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ENGINEERING INVESTIGATIONS AT INACTIVE HAZARDOUS WASTE SITES

PHASE I INVESTIGATION

Bernard Cope Akron

915102

Site No. 915102 Erie County

DATE: May 1986



Prepared for: New York State Department of Environmental Conservation

50 Wolf Road, Albany, New York 12233 Henry G. Williams, *Commissioner*

Division of Solid and Hazardous Waste Norman H. Nosenchuck, P.E., *Director*

By:

Recra Environmental, Inc.

ENGINEERING INVESTIGATIONS AT INACTIVE HAZARDOUS WASTE SITES IN THE STATE OF NEW YORK

PHASE I INVESTIGATION

BERNARD COPE SITE VILLAGE OF AKRON, ERIE COUNTY, NEW YORK SITE NO. 915102

Prepared for:

DIVISION OF SOLID AND HAZARDOUS WASTE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION 50 WOLF ROAD, ALBANY, NEW YORK, 12233-0001

Prepared by:

RECRA RESEARCH, INC. 4248 RIDGE LEA ROAD AMHERST, NEW YORK 14226

AUGUST 1987

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SECTION 1 1

1.0 EXECUTIVE SUMMARY

The Bernard Cope site on is approximately 2.3 acres in size and is located on Buell Street in a moderately populated area in the Village of Akron, Erie County, New York. The site was formerly a gravel pit owned by Mr. Bernard Cope, who purchased the property in 1947. The pit was filled beginning in the 1960's with construction debris. Typical wastes included building foundations from the Village of Akron renewal work, street rebuilding wastes, and stone fences from the Salt Road widening. The owner never obtained a permit to operate the dump area although requested to do so by Don Tamol (now Campbell) of the Erie County Department of Environment and Planning in 1978. Little is known about the quantity or character of buried waste at the site and there is no available documented evidence of hazardous waste disposal.

The site has the potential to impact both public health and the environment. Some local residents use groundwater as a potable source and the site lies in close proximity to Murder Creek, a freshwater perennial creek. A New York State Designated Wetland lies downstream of the site. There has been no effort to date to examine the potential impacts on the above-mentioned receptors.

The Phase I effort included a compilation of information gathered from the New York State Department of Environmental Conservation (NYSDEC), the Erie County Department of Environment and Planning, and the site owner, Mr. Bernard Cope.

-1-

The intent of the Hazard Ranking System (HRS) is to provide a method by which uncontrolled hazardous waste sites may be systematically assessed as to the potential risk that a site may pose to human health and the environment. The HRS is designed to provide a numerical value through an assessment of technical data and information, and relating that information with respect to:

- o migration of hazardous substances from the site (Sm)
- o risk involved with direct contact (Sdc)

o the potential for fire and explosion (Sfe).

The risks involved wit direct contact (Sdc) and the potential for fire and explosion (Sfe) are evaluated according to site specific information including toxicity of waste, quantity, site demographics, location with respect to sensitive habitats of wildlife, etc. Migration potential (Sm) is evaluated through the rating of factors associated with three routing modes: groundwater (Sgw), surface water (Ssw) and Air (Sa). The scored value for each route is composited to determine the risk to humans and/or the environment from the migration of hazardous substances from the site (Sm).

Based on information gathered during this investigation, the Bernard Cope site was scored according to the Mitre Corporation Hazard Ranking System (HRS) and the following scores were obtained:

 $S_{m} = 0 (S_{qw} = 0, S_{sw} = 0, S_{a} = 0)$

-2-

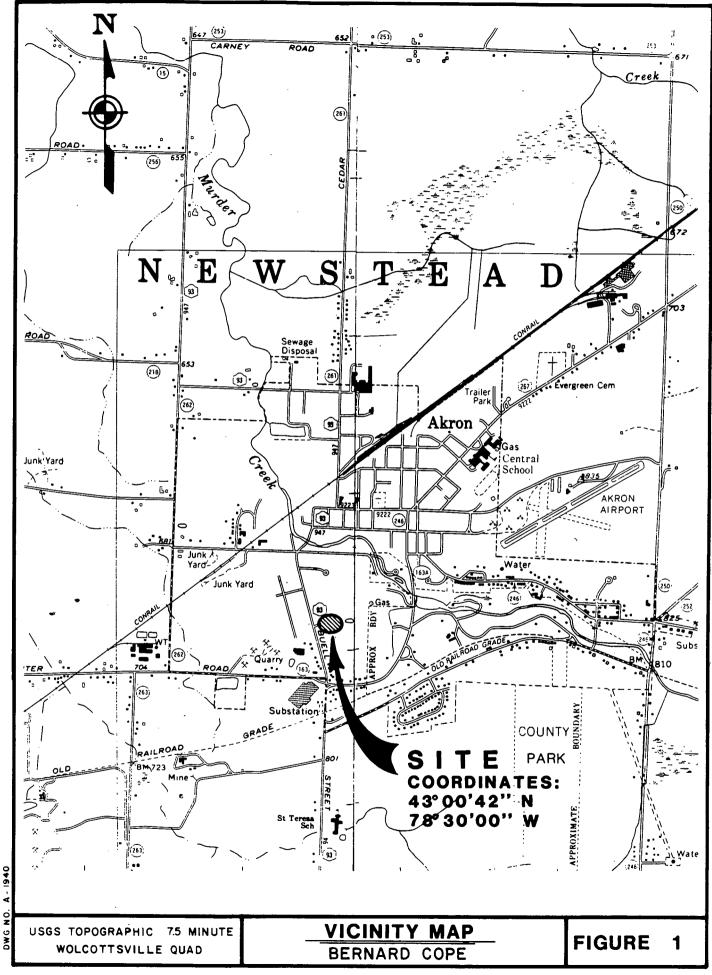
 $S_{fe} = 0$ $S_{dc} = 0$

Data available and utilized in Phase I investigation are considered inadequate for a proper site assessment and suggest a need for additional data gathering and evaluation.

Although the potential for environmental contamination at this site is minimal, it may be advisable to conduct a preliminary site investigation to determine if a complete Phase II investigation is warranted. The preliminary investigation would involve limited soil and groundwater sampling as proposed by the Erie County DEP (Ref 21) and discussed further in Section 6.2. Based on the analytical results obtained in the preliminary investigation, a Phase II investigation would be recommended or not recommended.

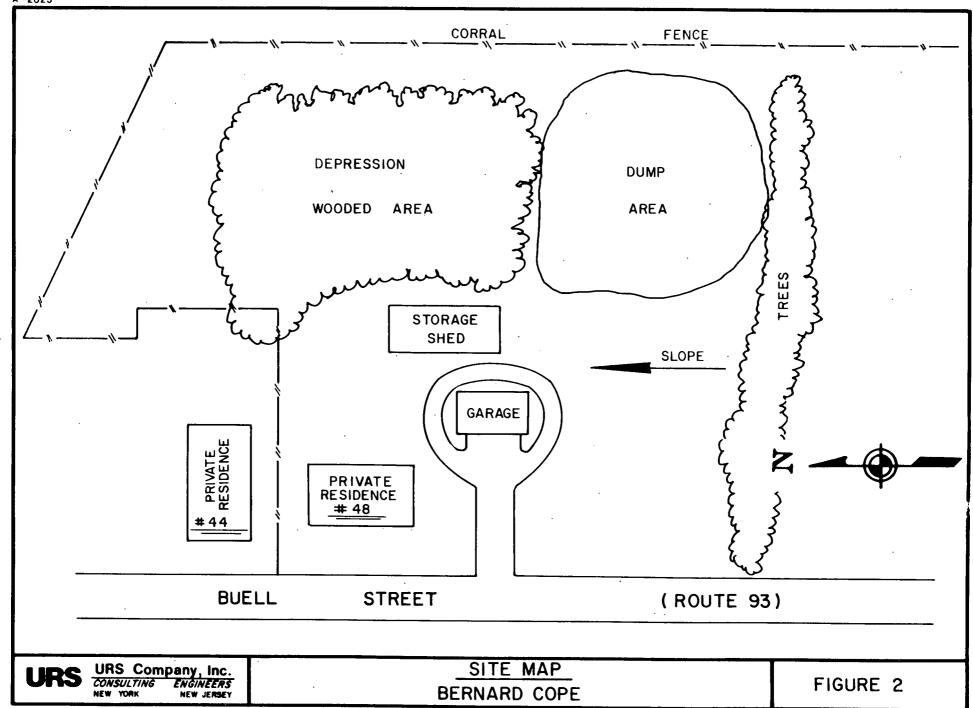
Proposed Phase II investigation activities include air monitoring, subsurface investigation, monitoring well installation, sampling and analysis, determination of the waste quantity potentially at the site, determination of the locations of potable water supply wells within the site vicinity, surveying, and development of an engineering evaluation report and final Hazard Ranking System score. Details of the proposed Phase II investigation program are presented in Section 6.3 of this report.

-3-

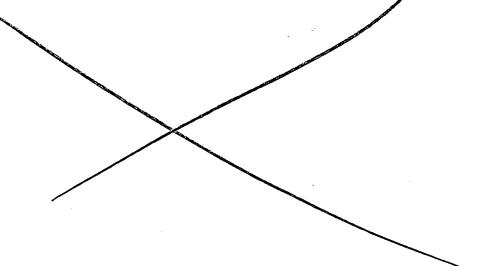


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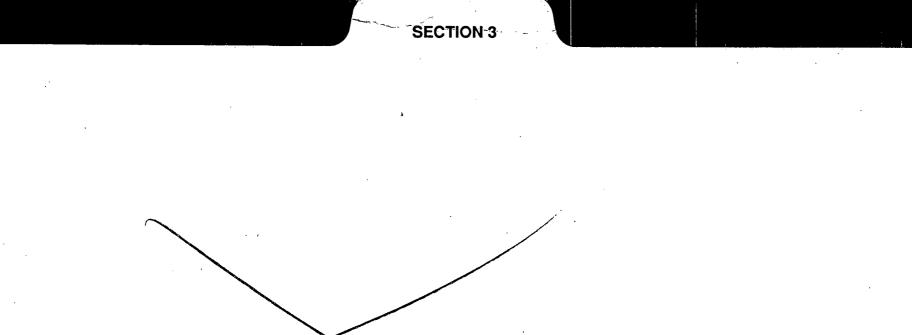
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2.0 PURPOSE OF THE PHASE I INVESTIGATION

The Phase I investigation at the Bernard Cope Site on Buell Street was conducted with the following objectives:

- Collect and review available site specific data and prepare a
 Preliminary Hazard Ranking System (HRS) score.
- Evaluate whether available data are sufficient to complete a final HRS score.
- Prepare a Phase II Investigation work plan if the available data are insufficient to complete a final HRS.

The scope of the investigation was in accord with the terms of the contract, which included a preliminary site inspection but no sampling activities or physical survey of the site.



3.0 PHASE I SCOPE OF WORK

The Phase I investigation at the Bernard Cope site on Buell Street comprised several interrelated tasks as follows:

- (a) Initially, a detailed data and records search was undertaken to compile all available information from identified sources. The information was reviewed and a preliminary description of the site history was developed.
- (b) A preliminary site inspection was conducted by the investigation team to familiarize with the physical conditions of the site and its surroundings, to confirm reported site conditions, and to collect additional data (without performing actual sampling and analyses).
- (c) The preliminary HRS documentation records were prepared using compiled information.
- (d) An analysis of the adequacy of the available data was performed to determine what further investigation would be required to develop a final HRS score.
- (e) A Phase II Investigation work plan was prepared for the additional investigative activities, identified in item (d) above which would permit the final HRS scoring.

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(f) Finally, the Phase I investigation report was prepared to document and summarize the activities and the results of the investigation.

During this investigation, the following sources were contacted for information:

- 0 NYSDEC Region 9 Headquarters Lawrence Clare, P.E.
 - Site inspection reports
- NYSDEC Region 9 Headquarters Mark Kandel, Senior Fish and
 Wildlife Technician

- Wetlands maps, endangered species data.

NYSDEC Region 9 Headquarters - Michael Wilkinson - April 4,
 1986

- Surface water data

 NYSDEC Headquarters, Albany, N.Y. - Anna Wolfe - January 3, 1986

- Waste Inventory Records and Interagency Task Force Finds

NYSDEC Headquarters, Albany, N.Y. - Jack Tygert - December 30,
 1985

- Site information

- o County of Erie Department of Environment and Planning
 - Cameron O'Connor December 16, 1985
 - Site inspection reports
- U.S. Department of Agriculture Soil Conservation Service Douglas Dettenreider, District Conservationist January 28,
 1986

- Agricultural and water supply data

U.S. Department of Interior Geological Survey, Water Resources
 Division, Albany, N.Y. - Lloyd A. Wagner, Information Officer
 January 6, 1986

- Well data and geological data

Town of Akron - Robert Gaddis, Superintendent - December 23,
 1986

- Water supply data

o Town of Newstead - Carol Borchert, Town Clerk - April 2, 1986

- Water supply data

o Town of Pembroke - Doreen Gross - April 2, 1986

Water supply data

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4.0 SITE ASSESSMENT

4.1 Site History

The 2.3 acre Bernard Cope site on Buell Street is located in the Village of Arkon, Erie County, New York. The site is a former gravel pit operated by Mr. Bernard Cope, the owner, for his construction business. The site was purchased by Mr. Cope in 1947. The gravel pit was excavated to a depth of 60 feet below grade and abandoned when shale was encountered. The pit was reportedly dry to the 60 foot depth (Refs. 1, 2 and 22).

There are no available records indicating the duration of disposal activities. The pit was filled beginning in the late 1960's with construction debris collected by Mr. Cope while operating his excavating Other wastes used to fill the pit during the years of business. operation include stone fences from the Salt Road widening, building foundations from the Village of Akron renewal work, and street rebuilding wastes. The site was inspected by the Erie County DEP on October 5, 1978 and was found to be in compliance with NYSDEC, Part 360; however, Mr. Cope was informed that no further dumping would be allowed until a permit was obtained from the DEC. The site was considered closed at the time of inspection. The inspection indicated no apparent evidence of hazardous waste disposal. There is little information available on the nature or quantity of waste disposed. Apparently,

-10-

disposal activities have not occurred since the inspection (Ref. 1 and 19).

Currently, the site is overgrown. Ground elevations are still 15 feet below the original grade. No evidence of protruding refuse or leachate was found (Ref. 22).

4.2 Site Surface Characteristics

The Bernard Cope site is located in a moderately developed residential area in the Village of Akron, Town of Newstead, New York. The Village of Akron is served by a public water supply system from a source in Bennington, New York (Ref. 5). The Town of Newstead has four water districts that supply water to approximately 155 customers; however, most residents of the Town outside of the Village of Akron use groundwater as a potable source as do residents of the neighboring Town of Pembroke (Refs. 6 and 7). Homes in the immediate area of the site use the Village supply system. A large estate south of the site has two wells that are not in use (Ref. 22).

The area topography slopes moderately to the north toward Murder Creek. The private residence of Mr. Bernard Cope is located on the western half of the site. This portion of the site is relatively undisturbed and follows the general topography of the area. However, the eastern half of the site is a former gravel pit that was originally excavated to 60 feet below grade. Ground elevations are still 15 feet below the original grade, which is evident from the horse coral on the

-11-

east side of the site. This fill area falls off rather steeply (approximately 6-8%) toward the north into a wooded area.

4.3 Site Hydrogeology

The Bernard Cope site is reportedly underlain by a thin mantle of glacial till overlying Sulurian age sedimentary rock. The till is characterized as an essentially nonsorted rock material deposited from glacial ice. Till in the region is principally light red in color and silty. Only small quantities of water are transmitted through the till. The permeability of the till unit is so small that large diameter wells are necessary to obtain even small supplies of groundwater (Ref. 4).

The site lies nearby the bedrock contact between the Bertie Limestone unit and the Camillus Shale. The Bertie Limestone is mainly dolestone and dolomitic limestone but contains interbedded shale particularly in the thin bedded lower part of the formation. The middle part is brown, massive dolomite, and the upper part is gray dolomite and shale whose beds are of variable thickness. The total thickness of the formation is about 55 feet (Refs. 3 and 4).

The Camillus varies from thin-bedded shale to massive mudstone. The color is gray or brownish gray but some beds show a tinge of red or green. Gypsum and anhydrite are present in Erie County. The thickness of the formation is approximately 400 feet (Ref. 3).

-12-

The limestone unit is cut transversely by Tonawanda Creek and its major tributaries. Small tributaries flow across it in northerly and westerly directions. The limestone receives water in the interstream areas by percolation into joints. Large volumes of water are transmitted through solution voids along vertical joints and bedding plane joints. The principal zones of discharge are at the base of the Bertie Limestone and along the contact of the shales interbedded within the Bertie. Yields of wells within the limestone unit range through a broad spectrum; however, many large yield wells have been reported (Refs. 3 and 4).

The Camillus Shale is the most productive bedrock aquifer in the area. Inflow of water to gypsum mines near Clarence Center and Akron indicate that large water supplies are possible although large production wells are found only in the vicinity of Buffalo and Tonawanda. Probably the larger solution openings are most common in discharge areas near Tonawanda Creek and its tributaries and near the Niagara River; the flow of groundwater becomes concentrated as it approaches the streams to which it discharges (Ref. 4).

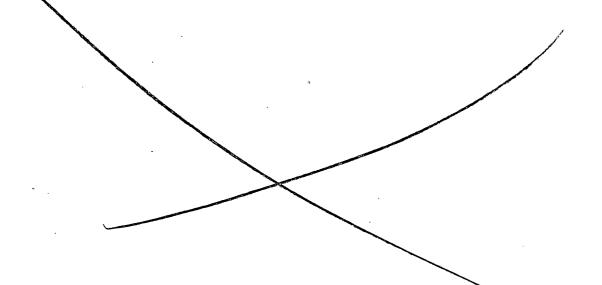
4.4 Site Contamination

No sampling has been conducted at the site to confirm the presence of hazardous substances. Available information is inadequate to reconstruct the history of disposal practices at the site. Moreover, very little information was uncovered during the Phase I investigation

-13-

data search. The site assessment, therefore, is based primarily on the site inspection, the Inactive Hazardous Waste Disposal Site Report and reference material gathered during this study. Many area residents use groundwater as a potable source and surface water lies in close proximity to the disposal area. Due to the lack of information on the possible presence of hazardous substances, the potential for contamination of these water resources is of major concern.

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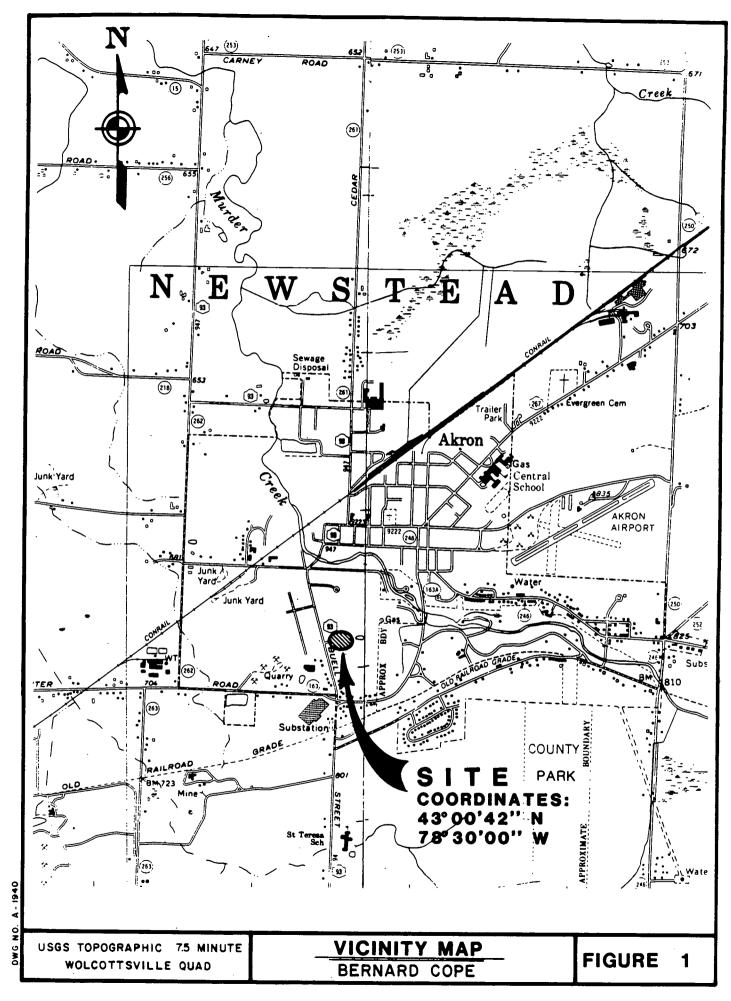
5.0 PRELIMINARY APPLICATION OF THE HAZARD RANKING SYSTEM

5.1 Narrative Summary

The Bernard Cope site on Buell Sreet covers 2.3 acres in the Village of Akron, Erie County, New York. The site was formerly a gravel pit. The current owner partially filled the excavated pit with materials mainly from the Village of Akron and Town of Newstead including demolition debris, cobblestones, timber and brush. The owner never obtained a permit to operate the dump area although requested to do so by the Erie County DEP in 1978. Little is known about the quantity or character of buried waste and there is no available documented evidence of hazardous waste disposal.

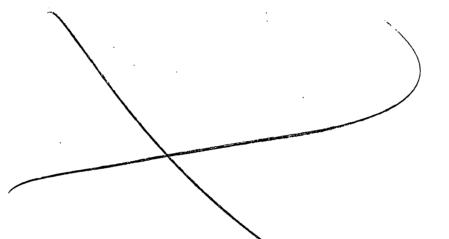
The waste disposal was carried out in an uncontrolled manner and the site has the potential to impact both public health and the environment. Some local residents use groundwater as a potable source and the site lies in close proximity to Murder Creek, a freshwater perennial stream. A nearby New York State Designated Wetland lies downstream of the site. There has been no effort to date to examine the potential impacts on the above-mentioned receptors.

