{\rm G}/1$				mg./1
pli value			(AB)	VLacuro		
Alkalinity			(Ba)	Barium		
ilaDaAaita			(Ca)	Cathirtan		
Chitorides			(CE)	CHEOMETIM		
I, TrioL Trica			(いひ)	copper		
uraness			(Fe)	Iron	****	
Phenols				Iron-soluble		
(0.11/1/0.68			(20)	read		
rree Amonta			CHEZ	nagnestun		
A LUMBINOLG Ammonia			(IIII)	annganese		
Hitrites			CBD	Hercury		
Nitrites Nitrates mg.NO ₃ +NO ₂ -N/ Total Solids Total Masolved Solids	1		(Se)	Selenlum		
Total Solids			(ሊዩ)	bilver		
Total Masolved Solids	1		(Zn)	Zinc		
Chemical Oxygen Demand	 		(Na)	200 Lmu		
Anbestos Index		**************************************	(Cn)	Calcium		
PESTICIDES:		ug/1	REIN	idks:		
1						
alpha Benzene Hexachlo	oride			•		
Lindane beta Benzene Hexachlor	l.eT.	<u> 0.05 t</u> rac	.C			
beta Benzene Hexachlor	.ide					
Heptachlor						
Aldrin						
Hentachlor epoxide						
Dieldrin						
andrin						
DDT						
טחט						
טמט אטס						
unu nde He thoxychlor	=3:22:000 to	7 7 7 7				
DDE 		7 7 7 7				
DDD DDE Hethoxychlor Herex Toxaphene	=======================================					
DDD DDE Hethoxychlor Herex Toxophene 2, 4-0	=3:22.11111					
DDD DDE Hethoxychlor Hrcx Toxaphene	E3:22:11:11:12	TTTT				

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION ATOMIC ABSORPTION PRIORITY POLLUTANT ANALYSES

S4 Report Date:

		METALS	DOWN STREAM OF LAKE OUTLE	LEACHATE ME TOUTLET	E UPSTREAM ONE	DITCH
			MPLE 1 UNTIF		E)	
	UNITS OF	S-Q02-01	S-003-04	S-003-061	S-003-09	
COMPOUND	MEASURE	(10/28/81)	(10/28 '81)	(10/28/81)	(10/28/81)	
Total antimony	mg/l	<0.5	<0.5	<0.5	2.9	
Total arsenic	μg/l	<7	< 7	47	<7	
Total beryllium	mg/l	<0.003	<0.003	<0.003	<0.003	
Total cadmium	mg/l	<0.005	<0.005	0.046	<0.005	
Total chromium	mg/l	0.278	<0.005	0.048	<0.005	
Total copper	mg/l	0.030	0.010	0.348	0.012	
Total lead	mg/l	<0.03	<0.03	0.12	0.09	
Total mercury	µg/l	3.1	5.5	5.0	3.0	
Total nickel	mg/1	0.6	<0.03	0.05	0.04	
Total selenium	ug/l	<6	<6	<6	<6	
Total silver	mg/1	<0.005	<0.005	<0.005	<0.005	
Total thallium	mg/l	2.3	1.8	1.1	1.2	
Total zinc	mg/l	0.24	0.011	7.8	0.018	

COMMENTS: Values reported as "less than" (<) indicate the working detection limit for the particular sample and/or parameter.

TOR RECRA RESEARCH, INC. Q.U. Finn
DATE 1/1/8/8/



Abblic Health Division

ELIGULTS OF EXAMINATION OF WATER

laboratory mubor_	80-723	Sent by:	W. Sien	kiewicz		
Dates: Coll.ncted	10/23/80	:lecuived_	10/23/8	0	Roportod	12/29/80
Place:					County:	Erie
Place: Sampling Point:	McClean Truck	ing (drill	ed well)	#9		
Chiner:			Tonant:			
P 750 (OAL DALI' 1979) O	::•					_
		Turbidity,	inu _		(dor, cold _	
OFFICE ANDTERES		mg/1				11:/1
pli value			(As)	Arsonic		L.T. 0.02
Albulinity			(13a)	Darium		L.T. 0.2
Gillorides Fluorides			(ca)	Cadmium		L.T. 0.001
Cidorides		8().()	(Cr)	Chronium		L.T. 0.01
Fluoridos			(Cu)	Coppor		1.39
Ilardines Inerola			(Fc)	Iron	iblo	2.83
linerols Culfator	L.	T. 0.001		fron-soli	ablo	
Culfates		44.3	(Pb)	Load		0.02
Proc Anonia	· · ·		(lig)	Haimes iu	1	22.6
Albu inoid Anonia			('m')	langanos)	0.06
Witrites			(:l _{r;})	crcury		0.06 L.T. 0.0004
11.00 (10.00			(30)	Solonium		L.T. ().(101
Motal Solida			(Jr)	Gilver _		L.T. 0.01
Total Dissolved Gol	ida		(Zn)	Zinc		L.T. ().()2
			(ila)	Sodiun _		39.7
Adrestos Index			(Ca)	Calcium		96.1
Ashestos Index Cyanides	L.	T. •()()5		T.O.C		9.3
PATTICUD 25:	llone detected	· <u>ug/1</u>	RIM	rizi:		
alpha bonzene hetaci	Noride	~		Specific	Conductivity_	809 umho
Lindano beta berzone homeh	lantda					
Hentachles	torine					
Hoptachlor Aldrin						
lioptachlor epoxide						
Beldrin						
Undrin						
Old						
DIDD						
Dirl;		·				
retheracluor						
Hirex	*****					
Tozapheno					2 1	1
2, 1-1)					1/ourt	C Wall
Jilrex:						
P.G.B.	17 2 4 6 7	····			Kenneth C. I	
	None detected	<u> </u>			Sonior Sanit	ary chambe

Joseph Puleo, WM, MMI Director

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION GAS CHROMATOGRAPHY

Report Date: 11/18/81

PCB'S

		TOD 3					
		PARAMETER (UNITS OF MEAS)					
	TOTAL POLY	CHLORINATED BI	PHENYLS				
	µg/g DRY AS	μg/g DRY AS	μg/g DRY	PERCENT DRY WEIGHT			
SAMPLE IDENTIFICATION		AROCLOR 1254	TOTAL	(% DRY)			
(S-1) S-003-01 TOP 6"OF	3.3	4.0	7.3	82			
(S-2) S-003-02 50L	2.9	4.2	7.1	81			
S~001-Ø3	1.6	1.2	2.8	39			
S-001-06	1.4	<0.7	1.4	19			
s-001-09	<0.5	<0.5	<0.5	20			

COMMENTS: Total Polychlorinated Biphenyl (PCB's) analyses were performed by mixing the samples with equal portions (by weight) of anhydrous sodium sulfate prior to a sixteen-hour extraction with 1:1 hexane:acetone in a Soxhlet apparatus. All extracts were subjected to a Florisil column cleanup prior to Gas Chromatographic (GC) analysis with electron capture detection.

Chromatograms of all samples were qualitatively screened for the presence of nine PCB mixtures (Aroclors). These included Aroclor 1016, 1221, 1232, 1242, 1248, 1254, 1260, 1262, and 1268.

FOR	RECRA	RESEARCH,	INC.	Debarah & Francis
			DATE	11/18/81



NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION ATOMIC ABSORPTION PRIORITY POLLUTANT ANALYSES

Report Date: 11/18/81

METALS

	SAMPLE IDENTIFICATION (DATE)				
COMPOUND	UNITS OF MEASURE	S-002-02 (10/28/81)	S-002/03 (10/28/81)	S-003-07 SET (10/28/81)	
Total antimony	μg/g dry	<60	<20	<90	
Total arsenic	μg/g dry	10	53	6.1	
Total beryllium	μg/g dry	2.5	<0.1	<0.5	
Total cadmium	μg/g đry	<0.6	25	12	
Total chromium	ug/g dry	120	170	13	
Total copper	ug/g dry	46	4,300	130	
Total lead	μg/g dry	320	2,400	5.4	
Total mercury	μg/g dry	<0.2	18	12	
Total nickel	ug/g dry	38	330	15	
Total selenium	μg/g dry	1.0	<0.2	<0.5	
Total silver	μg/g dry	0.74	2.5	<1	
Total thallium	μg/g dry	77	4.7	55	
Total zinc	μg/g dry	360	7,900	1,000	
Dry Weight	%	81	85	31	

Samples were received at Recra on 10/28 and 10/29/81. Comments pertain to data on one or all pages of this report.