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Factory name:Bernard Co	ope
48 Buell S	Street, Village of Akron, Erie County, N.Y. 14001
	·
Person(s) in charge of the facility:	
	48 Buell Street
	Akron, New York 14001
	esearch April 25, 1986
General description of the facility: (For example: landfill, surface imp facility; contamination route of ma	poundment, pile, container; types of hazardous substances; location of the ajor concern; types of information needed for rating; sgency action, etc.)
	a partially filled gravel pit. Fill was
accepted from local o	communities and reportedly consisted mainly of
demolition debris. L	Little is known of the characters or quantity of
waste. No informatio	on confirming hazardous waste disposal was found.
Both groundwater and	surface water may be impacted by the site.
Scores: $S_M = 0$ ($S_{GW} = 0$	$S_{mu} = 0$ $S_{n} = 0$)
S _{FE} = Ø	
S _{DC} = 0	

FIGURE 1 HRS COVER SHEET

	Ground	water Route W	ork Shee	1			
Rating Factor		igned Value lircle One)		Multi- plier	Score	Max. Score	Ref. (Section
1 Observed Release	• 0	45		1	0	45	3.1
	e is given a score of (e is given a score of (_				
2 Route Characterist Depth to Aquiter Concern		(2) 3		2	4	6	3.2
Net.Precipitation Permeability of th Unsaturated Zor	ne 01	2 3 2 3		1 1	22	3 3	
Physical State	<u>()</u> 1	2 3		1	0 ·	3	
	Total Route	Characteristics	Score		×8	15	
Containment	0 1	2 3		1	3	3	, 3.3
Waste Characterist Toxicity/Persiste Hazardous Waste Quantity	nce (0) 3	6 9 12 15 1 2 3 4 5	1 8 678	1	0 0	18 8	3.4
	Total Waste	Characteristics	Score		0	26	
Targets Ground Water Us Distance to Neard Well/Population Served	est) 0 4	2 (3) 6 8 10 6 (8) 20 9 32 35 40		3	9 18	9 40	3.5
[Total	Targets Score			27	49	
] If line 1] is 45, r		· 5			0	57,330	
	ultiply 2 x 3 x	4 x 5				51,555	

GROUND WATER ROUTE WORK SHEET

🔿 indicates inadequate data

	Surface Water Route Work Shee	et			
Rating Factor	Assigned Value (Circle One)	Multi- plier	Score	Max. Score	Ref. (Section)
1 Observed Release	() 45	1	0	45	4.1
If observed release is give	en a value of 45, proceed to line 4. en a value of 0, proceed to line 2.				
Route Characteristics Facility Slope and Interv Terrain	ening 0 1 2 3	1	2	3	4.2
1-yr, 24-hr. Raintall Distance to Nearest Surt Water	0 1 2 3 tace 0 1 2 3	1 2	2 4	3 6	
Physical State	<u>()</u> 1 2 3	<u>1</u>	0	3	
	Total Route Characteristics Score		8	15	
Containment	0 1 2 3	1	3	3	4.3
 Waste Characteristics Toxicity/Persistence Hazardous Waste Quantity 	0 3 6 9 12 15 18 0 1 2 3 4 5 6 7 8	1 1	0 0	18 8	4.4
	Total Waste Characteristics Score		.0	26	
5 Targets Surface Water Use Distance to a Sensitive Environment	0 1 2 3 0 1 2 3	3 2	6 2	9 6	4.5
Population Served/Distan to Water Intake Downstream	$\begin{array}{c} (0) & 4 & 6 & 8 & 10 \\ 12 & 18 & 18 & 20 \\ 24 & 30 & 32 & 35 & 40 \end{array}$	1	0	40	•. •
	Total Targets Score		8 [.]	55	
6 If line 1 is 45, multiply If line 1 is 0, multiply	1 × 4 × 5 2 × 3 × 4 × 5		Ô	64,350	
7 Divide line 6 by 64,350	and multiply by 100	s _{sw} =	0		

FIGURE 7 SURFACE WATER ROUTE WORK SHEET

🔿 indicates inadequate data

	Air Route	Work Sheet				
Rating Factor	Assigned (Circle (Multi- plier	Score	Max. Score	Ref. (Section)
1 Observed Releas	• 0	45	1	0	45	5.1
Date and Location	1:					
Sampling Protoco	i :				-	
	he S _e = 0. Enter on line then proceed to line 2					
Waste Characteris Reactivity and incompatibility	tics (0, 1 2 3		1	0	3	5.2
Toxicity Hazardoùs Waste Quantity	0 1 2 3 0 1 2 3	4 5 6 7 8	3	0 0	9 8	
		·				
	Total Waste Charac	teristics Score		0	20	
3 Targets Population Within 4-Mile Radius	} 0 9 12 15 } 21 24 27 30	18	1	21	30	5.3
Distance to Sensi Environment	tive 0 1 2 3		2	2	6	
Land Use	0 1 2 3) .	1	3	3	
	Total Target	s Score		26	39	
A Multiply 1 x 2) x 3			0	35,100	
5 Divide line 4 b	7,35,100 and multiply by 100	· · ·	S	0		

FIGURE 9 AIR ROUTE WORK SHEET

🔿 Indicates Inadequate Data

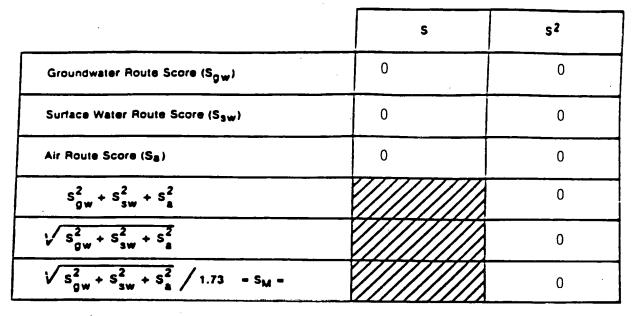


FIGURE 10 WORKSHEET FOR COMPUTING SM

	Fire and Explosion Work She	Bt	· · · · · · · · · · · · · · · · · · ·		
Rating Factor	Assigned Value (Circle One)	Multi- plier	Score	Max. Score	Ref. (Section
	0 3	1	1	3	7.1
Waste Characteristics Direct Evidence Ignitability Reactivity Incompatibility Hazardous Waste Quantity	(1) 2 3 (1) 1 2 3 (1) 1 2 3 (1) 1 2 3 (1) 1 2 3 4 5 6 7	1 1 1 3 1	0 0 0 0 0	3 3 3 8	7.2
	Total Waste Characteristics Score		Ø	20	
3 Targets Distance to Nearest	0 1 2 3 ④ 5	1	4	5	7.3
Population Distance to Nearest Building	0 1 2 3	1	2	3	
Distance to Sensitive Environment	() 1 2 3	1	0	3	
Land Use Population Within	0 1 2 3) 0 1 2 3 4 5	1 1	3 4	3 5	
2-Mile Radius Buildings Within 2-Mile Radius	0 1 2 3 🕚 5	1	4	5	
			·		
	Total Targets Score		17	24	
A Multiply 1 x 2 x 3	•		17	1,440	
5 Divide line 4 by 1,440 a	nd multiply by 100	SFE -	Ô		

FIGURE 11 FIRE AND EXPLOSION WORK SHEET

🔿 Indicates inadequate data

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

🔿 indicates inadequate data

DOCUMENTATION RECORDS FOR HAZARD RANKING SYSTEM

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

FACILITY NAME: Bernard Cope

LOCATION: 48 Buell Street, Akron, N.Y. 14001

GROUNDWATER ROUTE

1 OBSERVED RELEASE

o CONTAMINANTS DETECTED (5 MAXIMUM):

No groundwater sampling has been conducted at the site.

O RATIONALE FOR ATTRIBUTING THE CONTAMINANTS TO THE FACILITY:

N/A

Score 0

2 ROUTE CHARACTERISTICS

DEPTH TO AQUIFER OF CONCERN

o NAME/DESCRIPTION OF AQUIFER(S) OF CONCERN:

The site is underlain by the Camillus shale and Bertie limestone which can be a high water yield formations. Onsite overburden is reported to be glacial till which is generally of low permeability and not a significant water supply source (Refs. 3 and 4).

• DEPTH(S) FROM THE GROUND SURFACE TO THE HIGHEST SEASONAL LEVEL OF THE SATURATED ZONE [WATER TABLE(S)] OF THE AQUIFER OF CONCERN:

Perched water table at 2 to 4 feet below the surface (Ref. 8). Shale encountered during excavation at 60 feet below grade. Ground elevation 15 feet below grade. Rock at approximately 45 feet below grade (Ref. 22).

• DEPTH FROM THE GROUND SURFACE TO THE LOWEST POINT OF WASTE DISPOSAL/STORAGE:

Reported to be 20 feet (Ref. 1).

Score 2

NET PRECIPITATION

MEAN ANNUAL OR SEASONAL PRECIPITATION (LIST MONTHS FOR SEASONAL):
 33.0 inches annually (Ref. 9)

MEAN ANNUAL OR SEASONAL EVAPORATION (LIST MONTHS FOR SEASONAL):
25.0 inches annually (Ref. 9).

o NET PRECIPITATION (SUBTRACT THE ABOVE FIGURES):

8 inches

Score 2

PEREMEABILITY OF UNSATURATED ZONE

• SOIL TYPE IN UNSATURATED ZONE:

Reported to be glacial till (Ref. 4).

• PERMEABILITY ASSOCIATED WITH SOIL TYPE:

 $10^{-4} - 10^{-10}$ cm/sec (Ref. 10)

Score 2

PHYSICAL STATE

O PHYSICAL STATE OF SUBSTANCES AT TIME OF DISPOSAL (OR AT PRESENT TIME FOR GENERATED GASES):

Unknown. Could possibly range from liquid to solid.

Score 0

3 CONTAINMENT

CONTAINMENT

o METHOD(S) OF WASTE OR LEACHATE CONTAINMENT EVALUATED:

Landfilled wastes in excavated gravel pit (Ref. site visit).

o METHOD WITH HIGHEST SCORE:

Landfill, no liner, no run-on control.

Score 3

4 WASTE CHARACTERISTICS

TOXICITY AND PERSISTENCE

o COMPOUND(S) EVALUATED:

Unknown. No evidence of hazardous waste disposal was uncovered during this investigation. A preliminary score of zero has been assigned.

o COMPOUND WITH HIGHEST SCORE:

Unknown

Score 0

HAZARDOUS WASTE QUANTITY

o 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):

Unknown.

Score 0

o BASIS OF ESTIMATING AND/OR COMPUTING WASTE QUANTITY:

No information found indicating hazardous waste burial onsite during this investigation. A preliminary score of zero has been assigned.

5 TARGETS

GROUNDWATER USE

o USE(S) OF AQUIFER(S) OF CONCERN WITHIN A 3-MILE RADIUS OF THE FACILITY:

Drinking water (Refs. 6 and 7)

Score 3

DISTANCE TO NEAREST WELL

 LOCATION OF NEAREST WELL DRAWING FROM AQUIFER OF CONCERN OR OCCUPIED BUILDING NOT SERVED BY A PUBLIC WATER SUPPLY:

Clarence Center Road just west of the New York Central RR tracks (Ref.11)

O DISTANCE TO ABOVE WELL OR BUILDING:

Estimated at 1.1 miles (Ref. 11)

Score 2

POPULATION SERVED BY GROUNDWATER WELLS WITHIN A 3-MILE RADIUS

O IDENTIFIED WATER-SUPPLY WELL(S) DRAWING FROM AQUIFER(S) OF CONCERN WITHIN A 3-MILE RADIUS AND POPULATIONS SERVED BY EACH:

Estimated 500 residences not on public water supply in Town of Newstead (Refs. 7, 11 and 12) Estimated 100 residences served by wells in Town of Pembroke (Refs. 7 and 12)

 $600 \times 3.8 = 2280$

O 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):

Zero (Ref. 13)

• TOTAL POPULATION SERVED BY GROUNDWATER WITHIN A 3-MILE RADIUS:

2280

Score <u>3</u> Matrix Score <u>18</u>

SURFACE WATER ROUTE

1 OBSERVED RELEASE

• CONTAMINANTS DETECTED IN SURFACE WATER AT THE FACILITY OR DOWNHILL FROM IT (5 MAXIMUM):

No surface water sampling has been conducted at the site.

o RATIONALE FOR ATTRIBUTING THE CONTAMINANTS TO THE FACILITY:

N/A

Score 0

2 ROUTE CHARACTERISTICS

FACILITY SLOPE AND INTERVENING TERRAIN

• AVERAGE SLOPE OF FACILITY IN PERCENT:

Estimated at 6-8% during site visit.

NAME/DESCRIPTION OF NEAREST DOWNSLOPE SURFACE WATER:Murder Creek (small, perennial, freshwater stream)

• AVERAGE SLOPE OF TERRAIN BETWEEN FACILITY AND ABOVE-CITED SURFACE WATER BODY IN PERCENT:

Estimated at 4-5% during site visit

O IS THE FACILITY LOCATED EITHER TOTALLY OR PARTIALLY IN SURFACE WATER?

No

Score 2

o IS THE FACILITY COMPLETELY SURROUNDED BY AREAS OF HIGHER ELEVATION? No

1-YEAR 24-HOUR RAINFALL IN INCHES

2.1 inches (Ref. 14)

Score 2

DISTANCE TO NEAREST DOWNSLOPE SURFACE WATER

Estimated at 1/2 mile during site visit.

Score 2

PHYSICAL STATE OF WASTE

Unknown. Could range from liquid to solid

Score 0

3 CONTAINMENT

CONTAINMENT

METHOD(S) OF WASTE OR LEACHATE CONTAINMENT EVALUATED:Landfilled wastes in excavated gravel pit (Ref. site visit).

METHOD WITH HIGHEST SCORE:Landfill, no liner, no run-on controlScore 3

4 WASTE CHARACTERISTICS

TOXICITY AND PERSISTENCE

o COMPOUND(S) EVALUATED

No information found indicating hazardous waste burial onsite during this investigation. A preliminary score of zero has been assigned.

o COMPOUND WITH HIGHEST SCORE:

Unknown

Score O

HAZARDOUS WASTE QUANTITY

o 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):

Unknown.

Score O

o BASIS OF ESTIMATING AND/OR COMPUTING WASTE QUANTITY:

No information found indicating hazardous waste burial on site during this investigation. A preliminary score of zero has been assigned.

5 TARGETS

SURFACE WATER USE

• USE(S) OF SURFACE WATER WITHIN 3 MILES DOWNSTREAM OF THE HAZARDOUS SUBSTANCE:

Recreation and fishing (Ref. 15).

Score 2

o ____IS THERE TIDAL INFLUENCE?

No

DISTANCE TO A SENSITIVE ENVIRONMENT

O DISTANCE TO 5-ACRE (MINIMUM) COASTAL WETLAND, IF 2 MILES OR LESS: None within 2 miles of site.

o DISTANCE TO 5-ACRE (MINIMUM) FRESH-WATER WETLAND, IF 1 MILE OR LESS:

Less than 1 mile to designated wetland WO-14 (Ref. 16).

• DISTANCE TO CRITICAL HABITAT OF AN ENDANGERED SPECIES OR NATIONAL WILDLIFE REFUGE, IF 1 MILE OR LESS:

None within one mile of site (Ref. 16).

Score 1

POPULATION SERVED BY SURFACE WATER

O 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:

There are no water supply intakes within 3 miles of this site (Refs. 5, 13 and 17).

• COMPUTATION OF LAND AREA IRRIGATED BY ABOVE-CITED INTAKE(S) AND CONVERSION TO POPULATION (1.5 PEOPLE PER ACRE):

Zero (Ref. 13)

o TOTAL POPULATION SERVED:

Zero

• NAME/DESCRIPTION OF NEAREST OF ABOVE WATER BODIES:

N/A

O DISTANCE TO ABOVE-CITED INTAKES, MEASURED IN STREAM MILES.

Score O

AIR ROUTE

1 OBSERVED RELEASE

o CONTAMINANTS DETECTED:

No air monitoring has been conducted at the site (Inspection was performed in March).

O DATE AND LOCATION OF DETECTION OF CONTAMINANTS

N/A

o METHODS USED TO DETECT THE CONTAMINANTS:

N/A

o RATIONALE FOR ATTRIBUTING THE CONTAMINANTS TO THE SITE: N/A

Score 0

2 WASTE CHARACTERISTICS

REACTIVITY AND INCOMPATIBILITY

o MOST REACTIVE COMPOUND:

No information found indicating hazardous waste burial on site. No known reactive compounds present.

o MOST INCOMPATIBLE PAIR OF COMPOUNDS:

No information found indicating hazardous waste burial on site. No known incompatible compounds present.

Score $\underline{0}$

TOXICITY

o MOST TOXIC COMPOUND:

No information found indicating hazardous waste burial on site during this investigation. A preliminary score of zero has been assigned.

Score 0

HAZARDOUS WASTE QUANTITY

o TOTAL QUANTITY OF HAZARDOUS WASTE:

Unknown.

Score O

• BASIS OF ESTIMATING AND/OR COMPUTING WASTE QUANTITY:

No information found indicating hazardous waste burial on site during this investigation. A preliminary score of zero has been assigned.

3 TARGETS

POPULATION WITHIN 4-MILE RADIUS

O UNDERLINE 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

Estimated at 175 from USGS Topographic Map.

Score 21

DISTANCE TO A SENSITIVE ENVIRONMENT

O DISTANCE TO 5-ACRE (MINIMUM) COASTAL WETLAND, IF 2 MILES OR LESS: None within 2 miles of site. o DISTANCE TO 5-ACRE (MINIMUM) FRESH-WATER WETLAND, IF 1 MILE OR LESS:

Less than 1 mile to NYS designated wetland WO-14 (Ref. 16)

O DISTANCE TO CRITICAL HABITAT OF AN ENDANGERED SPECIES, IF 1 MILE OR LESS:

None within 1 mile of site (Ref. 16)

Score 1

LAND USE

DISTANCE TO COMMERCIAL/INDUSTRIAL AREA, IF 1 MILE OR LESS:Less than 1/4 mile from site (Ref. site visit).

O DISTANCE TO NATIONAL OR STATE PARK, FOREST, OR WILDLIFE RESERVE, IF 2 MILES OR LESS:

None within 2 miles of site; however, Akron Falls County Park is located nearby the Cope site (Ref. 13).

O DISTANCE TO RESIDENTIAL AREA, IF 2 MILES OR LESS:

Less than 1/4 mile from site (Ref. site visit).

O DISTANCE TO AGRICULTURAL LAND IN PRODUCTION WITHIN PAST 5 YEARS, IF 1 MILE OR LESS:

Less than 1/2 mile (Ref. 13).

• DISTANCE TO PRIME AGRICULTURAL LAND IN PRODUCTION WITHIN PAST 5 YEARS, IF 2 MILES OR LESS:

Less than 1/2 mile (Ref. 13).

O IS A HISTORIC OR LANDMARK SITE (NATIONAL REGISTER OR HISTORIC PLACES AND NATIONAL NATURAL LANDMARKS) WITHIN THE VIEW OF THE SITE?

Information has been requested from NYS Office of Parks and Recreation, but has not yet been received (Ref. 18)

Score 3

FIRE AND EXPLOSION

1 CONTAINMENT

o HAZARDOUS SUBSTANCES PRESENT:

No information found indicating hazardous waste on site.

• TYPE OF CONTAINMENT, IF APPLICABLE

All waste material has been buried. Depth of cover unknown. Score $\underline{1}$

2 WASTE CHARACTERISTICS

DIRECT EVIDENCE

o TYPE OF INSTRUMENT AND MEASUREMENTS:

No measurements taken.

Score O

IGNITABILITY

o COMPOUND USED:

No known ignitable compounds.

Score <u>0</u>

REACTIVITY

o MOST REACTIVE COMPOUND:

No known reactive compounds present.

Score $\underline{0}$

INCOMPATIBILITY

o MOST INCOMPATIBLE PAIR OF COMPOUNDS:

No known incompatible compounds present

Score <u>0</u>

HAZARDOUS WASTE QUANTITY

o TOTAL QUANTITY OF HAZARDOUS SUBSTANCES AT THE FACILITY: Unknown.

Score O

o BASIS OF ESTIMATING AND/OR COMPUTING WASTE QUANTITY:

No information found indicating hazardous waste burial on site during this investigation. A preliminary score of zero has been assigned.

3 TARGETS

DISTANCE TO NEAREST POPULATION

Within 200 feet (Ref. site visit).

Score 4

DISTANCE TO NEAREST BUILDING

Within 200 feet (Ref. site visit).

Score 2

DISTANCE TO SENSITIVE ENVIRONMENT

O DISTANCE TO WETLANDS:

Little less than 1 mile to NYS designated wetland WO-14 (Ref. 16) Score O

o DISTANCE TO CRITICAL HABITAT: None in area (Ref. 16).

Score O

LAND USE

DISTANCE TO COMMERCIAL/INDUSTRIAL AREA, IF 1 MILE OR LESS:
 Less than 1/4 mile (Ref. site visit).

O DISTANCE TO NATIONAL OR STATE PARK, FOREST, OR WILDLIFE RESERVE, IF 2 MILES OR LESS:

None within 2 miles of site (Ref. 13).

O DISTANCE TO RESIDENTIAL AREA, IF 2 MILES OR LESS:

Less than 1/4 mile (Ref. site visit).

O DISTANCE TO AGRICULTURAL LAND IN PRODUCTION WITHIN PAST 5 YEARS, IF 1 MILE OR LESS:

Less than 1/2 mile (Ref. 13).

O DISTANCE TO PRIME AGRICULTURAL LAND IN PRODUCTION WITHIN PAST 5 YEARS, IF 2 MILES OR LESS:

Less than 1/2 mile (Ref. 13).

O IF A HISTORIC OR LANDMARK SITE (NATIONAL REGISTER OR HISTORIC PLACES AND NATIONAL NATURAL LANDMARKS) WITHIN THE VIEW OF THE SITE?

Information has been requested from NYS Office of Parks and Recreation but has not yet been received (Ref. 18).

Score 3

POPULATION WITHIN 2-MILE RADIUS

4500 - 4800 (Ref. 12).

Score 4

BUILDINGS WITHIN 2-MILE RADIUS

1220 - 1250 (Ref. 12).

Score 4

DIRECT CONTACT

1 OBSERVED INCIDENT

DATE, LOCATION, AND PERTINENT DETAILS OF INCIDENT:None known.

Score 0

2 ACCESSIBILITY

O DESCRIBE TYPE OF BARRIER(S):

No barriers, fill area is covered.

Score 3

3 CONTAINMENT

o TYPE OF CONTAINMENT, IF APPLICABLE:

Fill area is covered. Depth of cover unknown. No evidence of hazardous waste disposal found during this investigation.

Score 0

4 WASTE CHARACTERISTICS

TOXICITY

o COMPOUNDS EVALUATED:

No information found indicating hazardous waste burial on site during this investigation. A preliminary score of zero has been assigned.

o COMPOUND WITH HIGHEST SCORE:

5 TARGETS

POPULATION WITHIN ONE-MILE RADIUS

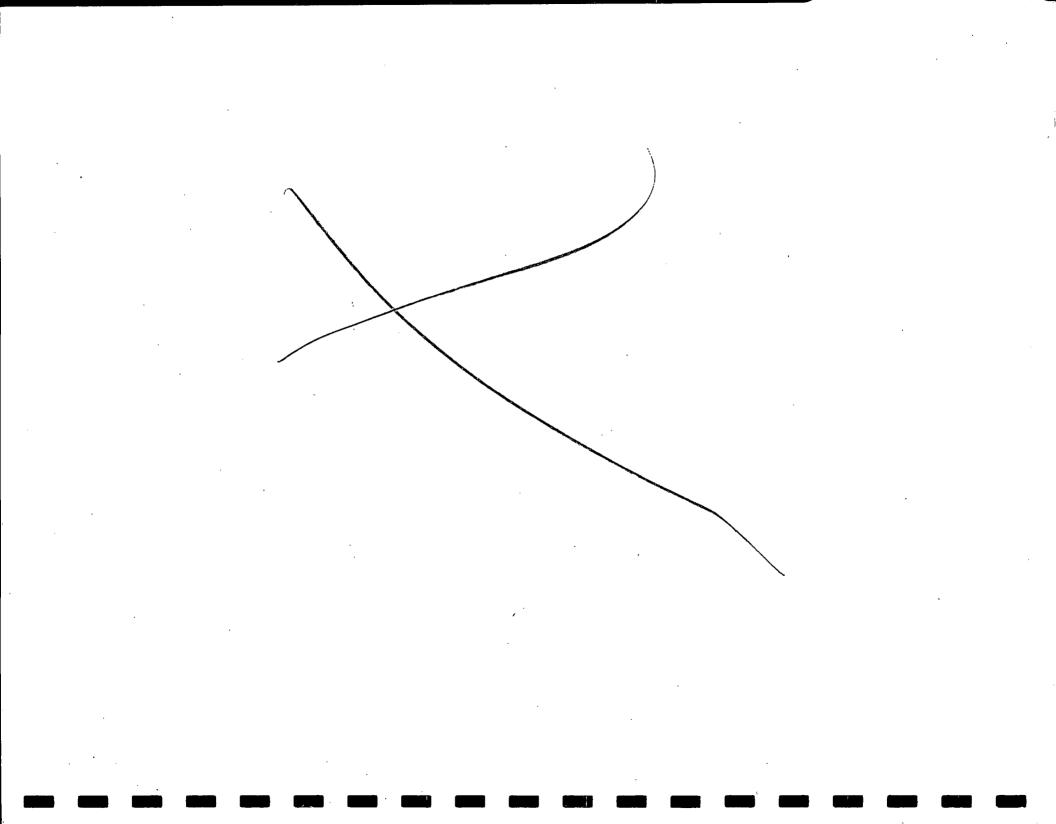
2700 - 3000

Score <u>3</u>

DISTANCE TO CRITICAL HABITAT (OF ENDANGERED SPECIES)

None in area

Score <u>0</u>



	POTENTIAL HA	ZARDOUS	WASTE SIT	IE	I. IDENTIF	ICATION	
\$¢EPA	PRELIMIN/ PART 1 - SITE INFOR				OI STATEO	2 SITE NUMBER 915102	
II. SITE NAME AND LOCATION			NU A335555A			515102	
11. SITE NAME AND LOCATION	• · · · · · · · · · · · · · · · · · · ·	LO2 STRE					
Bernard Cope	, 	48	Buell St		NIDENTIFIER		
Village of Akron		04 STATE NY	14001	Erie		07COUNT CODE	08 CONG DIST
09 COORDINATES LATITUDE 430042.0N	LONGITUDE	W	4	L		<u> </u>	L
Enter private portion of pro	driveway from Bu	ell St.	and proce	ed past ga	irage to	rear	
III. RESPONSIBLE PARTIES							
Bernard Cope	······································		Buell Str				
Village of Akro	on	1	05 29 CODE 14001	(716)542		·	
07 OPERATOR (I known and alterest from owner)		OB STREE	T (Brannes, making, i	1			
09 CITY	·	10 STATE	11 ZIP CODE	12 TELEPHONE	NUMBER		
3 TYPE OF OWNERSHIP (Cross and)	· · · · · · · · · · · · · · · · · · ·				· · ·		
	(Agoney name)		- C. STAT		" 🗆 E. MUN	IICIPAL	
A DODA DODA DOTA DOTIFICATION ON FILE (Che	In all that apply)					·····	
	DAY YEAR	OLLED WASTI	E SITE (CERCLA 10)		ED: /	V VEAR & C	NONE
V. CHARACTERIZATION OF POTENTIAL	HAZARD						
□ YES DATE <u>3 ', 27, 86</u> □ NO MONTH DAY YEAR	C E. LOCAL HEALTH O		F. OTHER:		D. OTHER C	ONTRACTOR	
2 SITE STATUS (Chest and)	CONTRACTOR NAME(S	·	Researc	n, Inc.			
	-	Unknowr Beginning ye					
A DESCRIPTION OF SUBSTANCES POSSIBLY PRES							_
No reported evi	dence of hazardo	us waste	e disposa]		·	
5 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRG	DIMENT AND/OR POPULATION					•	
Groundwater use populated Villa	d as a potable s ge of Akron-pop	ource. 2971 (Re	Site loca f. 20)	ated in moc	lerately		
PRIORITY ASSESSMENT							
1 PRIORITY FOR INSPECTION (Creck one. If high or medi		niumation and Parl	3 - Description of Haz	andous Conditions and inc.	denty		
I. INFORMATION AVAILABLE FROM			(Ka hara	Ner asten needed. comple	He current deposes	n formal	·
Gary Cox	RECRA	Researc	h, Inc.			IS TELEPHONE	
PERSON RESPONSIBLE FOR ASSESSMENT	05 AGENCY	106 ORGA				716) 838	-6200
Craig W. Pawlews	ski		Company,	716 1883		3 ,26	,86

EPA FORM 2070-12 (7-81)

\$EI	PA	PO		RDOUS WASTE ASSESSMENT EINFORMATION	,	I. IDENTIF	ICATION SITE NUMBER 915102
II. WASTES	TATES, QUANTITIES, AN	•					
C A SOLID C B. POWDE C C. SLUDGE	TATES (Creck of the appy) C E. SLURAY R. FINES C F LIQUID	02 WASTE QUANT (Messures must be TONS	ITY AT SITE of white quantizes independent)	03 WASTE CHARACT A. TOXIC B. CORRO C. RADIOA D. PERSIS	C E. SOL SIVE C F. INFE CTIVE C G. FLA	UBLE CEM ECTIOUS C.E. MMABLE C.K.F TABLE C.L.II	IGHLY VOLATILE XPLOSIVE REACTIVE VCOMPATIBLE NOT APPLICABLE
III. WASTE T	YPE	<u> </u>		L			
CATEGORY	SUBSTANCE N	AME	01 GROSS AMOUNT	OZ UNIT OF MEASURE	03 COMMENTS		
SLU	SLUDGE	<u> </u>	1				
OLW	OILY WASTE						· · · · · · · · · · · · · · · · · · ·
SOL	SOLVENTS					· · · · · · · · · · · · · · · · · · ·	
PSD	PESTICIDES		No info	rmation ava	lable on d	character c	
000	OTHER ORGANIC CH	EMICALS	quantit	y of waste			<u></u>
IOC	INORGANIC CHEMIC	ALS					·····
ACD	ACIDS		<u>† </u>	†			
BAS	BASES						
MES	HEAVY METALS						
V. HAZARDO	OUS SUBSTANCES (See An	pendix for most frequent	ly cited CAS Municersi				
1 CATEGORY	02 SUBSTANCE NA		03 CAS NUMBER	04 STORAGE/DIS	OSAL METHOD	05 CONCENTRA	
1							CONCENTRATE
	None reported						
	<u>- none reported</u>			<u> </u>			
			· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·			
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		<u> </u>					
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	. <u> </u>					_L	
					·		
. FEEDSTOC	KS (See Appendix for CAS munder		<u> </u>				· · · · · · · · · · · · · · · · · · ·
CATEGORY	01 FEEDSTOCK		02 CAS NUMBER	CATEGORY	01 56600		02 CAS NUMBE
FDS				FDS			
FDS							
				FDS			
FDS				FDS			
FDS				FDS			
I. SOURCES	OF INFORMATION (Cate as	eche references, e.g.,	state fles, sample analysis, r				
							• ·
	NYSDEC Reg	ion 9					
				•=			

EPA FORM 2070-12 (7-81)

O COA POTEN	TIAL HAZARDOUS WASTE SITE	I. IDENTIP	
	RELIMINARY ASSESSMENT		2 SITE NUMBER 15102
HAZARDOUS CONDITIONS AND INCIDENTS			
1 C A. GROUNDWATER CONTAMINATION 228	0 02 - OBSERVED (DATE:		
SPOPOLATION POTENTIALLY AFFECTED.			
a potable supply (Refs.	some local residents use grou	indwater as	
	02 C OBSERVED (DATE		
3 POPULATION POTENTIALLY AFFECTED: _UNKno	Wh_ 04 NARRATIVE DESCRIPTION		
Murder Creek used for r	ecreational fishing (Ref 15)		
	02 - OBSERVED (DATE:)		
3 POPULATION POTENTIALLY AFFECTED:	04 NARRATIVE DESCRIPTION		
None reported.			
	02 C OBSERVED (DATE:		
POPULATION POTENTIALLY AFFECTED:			
None reported	· · · · · · · · · · · · · · · · · · ·		
E. DIRECT CONTACT 1000+			I ALLEGED
	d the facility. Waste is cove	wad but danth	
of cover unknown. No de	ocumented evidence of hazardou	is waste buria	1
(Ref. site visit)			·
AREA POTENTIALLY AFFECTED: 0.5	02 C OBSERVED (DATE:)	Z POTENTIAL	
(Acres)	04 NARRATIVE DESCRIPTION		
Fill area			
· · ·	· ·		
C. G. DRINKING WATER CONTAMINATION 2280	02 - OBSERVED (DATE:)		
	04 NARRATIVE DESCRIPTION		
potable supply (Refs. 6	some local residents use groun and 7)	uwater as a	
C H. WORKER EXPOSURE/INJURY 2			
	04 NARRATIVE DESCRIPTION		
None reported			
	02 02 03 04 NARRATIVE DESCRIPTION		
Barriers do not surround by local residents (Ref	the facility. Potential for	direct contac	ct
	Contract with the first state of the second st		

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	POTENTIAL HAZARDOUS WASTE SITE		I. IDENTIFH	
	PRELIMINARY ASSESSMENT DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDEN	rs	01 STATE 02 NY 91	SITE NUMBER
I. HAZARDOUS CONDITIONS AND	INCIDENTS (Commune			
01 J. DAMAGE TO FLORA 04 NARRATIVE DESCRIPTION	02 C OBSERVED (DATE:)	٥	POTENTIAL	C ALLEGED
Non Repor	ted			
	02 C OBSERVED (OATE:)		POTENTIAL	C ALLEGED
None Repo	rted			
01 EL CONTAMINATION OF FOOD C 04 NARRATIVE DESCRIPTION	HAIN 02 🗆 OBSERVED (DATE)	٥	POTENTIAL	
None Repo	rted			
		0	POTENTIAL	
03 POPULATION POTENTIALLY AFFEC				
None Repo	rted			
01 C N. DAMAGE TO OFFSITE PROP 04 NARRATIVE DESCRIPTION	RTY 02 C OBSERVED (DATE:)	٥	POTENTIAL	
None Repo	rted	•	• -	
01 G O. CONTAMINATION OF SEWER 04 NARRATIVE DESCRIPTION	S. STORM DRAINS, WWTPs 02 C OBSERVED (DATE:)	a	POTENTIAL	C ALLEGED
None Repo	rted			
01 T. P. ILLEGAL/UNAUTHORIZED DU	MPING 02 C OBSERVED (DATE:)		POTENTIAL	
None Repo	rted			
05 DESCRIPTION OF ANY OTHER KN	WN, POTENTIAL, OR ALLEGED HAZARDS		<u></u>	
None Know	n			
	LLY AFFECTED:			
IV. COMMENTS				
	no available documented evidence indication of waste buried. There is no evidence ava	1 .	hla of h	a za ndou c
waste dis could be	of waste burled. There is no evidence avo posal on site. However;groundwater is used effected.	1 as	a potab	le supply &
V. SOURCES OF INFORMATION IC	o spocific references, e. g., stele Mes, sample enalysis, reports)			
NYSDEC Re Town of M Town of F	ewstead			
PA FORM 2070-12 (7-81)				· · · · · · · · · · · · · · · · · · ·

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	PO	TENTIAL HAZAR	DOUS	WASTE SITE		ENTIFICATION
\$EPA		SITE INSPEC	TION RI	EPORT		ATE 02 SITE NUMBER 915102
II. SITE NAME AND LO						
01 SITE NAME (Legal. commo	n, or descriptive name of stel		02 STREE	T. ROUTE NO., OR S	PECIFIC LOCATION IDENTIF	
Bernard	Соре	•		Buell Str		
	- C Min			05 ZIP CODE	06 COUNTY	
VILLAGE	of Akron	10 TYPE OF OWNERS	NY	14001	Erie	
4 3 0 0 4 2. (B. FE	DERAL		
1 DATE OF INSPECTION	02 SITE STATUS	03 YEARS OF OPERA	TION			
3 / 27/ 86			nknowr			M WC
	TE CONTRACTOR RECRA	esearch. In	C G. OT		UNICIPAL CONTHACTO	(Name of firm)
5 CHIEF INSPECTOR		Name of firm)			(Specify) 07 ORGANIZATION	08 TELEPHONE NO.
Craig W. Paw	lewski	Project	Engine	or	URS Compan	
OTHER INSPECTORS		10 TITLE	-ing me		11 ORGANIZATION	12 TELEPHONE NO.
						()
						()
						()
	<u> </u>					()
				_		()
3 SITE REPRESENTATIVES		14 TITLE	· 1	SADORESS	_	16 TELEPHONE NO
Bernard Cop	e	Owner		48 Buell	Street	(716542-4356
	·			· · · · · · · · · · · · · · · · · · ·		()
·						()
						()
						()
						()
7 ACCESS GAINED BY (Check one)	18 TIME OF INSPECTION	19 WEATHER COND	-			
PERMISSION WARRANT	9:30 A.M.	partly c	loudy	, 500		
. INFORMATION AVA	ILABLE FROM					
Gary Cox		02 OF (Agency/Organia RECRA Re		h, Inc.		03 TELEPHONE NO. 716)838-6200
	Pawlewski	05 AGENCY		www.anow Company,In	07 TELEPHONE NO. (716)883-552	08 DATE

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EPA FORM 2070-13 (7-81)

€E	7 A	Ρ		RDOUS WASTE TION REPORT E INFORMATION		I. IDENTIFICATI	IUMBER
II. WASTES	TATES, QUANTITIES, AN	D CHARACT	ERISTICS				_
C A. SOLID C B. POWDE C C. SLUDGI	unknown	mus TON: CUBIC YARD:	es al waste quertimes L'oe independenti S S		ERISTICS (Check at the of ERISTICS (Check at the of E SOLL SIVE E SOLL SIVE E G FLAN CTIVE G FLAN TENT H IGNIT		VE VE ATIBLE
		NO. OF DRUM	S	L		<u>.</u>	
CATEGORY	SUBSTANCE N						_
SLU	SLUDGE		01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS		
OLW	OILY WASTE			<u>-</u>		<u></u>	<u> </u>
SOL	SOLVENTS		No inform	tion avail		·····	
PSD	PESTICIDES		quantity	tion availa	ible on cha	racter or	
000	OTHER ORGANIC CH		quarterey	i waste			· ·
100	INORGANIC CHEMIC						
ACD	ACIDS	~~~			<u> </u>		
BAS	BASES						
MES	HEAVY METALS						
	DUS SUBSTANCES (See AD			L	L		
1 CATEGORY	02 SUBSTANCE N		03 CAS NUMBER	04 STORAGE/DIS		05 CONCENTRATION	OG MEASURE
							CONCENTRAT
	<u> </u>					+	
	Nama way auto d						
	None reported						
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					· · · · · · · · · · · · · · · · · · ·		_
		•					+
							
							<u> </u>
		-				L	L
						ļ	
		•					
V. FEEDSTO	CKS (See Accendia for CAS Mumbe					<u>.</u>	1
CATEGORY	01 FEEDSTOC		02 CAS NUMBER	CATEGORY	01 FEEDST		02 CAS NUMB
FDS				FDS			
FDS				FDS			
FDS				FDS		· · ·	 · <u></u>
FDS	· ·			FDS			
	OF INFORMATION ICAN						

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EPA FORM 2070-13(7-81)

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	AZARDOUS WASTE SITE	I. IDENTIFI	· · · · · · · · · · · · · · · · · · ·
	SPECTION REPORT AZARDOUS CONDITIONS AND INCIDEN	TS	SITE NUMBER 915102
I. HAZARDOUS CONDITIONS AND INCIDENTS	· · · · · · · · · · · · · · · · · · ·		
01 = A. GROUNDWATER CONTAMINATION 2280	02 G OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION		
None reported; however, some loc supply (Refs 6 and 7)	· · · · · · · ·	er as a potal	ble
01 C B. SURFACE WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED: UNKNOWN	02 C OBSERVED (DATE) 04 NARRATIVE DESCRIPTION		C ALLEGED
Murder Creek used for recreation	al fishing (Ref 15).		
01 / C. CONTAMINATION OF AIR 03 POPULATION POTENTIALLY AFFECTED:	02 _ OBSERVED (DATE) 04 NARRATIVE DESCRIPTION		
None reported			
D1 C D. FIRE/EXPLOSIVE CONDITIONS	02 TOBSERVED (DATE:) 04 NARRATIVE DESCRIPTION		
None reported			
DI C E DIRECT CONTACT D3 POPULATION POTENTIALLY AFFECTED: <u>1000+</u> Barriers do not completely surrou cover unknown. No documented ev (Ref. site visit).	02 COBSERVED (DATE) 04 NARRATIVE DESCRIPTION und the facility. Waste is idence of hazardous waste b	ă potentia∟ covered but urial	□ ALLEGED c depth of
DI T.F. CONTAMINATION OF SOIL 0.5	02 - OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION		
Fill area			
1 E G. DRINKING WATER CONTAMINATION 2280	02 C OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	Z POTENTIAL	
None reported; however some loca supply. (Refs 6 and 7)	l residents use groundwater	as a potabl	e
None reported.	02 COBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	Z POTENTIAL	C ALLEGED
-			
01 I. POPULATION EXPOSURE/INJURY 03 POPULATION POTENTIALLY AFFECTED:	02 COBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	2 POTENTIAL	

.

EPA FORM 2070-13 (7-81)

<u>A EDA</u>	POTENTIAL HAZARDOUS WASTE SITE	I. IDENTIFICATION		
PART 3-DE	SITE INSPECTION REPORT SCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS	01 STATE 02 NY	915102	
II. HAZARDOUS CONDITIONS AND INC	DENTS (Continued)			
01 D J. DAMAGE TO FLORA 04 NARRATIVE DESCRIPTION	02 OBSERVED (DATE:)			
None Reported				
01 C K. DAMAGE TO FAUNA 04 NARRATIVE DESCRIPTION (Include name(3) of				
None Reported				
01 C L. CONTAMINATION OF FOOD CHAIN 04 NARRATIVE DESCRIPTION	02 C OBSERVED (DATE:)			
None Reported				
01 IM. UNSTABLE CONTAINMENT OF WA (Solita: Runolf: Stending liquida, Leeking druma)				
D3 POPULATION POTENTIALLY AFFECTED:. None Reported				
D1 N. DAMAGE TO OFFSITE PROPERTY D4 NARRATIVE DESCRIPTION	02 _ OBSERVED (DATE:)			
None Reported				
	ORM DRAINS. WWTPs 02 C OBSERVED (DATE:)			
None Reported				
	G 02 C OBSERVED (DATE:)			
None Reported				
D5 DESCRIPTION OF ANY OTHER KNOWN,	POTENTIAL. OR ALLEGED HAZARDS	•		
None Known				
IL TOTAL POPULATION POTENTIALLY	AFFECTED			
V. COMMENTS				
buried, and there is	e evidence indicating the character or qu no evidence of hazardous waste disposal as a potable supply and could be effected	onsite.	waste However,	
buried, and there is groundwater is used a	e evidence indicating the character or qu no evidence of hazardous waste disposal as a potable supply and could be effected	onsite.	waste However,	
buried, and there is	e evidence indicating the character or qu no evidence of hazardous waste disposal as a potable supply and could be effected	onsite.	waste However,	

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0 EDA	POTENTI	AL HAZARDO	US WASTE SITE		1. IDENTIFICATION
SEPA		SITE INSPE		NY 915102	
	· PART 4 - PERM	IT AND DESCI	IPTIVE INFORMA		
I. PERMIT INFORMATION					
1 TYPE OF PERMIT SSUED	DE RERMITINUMBER	JUS DARE SAUE	0 JECPIRATION DAT	E 15 COMMENTS	5
A NPDES					
. B UIC					
. C AIR					
D RCRA					
E ACRA INTERIM STATUS		i			
F SPCC PLAN					
G STATE for the					
LA LOCAL Service					
A. OTHER Starts					·
J. NONE					
SITE DESCRIPTION					
STORAGE DISPOSAL State Art 1 122 -	LE AMOUNE DIS UNIT	DF MEASURE DF	CREATMENT Die Antore	12	25 OTHER
			A INCENERATION		THAN THE OWNER ON SITE
- B PILES -		.	S UNDERGROUND IN	JECTION	XA BUILDINGS ON SITE
C DRUMS, ABOVE GROUND	<u></u>		C CHEMICAL PHYSIC	AL	
D TANK ABOVE GROUND	······································		D BIOLOGICAL		
C. E. TANK BELOW GROUND	inknown	1	E WASTE OIL PROCE		16 AREA OF 3 TE
*		1	F SOLVENT RECOVE		2.3
TIG LANDFARM	Inknown		G OTHER RECYCLING		·•c:
			W OTHER		
				:'.	
COMMENTS	ence of bazardo	· · ·	H OTHER		
	ence of hazardou	· · ·			
COMMENTS	ence of hazardo	· · ·			
No documented evide	ence of hazardou	· · ·			
No documented evide	ence of hazardou	· · ·			
No documented evide	ence of hazardou	us waste o		ite.	UPE UNSCUND DANGEROUS
No documented evide	X B MODERATE	us waste o	lisposal ons	ite.	CUPE UNSCENC DANGEROUS
No documented evide	X B MODERATE	us waste (DUATE POOR	ite. ס אוגבס	
No documented evide	X B MODERATE	us waste (DUATE POOR	ite. ס אוגבס	
No documented evide	X B MODERATE	us waste (DUATE POOR	ite. ס אוגבס	
No documented evide	X B MODERATE	us waste (DUATE POOR	ite. ס אוגבס	
No documented evide CONTAINMENT CONTAINMENT DE WASTES DU A ADEQUATE, SECURE DESCRIPTION OF DAUMS DAUMG CHERS Old gravel pit was	X B MODERATE	us waste (DUATE POOR	ite. ס אוגבס	
No documented evide CONTAINMENT CONTAINMENT DE WASTES DU A ADEQUATE, SECURE DESCRIPTION OF DAUMS DAUMG CHERS Old gravel pit was	X B MODERATE	us waste (DUATE POOR	ite. ס אוגבס	
No documented evide CONTAINMENT CONTAINMENT A ADEQUATE SECURE DESCRIPTION OF DRUMS DAING LARGE Old gravel pit was ACCESSIBILITY DI WASTE EASILY ACCESSIBLE X YE	X B MODERATE BARREPS ETC partially fille	us waste (DUATE POOR	ite. ס אוגבס	
No documented evide CONTAINMENT CONTAINMENT OF MASTES A ADEQUATE, SECURE DESCRIPTION OF DAUMS DAING LARRE Old gravel pit was	X B MODERATE BARREPS ETC partially fille	us waste (DUATE POOR	ite. ס אוגבס	
No documented evide CONTAINMENT CONTAINMENT OF MASTES A ADEQUATE, SECURE DESCRIPTION OF DAUMS DAUMG LNERS Old gravel pit was ACCESSIBILITY DI WASTE EASILY ACCESSIBLE X YE	X B MODERATE BARREPS ETC partially fille	us waste (DUATE POOR	ite. ס אוגבס	
No documented evide CONTAINMENT CONTAINMENT OF MASTES A ADEQUATE, SECURE DESCRIPTION OF DAUMS DAING LARRE Old gravel pit was ACCESSIBILITY D: WASTE EASILY ACCESSIBLE X YE 32 COMMENTS	X B MODERATE BAAREPS GIC partially fille	us waste o	DUATE POOR	ite. ס אוגבס	
No documented evide CONTAINMENT CONTAINMENT A ADEQUATE. SECURE DESCRIPTION OF DRUMS DRUG UNERS Old gravel pit was ACCESSIBILITY D: WASTE EASILY ACCESSIBLE X YE D2 COMMENTS	X B MODERATE BAAREPS GIC partially fille	us waste o	DUATE POOR	ite. ס אוגבס	
No documented evide CONTAINMENT CONTAINMENT OF WASTES A ADEQUATE, SECURE DESCRIPTION OF DRUMS DRUG UNERS Old gravel pit was ACCESSIBILITY Dr. WASTE EASILY ACCESSIBLE X YE D2 COMMENTS	X B MODERATE BAAREPS GIC partially fille	us waste o	DUATE POOR	ite. ס אוגבס	
No documented evide CONTAINMENT CONTAINMENT A ADEQUATE SECURE DESCRIPTION OF DRUMS DANG CHERS Old gravel pit was CACCESSIBILITY Dr WASTE EASILY ACCESSIBLE X YE D2 COMMENTS	X B MODERATE BARRIERS ETC partially fille	us waste o	DUATE POOR	ite. ס אוגבס	
No documented evide CONTAINMENT CONTAINMENT CONTAINMENT OF WASTES A ADEQUATE, SECURE DESCRIPTION OF DAUMS DAUG CHERE Old gravel pit was ACCESSIBILITY DI WASTE EASILY ACCESSIBLE X YE D2 COMMENTS SOURCES OF INFORMATION NYSDEC Region 9	X B MODERATE BARRIERS ETC partially fille	us waste o	DUATE POOR	ite. ס אוגבס	

		POTE	SITE INSPEC	RDOUS WASTE TION REPORT IC, AND ENVIRON			PENTIFICATION TATE OZ SITE NUMBER 915102
II. DRINKING WATER	SUPPLY			<u> </u>			
01 TYPE OF DRINKING SUI	PPLY		02 STATUS	· ·).	3 DISTANCE TO SITE
Creck as spakcaziei	SURFACE	WELL	ENDANGERI	ED AFFECTED	MONITORED		
COMMUNITY	A	9 -	A. <u>-</u>	8 1	c _	4	(IIII)
NON-COMMUNITY	c I	0. X	٥X	`E _	FC	8	(m)
III. GROUNDWATER		, 	····				· · · · · · · · · · · · · · · · · · ·
XA ONLY SOURCE F		X 8 CRINKING Coner Sources availab	OUSTRIAL PRIGATIC	1.mied strar	AL INDUSTRIAL, IRRIGA Succes are all e	TION	1 D NOTUSED UNUSEABLE
02 POPULATION SERVED	BY GROUND WAT	2280		03 DISTANCE TO NEA		WELL	1.1(mi)
04 DEPTH TO GROUNDWA	TER	05 DIRECTION OF GRO	UNDWATER FLOW	JE DEPTH TO AQUIFE		LD	08 SOLE SOURCE AQUIFER
2-4	(ft)	presume	d north	H5		(gpd)	I YES I NO
9 DESCRIPTION OF WELL				1	1		l
UND		· · · · · · · · · · · · · · · · · · ·		NO			
SURFACE WATER USE	Check log-						
X SURFACE WATER USE X A RESERVOIR, RE DRINKING WATE			N. ECONOMICALLY	C COMMER	C NOUSTRIAL	Ξ	D NOT CURRENTLY USE
X A RESERVOIR. RE	ECREATION ER SOURCE				C NOUSTRIAL	=	D NOT CURRENTLY USE
X A RESERVOIR, RE DRINKING WATE	CREATION ER SOURCE	MPORTAN		C COMMER			D NOT CURRENTLY USER
X A RESERVOIR, RE DRINKING WATE	ECREATION ER SOURCE	MPORTAN		C COMMER			DISTANCE TO SITE
X A RESERVOIR, RE DRINKING WATE	CREATION ER SOURCE	MPORTAN		C COMMER			DISTANCE TO SITE
X A RESERVOIR, RE DRINKING WATE	CREATION ER SOURCE	MPORTAN		C COMMER			DISTANCE TO SITE
X A RESERVOIR RE DRINKING WATE 22 AFFECTED POTENTIAL NAME. Murd	er Creek			C COMMER	AFFECTEC		DISTANCE TO SITE 0.5
X A RESERVOIR, RE DRINKING WATE 22 AFFECTED. POTENTIALL NAME. MUrdi	er Creek						DISTANCE TO SITE 0.5
X A RESERVOIR RE DRINKING WATE 22 AFFECTED POTENTIAL NAME. Murd	ECREATION ER SOURCE of AFFECTED BU EN Creek				AFFECTED		DISTANCE TO SITE 0.5 (7) (7) (7) (7) (7) (7) (7) (7) (7) (7)
X A RESERVOIR RE DRINKING WATE 22 AFFECTED.POTENTIALL NAME.	ECREATION ER SOURCE TAFFECTED BO ER Creek	MPORTAN IDIES OF WATER (INFORMATION IO (2) MILES OF SITE 4500-4800 NO OF 205 113		3) MILES OF SITE	AFFECTED		DISTANCE TO SITE 0.5 (7) (7) (7) (7) (7) (7) (7) (7) (7) (7)
X A RESERVOIR, RE DRINKING WATE 22 AFFECTED POTENTIALL NAME.	ECREATION ER SOURCE TAFFECTED BO ER Creek	MPORTAN IDIES OF WATER (INFORMATION IO (2) MILES OF SITE 4500-4800 NO OF 205 113		3) MILES OF SITE	AFFECTEC		DISTANCE TO SITE 0.5 (7) (7) (7) (7) (7) (7) (7) (7) (7) (7)
X A RESERVOIR, RE DRINKING WATE 22 AFFECTED POTENTIALL NAME.		INFORMATION		3) MILES OF SITE 00-6500 00-395500 04 DISTANCE TO NEA	AFFECTED		DISTANCE TO SITE 0.5 (* 0.5 (* ***********************************
X A RESERVOIR RE DRINKING WATE DRINKING WATE NAME. Murdi A DEMOGRAPHIC AN IN TOTAL POPULATION WIT ONE (1) MILE OF SITE A 2700-3000 NO ST PERSONS		MPORTAN IDIES OF WATER (DIES OF WATER (INFORMATION (O (2) MILES OF SITE 4500-4800 NO DE DERS 11/3 MILES OF SITE		3) MILES OF SITE 00-6500 34 DISTANCE TO NEAR	AFFECTED		DISTANCE TO SITE 0.5 (* (* *******************************
X A RESERVOIR RE DRINKING WATE DRINKING WATE NAME. Murdi A DEMOGRAPHIC AN IN TOTAL POPULATION WIT ONE (1) MILE OF SITE A 2700-3000 NO ST PERSONS		INFORMATION		3) MILES OF SITE 00-6500 34 DISTANCE TO NEAR	AFFECTED		DISTANCE TO SITE 0.5 (* (* *******************************
X A RESERVOIR RE DRINKING WATE DRINKING WATE NAME. Murdi A DEMOGRAPHIC AN IN TOTAL POPULATION WIT ONE (1) MILE OF SITE A 2700-3000 NO ST PERSONS		MPORTAN IDIES OF WATER (DIES OF WATER (INFORMATION (O (2) MILES OF SITE 4500-4800 NO DE DERS 11/3 MILES OF SITE		3) MILES OF SITE 00-6500 34 DISTANCE TO NEAR	AFFECTED		DISTANCE TO SITE 0.5 (* 0.5 (* ***********************************
X A RESERVOIR RE DRINKING WATE DRINKING WATE NAME. Murdi A DEMOGRAPHIC AN IN TOTAL POPULATION WIT ONE (1) MILE OF SITE A 2700-3000 NO ST PERSONS		MPORTAN IDIES OF WATER (DIES OF WATER (INFORMATION (O (2) MILES OF SITE 4500-4800 NO DE DERS 11/3 MILES OF SITE		3) MILES OF SITE 00-6500 34 DISTANCE TO NEAR	AFFECTED		DISTANCE TO SITE 0.5 (* 0.5 (* ***********************************
X A RESERVOIR RE DRINKING WATE DRINKING WATE NAME. Murdi A DEMOGRAPHIC AN IN TOTAL POPULATION WIT ONE (1) MILE OF SITE A 2700-3000 NO ST PERSONS		MPORTAN IDIES OF WATER (DIES OF WATER (INFORMATION (O (2) MILES OF SITE 4500-4800 NO DE DERS 11/3 MILES OF SITE		3) MILES OF SITE 00-6500 34 DISTANCE TO NEAR	AFFECTED		DISTANCE TO SITE 0.5 (* 0.5 (* ***********************************