FOR RECRA RESEARCH, INC. D. V. Finn

DATE ///8/8/



NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION GAS CHROMATOGRAPHY PRIORITY POLLUTANT ANALYSES

Report Date: 11/18/81

PESTICIDES/PCB'S

COMPOUND	UNITS OF MEASURE	S-003-07 (10/28/81)	SEDIMEN IN LEACH	UT (ST)			
Aldrin	μg/g dry	<0.03					
α-ВНС	μg/g dry	0.03					
β-ВНС	μg/g dry	<0.03					
δ-BHC	μg/g dry	<0.03					
ү-ВНС	μg/g dry	<0.02					
Chlordane	μg/g dry	<0.1					
4,4'-DDD	ug/g dry	0.22					
4,4'-DDE	ug/g dry	0.18					
4,4'-DDT	μg/g dry	<0.1					
Dieldrin	μg/g dry	<0.1					
α-Endosulfan	ug/g dry	<0.08					
β-Endosulfan	ug/g dry	<0.1	****				
Endosulfan sulfate	μg/g dry	<0.08					
Endrin	ug/g dry	<0.1					
Endrin aldehyde	μg/g dry	<0.05					
Heptachlor	μg/g dry	<0.05					
Heptachlor epoxide	μg/g dry	<0.03	- 				
PCB-1016	μg/g dry	<0.1					
PCB-1221	μg/g dry	<0.2					
PCB-1232	μg/g dry	<0.2					
PCB-1242	μg/g dry	<0.1					
PCB-1248	μg/g dry	<0.1					
PCB-1254	ug/g dry	<0.1					
PCB-1260	ug/g dry	<0.1					
Toxaphene	ug/g dry	<0.1					
Dry Weight	%	31					

FOR RECRA RESEAR

	DADORATORI	N D O O	L, U	- The						
`I <u>NORGANICS</u>		DRAINAGE DITCH	LEACHATE SEEP	MARSH AREA®	T MARSH AREA©					
		7K	<u> </u>	. \ \	_¥.					
Aluminum		1500	- Com	7150	70190					
Chromium		41	41	41	۷1					
Oarium		-86	640-	-22-	-25_					
Beryllium		0.4	∠0.2	<0.2	40.2					
Cadmium		<0.5	1.0	0.5	1.5				 	1
Cobalt		41	1	۷1	2			 	 	
борре гининичний		2777	- Inches	-	SEM2			 	 	
Iron		¥72_	46300	4540	7380		 		 -	
[.600 mm.			and but		2006	 	 -	 	 	
Nickel		42	4 2	.4.2	12			 	 	
Hangenes (************************************	**************************************	782		مير_	-51		_		├──	├
24		-20			400				 -	
Bovon							 	 	├	
Vanadium		2	∠1	41	41		├		 	
Coleium		2600	l	508 0	e6430		 	 	├	
Hognestum		340			30			├	 	├
Sodium		100	- 90	710			 	 	 	┼──
Arsenic		41	41	41	41		 -	 	 	
Antimony		7.5	4-2	1.2	۲-2-		-	 	 	├
Selenium		41	L	∠2 ^c	ر ع ^c			 	 	
Thallium		41	41	41	41				 	
Mercury .	······································	40,1		40.1	40.1		 		 	
Tin		42	∠ 4b	42	4 2			 	 	
Silver		42	4-2	4-2	4-2			 	 	1
Ammonia				-						
Fluorida									 	
Sul fise	•	ے۔	-15	-10	290				 	
Cyanide .		-	-	-	_			 	 	
рН										
TOC										

LABORATORY RESULTS -

Concentration is is mg/kg
a = With a detection limit of 8 mg/kg
b = With a detection limit of 4 mg/kg
c = With a detection limit of 2 mg/kg
= Recoveries are not acceptable

6.0 ADEQUACY OF AVAILABLE DATA

In compiling the hazardous ranking score, the Pfohl Brothers Landfill was found to have a migration potential score (S_m) equal to 29.6. However, due to data inadequacies, which involve a certain degree of subjectivity, a range for the S_m score was developed and found to be 21.6 to 31.6. In developing the Hazardous Ranking Score for the Pfohl Brothers Landfill, data inadequacies were found to be as follows:

- o No testing of the southern section of the landfill.
- O Location of sampling points taken by Fred C. Hart. Specifically, the ditch which is a drainage outlet for Aero Lake may have effected the concentration of contaminants by adding a dilution factor (Ref. 2).
- o No records available regarding quantity of solid waste on site.

- o Types and permeability of the soil were based adjacent soil information.
- Our inability to perform a site inspection. Mr. Brian Pfohl would not consent to request.