		POTENTIAL HAZ	ARDOUS WAST	ESITE	I. IDENTIFIC	
	PAR	STE INSPE	CTION REPORT		01 STATE 02 ST	1502
VI. ENVIRONMENTAL INFORM	ATION			UNMENTAL DATA		/1502
01 PERMEABILITY OF UNSATURATED	ZONE (Check o	ne)				
⊂ A. 10 ⁻⁶ - 10	0 ⁻⁸ cm/ sec	CX8. 10-4 - 10-6 cm/sec	□ C. 10 ⁻⁴ - 10 ⁻³ cr	n/sec 🖸 D. GREATER	THAN 10-3 cm/s	к
2 PERMEABILITY OF BEDROCK (Cnec		······································				
	n 10 ⁻⁶ cm/sec)	B. RELATIVELY IMPERMEAN		LY PERMEABLE D	VERY PERMEABL	LE
DEPTH TO BEDROCK	04 DEPTH (OF CONTAMINATED SOIL ZONE UNKNOWN	05 SOIL D	н		
(ft)		(ft)				
8 NET PRECIPITATION	07 ONE YEA	AR 24 HOUR RAINFALL	08 SLOPE			
8.0(in)		(in)	SITE SLOPE	North	LOPE TERRAIN	AVERAGE SLOP
P FLOOD POTENTIAL		10				
SITE IS IN YEAR FLO	•	SITE IS ON BARR	IER ISLAND, COASTA	L HIGH HAZARD AREA,	RIVERINE FLOOD	WAY
DISTANCE TO WETLANDS (5 acre miner	num)		12 DISTANCE TO CRIT	CAL HABITAT (of endangered		
SSTUARINE		OTHER	l		(mi)	
A (mi)	8	<u>3/4(mi)</u>	ENDANGERE	none none	in area	
LAND USE IN VICINITY						
DISTANCE TO:						
COMMERCIAL/INDUSTR	IAL	RESIDENTIAL AREAS: NATION FORESTS, OR WILDLIF	NAL/STATE PARKS. E RESERVES	AGRIC PRIME AG LAN		GLAND
		None in			- 41	
A. <u> </u>		s <u>Area</u>	(mi)	c. <u>4 1/2</u>	(m) <u>~</u> <u>~</u> <u>/</u>	2
						
DESCRIPTION OF SITE IN RELATION T					<u> </u>	
The site is a falls off ra moderately to site. Site n	former ther st the r ortherr	r gravel pit that teeply to a depres north toward Murde n boundry appeared for runoff to flow	ssion. The er Creek whi to be gene	rtially fille surrounding f ch is about f rally higher	ed. Fille topography	d area slopes
The site is a falls off ra moderately to site. Site n	former ther st the r ortherr	r gravel pit that teeply to a depres north toward Murde n boundry appeared	ssion. The er Creek whi to be gene	rtially fille surrounding f ch is about f rally higher	ed. Fille topography	d area slopes
The site is a falls off ra moderately to site. Site n	former ther st the r ortherr	r gravel pit that teeply to a depres north toward Murde n boundry appeared	ssion. The er Creek whi to be gene	rtially fille surrounding f ch is about f rally higher	ed. Fille topography	d area slopes
The site is a falls off ra moderately to site. Site n	former ther st the r ortherr	r gravel pit that teeply to a depres north toward Murde n boundry appeared	ssion. The er Creek whi to be gene	rtially fille surrounding f ch is about f rally higher	ed. Fille topography	d area slopes
The site is a falls off ra moderately to site. Site n	former ther st the r ortherr	r gravel pit that teeply to a depres north toward Murde n boundry appeared	ssion. The er Creek whi to be gene	rtially fille surrounding f ch is about f rally higher	ed. Fille topography	d area slopes
The site is a falls off ra moderately to site. Site n	former ther st the r the r	r gravel pit that teeply to a depres north toward Murde n boundry appeared	ssion. The er Creek whi to be gene	rtially fille surrounding f ch is about f rally higher	ed. Fille topography	d area slopes
The site is a falls off ra moderately to site. Site n	former ther st the r the r	r gravel pit that teeply to a depres north toward Murde n boundry appeared	ssion. The er Creek whi to be gene	rtially fille surrounding f ch is about f rally higher	ed. Fille topography	d area slopes
The site is a falls off ra moderately to site. Site n	former ther st the r the r	r gravel pit that teeply to a depres north toward Murde n boundry appeared	ssion. The er Creek whi to be gene	rtially fille surrounding f ch is about f rally higher	ed. Fille topography	d area slopes
The site is a falls off ra moderately to site. Site n channels may	tormen of the r ortherr exist f	r gravel pit that teeply to a depres north toward Murde n boundry appeared for runoff to flow	ssion. The er Creek whi to be gene	rtially fille surrounding f ch is about f rally higher	ed. Fille topography	d area slopes
The site is a falls off ra moderately to site. Site n	tormen of the r ortherr exist f	r gravel pit that teeply to a depres north toward Murde n boundry appeared for runoff to flow	ssion. The er Creek whi to be gene	rtially fille surrounding f ch is about f rally higher	ed. Fille topography	d area slopes
The site is a falls off ra moderately to site. Site n channels may SOURCES OF INFORMATION NYSDEC Region	former ather st ortherr exist f	r gravel pit that teeply to a depres north toward Murde n boundry appeared for runoff to flow	ssion. The er Creek whi to be gene	rtially fille surrounding f ch is about f rally higher	ed. Fille topography	d area slopes
The site is a falls off ra moderately to site. Site n channels may	former ather st ortherr exist f	r gravel pit that teeply to a depres north toward Murde n boundry appeared for runoff to flow	ssion. The er Creek whi to be gene	rtially fille surrounding f ch is about f rally higher	ed. Fille topography	d area slopes
The site is a falls off ra moderately to site. Site n channels may SOURCES OF INFORMATION NYSDEC Region	former ather st ortherr exist f	r gravel pit that teeply to a depres north toward Murde n boundry appeared for runoff to flow	ssion. The er Creek whi to be gene	rtially fille surrounding f ch is about f rally higher	ed. Fille topography	d area slopes

\odot CD/		F	POTENTIAL HAZARDOUS WASTE SITE	I. IDENTIFIC	
\$EP∕		P	SITE INSPECTION REPORT ART 6 - SAMPLE AND FIELD INFORMATION	NŸ	915102
I. SAMPLES TAP	EN				
SAMPLE TYPE		01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO		03 ESTIMATED DAT
GROUNDWATER					1
	R				
WASTE		<u>+</u>			
AIR					+
RUNOFF					
SPILL		1			
SOIL	· · · · · · · · · · · · · · · · · · ·	,			<u>+</u>
VEGETATION					
OTHER					
H. FIELD MEASU	REMENTS TA	KEN			
TYPE		02 COMMENTS			
· · · · · · · · · · · · · · · · · · ·					
					•
		: 	—		
V. PHOTOGRAPH	S AND MAPS	l	· · · · · · · · _ · · · · · · ·		
		· · · · · · · · · · · · · · · · ·	02 IN CUSTODY OF URS Engineers, 570 De	alaware Aven	ue
MAPS	1 04 LOCATION		Name al arganization or individu	ar)	
C YES		UT MAPS			
. OTHER FIELD (ATA COLLEC	CTED (Provide nametive dea	C/(pban)		· · · · · · · · · · · · · · · · · · ·
	•				
			. ·		
			. · ·		
	·				
1. SOURCES OF	NFORMATIO	N (Cito apocific references, o.	g., sizce mea, semple aneyse, reports		
1. SOURCE S OF 1	NFORMATIO	N (Cite specific references, e.	g., stare nee, sample analyse, reports	•	
1. SOURCES OF	NFORMATIO	N (Cite specific references, e.	g., sizke Mee, semple analyse, recorts)		
1. SOURCES OF	NFORMATIO	N (Cite specific references, e.	g., stare nee, sample anelyse, reportaj		
1. SOURCES OF	NFORMATIO	N (Cito specific references, e.	g., stare mee, semble eneryse, reports;		

⇒EPA		SITE INSP	ARDOUS WASTE SITE ECTION REPORT NER INFORMATION	01 STATE 02	01 STATE 02 SITE NUMBER NY 915102	
I. CURRENT OWNER(S)			PARENT COMPANY (If spontable)	·		
Bernard Cope		02 D+8 NUMBER	OS NAME		9 0+8 NUMBER	
3 STREET ADDRESS (# 0. 601. AFO #. erc.) 48 Buell Street		04 SIC CODE	10 STREET ADDRESS (P O. Box. RFD #. erc.)		11 SIC CODE	
Akron	00 STATE NY	07 ZIP CODE 14001	12 CITY	13 STATE	4 ZIP CODE	
1 NAME		02 D+8 NUMBER	08 NAME		9 D+B NUMBER	
STREET ADDRESS (P O. Bos, AFO #, erc.)	·····	04 SIC CODE	10 STREET ADDRESS (P.O. Box. RFD #. etc.)	<u>.</u>	11 SIC CODE	
5 CITY	06 STATE	07 ZIP CODE	12 СПУ	13 STATE	14 ZIP CODE	
1 NAME		02 D+8 NUMBER	OB NAME		D9 0+8 NUMBER	
STREET ADORESS (P.O. Box. RFD P. etc.)		04 SIC CODE	10 STREET ADORESS (P.O. Box. RFD #. etc.)	,	11 SIC CODE	
S CITY	06 STATE	07 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE	
NAME		02 0+8 NUMBER	OB NAME		09 D+8 NUMBER	
3 STREET ADORESS (P 0. BOX, AFD #, etc.)		04 SIC CODE	10 STREET ADDRESS (P O. Bos. RFD #. erc.)	<u>_</u> 1	11 SIC CODE	
S CITY	OG STATE	07 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE	
I. PREVIOUS OWNER(S) (Las more re	cont fires		IV. REALTY OWNER(S) (# appreciate: 1	int most recent Aret)		
Lawerance Clark		02 D+B NUMBER	01 NAME		D2 D+B NUMBER	
3 STREET ADDRESS (P.O. Box, RFD #, erc.)		04 SIC CODE	03 STREET ADORESS (P. O. Box. RFD #, erc.	J	04 SIC CODE	
S CITY	OGSTATE	07 ZIP CODE	OS CITY	08 STATE	07 ZIP CODE	
Herman Han		D2 D+8 NUMBER	01 NAME		02 D+8 NUMBER	
STREET ADDRESS (P O Bos. RFD P. erc.)	d	04 SIC CODE	03 STREET ADDRESS (P O Box, AFD +. erc.)	, <u> </u>	04 SIC CODE	
CITY	OS STATE	D7 ZIP CODE	OS CITY	OG STATE	D7 ZIP CODE	
NAME		02 D+8 NUMBER	01 NAME	k	02 D+8 NUMBER	
STREET ADDRESS (P 0. But, AFD P, etc.)	<u> </u>	04 SIC CODE	03 STREET ADORESS (P O Bos, RFD #, etc.)	I	04 SIC CODE	
CITY ,	06 STATE	07 ZIP CODE	OS CITY	00 STATE	D7 ZIP CODE	
. SOURCES OF INFORMATION	Cite apeorito references, o	.g., state files, sample analysi	a, reports)	I I		
NYSDEC Region 9	1					
•						
Bernard Cope		· · · · · · · · · · · · · · · · · · ·				

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5.6 USEPA Site Inspection Form 2070-13

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OPERATOR (Power & different from current) OPERATOR'S PARENT COMPANY (If expectation) 10 02 0+8 NUMBER 10 NAME 11 0+8 NUMBER 11 0+8 NUMBER 10 NAME 11 0+8 NUMBER 12 STREET ADDRESS (P.0. But. APD #.et.) 13 SIC CODE 12 STREET ADDRESS (P.0. But. APD #.et.) 13 SIC CODE 12 STREET ADDRESS (P.0. But. APD #.et.) 13 SIC CODE 14 CITY 15 STATE [10 ZP CODE 11 0+8 NUMBER 10 NAME 11 0+8 NUMBER 10 NAME 11 0+8 NUMBER 11 0+8 NUMBER 12 STREET ADDRESS (P.O. But. APD #.etc.) 13 SIC CODE 12 STREET ADDRESS (P.O. But. APD #.etc.) 13 SIC CODE 12 STREET ADDRESS (P.O. But. APD #.etc.) 13 SIC CODE 12 STREET ADDRESS (P.O. But. APD #.etc.) 13 SIC CODE 12 STREET ADDRESS (P.O. But. APD #.etc.) 13 SIC CODE 14 CITY 15 STATE [16 ZP CODE <tr< th=""><th>OURRENT OPERATOR OPERATOR'S PARENT COMPANY OPERATOR'S PARENT COMPANIES <t< th=""><th></th><th>PO</th><th></th><th>ARDOUS WASTE SITE</th><th>I. IDENTIFI</th><th></th></t<></th></tr<>	OURRENT OPERATOR OPERATOR'S PARENT COMPANY OPERATOR'S PARENT COMPANIES OPERATOR'S PARENT COMPANIES <t< th=""><th></th><th>PO</th><th></th><th>ARDOUS WASTE SITE</th><th>I. IDENTIFI</th><th></th></t<>		PO		ARDOUS WASTE SITE	I. IDENTIFI	
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		CITY	OS STATE	07 ZIP CODE	14 CITY	15 STATE	16 ZIP CODE
RATION 09 NAME OF OWNER DURING THIS PERIOD	SOURCES OF INFORMATION (Case apocate references. 6.g., state files, sensite analyses, reported	YEARS OF OPERATION 09 NAME	OF OWNER DURING THIS	PERICO			
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		NYSDEC Region	9				
	NYSDEC Region 9	Bernard Cope					
SDEC Region 9	•						
SDEC Region 9	NYSDEC Region 9 Bernard Cope						
SDEC Region 9	•						
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EPA FORM 2070-13 (7-81)

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V. TRANSPORTER(S)				<u>_</u>	
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			-		
Bernard Cope					
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5.6 USEPA Site Inspection Form 2070-13

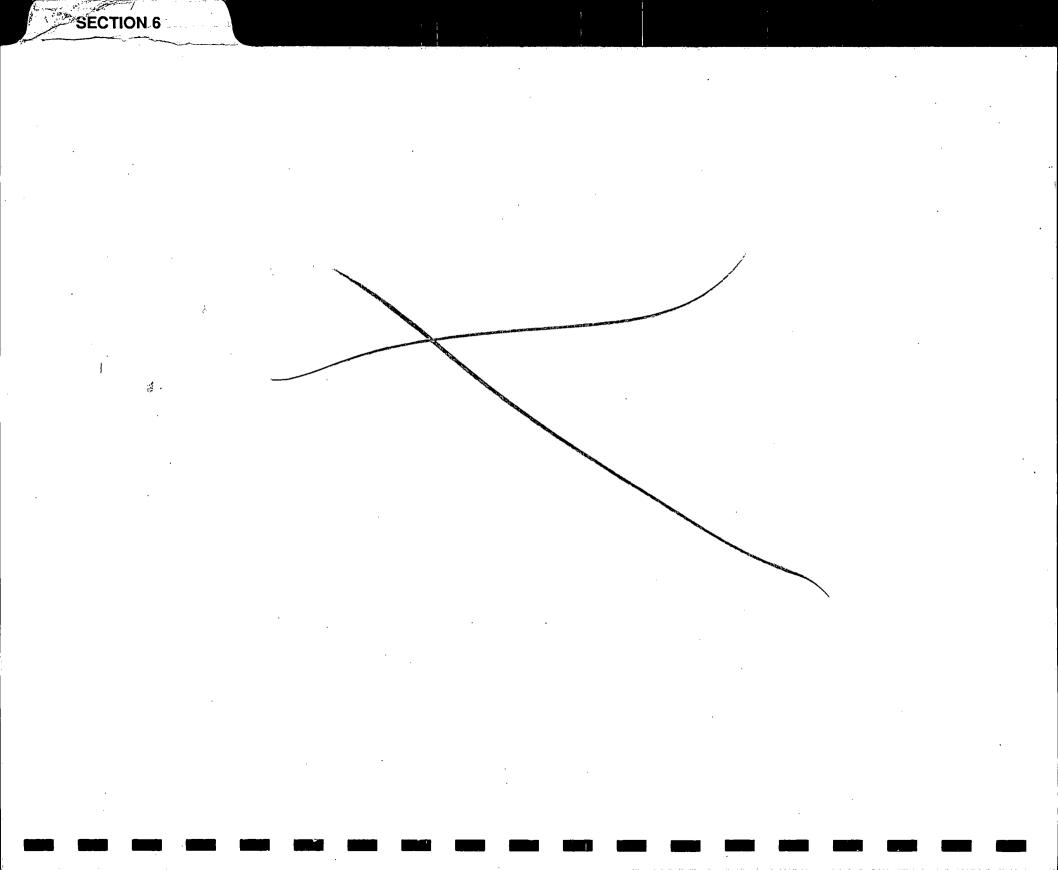
\$-epa	POTENTIAL HAZARDOUS WASTE SITI SITE INSPECTION REPORT PART 10 - PAST RESPONSE ACTIVITIES	_	I. IDENTIFICATION 01 STATE 02 SITE NUMBER NY 915102	
PAST RESPONSE ACTIVITIES				
01 C A. WATER SUPPLY CLOSED 04 DESCRIPTION	02 DATE	03 AGENCY		
01 38. TEMPORARY WATER SUPPLY PR 04 DESCRIPTION	ROVIDED 02 DATE	03 AGENCY		
01 C. PERMANENT WATER SUPPLY PR 04 DESCRIPTION	ROVIDED 02 DATE	03 AGENCY		
01	02 DATE	03 AGENCY		
01 C E. CONTAMINATED SOIL REMOVED 04 DESCRIPTION	02 DATE	03 AGENCY		
01 C F. WASTE REPACKAGED 04 DESCRIPTION	02 DATE	03 AGENCY		
01 C G. WASTE DISPOSED ELSEWHERE 04 DESCRIPTION	02 DATE	03 AGENCY		
01 TH. ON SITE BURIAL 04 DESCRIPTION	02 DATE	03 AGENCY		
01 C I IN SITU CHEMICAL TREATMENT 04 DESCRIPTION	02 DATE	03 AGENCY		
01 C J. IN SITU BIOLOGICAL TREATMENT 04 DESCRIPTION	02 DATE	03 AGENCY		
01 TK. IN SITU PHYSICAL TREATMENT 04 DESCRIPTION	02 DATE	03 AGENCY	· · · · · · · · · · · · · · · · · · ·	
01 E L. ENCAPSULATION 04 DESCRIPTION	02 DATE	03 AGENCY		
01 TM. EMERGENCY WASTE TREATMEN 04 DESCRIPTION	T 02 DATE	03 AGENCY		
01 C N. CUTOFF WALLS 04 DESCRIPTION	02 DATE	03 AGENCY		
	NATER DIVERSION 02 DATE	03 AGENCY		
01 CUTOFF TRENCHES/SUMP 04 DESCRIPTION	02 DATE	03 AGENCY		
	02 DATE	03 AGENCY		

5.6 USEPA Site Inspection Form 2070-13

⇒EPA	POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 10 · PAST RESPONSE ACTIVITIES	I. IDENTIFICATION 01 STATE 02 SITE NUMBER NY 915102
PAST RESPONSE ACTIVITIES (Continued)	· · · · · · · · · · · · · · · · · · ·	
01 CR. BARRIER WALLS CONSTRUCTED	02 DATE	03 AGENCY
01 I S. CAPPING/COVERING 04 DESCRIPTION	02 DATE	03 AGENCY
01 T BULK TANKAGE REPAIRED 04 DESCRIPTION	02 DATE	03 AGENCY
01 TU. GROUT CURTAIN CONSTRUCTED 04 DESCRIPTION	02 DATE	03 AGENCY
01 TV BOTTOM SEALED 04 DESCRIPTION	02 DATE	03 AGENCY
01	02 DATE	
01 C X FIRE CONTROL 04 DESCRIPTION	02 DATE	03 AGENCY
01 T Y LEACHATE TREATMENT 04 DESCRIPTION		03 AGENCY
01 Z. AREA EVACUATED - 04 DESCRIPTION	02 DATE	
01 2 1 ACCESS TO SITE RESTRICTED 04 DESCRIPTION	02 DATE	03 AGENCY
01 2. POPULATION RELOCATED 04 DESCRIPTION	02 DATE	03 AGENCY
01	02 DATE	03 AGENCY
III. SOURCES OF INFORMATION (Cite specific refe	rences. e g. siale illes, sample analysis, reportsi	
NYSDEC Region 9		

SEPA	SITE INS	AZARDOUS WAS PECTION REPORT	RT	I. IDENTIFIC 01 STATE 02 NY	
II. ENFORCEMENT INFORMATION					
	YES XNO				
02 DESCRIPTION OF FEDERAL, STATE, LOCAL REGL	LATORY ENFORCEMENT ACT	TON			
				•	
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III. SOURCES OF INFORMATION (Cite appecific re	blarances, e.g., state liles, sample a	narvsis, /eports)			
NYSDEC Region 9					

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6.0 ASSESSMENT OF DATA ADEQUACY AND PHASE II WORK PLAN

6.1 Assessment of Available Data

Data collected during the Phase J investigation at the Bernard Cope site which was used to perform an HRS evaluation is considered inadequate in the following areas:

- o Observed releases No surface water samples have been obtained to date. The site is not equipped with monitoring wells, and no groundwater samples have been obtained. No air monitoring has been conducted.
- o Waste characteristics There are no reports of hazardous waste disposal at this site. No information was available regarding the quantity or the character of waste disposed of onsite.
- o Potable groundwater wells Information regarding wells in the vicinity of the site was obtained from local government officials. These data do not represent a complete assessment of the location of wells utilized for potable water in the vicinity of the site.

6.2 Preliminary Waste Characterization Program

No document was found during Phase I investigation which would provide definite information on the nature and the quantity of hazardous waste disposed of on site. In the absence of such data, it is prudent to undertake a preliminary waste characterization program to develop a credible HRS score for the site and to determine if a Phase II investigation is warranted. Such a preliminary investigation should include the following:

- o Five shallow soil samples using a soil probe to recover a column of relatively undisturbed soil.
- o Groundwater sample(s) obtained from supply well(s) at private residence(s) located in the vicinity of the site i.e. from the Sutton residence, south of the site and other nearby wells that may be located during site work.
- o Both soil and groundwater samples should be analyzed for organic and inorganic priority pollutants.

Based on the results of this preliminary investigation, a decision should be made regarding implementation of the Phase II investigation.

6.3 Phase II Work Plan

6.3.1 Objective

The Phase II field investigation activities outlined in this section are intended to bring the data base for this site up to a level capable of supporting a final, defensible HRS score. The work plan does not necessarily represent a recommendation to proceed with a Phase II investigation, but rather outlines the activities which should be performed to accomplish the above objective if such an investigation is undertaken. The final decision concerning the need for a Phase II study depends not only upon the availability and adequacy of hard data, but also upon the preliminary (Phase I) HRS score, as well as agency policy and public perception regarding the site.

6.3.2 <u>Scope of Work</u>

The following activities have been identified for the Phase II field investigation:

o Air Monitoring

- o Geophysical Survey
- o Subsurface Investigation
- o Monitoring Well Installation
- o Sampling and Analysis
- Waste Quantity Determination

o Potable well study

o Basic Surveying Services

o Engineering Evaluation Report/HRS Scoring

Throughout the Phase II investigative effort, field activities should be performed in strict accordance with the Health and Safety Plan approved for this project. Details of the investigation would be formulated during preparation of the final Phase II Work Plan which would be devised according to NYSDEC protocols and safety requirements. A brief description of each activity is presented below.

- <u>Air Monitoring</u> An air monitoring program with an HNU photoionizer detector would be performed as follows:
 - o at one upwind and downwind location prior to any site work
 - o during borings and monitoring well installations

o for all split-spoon samples

o during hand auger sampling

The date, location, and sample protocol would be recorded at the time of sampling. Wind direction and wind speed (best estimate) would also be recorded at this time. Measurements will be taken within the normal breathing zone.