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. Potential environmental effects of the landfill; the extent and magnitude of contamination, based on site specific hydrogeologic conditions, and

o 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 Scope of Work

The primary purpose of this work element is to fill the data gaps identified in the preliminary assessment (Element 1), so as to permit a complete site characterization/tanking (HRS) and engineering evaluation of remedial alternatives. The preliminary field investigation includes the following items:

o Air Monitoring

- o Geophysical Exploration
- o Subsurface Investigation
- o Monitoring Well Installation

Throughout the investigative effort, field activities will be performed in strict accordance with established safety protocol, presented in Recra Reseach 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 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 respiratory protection. A 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 photoionizer 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.

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); it will also aid in determining the possibility and extent of groundwater contamination. This information will be used in the siting of test borings and monitoring wells.

The VLF-EM Terrain Conductivity survey will be performed by recording continuous conductivity measurements on an EM-31 terrain conductivity meter equipped with a strip chart recorder. These measurements will be taken on a grid pattern established using a tape and level, in the area of the disposal site. Additionally, in an effort to define a possible plume of contamination, the condutivity survey will be extended beyond the property boundaries.

Seismic refraction methods will also be employed in order to define berock surface and depth of fill.

Subsurface Investigation

In order to facilitate additional information concerning possible groundwater contamination, preliminary findings indicate a need for both shallow and deep monitoring wells. Three (3) test borings terminating at bedrock and two (2) test borings penetrating surfical till have been proposed (average estimated depth for shallow wells is approximately 45 feet). Additionally, water sample and core sample locations have been established in various crucial areas. Five (5) locations in stream or lake surface waters will have both type samples extracted. Three (3) areas have been arbitrarily chosen in proximity to the dump for sediment coring only. See attached Site Map for illustration of proposed sampling locations.

The test borings 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 intervals and/or when noticeable changes in lithology or drilling characteristics occur. If the unconsolidated material is found to be extremely heterogenous, all test borings will be continuously sampled. Also, if a confining layer is encountered, Shelby tube samples will be obtained to determine it's 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 done to bedrock. Prior to leaving the site, the drill rig will be decontaminated using high pressure water.

Monitoring Well Installation

After review of the information obtained from the soil samples geophysical results and approximate water levels in the test borings, it

is proposed that five (5) monitoring wells be installed either within the original test boring holes and/or at other selected sites. Any test boring not utilized during the installation of the monitoring wells will be properly closed.

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 de-greasing solvents suggests the use of galvanized steel screens and risers. The screen will be placed just below the encountered water table. The annulars 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 shown in Figure 4.

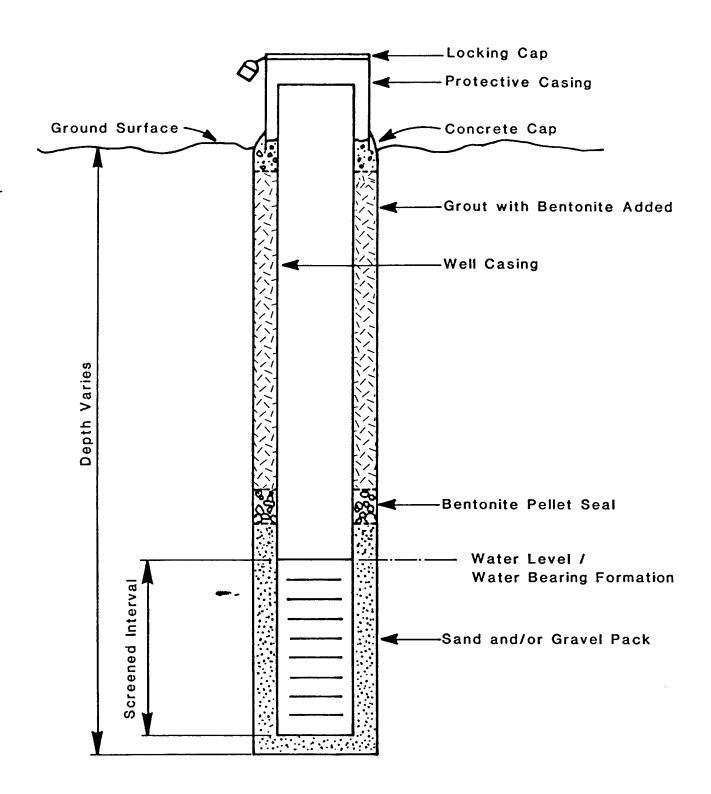
Upon completion of well construction, all monitoring wells will be properly developed, and all test borings and/or top of well casings will be surveyed to determine their location and elevation above sea level. At that time, variable head tests will be performed on five (5) wells around the site to estimate the in-situ permeability of the screened interval.