-19-

<u>Geophysical Survey</u> - A geophysical survey would be conducted at the site using a magnetometer and electrical resistivity techniques to locate any buried drums and to aid in defining the vertical and horizontal extent of waste. The information would also be useful to establish the final locations for monitoring wells. Prior to drilling of test borings, results of the survey would be used to determine the presence of buried drums or inpenetratable materials in this area. These measurements would be taken on a grid system established over the are to be investigated to provide sufficient coverage.

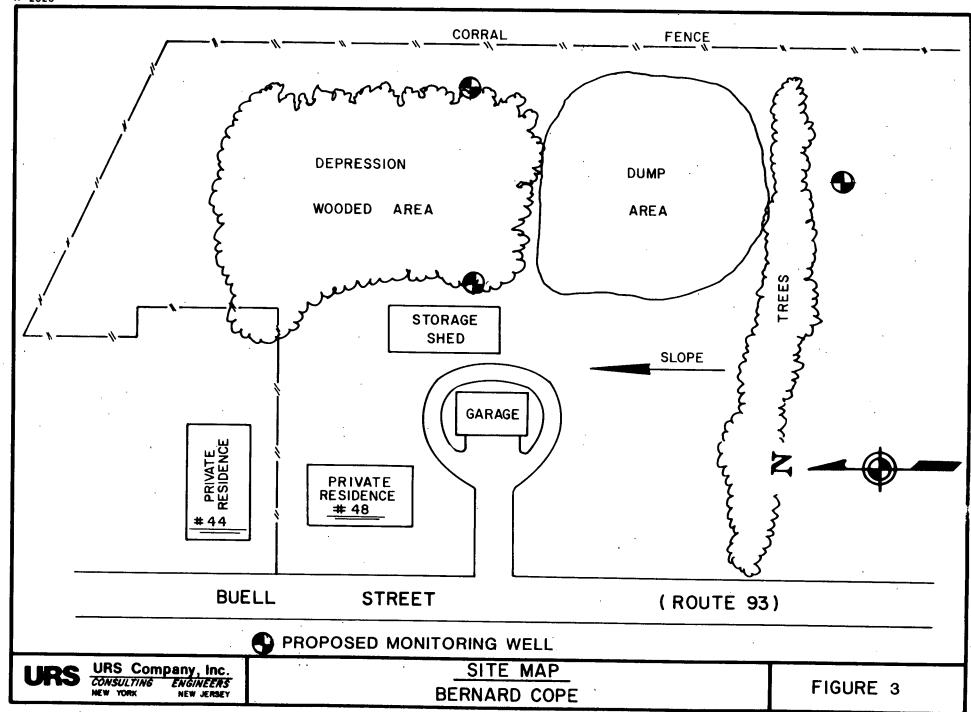
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Subsurface Investigation - Presently, it is proposed that three borings be drilled in the first encountered water bearing zone beneath the site. These borings would be converted to monitoring wells. The tentative location of the borings are as follows: one boring installed south of the fill area, and two borings installed north of the The borings would be performed under the direct area. supervision of an experienced geologist. The borings would be completed with hollow-stem augers and will be sampled by means of split spoon sampler as per ASTM-D-1586. The first boring would be sampled continuously to a depth of ten feet within the first encountered water bearing zone. The remaining two borings would be

-20-

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sampled at five foot intervals and where changes in lithology or drilling characteristics are encountered to a minimum depth of ten feet within the first encountered water bearing zone. Any fine-grained confining layers encountered during drilling would be sampled with a Shelby tube for laboratory permeability testing. Prior to initiating drilling activities, the drilling rig, augers, rods, appurtenant equipment, well pipe, screens, and split-spoons will be cleaned with steam. This cleaning procedure will also be used between each boring. These activities will be performed in a designated on-site decontamination area. Throughout the cleaning processes and during field work, direct contact supplying between equipment and the contaminated ground surface will be AVOIDED. Plastic sheeting and/or clean support structures will be used. The sample barrel(s) will be cleaned prior to each use by the following procedure:

o initially cleaned of all foreign matter
o washed with a detergent and water mixture
o rinsed with potable water
o washed with acetone/hexane/acetone
o rinsed with distilled water
o allowed to air dry

-22-

An HNU detector will be used to monitor the gases from each sample as the split-barrel sampler is opened. All samples will be placed in pre-cleaned, teflon-lined screw cap glass jars. The cleaning of the sample jars will include:

o soap wash

o tap water rinse

o acetone rinse (pesticide grade)

 rinse with copious quantities of deionized water (at least six rinsings)

o air dry

o cap and store in contaminant-free area

Samples will be delivered under chain of custody control to an approved laboratory. A composite soil sample from each boring will be analyzed for propriority pollutant metals and organics (Contract Laboratory Protocol) and PCBs. GC/MS procedures will include the identification and quantification of all peaks 10% greater than the nearest calibrating standard.

At a minimum, each boring log will include:

o date, test hole identification, and project identification

o name of individual developing the log

-23-

o name or driller and assistant(s)

o drill make and model, auger size

- o identification of alternative drilling methods used and justification thereof (e.g. rotary drilling with a specific bit type to remove a sand plug from within the hollow stem augers)
- o HNu readings
- Monitoring Well Installation It is proposed that the borings be converted to monitoring wells. The monitoring wells would be constructed within the uppermost water bearing zone. The wells would be constructed of two-inch ID schedule 40 PVC casings and screens, and will be provided with protective casings and locking caps in accordance with proper NYSDEC installation protocols.

Upon completion of construction, the monitoring wells would be properly developed, and the ground surface and top of well casing would be surveyed at each well to determine their location and elevation with reference to USGS datum. Slug tests would then be conducted in each monitoring well to determine the hydraulic conductivity of the water bearing formation within the well screen interval. These slug tests will be performed using a solid stainless steel cylinder or slug.

-24-

<u>Sampling and Analyses</u> - The purpose of this activity would be to identify the magnitude and extent of soil, groundwater, and/or surface water contamination originating from the site, and to ascertain whether hazardous substances are leaving the site.

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It is proposed that one soil sample from the unsaturated zone within each boring undergo chemical analysis.

One round of groundwater samples would be obtained from the monitoring wells. After the water level in each well has equilibrated, water elevations would be measured to determine the water table surface. Representative groundwater samples would then be collected after the wells have been fully evacuated or a volume of water three times the well contents has been removed and the wells have recharged. Upon collection of a sample, field pH, temperature and conductivity measurements would be recorded. The samples would be placed in appropriate pre-cleaned bottles, labeled, chilled and shipped immediately to a laboratory for preservation and analysis. Preservatives will be added to sample bottles to be used for cyanide and metals prior to collection of samples in the field.

-25-

One groundwater sample would be obtained from the supply well at a private residence located just south of the site. This sample would handled utilizing the same protocol as described for samples obtained from monitoring wells.

Two surface water samples would be obtained; one from Murder Creek downstream of the site before the sewage treatment plant. The second upstream to the east of the site. The same handling procedure as previously described for groundwater samples will be followed upon acquisition of the surface water samples

Shallow soil samples would be obtained from several areas in order to aid in defining the areal extent of contamination. As contaminants from liquid spills may migrate to depths of a few feet within the soil profile, samples will be taken using a soil probe to remove a column of relatively undisturbed soil. From each column a surface sample will be taken and placed in an appropriate sample bottle and chilled before return to the laboratory for analysis. Additionally, one soil sample from the unsaturated zone within each of the test borings would undergo chemical analysis.

-26-

Analyses of all groundwater, surface water and soil samples would be performed for the parameters listed in Table 1 using the appropriate procedures discussed in one or more of the following reference texts:

- Methods for Chemical Analysis of Water and Wastes, 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.

All analytical work would be completed in conformance with a project Quality Assurance Program.

• <u>Waste Quantity Determination</u> - A detailed investigation would be undertaken to determine the type and quantities of waste disposed of at the site. These investigations would include review of municipal records and additional interviews with area residents and commercial enterprises and an estimate of waste disposal volume.

-27-

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TABLE 1: ANALYTICAL PARAMETERS

0 = Soluble Metals

* = Total Metals

- <u>Potable Well Survey</u> A survey would be conducted to compile a list of all groundwater wells currently used within one mile of the site. This task would permit an accurate "Distance to Nearest Well/Population Served" matrix score to be developed for the groundwater route. This approach is considered prudent as numerous wells are in use in the vicinity of the site.
- Basic Surveying Services Initially, a base map of the site would be obtained (e.g., tax map) which will be enlarged to a workable scale (e.g., 1 inch = 100 feet). A survey crew would determine the location and elevation of all test borings, monitoring wells and sampling stations, as well as the location of important site planimetric features. Elevations would be tied into approximate USGS datum $(\pm 1 \text{ foot})$ by using a known road intersection elevation. Where property markers are available, locations would be tied into a property line. Elsewhere, locations would be established approximately from available planimetric features. Upon completion of the field effort, all information would be plotted onto the base map.

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Engineering Evaluation Report/HRS Scoring - Following the Phase II investigation, all existing and newly developed information concerning the site would be evaluated and

-29-

utilized to prepare a final HRS score. Subsequently, feasible remedial alternatives for the site would be preliminarily identified and evaluated, and budget-level cost estimates for these alternatives will be developed.

6.3.3 Estimated Costs

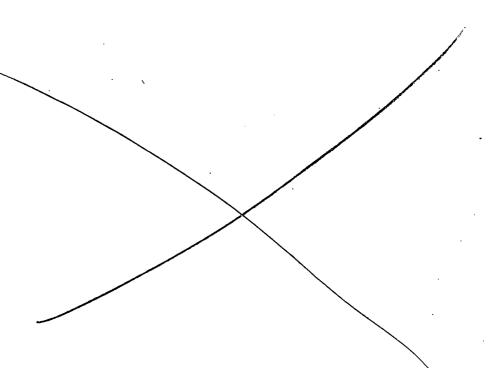
The following are estimated costs to perform the Phase II Field Investigation outlined in Section 6.2.2:

Task	Cost
•	
Air Monitoring	\$ 2,000
Subsurface Investigation	7,500
Monitoring Well Installation	7,500
Sampling and Analysis	22,000*
Waste Quantity Determination	1,000
Potable Well Study	1,000
Basic Surveying Services	3,000
Final HRS Score/Report	10,000

Total

\$ 54,000

Price includes Contract Laboratory Protocol for priority pollutant organics and metals. Prices will vary among contracted laboratories.



APPENDIX A

Revised NYSDEC Inactive Hazardous Waste Disposal Site Report

(47-15-11 (10/83)

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF SOLID AND HAZARDOUS WASTE INACTIVE HAZARDOUS WASTE DISPOSAL SITE REPORT

PRIORITY CODE:		SITE	CODE:	915102
NAME OF SITE:	Bernard Cope			REGION: 9
STREET ADDRESS:	48 Buell Strees			
TOWN/CITY:	Akron (V)	COUNTY:	Erie	14001
	OWNER OF SITE:Be		et, Akron,	New York 14001
TYPE OF SITE:				

ESTIMATED SIZE: _____ACRES

SITE DESCRIPTION: The disposal area is a partially filled gravel pit. Fill material such as demolition debris, cobblestones, timber and brush were reportedly recieved from the Village of Akron and Town of Newstead. The owner never obtained a permit to operate the dumo area although requested to do so by the NYSDEC. Little is known about the quantity or character of buried waste and there is no documented evidence available to indicate the site recieved hazardous waste. The fill area is presently covered and exhibits no signs of environmental impacts.

HAZARDOUS WASTE DISPOSED: CONFIRMED	SUSPECTED XX
TYPE	QUANTITY (POUNDS, DRUMS, ORUMS)
None known	

PAGE

TIME PERIOD SITE WAS USED FOR HAZARDOUS WASTE DISPOSAL:

Unknown	, 19	T0	October	, 19	78
OWNER(S) DURING PERIOD OF	ISE: <u>Berr</u>	nard Cope		·	
SITE OPERATOR DURING PERIOD	OF USE: _	Bernard Con	00		
ADDRESS OF SITE OPERATOR:					
ANALYTICAL DATA AVAILABLE:		SURFACE WATE			
CONTRAVENTION OF STANDARD		WATER	ORINKING WAT		
SOIL TYPE:Glacial till				· .	
DEPTH TO GROUNDWATER TABLE:	<u>2-4 fee</u>	et			-
LEGAL ACTION: TYPE: STATUS: IN PROGRE REMEDIAL ACTION: PROPOSE IN PROGRE NATURE OF ACTION: N	•	COM			

ASSESSMENT OF ENVIRONMENTAL PROBLEMS:

None known; however, some local resident use groundwater as a potable supply and nearby Murder Creek is used for recreational fishing.

ASSESSMENT OF HEALTH PROBLEMS:

None known; however, some local residents use groundwater as a potable supply and nearby Murder Creek is used for recreational fishing.

PERSON(S) COMPLETING THIS FORM:

	NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
NAME	Andre J. La Pres
TITLE	Geologist/URS Company, Inc.
NAME	
TITLE	
DATE	

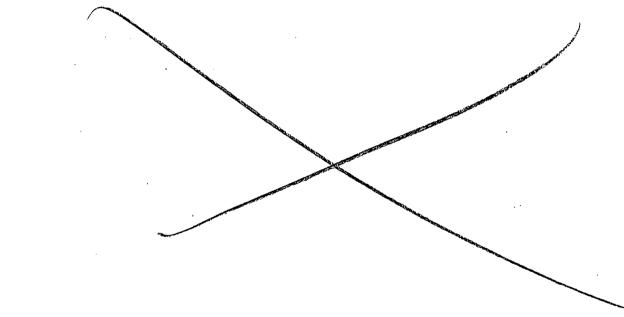
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NEW YORK STATE DEPARTMENT OF HEALTH

PAGE

APPENDIX B

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APPENDIX B

Data Sources and References

- 1. Memorandum to File; March 27, 1986.
- 2. NYSDEC, Division of Solid Waste and Hazardous Waste, Inactive Hazardous Waste Disposal Site Report; January 10, 1985.
- 3. Edward J. Buehler and Irving H. Tesmer, Geology of Erie County, New York; Buffalo Society of Natural Sciences Bulletin; 1963
- 4. A.M. LaSala, Jr., Groundwater Resources of the Erie-Niagara Basin, New York; State of New York Conservation Department Water Resources Commission; 1968.
- 5. Robert Gaddis, Town of Akron Superintendent; Telephone Interview; December 23, 1985.
- Carol Borchert, Newstead Town Clerk; Telephone Interview, April 2, 1986.
- 7. Doreen Gross, Town of Pembroke; Telephone Interview, April 2, 1986.
- 8. URS Company, Inc., Erie County Solid Waste Management Implementation Plan; November, 1980.
- 9. Climatic Atlas of the United States, U.S. Department of Commerce, National Climatic Center, Ashville, N.C., 1979.
- 10. R. Allan Freeze and John A. Cherry, Groundwater; Prentice-Hall, Inc., Englewood Cliffs, N.J.; 1979.
- 11. Robert Gaddis, Town of Akron Superintendent; Telephone Interview; April 2, 1986.

- 12. USGS Topographical Maps; 7.5 minute; Wolcottsville, N.Y., 1965; Akron, N.Y., 1976; Corfu, N.Y., 1975, Clarence, N.Y., 1965.
- 13. Craig W. Pawlewski, URS Company, Inc. Letter from Douglas Dettenrieder, District Conservationist; January 28, 1986.
- Rainfall Frequency Atlas of the United States Technical Paper No. 40, U.S. Department of Commerce, U.S. Government Printing Office, Washington, D.C., 1963.
- 15. James Pomeroy, Natural Resources Office, NYSDEC Region 9; Telephone Interview, April 16, 1986.
- 16. NYSDEC, Region 9; Designated Wetlands Maps for Wolcottsville and Akron Quadrangles.
- 17. Cameron O'Connor, Erie County DEP; Telephone Interview, December 16, 1985.
- 18. Craig W. Pawlewski, URS Company, Inc. Letter to Lenore Kuwik, NYS Office of Parks, Recreation and Historic Preservation.
- 19. Donald Tamol, P.E. NYSDEC; Memorandum regarding landfill inspection; October 6, 1978.

- 20. Census of Population, U.S. Department of Commerce, Bureau of the Census, 1980.
- 21. Memorandum. From: Kermit Studley, To: A: Voell; August 11, 1986.
- 22. Memorandum. From: Mr. Clare To: Mr. Tygert; July 29, 1986.

"AN UNSIGNED DOCUMENTATION OF INTERVIEW INDICATES THAT THE PERSON INTERVIEWED DID NOT SIGN AND RETURN THE DOCUMENTATION RECORD AS REQUESTED BY THE INVESTIGATOR" MEMORANDUM

TO: FILE 35015-90-001 FROM: CRAIG PAWLEWSKI DATE: MARCH 27, 1986 RE: SITE VISIT AND INTERVIEW

INTERVIEWEE: Bernard Cope

POSITION: Site Owner

NOTES:

Dump area was formerly a gravel pit. Mr. Cope was construction contractor for a number of years. Some of the excavated area on property was filled with debris from the Village of Akron and the Town of Newstead. Fill included rubbish, brush, timbers, demolition debris, and cobblestones from fences. Some burned material was buried from Young's Salvage. Depth of fill is approximately 15-20 feet. Mr. Cope never obtained a permit to fill area although requested to do so by the DEC. Filling operations ceased more than 10 years ago.

REF 1

AN INTERNATIONAL PROFESSIONAL SERVICES ORGANIZATION

CP/bc 4/4/86M

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NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF SOLID AND HAZARDOUS WASTE INACTIVE HAZARDOUS WASTE DISFOSAL SITE REPORT

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	HAZARDOUS WASI	E DISPUSAL SI	IE REPORT
ASSIFICATION CODE: 2a	REGION	:9 5	ITE CODE: 915102
OF SITE : Bernard (TREET ADDRESS #Buell St TON/CITY: NT ⁰ 11	Cope treet CO Er	UNTY: ie	ZIP:
SITE TYPE: Open Dump-X STIMATED SIZE:	ur: 63	goon- Landfi	ll- Treatment Pond-
ITE OWNER/OPERATOR INFO JURRENT OWNER NAME: JURRENT OWNER ADDRESS.: JUNER(S) DURING USE: OPERATOR DURING USE: OPERATOR ADDRESS: FERIOD ASSOCIATED WITH F	48 Buell Stree unknown Unknown Unknown	•	
SITE DESCRIPTION: Various communities in E aaterial at this site.	Erie County dis This site was	Posad of most formerly a gr	ly demolitions avel pit.
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HAZARDOUS WASTE DISPOSED	Confirmed-	Suspected	-X QUANIIIY_(units)
Unknown		U	nk nown

REF2

SITE CODE: 915102

REF 2

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ANALYTICAL DATA AVAILABLE:

Air- Surface Water- Groundwater- Soil- Sediment- None-X

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CONTRAVENTION OF STANDARDS:

Groundwater- Drinking Water- Surface Water- Air-

LEGAL ACTION:

TYPE...: None State- Federal-STATUS: In Progress- Completed-

REMEDIAL ACTION:

Proposed- Under Design- In Progress- Completed-NATUKE OF ACTION: None

GEOTECHNICAL INFORMATION: SOIL TYPE: Unknown GROUNDWATER DEPTH: Unknown

ASSESSMENT OF ENVIRONMENTAL PROBLEMS:

There is no evidence of any significant environmental problem at this site.

ASSESSMENT OF HEALTH PROBLEMS:

Insufficient Information

PERSON(S) COMPLETING THIS FORM:

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

NAME.: J. Heil, P.E. TITLE: Assoc. San. Eng.

NAME.: R.A. Olazagásti TITLE: SWMS

DATE .: 01/10/85

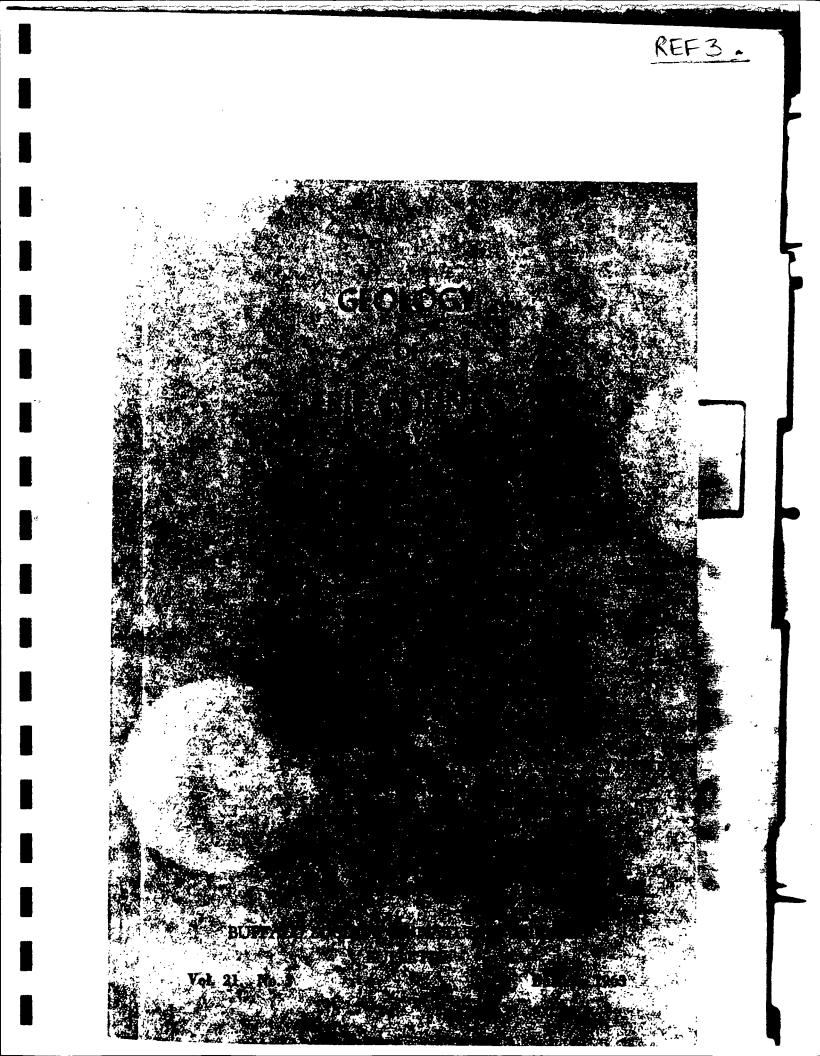
NEW YORK STATE DEPARTMENT OF HEALTH

NAME.: R. Tramontano TITLE: Bur. Tox. Sub. Asses.

NAME .: TITLE:

DATE.: 01/10/85

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BUFFALO SOCIETY OF NATURAL SCIENCES

TERMINOLOGY: See Alling (1928) and Leutze (1954).

AGE AND CORRELATION: Late Silurian (Cayugan). Equivalent to lower part of Brayman Shale in eastern New York.

THICKNESS: Approximately 400 feet.

LITHOLOGY: The Camillus varies from thin-bedded shale to massive mudstone. The color is gray or brownish gray but some beds show a tinge of red or green. According to Alling (1928, pp. 24-26), the Camillus at the type locality is a massive gray magnesian-lime mudrock. Gypsum and anhydrite are present in Erie County.

It is probable that during much of Late Silurian time the northeastern United States was a desert basin. Salt and gypsum were precipitated by evaporation of the shrinking inland Salina Sea.

PROMINENT OUTCROPS: The Camillus Shale extends across Erie County in an east-west trending belt approximately six to eight miles wide. This belt is largely lowland in which outcrops are rare. The top of the formation is exposed at Akron Falls (pl. 6, upper). A small section can be seen in the valley of Murder Creek north of Akron. Houghton (1914, pp. 7-8), Luther (1906, p. 8) and others report outcrops on Grand Island but these could not be located.

CONTACTS: The lower contact of the Camillus Shale is not exposed near Erie County. The contact with the overlying Bertie Formation is difficult to define.

ECONOMIC GEOLOGY: The Camillus Shale is an important source of gypsum. National Gypsum Company has a mine at Clarence Center, Certain-Teed Company at Akron, and United States Gypsum Company at Oakfield in neighboring Genesee County.

PALEONTOLOGY: No fossils have been reported from the Camillus Shale of Erie County. Apparently animal life could not survive in the "dead sea" environment of the time.

BERTIE FORMATION

TYPE REFERENCE: Chapman (1864, p. 190).

TYPE LOCALITY: Bertie township, Welland County, Ontario, Canada.

TERMINOLOGY: This unit is commonly called the Bertie Waterlime. Chadwick (1917) divided the Bertie into four units: the Oatka (oldest), Falkirk, Scajaquada, and Williamsville. The Williamsville Member was formerly called the "Buffalo cement bed" (see fig. 4).

AGE AND CORRELATION: Late Silurian (Cayugan). Equivalent to upper part of Brayman Shale in eastern New York.

THICKNESS: 50 · 60 feet total. Approximate figures for the members are Oatka 20 feet, Falkirk 20 feet, Scajaquada 8 feet, and Williamsville 6 feet.

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STRATIGRAPHIC COLUMN BERTIE-ONONDAGA

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FORMATION MEMBER 344444 MARCELLUS OATKA CREEK SHALE MOOREHOUSE MEMBER ONONDAGA FORMATION NEDROW EDGECLIFF MEMBER --UNC. AKRON DOLOSTONE WILLIAMSVILLE MEMBER SCAJAQUADA NENBER BERTIE -30' FORMATION -20' 10 OATKA MEMBER Π **o'** SCALE CAMILLUS SHALE ACK SHALE DOLOSTONE ESTONE LIMESTONE WITH DARK GRAY CHERT GEITZENAUER Fig. 5

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LITHOLOGY: The Bertie Formation consists predominantly of dolostone or dolomitic limestone. The Oatka Member contains shaly dolostone and is difficult to differentiate from the underlying Camillus Shale. The Falkirk Member is a massive brown dolostone. The Scajaquada and Williamsville Members consist of dark gray shale and gray dolostone beds of variable thickness. The dolostone tends to fracture conchoidally. Cross-bedding, salt hopper casts, and a variety of unidentified sedimentary structures are displayed.

It has been argued by O'Connell (1916) that the Bertie Formation represents a deltaic or lagoonal rather than a marine environment. The eurypterids are envisioned as river-dwelling animals whose exoskeletons were washed onto a delta. Ruedemann (1924) and others regard the eurypterids as marine animals although they interpret the Bertie as a lagoonal deposit.

PROMINENT OUTCROPS: In Buffalo, the Bertie may be seen near the Main Street entrance to Forest Lawn cemetery; in the storm sewer on East Amherst Street and in the railroad cut on Amherst Street, a few blocks west of Main Street. There is a good exposure at the falls of Ellicott Creek in Williamsville; in the Louisville Cement Company quarry on the north side of New York route 5 near Clarence; and, at the falls in Akron Falls Park (pl. 6, lower).

CONTACTS: Both the lower and upper contacts are difficult to define.

ECONOMIC GEOLOGY: This rock has been quarried for crushed stone and cement manufacture. Near Akron there are several abandoned mine shafts, no longer accessible.

PALEONTOLOGY: The Bertie is famous for its eurypterids, collections of which are housed in the Buffalo Museum of Science and in the New York State Museum at Albany. See Heubusch (1959) for an account of the stratigraphic distribution of these. The eurypterids are found in the Williamsville Member.

The faunal list has been compiled from the following sources: Pohlman (1881; 1886), Clarke and Ruedemann (1903; 1912), Luther (1906, p. 9), O'Connell (1914), Clarke (1919, pp. 531-532), Ruedemann (1925), Bassler (1939), Kilfoyle (1954), Caster and Kjellesvig-Waering (1956), Kjellesvig-Waering (1958), Heubusch (1959 and personal communication), Howell (1959), Kjellesvig-Waering and Heubusch (1962):

PLANTS

Callithamnopsis silurica Ruedemann Hostimella silurica Goldring Nematophyton (?) sp. Stigmatella sp.

COELENTERATES

Ceratopora (?) sp. S Metaconularia perglabra (Ruedemann) S

Setpulites sp.) Stromatopota sp. BRYOZOANS

Hernodia (?) monahani Bassler

Reptaria cayuga Bassler

Annelid

Ruedemannella obesa Ruedemann

32

BUEHLER AND TE

Camarotoechia cf. andr Delthyris eriensis Grabi Lingula media Ruedemi

Ceratopea (?) sp. Hercynella buffaloensis H. patelliformis O'Co

Dawsonoceras oconn: Mitroceras anderdon:

Goniophora sp.

Buffalopterus pustulosu Bunaia woodwardi Clai Carcinosoma scorpionis Ceratiocaris acuminata C. maccoyana Hall Dolichopterus macrochi D. siluriceps Clarke an Emmelezoe minuta Rue Erettopterus grandis (F

Ascograptus gracilis Ru Climacograptus ultimus Inocaulis lesquereuxi (1

Type Reference:

TYPE LOCALITY: M port and Medina qu:

TERMINOLOGY: See Cobleskill Dolomite western and eastern field tracing, the Ak term "Bullhead dolc Akron and gives sec:

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natily of dolostone or y bolostone and is diffi-. The Falkirk Member Williamsville Members variable thickness. The ling, salt hopper casts, displayed.

Batie Formation repreument. The eurypterids ctons were washed onto eurypterids as marine al eposit.

be seen near the Main sewer on East Amherst wolocks west of Main Creek in Williamsville; orth side of New York Pok (pl. 6, lower).

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rushed stone and cement d mine shafts, no longer

ids, collections of which in the New York State in the of the stratigraphic Villiamsville Member.

uther (1906, p. 9), unn (1925), Bassler g (1956), Kjellesvignunication), Howell

Bassler

BUEHLER AND TESMER: GEOLOGY OF ERIE COUNTY, NEW YORK

Camarotoechia cf. andrewsi Prouty Delthyris eriensis Grabau Lingula media Ruedemann	BRACHIOPODS L. testatrix Ruedemann Orbiculoidea bertiensis Ruedemann
	MOLLUSKS Gastropods
Ceratopea (?) sp. Hercynella buffaloensis O'Connell H. patelliformis O'Connell	Hormotoma gregaria Ruedemann Loxonema (?) bertiensis Ruedemann Morania (?) bertiensis Ruedemann (possibly not a gastropod)
Decision	Cephalopods
Dawsonoceras oconnellae Ruedemann Mitroceras anderdonense (Grabau)	Pristeroceras timidum Ruedemann Orthoceras sp.
A	Pelecypods
Goniophora sp.	Rhytimya buffaloensis Ruedemann
	ARTHROPODS
Buffalopterus pustulosus (Hall) Bunaia woodwardi Clarke Carcinosoma scorpionis (Grote and Pitt Ceratiocaris acuminata Hall C. maccoyana Hall Dolichopterus macrocheirus Hall D. siluriceps Clarke and Ruedemann Emmelezoe minuta Ruedemann Erettopterus grandis (Pohlman)	Eurypterus dekayi Hall E. remipes lacustris Harlan t) E. remipes remipes Dekay Hemiaspis (?) eriensis Clarke Leperditia alta (Conrad) L. scalaris (Jones) Pterygotus cobbi Hall P. cummingsi Grote and Pitt

ECHINODERM Pyrgocystites batheri (Ruedemann)

GRAPTOLITES

Medusaegraptus graminiformis (Pohlman) Orthograptus (?) sp. Paleodictyota buffaloensis Ruedemann

INCERTAE SEDIS

Machaeridian

Lepidocoleus reinhardi Ruedemann

AKRON DOLOSTONE

TYPE REFERENCE: Grabau and Sherzer (1909).

Ascograptus gracilis Ruedemann

Climacograptus ultimus Ruedemann

Inocaulis lesquereuxi (Grote and Pitt)

TYPE LOCALITY: Murder Creek near Akron, Erie County, New York; Lockport and Medina quadrangles.

TERMINOLOGY: See Hartnagel (1903). This unit has also been called the Cobleskill Dolomite but because of differences in the Upper Silurian sections of western and eastern New York (type locality of the Cobleskill) and difficult field tracing, the Akron, revived by Chadwick (1917) is preferred here. The term "Bullhead dolomite" has also been used. Hoffman (1949) describes the Akron and gives sections for western New York.

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AGE AND CORRELATION: Late Silurian (Cayugan). The Akron Dolostone correlates with the Cobleskill Dolomite of eastern New York.

THICKNESS: Approximately 8 feet.

LITHOLOGY: The beds vary from a few inches to over a foot in thickness. The color ranges from greenish-gray to light buff and displays a characteristic mottled and banded appearance. In texture the rock is fine-grained but vuggy and rough-weathering. A pitted surface results from the weathering of fossil corals.

PROMINENT OUTCROPS: Forest Lawn cemetery in Buffalo; storm sewer on Amherst Street; railroad cut on Main Street near Jewett Avenue; Louisville Cement Company quarry on New York route 5 near Clarence; Cummings old cement works one mile north of New York route 5 on Cummings Road; Murder Creek near Akron Falls Park (pl. 6, lower).

CONTACTS: The lower contact is conformable with the top of the Bertie Formation. The upper contact with the Onondaga Limestone is a conspicuous disconformity which has cut out most or all of the Lower Devonian. The top of the Akron Dolostone is broadly undulating and has channels which are commonly ten feet across and three feet deep, containing some sand grains and clay at the bottom. Clastic dikes filled with sand have been described. See Grabau (1900, pp. 355-361) for a thorough description of the contact and the dikes.

ECONOMIC GEOLOGY: The Akron Dolostone has been used as a building stone and in the manufacture of cement.

PALEONTOLOGY: This list has been compiled from Grabau (1900 pp. 363-376), Hartnagel (1903), Ruedemann (1925), Kilfoyle (1954), Kjellsvig-Waering (1958):

PLANTS

Nematophyton crassum Penhallow

COELENTERATES

Cyathophyllum hydraulicum Simpson Favosites sp.

Delthyris eriensis (Grabau) Orthotetes interstriatus Hall Rhynchonella sp. Whitfieldella cf. laevis (Whitfield)

Loxonema (?) sp.

Foersteoceras turbinatum (Hall)

BRACHIOPODS W. nucleolata (Hall) W. cf. rotundata (Whitfield) W. sulcata (Vanuxem)

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MOLLUSKS Gastropods

Pleurotomaria (?) sp. Cephalopods Mitroceras gebhardi (Hall)

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Eurypterus remipes lacustris Harlan Leperditia scalaris Jones

Inocaulis akronensis Ruedemann

Devo:

LOWER DEVONE

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The Oriskany Sandstone is n sand grains at the Silurian Devo: Clarke (1900, pp. 79, 96-98).

MIDDLE DEVU

ONONDA

TYPE REFERENCE: Hall (1839, pr

TYPE LOCALITY: Onondaga Coun has not been designated.

TERMINOLOGY: Eaton (1828, p. 1 tiferous limerock." Oliver (1954) study. He recognized four membe house, and Seneca (see fig. 5).

AGE AND CORRELATION : The One Middle Devonian but comparison v late Early Devonian age to some been traced eastward across New lachian Mountains. To the west, Detroit River Group of Michigan.

THICKNESS: Complete measured County have not been published. Bishop (1897, p. 390) gives a mor Member, normally only a few fee bioherm at Williamsville (filled c nue). This produces a local dome

LITHOLOGY: The Edgecliff Memb stone with abundant corals. In t are beds of green tinted shale and

The Nedrow Member is a rc

BUEHLER AND TESMER: GEOLOGY OF ERIE COUNTY, NEW YORK

ARTHROPODS

Pterygotus sp.

Inocaulis akronensis Ruedemann

GRAPTOLITES Medusaegraptus graminiformis (Pohlmann)

Devonian System

LOWER DEVONIAN (ULSTERIAN) SERIES

ORISKANY SANDSTONE

The Oriskany Sandstone is not exposed as such in western New York but sand grains at the Silurian-Devonian contact have been termed Oriskany by Clarke (1900, pp. 79, 96-98).

MIDDLE DEVONIAN (ERIAN) SERIES

ONONDAGA LIMESTONE

TYPE REFERENCE: Hall (1839, pp. 293-309).

TYPE LOCALITY: Onondaga County, New York. A more exact type locality has not been designated.

TERMINOLOGY: Eaton (1828, p. 153) called the Onondaga Limestone "Cornitiferous limerock." Oliver (1954) conducted the most recent and thorough study. He recognized four members: the Edegcliff (oldest), Nedrow, Moorehouse, and Seneca (see fig. 5).

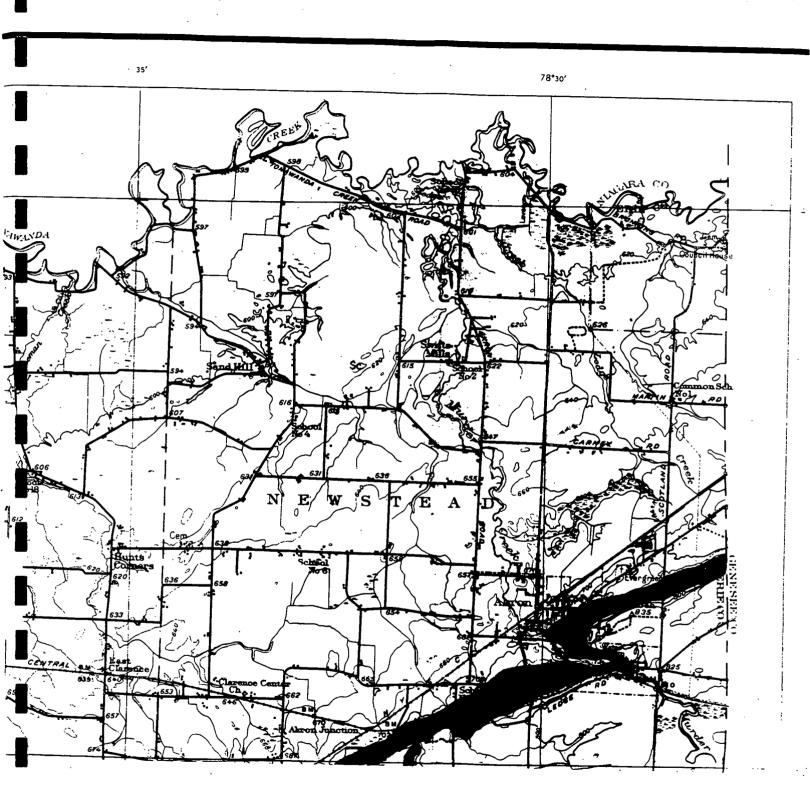
AGE AND CORRELATION: The Onondaga Limestone is generally dated as early Middle Devonian but comparison with the European standard section suggests a late Early Devonian age to some (Cooper *et al.* 1942). This formation has been traced eastward across New York State and southward into the Appalachian Mountains. To the west, the Onondaga correlates in part with the Detroit River Group of Michigan.

THICKNESS: Complete measured sections of the Onondaga Limestone in Erie County have not been published. Luther (1906, p. 13) mentions 162 feet. Bishop (1897, p. 390) gives a more probable figure of 108 feet. The Edgecliff Member, normally only a few feet in thickness, swells to about 35 feet in the bioherm at Williamsville (filled quarry at Main Street and Kensington Avenue). This produces a local dome with dips as great as 10 degrees.

LITHOLOGY: The Edgecliff Member is a gray, coarse-textured, crinoidal limestone with abundant corals. In the Williamsville bioherm and vicinity, there are beds of green tinted shale and some disseminated bituminous matter.

The Nedrow Member is a rough-weathering, cherty limestone. The chert

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and septaria: Miadiesex Shale Member, black shale at base. cous hodans



Genesee Formation

West River Shale Member, dark-gray shale with some very thin beds of black shale and siltstones; Genundewa Limestone Member, thin limestone containing Styliolina fissurella; Penn Yan Shale Member, thin unit of dark-gray shale; Geneseo Shale Member, thin unit of black shale at base.



Moscow Formation

Windom Shale Member, medium-gray to olive-gray calcareous shale with many calcareous con-cretions; Kashong Shale Member, thin unit of soft gray shale at base. Thin lenses of Leicester Pyrite sometimes occur between the Moscow and Genesee Formations.



Ludlowville Formation

Tichenor Limestone Member, thin, massive, fossiliferous, resistant limestone occurs at top; Wanakah Shale Member, medium-gray, fossiliferous, calcareous shale with some calcareous concretions; Ledyard Shale Member, dark-gray calcareous shale; Centerfield Limestone Member, thin, massive limestone unit at base.



Skaneateles Formation

Levanna Shale Member, dark-gray calcareous shale; Staford Limestone Member, massive, fossiliferous limestone at base.



Marcellus Formation

Oatka Creek Shale Member, black calcareous shale with some calcareous concretions.



Onondaga Limestone

Moorehouse Limestone Member, light-gray limestone containing numerous corals and considerable dark-gray chert nodules; Nedrow Member, intermixed light-gray limestone and dark-gray chert; Edgecliff Member, light-gray limestone with some light-gray chert nodules, locally represented by a

UNCONFORMITY



Akron Dolostone Light-gray dolostone

Bertie Formation

Williamsville Member, light-gray argillaceous limestone; Scajaquada Member, interbedded dark-gray shale and argillaceous limestone; Falkirk Member, light-gray dolostone; Oatka Member, dark-gray shale with argillaceous limestone at base containing eurypterids.

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GROUND-WATER RESOURCES OF THE ERIE-NIAGARA BASIN, NEW YORK

REF4



Prepared for the Erie-Niagara Basin Regional Water Resources Planning Board

by

A. M. La Sala, Jr.

UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

in cooperation with

THE NEW YORK STATE CONSERVATION DEPARTMENT DIVISION OF WATER RESOURCES

STATE OF NEW YORK CONSERVATION DEPARTMENT WATER RESOURCES COMMISSION

Basin Planning Report ENB-3

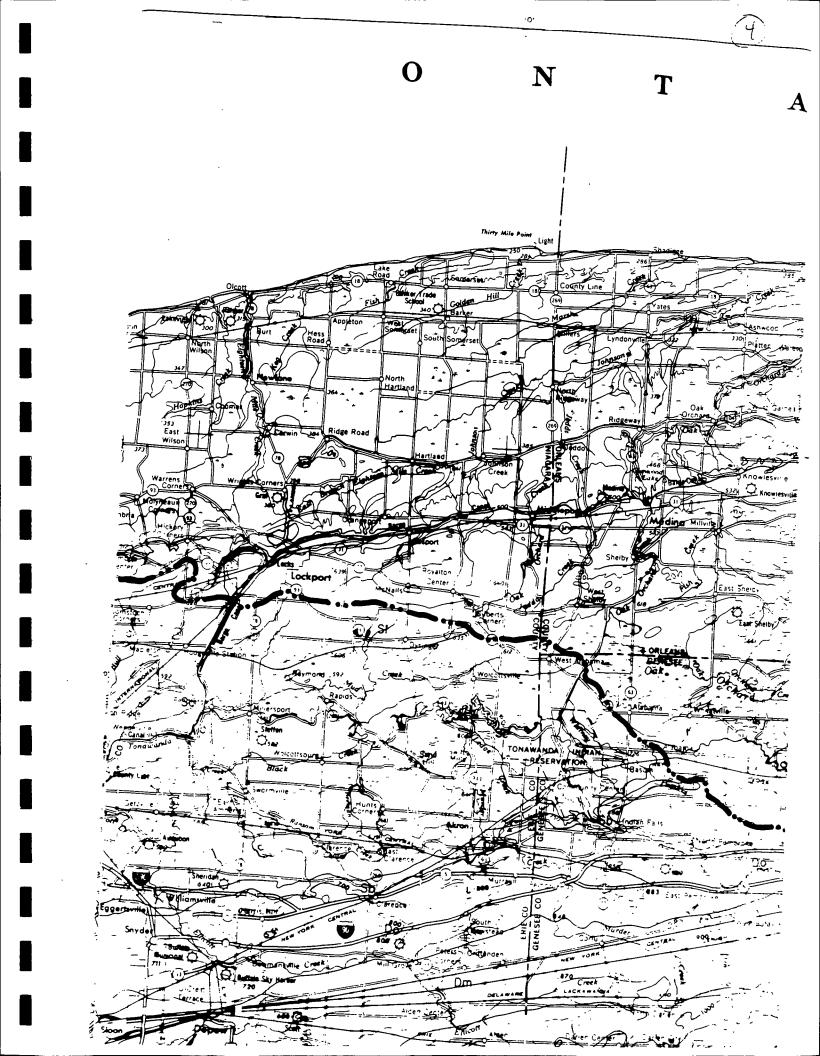
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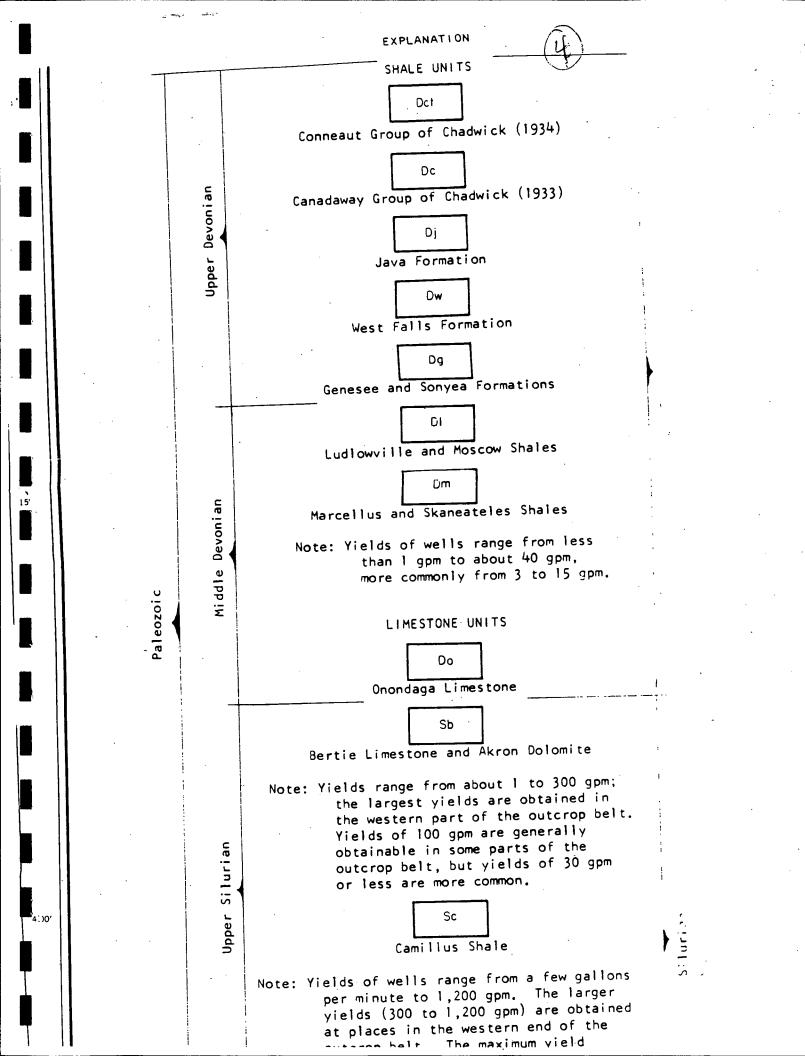


Sec. 1 Interbedded sand and gravel deposits laid down by glacial streams. They were the last deposits to be formed in a particular valley. As a result, most deposits are thin and overlie lake deposits. They have a high permeability but will yield large supplies only where thick. At Batavia they exceed 70 feet in thickness and yield 500 to 1,200 gpm to properly constructed individual wells. Lake Deposits Interbedded clay, silt, and fine sand deposited in glacial lakes. Sandy parts of the deposits may yield small supplies, but otherwise the unit is not water yielding. Ice-Contact Deposits Interbedded sand and gravel deposited by glacial streams. Most ground-water supplies developed for municipalities are either exposed at the surface or buried beneath lake and outwash deposits. Yield about 500 gpm to properly constructed wells. Till Nonsorted rock material deposited from glacial ice, generally forming a thin mantle over the bedrock. Has a low permeability and will yield only small supplies (sufficient for a household) from large-diameter wells. **Bedrock Exposures** Exposures observed incidental to field studies. Geologic Contact Basin Boundary

Geology adapted from Broughton and others (1962) Buehler and Tesmer (1963), and Luther (1914)

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Yields of wells

The Camillus Shale is by far the most productive bedrock aquifer in the area. Except in the vicinity of Buffalo and Tonawanda, where industrial wells produce from 300 to 1,200 gpm, no attempt has been made to obtain large supplies from the formation. However, the inflow of water to gypsum mines near Clarence Center and Akron indicate that large supplies are not necessarily restricted to the Buffalo and the Tonawanda area. Two examples of large flows of water encountered in gypsum mining have already been mentioned. Pumpage from gypsum mines near Clarence Center (including the mine mentioned previously) is substantial. The water pumped is discharged to Got Creek. On July 2, 1963, the creek had a flow of 2.1 mgd (million gallons per day) about half a mile downstream from the mines, that was due almost entirely to the pumpage. Water for industrial use is pumped from a flooded, abandoned gypsum mine at Akron. This pumpage, at a rate of 500 to 700 gpm, has had no appreciable effect on the water level in the mine.

Probably the larger solution openings are most common in discharge areas near Tonawanda Creek and its tributaries and near the Niagara River; the flow of ground water becomes concentrated as it approaches the streams to which it discharges. Other discharge areas, such as low-lying swampy areas and headwaters of small streams that have perennial flow, are likely places to drill wells.

LIMESTONE UNIT

Bedding and lithology

The term "limestone unit" in this report is applied to a sequence of limestone and dolomite overlying the Camillus Shale. The limestone unit includes the Bertie Limestone at the base, the Akron Dolomite, and the Onondaga Limestone at the top. The lithology and thickness of these units are shown in figure 7. The Bertie Limestone and the Akron Dolomite are Silurian in age and are separated from the overlying Onondaga Limestone of Devonian age by an unconformity or erosional contact.

The Bertie Limestone is mainly dolomite and dolomitic limestone but contains interbedded shale particularly in the thin-bedded lower part of the formation. The middle part is brown, massive dolomite, and the upper part is gray dolomite and shale whose beds are of variable thickness. The total thickness of the formation is about 55 feet (Buehler and Tesmer, 1963, p. 30-31).

The Akron Dolomite is composed of greenish-gray and buff dolomite beds varying from a few inches to about a foot in thickness. The upper contact of the Akron is erosional and is often marked by remnants of shallow stream channels. Thin lenses of sandy sediments lie in the bottoms of some channels. The thickness of the formation is generally between 7 and 9 feet (Buehler and Tesmer, 1963, p. 33-34).

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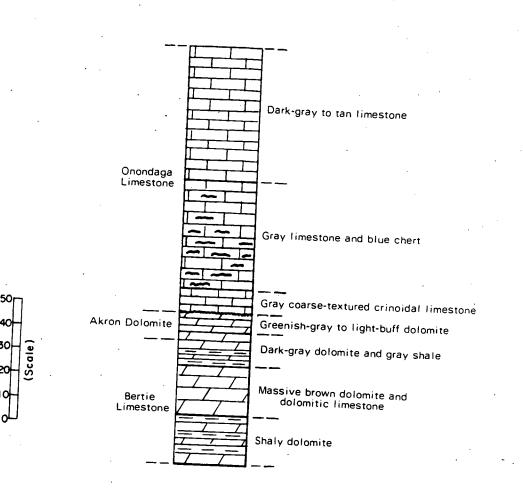


Figure 7.--Lithology of the limestone unit.