All field activity will beunder the direct supervision of a qualified geologist and/or hydrogeologist.

Figure 4

MONITORING WELL DETAIL

In Unconsolidated Formation



Sampling and Analysis

The following procedures will encompass the sampling and analyses from the newly-installed wells and surface water and sediment sampling analyses of the samples obtained during air monitoring, and analyses of selected samples 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.

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 acquisition of the samples will be accomplished with an Isco Model 1580 peristaltic pump using separate low-density polyethlene tubing for each well and changing the silicon rubber tubing within the Isco betwwn 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 analyses of various 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.

Surface Water

It is proposed that five (5) surface water samples be obtained. 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 in Table $\underline{1}$.

Since the possibility exists that contaminated groundwater from the site discharges into the existing stream as a slug after storm events, any may not be contributing to degradation of the stream during the sampling interval, three (3) stream sediment samples will also be obtained from thr sediment sampling locations shown on Figure 3 by a 2-foot gravity type core sampler, placed in pre-cleaned, teflon lined-screw cap, glass jars, labeled, chilled and returned to Recra for analysis. To avoid cross-contamination during this activity, the core

TABLE 1: ANALYTICAL PARAMETERS

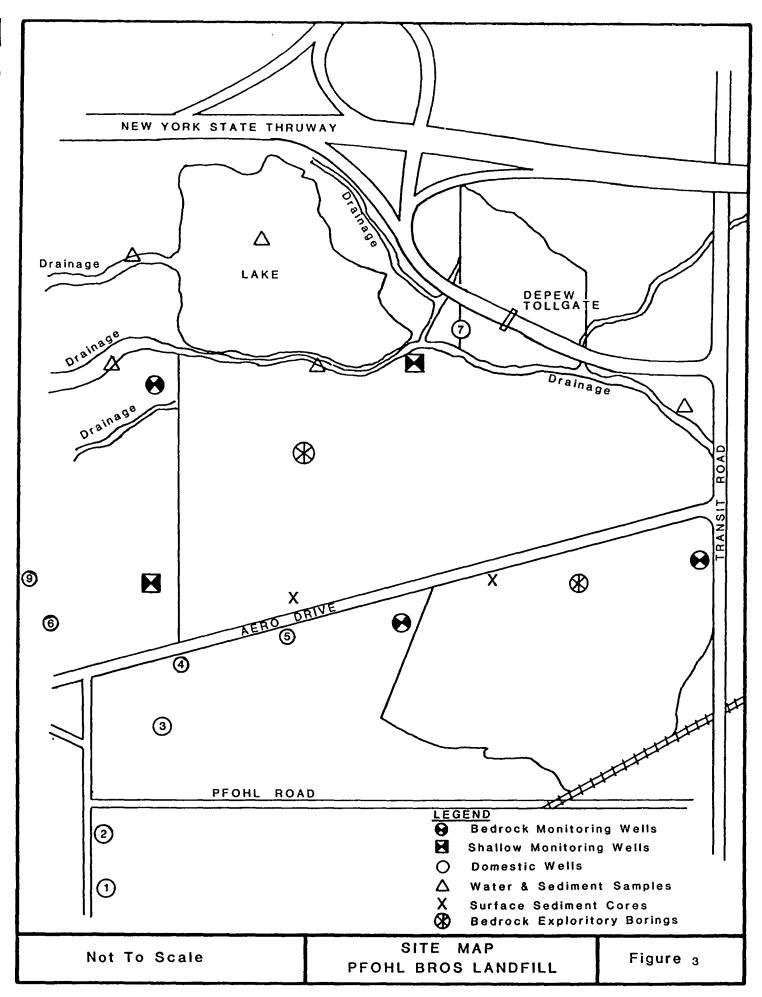
Parameters	Surface Water	Groundwater		
Н	•	•		
Specific Conductance	•	•		
Chloride	•	•		
Sulfate	•	•		
Cyanide (Total)	•	•		
Total Organic Carbon	•	• '		
Cadmium	*	0		
Chromium (Total)	*	0		
Chromium (Hexavalent)	*	0		
Copper	•	0		
Iron	*	Ü		
Lead	*	Ü		
Mercury	*	0		
Nickel	*	0		
Silver	* ±	0		
Zinc	* .	Ü		
Polychlorinated Biphenyls (PCB)	. •	•		
Volatite Organic Scan (VOS)	•	•		
Halogenated Organic Scan (HOS) Dry Neight	•	•		

0 = Soluble Metals

* = Total Metals

VOS is a screening procedure to identify the presence or absence of volatile chlorinated organic compounds. Analyses are performed via purge and trap concentration, gas, liquid chromatography and an electrolytic conductivity detector.