The Onondaga Limestone, about 110 feet thick, makes up the greatest thickness of the limestone unit. The formation consists of three members. The lowest member is a gray coarse-grained limestone, generally only a few feet thick. At places this member grades laterally into reef deposits which increases its thickness (Buehler and Tesmer, 1963, p. 35-36).

The middle member of the Onondaga is a cherty limestone. In some zones the chert exceeds the amount of limestone. The unit is probably 40-45 feet thick.

The upper unit is a dark-gray to tan limestone of varying texture and is probably about 50-60 feet thick.

Water-bearing openings

The limestone unit contains water-bearing openings that are similar to those of the Lockport Dolomite. Because the limestone unit is more soluble, however, solution widening of the openings appears to be more pronounced. The types of water-bearing joints in the limestone can be seen at the falls of Murder Creek at Akron. Not all of the flow of Murder Creek plunges over the falls. A considerable part of the flow percolates into the limestone unit upstream from the falls and discharges from bedding joints both at the face and along the sides of the falls. The principal zones of discharge are at the base of the Bertie, and at a contact of a shaly zone and overlying thick-bedded dolomite 20 feet above the base.

The falls at Akron also illustrate in an exaggerated way the role of vertical joints. Water from Murder Creek percolates into the rock through solution-widened vertical joints before reaching the bedding-plane joints. The continuous and concentrated flow of water in the creek has widened the vertical joints to an unusual degree. Vertical joints are ordinarily very narrow. They probably are most effective in aiding the movement of water to the bedding joints where the bedding joints are close to the rock surface.

Locally, solution along bedding joints in the limestone unit has been great enough to cause the rock overlying the solution opening to settle. Settling of this type probably accounts for at least some of the small depressions in the outcrop belt of the Onondaga Limestone. A collapsed solution zone in the Onondaga Limestone discharges a large volume of water into a quarry (257-840-A) near Harris Hill. About 3,000 gpm is pumped from the quarry, and most of the water is reported to come from the solution zone.

The limestone unit is cut by a fault on the east side of Batavia. Faults cutting limestone are likely to cause shattering along the fault and, thus, create a permeable water-bearing zone.

Hydrologic and hydraulic characteristics

The limestone unit is similar to the Lockport Dolomite in structure. However, its hydrology is different. The limestone unit is cut transversely by Tonawanda Creek and its major tributaries. Small tributaries flow across it in northerly and westerly directions. The limestone unit receives water in the interstream areas by percolation into joints. The water is discharged laterally to the streams and at places along the north-facing scarp or enters the Camillus Shale at depth.

The coefficient of transmissibility of the limestone unit probably ranges from about 300 to 25,000 gpd per foot. Specific capacity data are given in table 3. Drillers' reports indicate high transmissibilities for the limestone unit in Williamsville which probably arise from relatively intense circulation of ground water near Ellicott Creek. The coefficients of transmissibility given in table 3 were computed from specific capacity data by the method described by Walton (1962, p. 12-13).

- 23 -

Well number	Pumping rate	Duration of pumping	Drawdown	Specific	Coefficient of transmissi-
	(gpm)	(hours)	(feet)	capacity (gpm/ft)	bility (gpd/ft)
252-852-1	85	34	7	12.1	25,000
-2	30	. =-	17	2	4,000
255-848-1	130	, 	10		•
255-850-1	180		••	13	25,000
	180	6	45	4	8,000
59-824-1	100	8	30	3.3	6,000
-2	100	8	12	8.3	
00-824-1	104	. 8		v • j	15,000
		0	28	3.7	7,000

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The coefficient of storage of the limestone unit is probably between those of the Lockport Dolomite and the Camillus Shale. The storage coefficients of these three units vary mainly with the volume of the openings in the rocks which, in turn, vary with the solubility of the rocks. Limestone is more soluble than dolomite but less soluble than gypsum. Storage coefficients in the limestone unit should, therefore, be somewhat higher than those of the Lockport Dolomite but somewhat lower than those of the Camillus Shale.

Yields of wells

The limestone unit is more productive than the Lockport. A number of large-yield wells in Buffalo, Cheektowaga, Williamsville, Pembroke, and Batavia are finished in the limestone unit and indicate that yields of 300 gpm and possibly more can be obtained. Like the Lockport Dolomite, the yields of wells in the limestone unit range through a broad spectrum. However, the more productive wells in the limestone unit are relatively abundant when compared to those in the Lockport. Of significance also is that three wells half a mile apart drilled for an industrial firm near Pembroke, each sustained a discharge of about 100 gpm (table 6, wells 259-824-1, -2, and 300-824-1). These three wells indicate that such yields are available in some areas. in the lake and gradually filled it (fig. 8D).

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ravel.

Eventually the lake deposits built up to the threshold of the dam, or the dam was cut away by the water spilling over it, or the ice sheet retreated northward opening up the valley. Streams could then flow over the surface of the lake deposits and lay down a second sand and gravel deposit, an outwash deposit (fig. 8D). The sources of the stream waters were the wasting ice sheet (particularly so in southward drained valleys), small masses of wasting ice remaining in tributary valleys, and precipitation. The thickest and most extensive outwash deposits were formed in southward drained valleys and in zones peripheral to the ice sheet. With time, the ice sheet retreated still farther northward, the glacial streams ceased to flow, and glacial deposition came to an end.

As the ice sheet retreated farther north, the climate more nearly approached that of the present. A drainage system developed in response to precipitation. Streams began to incise channels into the deposits. Vegetation took hold as the weather warmed and helped stabilize the slopes. In time, with a change in regimen, the streams began to lay down alluvium (fig. 8E)

The sequence of events discussed above and shown in figure 8 is generalized. Nevertheless, it is useful in understanding the occurrence of the unconsolidated deposits, particularly in valley areas where they constitute an important source of ground water. In the following sections the lithology and water-bearing characteristics of each of the major types of deposits in the Erie-Niagara basin will be discussed.

TILL

As shown in plate 3, till is the most widespread of all the unconsolidated deposits in the Erie-Niagara basin: Till is essentially a nonsorted material whose character depends principally upon the types of rocks over which the ice passed and the vigor with which the ice crushed and abraded the rock. Till overlying the shale is dark gray and clayey or silty. In some areas, mainly on hillsides and terraces south of Cattaraugus Creek, part of the till is stony material. Till on the soluble rocks is light red and silty; in some morainic ridges it is mostly fine sand.

Thickness of the till varies considerably from a thin cover of 2 or 3 feet to more than 200 feet along the divides between Cattaraugus Creek and the northwestward flowing streams, such as Tonawanda, Buffalo, and Eighteenmile Creeks. On flat terraces mapped as till in Buttermilk Creek valley, the stony till is as much as 30 feet thick.

Only small supplies of water are available from till. The permeability of till is so small that wells with large wall areas are required to obtain even small supplies. This requirement for a large wall area is met by digging large-diameter wells.



REF 5

URS COMPANY, INC. ALS DELANARE ALE DELANARE ALE DELANARE ALE TEL TO DO STAN JAN 2, 1 1986

January 15, 1986

Mr. Robert Gaddis Town of Akron Superintendent 21 Main Street Akron, NY 14001

Dear Mr. Gaddis:

This is to confirm our telephone conversation of December 23, 1985, wherein you provided the following information regarding the Bernard Cope inactive waste site:

- o The Town of Akron and area within a 3-mile radius of the site receive their water from a municipal supply pumped from a source in Bennington, N.Y.
- o There are no surface water-supply intakes within 3 miles (free-flowing bodies) or 1 mile (static water bodies) downstream of the site.
- o The Town of Akron has a backup water supply available from a well on Critternan Road (greater than 3 miles from the site).
- o There are no groundwater wells in use within a 3-mile radius of the site.

We would appreciate if you would kindly review this information an after making any corrections necessary, return a signed copy to use to indicate your concurrence.

Sincerely,

URS COMPANY, INC.

Croug W. Pauleuski

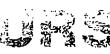
Craig W. Pawlewski Project Engineer

cc: V. Singh

I agree with the information as it is provided.

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URS COMPANY, INC.

625 DELAWARE AVE BUFFALO, NEW YORK 14202 TEL: (716) 883-5525

April 3, 1986

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Ms. Carol Borchert Newstead Town Clerk Church and John Streets Akron, New York 14001

Dear Ms. Borchert:

This is to confirm our telephone conversation of April 2, 1986, wherein you provided the following information regarding the Town of Newstead's water supply:

- o The Village of Akron is supplied by a municipal water supply system. supplies the Town of Neuroles.
- o The Town of Newstead has four water districts outside of the Village of Akron that serve approximately 155 customers.
- o The majority of residents outside of the Village of Akron use private wells.

We would appreciate if you would kindly review this information an after making any corrections necessary, return a signed copy to use to indicate your concurrence.

Sincerely,

URS COMPANY, INC.

rain W. Finkenshi

Craig W. Pawlewski Project Engineer

cc: V. Singh

I agree with the information as it is provided.

Carole Borchert

4/3/86L 015B4 CWP/bc RECEIVED URS COMPANY

APR 9 1986

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URS COMPANY, INC.

625 DELAWARE AVE BUFFALO. NEW YORK 14202 TEL: (716) 883-5525

April 3, 1986

Ms. Doreen Gross 1145 Main Street Corfu, New York 14036

Dear Ms. Gross:

This is to confirm our telephone conversation of April 2, 1986, wherein you provided the following information regarding the water supply system for the Town of Pembroke:

The Town of Pembroke is almost entirely supplied with potable water from private wells.

The only exceptions are a small number of residents receiving water from the municipal supplies from the Village of Corfu and the Town of Batavia.

We would appreciate if you would kindly review this information an after making any corrections necessary, return a signed copy to use to indicate your concurrence.

Sincerely,

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URS COMPANY, INC.

raig. W. Pauleushi

Craig W. Pawlewski Project Engineer

cc: V. Singh

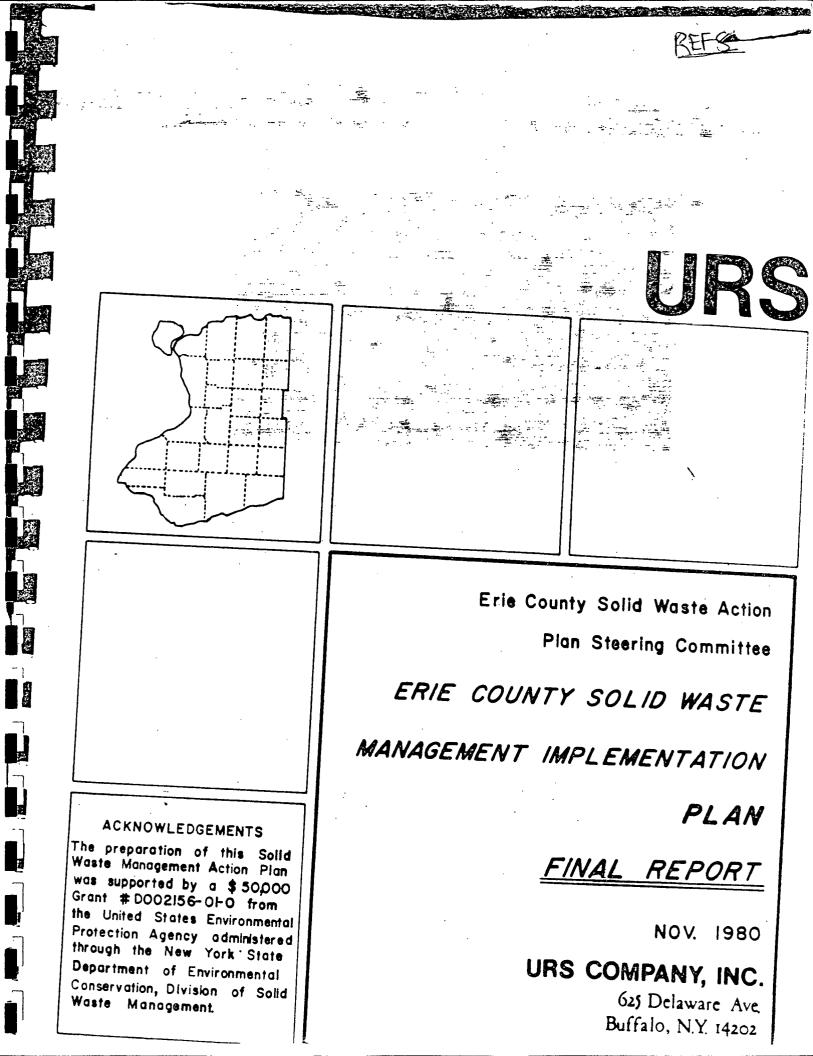
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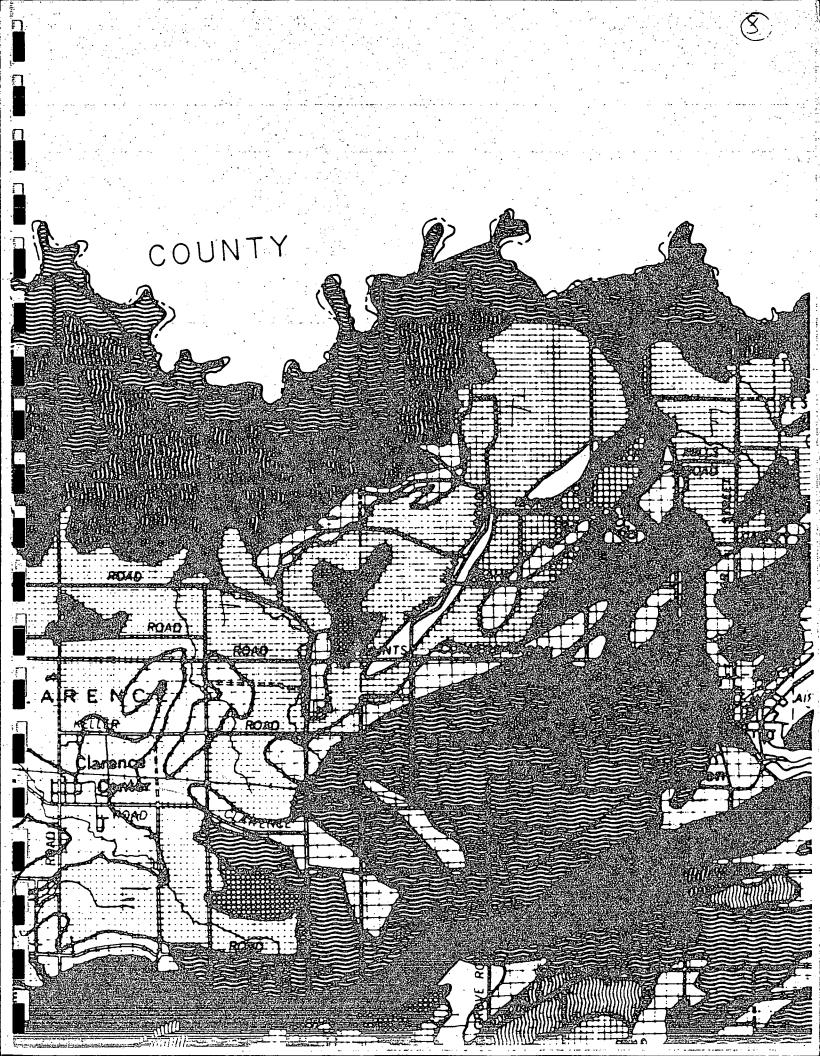
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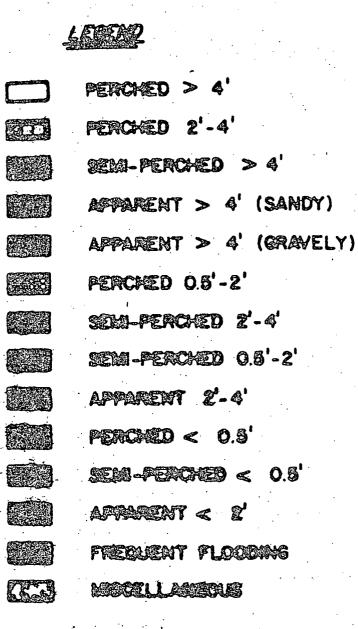
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APR 9 1986

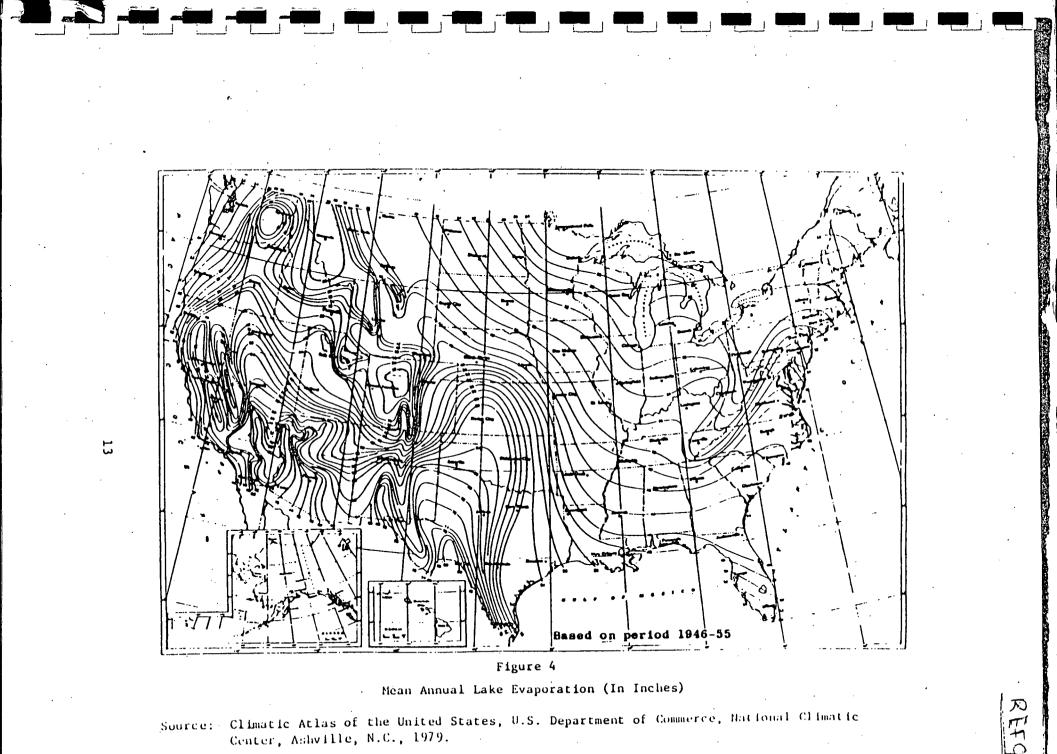
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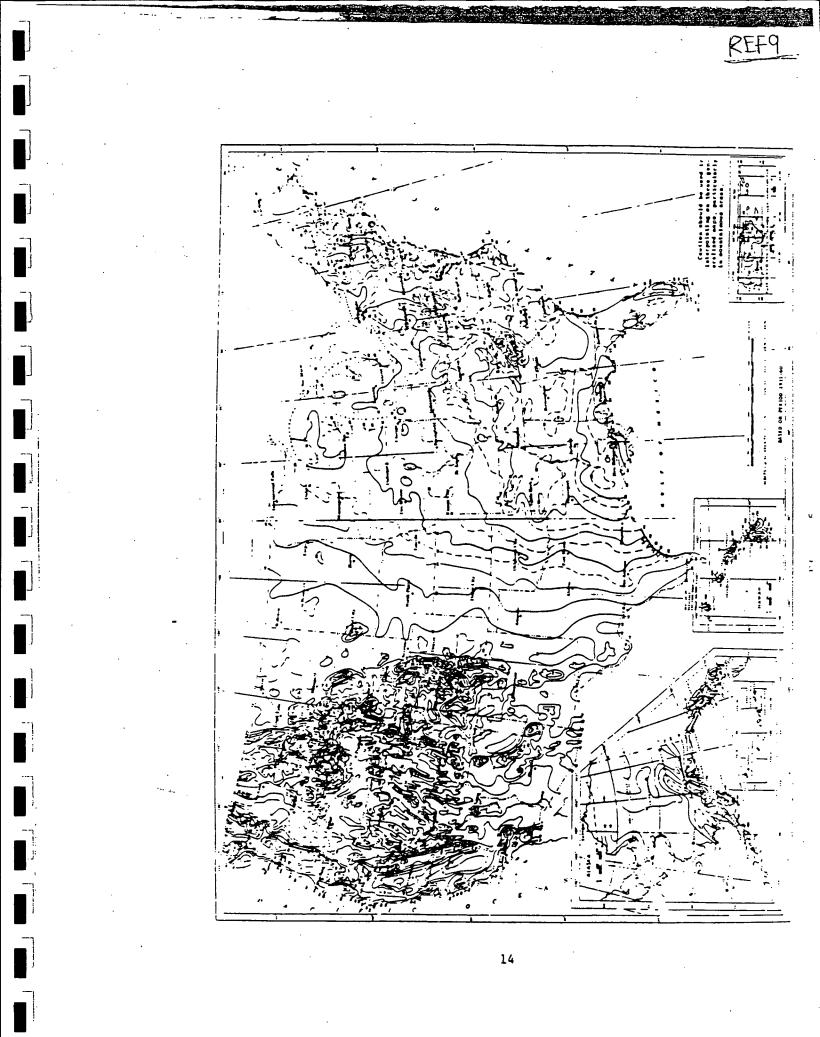




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Source: Climatic Atlas of the United States, U.S. Department of Commerce, National Climatic Center, Ashville, N.C., 1979.



R. Allan Freeze

Department of Geological Sciences University of British Columbia Vancouver, British Columbia

RET 10

John A. Cherry

Department of Earth Sciences University of Waterloo Waterloo, Ontario

GROUNDWATER

Prentice-Hall, Inc. Englewood Cliffs, New Jersey 07632

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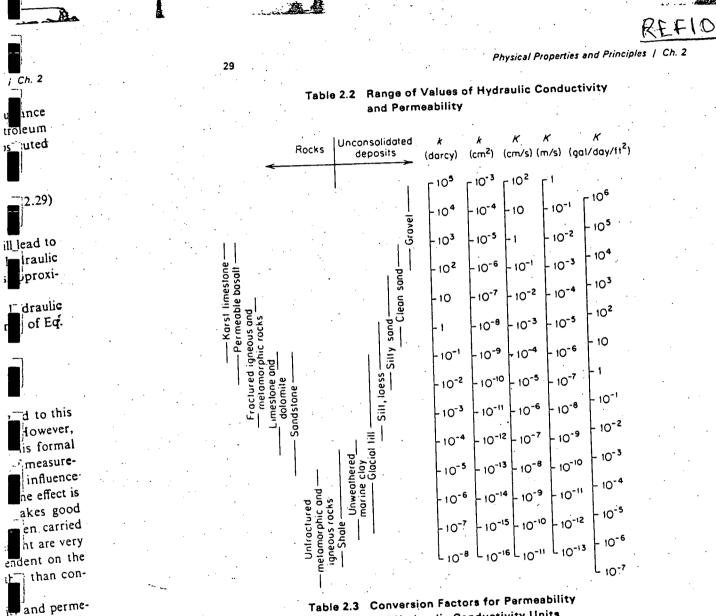


Table 2.3 Conversion Factors for Permeability and Hydraulic Conductivity Units

		Permeability, k*		Hydraulic conductivity, K			
•	cm²	ft²	darcy	m/s	ft/s	gal/day/ft²	
cm ² ft ² darcy m/s ft/s gal/day/ft ²	1 9.29 × 10 ² 9.87 × 10 ⁻⁹ 1.02 × 10 ⁻³ 3.11 × 10 ⁻⁴ 5.42 × 10 ⁻¹⁰	1.08×10^{-3} 1 1.06×10^{-11} 1.10×10^{-6} 3.35×10^{-7} 5.83×10^{-13}	1.01×10^{8} 9.42×10^{10} 1 1.04×10^{5} 3.15×10^{4} 5.49×10^{-2}	9.80×10^{2} 9.11×10^{3} 9.66×10^{-6} 1 3.05×10^{-1} 4.72×10^{-7}	3.22×10^{3} 2.99×10^{6} 3.17×10^{-5} 3.28 1 1.74×10^{-6}	$ \begin{array}{r} 1.85 &\approx 10^9 \\ 1.71 &\approx 10^{12} \\ 1.82 &\approx 10^{12} \\ 2.12 &\sim 10^6 \\ 5.74 &\approx 10^5 \\ 1 \end{array} $	

*To obtain k in ft², multiply k in cm² by 1.08 × 10⁻³.

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ginal materials. review. The conductivity ers that take on implies that very useful. lue probably has

ommon units e converted to tr-pn from ft2 to



PROFESSIONAL SERVICES CROAN C

REF 1!

URS COMPANY, INC.

May 1, 1986

CONSULTING ENGINEERS .

570 DELAWARE AVENUE BUFFALO, NEW YORK 14202

NEW YORK MONTVALE, NJ BUFFALO ATLANTA TAMPA HATO REY, PR WASHINGTON, DC BOSTON CLEVELAND DENVER DALLAS SEATTLE SAN FRANCISCO SAN MATEO CA TEL: (716) 883-5525

Mr. Robert Gaddis Town of Akron Superintendent 21 Main Street Akron, New York 14001

Dear Mr. Gaddis:

This is to confirm our telephone conversation of April 2, 1986 wherein you provided the following information regarding the Town of Newstead water districts:

- The Town of Newstead has four water districts outside the Village 0 of Akron.
- The four districts are as follows: 0
 - 1) Crittenden Road to Main Street - east to county line and west on Main Street about 1/2 mile.
 - 2) West from Village of Akron on Clarence Center Road to Cummings and about 1/4 mile south on Cummings.
 - 3) From Village line to Cedar and north on Cedar about 1.5 mile.
 - 4) From Village line on Bloomingdale to county line.