HOS is a screening procedure to identify the presence or absence of halgenated organics. Analyses are performed via solvent extraction concentration gas liquid chromatography and an electron capture detector.



tubes will be cleaned with water, acetone, and distilled water between sample locations.

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 gain 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 form these tests, in conjunction with the Standard Penetration Test results obtained during Element 2, will aid in the design and evaluation of remedial programs.

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

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:

- <u>Methods for Chemical Analysis of Water ad Wastes</u>, United States Environmental Protection Agency,
- <u>NIOSH Manual of Analytical Methods</u>, 2nd Edition, United States Department of Health, Education and Welfare,
- Standard Methods for the Examination of Water and Wastewater, 14th Edition, APHA, AWWA, WPCF.

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."

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 Hazardous 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 <u>Background</u>
- o Summary of Project Activities
- o <u>Identification and Evaluation of Remedial Alterna</u>tives
- 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	Preliminary Field Investigation	\$ 21,217
0	Sampling and Analysis	21,953
0	Engineering Evaluation	8,169
	Total Cost	\$ 51,339

APPENDIX A

DATA SOURCES AND REFERENCES

- Interagency Task Force on Hazardous Waste Sites, March 1979, Pg. II-86.
- 2. Ronald Koczaja, Erie County Environmental Planning Office personal interview regarding site activity and history, April 21, 1983.
- 3. <u>Summary of Data, Pfohl Brothers Landfill, Town of Cheektowaga.</u>
 Ronald D. Koczaja, March 9, 1981.
- 4. NYSDEC letter to Stanley Keysa (Supervisor of Town of Lancaster) from Ralph Manna regarding Wetlands information, July 3, 1978.
- 5. Erie County Health Dept., John Kociela, a conversation regarding water supply, April 21, 1983.
- 6. NYSDEC letter from Don Campbell to Peter Buechi regarding site inspection April 5, 1983.
- 7. <u>Erie-Niagara Basin Groundwater Resources</u> prepared by A. M. LaSala, Jr. U.S. Dept. of the Interior Geological Survey in cooperation with the NYS Conservation Dept., Division of Water Resources, 1963.

- 8. Letter from Ron Koczaja to Donald Campbell regarding site inspection, May 8, 1979.
- 9. U.S.G.S. Topographical Map. Lancaster Quad. 1965.
- 10. Analytical results performed by Erie County Laboratory, Public Health Division, July 28, 1980.
- 11. Analytical Data performed by Recra Research, Inc., November 18, 1981.

APPENDIX B

HAZARDOUS WASTE DISPOSAL SITE REPORT

Code: B

<u>Site Code</u>: 8-50-004

Name of Site: Pfohl Brothers Landfill

Region: 9

County: Erie

Town/City: Cheektowaga

Street Address: Aero Drive

Status of Site:

- o Inactive landfill
- o Located in a relatively densely populated area.
- o Nearest dwelling is approximately 1,500 feet.
- o Nearest water body: Approximately 50 feet to the north of the site is Aero Lake.
- o Nearest water supply: Ground water wells approximately 1,500 feet.
- o Site is located adjacent to a protected wetland.

Type of Site: Landfill

Estimate Size: 120 acres

Hazardous waste disposed? Suspected

Type and quantity of hazardous wastes: Quantity of waste deposited in unknown. Waste from generators known to have used the facility are: phenol tars with chlorinated benzenes, waste paints and thinners, capacitors containing PCB's.

Present owner: Pfohl Family

Time period site was used: 1946 - 1971

Site status: Inactive

Types of samples: None

Remedial action: None

Status of Legal action: None

Permits issued: None

<u>Assessment of environmental problems</u>: Site is located in close proximity with a designated wetland.

Assessment of health problems: Unknown

Person completing this form: Patricia M. Perry, Recra Research, Inc.

Date: June 3, 1983