We would appreciate if you would kindly review this information and after making any corrections necessary, return a signed copy to us to indicate your concurrence.

Sincerely,

URS COMPANY, INC.

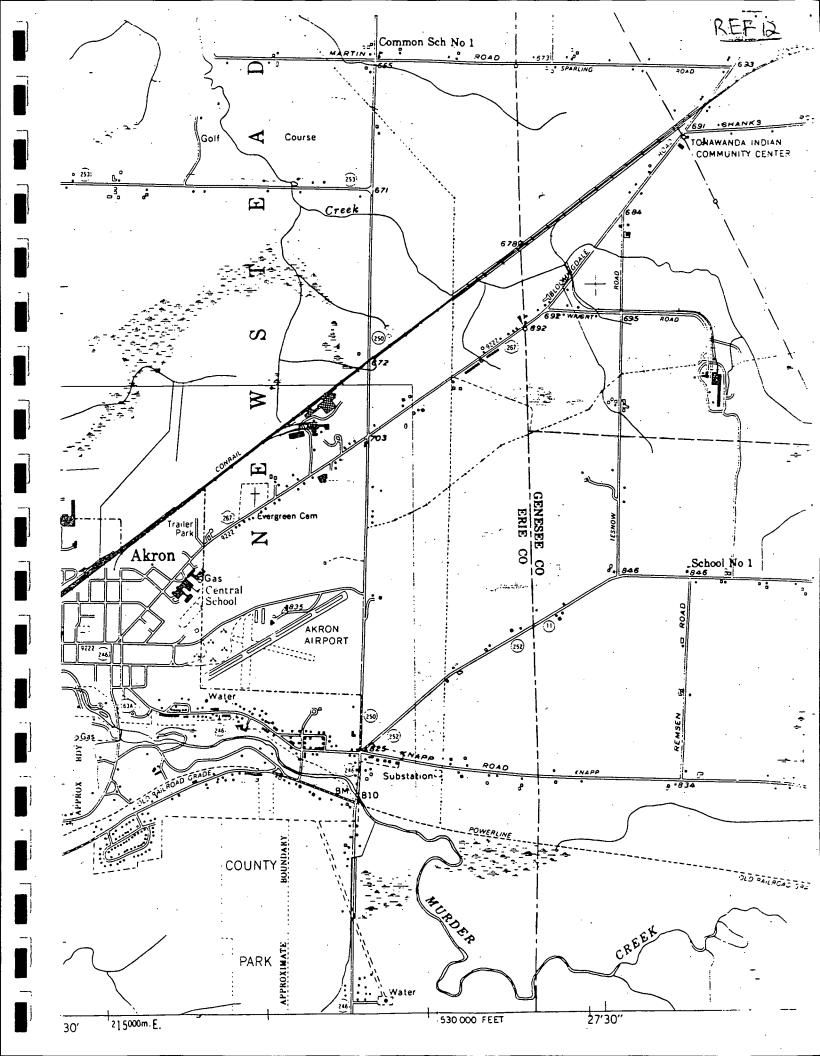
Craig W. Pawlewshi

Craig W. Pawlewski Project Engineer

cc: V. Singh

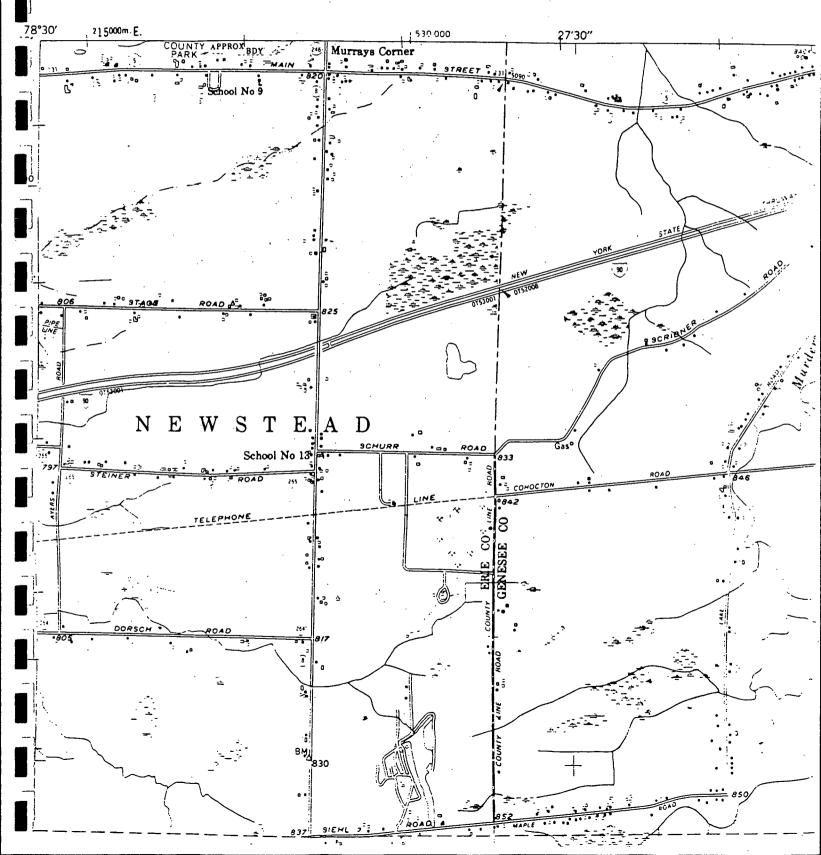
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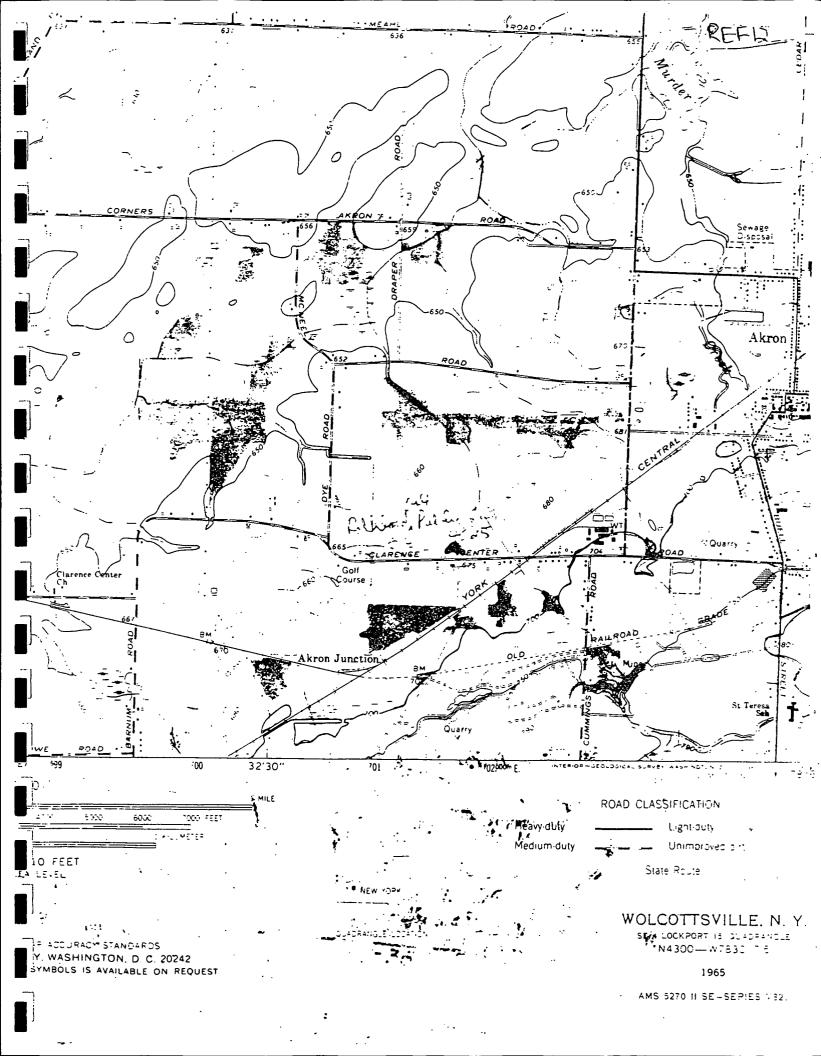
I agree with the information as it is provided.



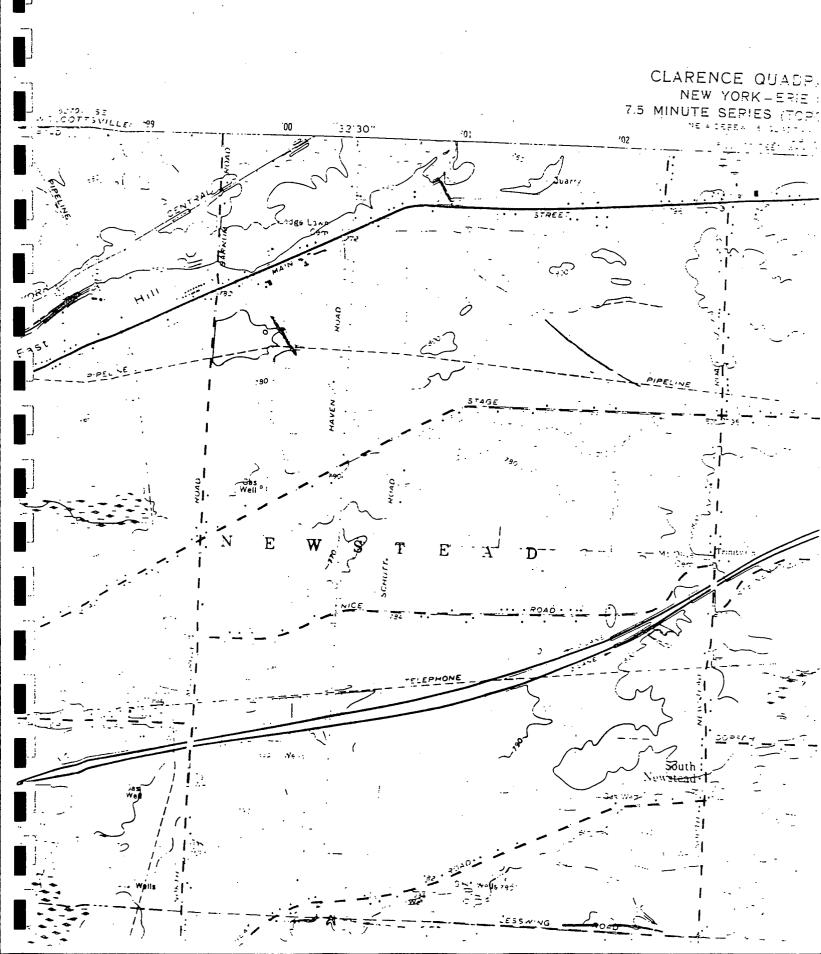
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NEW YORK STATE DEPARTMENT OF TRANSPORTATION





REFIZ



UNITED STATES DEPARTMENT OF AGRICULTURE

SOIL CONSERVATION SERVICE

-21 South Grove Street, East Aurora, N.Y. 14052

REFIZ

January 28, 1986

Craig Pawlewski URS Company Inc. 625 Delaware Avenue Buffalo, New York 14202

Dear Craig,

Enclosed are soil maps and descriptions for the Bernard Cope, Old Bricky and North Collins landfill site in Erie County. I have included the information requested in your letter of January 16, 1986, on the maps where possible. Regarding the irrigation water supplies, I do not believe there are any in the vicinity of any of the sites.

I have drawn a one and two mile radius circle on each map. The agricultural land is outlined in yellow and the prime soil units can be determined from the soil descriptions. The agricultural lands were determined on 1978 photographs that have been field checked.

The residential areas are outlined in red on the maps. I believe the only park involved is Akron Falls County Park adjacent to the Cope site. However, Alpine Recreation Area, a private facility is located just south of Route 240 across from the old Bricky and site.

I hope this information is adequate for your purposes.

Sincerely,

Douglas J. Dettenrieder District Conservationist



THE FOLLOWING IMAGES ARE THE BEST COPIES AVAILABLE

URS Engineers - Charg Pawlewski Buffalo, New York

January 21, 1986

SOIL DESCRIPTIONS

02 Niagara silt loam, fan.

leep, nearly level, somewhat poorly drained, high lime, suit loam soul formed in suity lake sediments of alluvial fars. The available vater capacity is high. Permeability s modefately slow in the subsoil. 100 III-W K=.49 online

2 Hamlin silt loam.

Deep, hearly level, well drained, medium lime, silt loam soil formed in silty stream deposits. The available water capacity is high. Permeability is moderate. LCU I K=.49 prime

4 Middlebury silt loam.

Deep, nearly level, moderately well drained to somewhat poorly drained, medium lime, silt loam soil formed in stream deposits. The available water capacity is high. Permeability is moderate LCU II-1 K=.49 . prime

5 Teel silt loam.

5A

- 7

Farnham shaly silt loam,fan, 8 to 3 percent slopes. Deet, teat's level, moderately well drained, low lime, stalk sitt loat so 1 formed in shaly water-sonted materials on fame. The available (water capacity is low. Permeability a moderate's rapid.

pe de

_0U II-W K=.17

Wayland silt loam. Deep, nearly level, poorly t

Deep, nearly level, poorly to very poorly drained, medice line. silt loam soil formed in silty stream deposits. The available water capacity is high. Permeability is moderate to moderate side in the surface soil and generally slow in underlying issers. 121 - No. No. K & T values assigned. ... important

Fluvaquents and Udifluvents.

Modenately deep to deep, hearly level, well dealled to poort. dnained, high to low lime, variable solls formed in recent stream. deposits. The available water capacity and permeability is variable. LCU V-W . None

10D

9

Chenango gravelly loam, 15-25 percent slopes.

Deep, moderately steep, well drained, low lime, gravely issue soil formed mainly in gravel and sand. The averlapie water capacity is now, Permeability is moderate to rapid ج - + -. surface soil and subsoil and generally rapid on very replot in the substratim. LCU IV-E K=.24

11A Varysburg gravelly loam, 8 to 3 percent slopes.

Deep,nearly level, well drained and moderately well drained. medium lime, gravelly loam soil formed in gravelly material and underlying lake sediments. The available water capacity is generally low. Permeability is rapid in the gravelly part and generally slow on very slow in the underlying lake sediments. LCU II-W K=.24 prime

11B Varysburg gravelly loam, 3 to 8 percent slopes.

Deep, gently sloping, well drained and moderately well drained, medium lime, gravelly loam soil formed in gravelly material and underlying lake sediments. The available water capacity is . generally low. Permeability is rapid in the gravelly, part and generally slow on very slow in the underlying lake sediments. LCU II-E K=.24 . prime

11C Varysburg gravelly loam, 8 to 15 percent slopes.

Deep, sloping, well drained and moderately well drained, redium – ÷ , gravelly loam soil formed in gravelly material and underlying lake sediments. The available water capacity is generally low. Permeability is hapid in the gravelly part a.: ₫ generally slow on very slow in the underlying lake sediments. LCU III-E ×=.24 important.

15B Blasdell shaly silt loam, 3 to 8 percent slopes. Deep, gently sloping, well-drained, low lime, shaly self that soil formed in water sorted material dominated by fragments ÷- nlocal shale bedrock. The available water capacity ranges f n 27. low to moderate. Permeability is generally moderately rapid. LIU II-E K = .17prime

15C,81c Blasdell shaly silt loam, 8 to 15 percent slopes. Deep, sloping, well drained, low lime, shaly silt loam to l formed in water sonted material dominated by fragments from "ice" shale bednock. The available water capacity ranges from 'by modenate. Permeability is generally modenately napid. 111-E K=.17 important

150,810 Blasdell shaly silt loam, 15 to 25 percent slopes. Deep, moderately steep, well drained. Yow lime, shaly solt ican soil formed in water sorted material dominated by fragments. From , local shale bedrock. The available water capacity hanges from low to moderate. Permeability is generally moderately rap d. LCU IV-E K=.17

16B Phelps gravelly loam, 3 to 8 percent slopes. Deep, gently sloping, moderately well drained, high live. gravelly loam soil formed in loamy material overlying sand and gnavel. The available water capacity is moderate. Perteability is moderate in the loamy material land generally rapid in the underlying sand and gravel. LCU II-E K=.24 phime

- 17 Red Hook silt loam. Deep, hearly level, somewhat poorly drained, medium line, sit loam soil formed in gravelly deposits. The available water capacity is generally low. Permeability is moderate. LOU III-W K=.28 important
- 19B Arkport very fine sandy loam, 3 to 8 percent slopes. Deep, gently sloping, well drained, medium lime, sandy soil formed in coarse loamy deposits dominated by fine and very fine sand. The available water capacity is moderate. Permeability is moderately rapid. LCU-IIE K=.17
- 19D Arkport very fine sandy loam, 15 to 25 percent stopes. Seep, moderately steep, well drained, medium lime, sandy see formed in coarse loamy deposits dominated by fine and very fine sand. The available water capacity is moderate. Permeability is moderately rapid. 100 IV-E K=.17
- 19E Arkport very fine sandy loam, 25 to 40 percent slopes. Deep, steep, well drained, medium lime, sandy soil fromed in coarse loamy deposits dominated by fine and very fine sand. The available water capacity is moderate. Permeability is moderate's hapid.

LCU VII- K=.17

21A Rhinebeck gravelly loam, 0 to 3 percent slopes.

Deep, nearly level, somewhat poorly drained, medium to brob it we. gravelly loam soil formed in water sorted deposits and clavey lake sediments. The available water capacity is moderate to high. Permeability is napid in the gnavelly part and slow in the clayey part. LCU III-W K=.49

prime

23 Swormville silt loam.

Deep,nearly level, somewhat poorly drained, medium 'ime, loam soil formed in slity lake on stream sediments. The available water capacity is moderate to high. Renmeability is moderately slow to slow in the subsoil and moderately rapid in the substratum. LCU III-W K=.49 onime

.24

Lamson very fine sandy loam.

Deep, nearly level, poorly to very poorly drained, high lime. sandy soil formed in deposits dominated by fine and very 4 -a sand. The available water capacity is moderate to sign. Permeability is gederally moderately rapid. LCU IV-W K=.32 Emportant

25 Lamson mucky very fine sandy loam.

Deep, nearly 'evel, very poorly drained, high lime, sandy soul formed in deposits dominated by fine and very fine sand. The available water capacity is high. Permeability is generally moderate'y rapid. LCU VI-W K=.32 important.

27A Elnora loamy fine sand, 0 to 3 percent slopes. Deep, nearly level, moderately well drained, low lime, sandy soil formed in water-laid or windblown deposits dominated by fine sand. The available water capacity is low. Permeability is generally moderately rapid. LCU II-W K=.24 important

27B Elnora loamy fine sand, 3 to 8 percent slopes. Deep, gently sloping, moderately well drained, low lime, sand, soil formed in water-laid or windblown deposits dominated by fine sand. The available water capacity is low. Permeability is generally moderately rapid. LCU II-E ≤=.24 important.

28A Farnham shaly silt loam, 0 to 3 percent slopes. Deep, searly level, moderately well drained, low lime, shall solt loam soil formed in water-sorted material. The available water capacity is low. Permeability is moderately rapid. LCU II-W K=.17 prime

Farnham shaly silt loam, 3 to 8 percent slopes. 28B Deep, gently sloping, moderately well drained, low line, shaly silt loam soil formed in shaly water-sorted material. The available water capacity is low. Permeability is moderately hapid. LCU II-E K=.17 onime

Canandaigua silt loam.

Deep, nearly level, pochy drained and very poorly drained. High Jime, silt loam soul formed in sulty lake sediments. - - <u>-</u> available water capacity is high. Permeablicity a moderate. SÍ OW 100 (V-W) K=.49

important.

388 Collamer silt loam, 3 to 8 percent slopes.

Deep, gently sloping, moderately well drained, high lime, since sort formed mathing in sitt and very fine sand take sedtrette. The available water capacity is high. Permeability is moderately el cour 109 IIE K=,49 onime

42

32

Canandaigua mucky silt loam.

Deet, nearly level, poorly drained, high lime, mucky slit loam sell formed in suity lake sediments. The available mater capacity is high. Permeability is moderately slow. 100 VI-W K=,40 (mportant

44A Galen very fine sandy loam, 0 to 3 percent slopes. Deep, nearly level, moderately well drained, medium lime, sandy sell formed mainly in deposits of fine and very fine sand. The abselable water capacity is moderate. Permeability is moderate. 100 II-W K=.17 orime

44B Galen very fine sandy loam, 3 to 8 percent slopes. Deep, gently sloping, moderately well drained, medium 'me, santsoil formed mainly in deposite of fine and very fine sand. - - suallable water capacity is moderate. Permeability is moderate. 200 II-E K=.17 prime.

45A Niagara silt loam, 8 % 3 percent slopes. Deep, nearly level, somewhat poorly drained, high lime, silt lost soil formed in silty lake sediments. The available water capacity is nigh. Permeability is moderately slow. 111-W K=.49 PRIME

50

Cheektowaga very fine sandy loam.

Seep, searly level, poorly and very poorly, drained, sighting, very fine sandy loam soil formed in sandy surface deposits and underlaid by clayey lake sediments at depths of 20 to 40 rores. The available water capacity is generally low. Permeab little is slow on very slow in underlying clayey lake sediments. LEU IV-W K=.32 important

55B Galen fine sandy loam, till substratum, 3-8% slopes. Deep, gently sloping, well drained and moderately well drawred. medium lime, sandy soil formed mainly in deposits of fine and /**e***/ fice sand and underlaid by glacial till. The available water capacity is moderate. Permeability is moderate to 23

habes on more. 100 77-5 - 8=,17

prime

56A Volusia silt loam, 0 to 3 percent slopes. Deep, nearly level, somewhat poorly drained, low lime, silt loam soil formed in fine loamy glacial till. It has a very firm fragipan at a depth of 15 to 50 inches. The available water capacity is moderate. Permeability is generally moderate above the fragipan and slow to very slow in the fragipan. LCU III-W K=.37 important

56B Volusia silt loam, 3'to 8 percent slopes. Deep, gently sloping, somewhat poorly drained, low lime, silt loam soil formed in fine loamy glacial till. It has a very 4 --fragipan at a depth of 15 to 50 inches. The available water capacity is moderate. Permeability is generally moderate above the pan, and slow to very slow in the fragipan. LCU III-W K=.37 important

- 578 Mardin silt loam, 3 to 8 percent slopes. Deep, gently sloping, moderately well drained and well drained, low lime, silt loam soil formed in coarse loamy glacial till. It has a very firm fragipan at a depth of 16 to 50 inches. The available water capacity is moderate. Permeability is moderate above the fragipan and slow or very slow in the fragipan and substratum. LCU III-E K=.24 important
- 588 Cazenovia silt loam, 3 to 8 percent slopes. Deep, gently sloping, well drained to moderately well drained, high lime, silt loam soil formed in fine loamy glacial till and reworked lake sediments. The available water capacity is moderate to high. Permeability is generally moderately slow in the subsoil, and slow in the substratum. LCU IIE K=.37
- 58C Cazenovia silt loam, 8 to 15 percent slopes. Deep, sloping, well drained to moderately well drained, high lime, silt loam soil formed in fine loamy glacial till and reworked lake sediments. The available water capacity is moderate to high. Permeability is generally moderately slow it the subsoil, and slow in the substratum. LCU III-E K=.37 important
- 59A Ovid silt loam, 0 to 3 percent slopes. Deep, nearly level, somewhat poorly drained, high lime, silt loam soil formed in fine loamy glacial till and reworked lake sediments. The available water capacity is moderate to high. Permeability is slow. LCU III-W K=.37 prime

60A Honeoye loam, 0 to 3 percent slopes. Deep, nearly level, well drained, high lime soil formed in loamy glacial till. The available water capacity is moderate to Sigh. Permeability is moderate in the surface soil and subsoil, but generally slow in the underlying substratum. LCU I K=.24 onime 60B Honeoye loam, 3 to 8 percent slopes. Deep, gently sloping, well drained, high lime soil formed is loamy glacial till. The available water capacity is moderate to high. Permeability is moderate in the surface soil and subscribut generally slow in the substratum. LCU II-E K=.24 prime

62A Lima loam, 0 to 3 percent slopes. Caep, nearly level, moderately well drained, high lime, soil formed in loamy glacial till. The available water capacity at moderate to high. Permeability is moderate in the surface soil and subsoil and generally slow in the substratum. LCU [1-W] K=.24 online

628 Lima loam, 3 to 3 percent slopes. Seed, gettly sloping, moderately well drained, high 'ime so formed in loamy glacia' till. The available water capacity is incidenate to high. Permeability is moderate in the surface scill and subsoil and generally slow in the substratum. LCU II-E K=.24 prime

64 Lyons silt loam.

Deep, pearly level, poorly drained and very poorly drained, high lime silt loam soil formed in fine loamy glacial till. The available water capacity is moderate to high. Permeability is moderate in the surface soil, moderately slow in the subsoil and slow or very slow in the substratum. LCU IV-W K=.32 important

65D Mardin channery silt loam, 15 to 25 percent slopes. Deep, moderately steep, moderately well drained and well drained. low lime, channery silt loam soil formed in coarse loamly glacial till. It has a very firm fragipar at a depth of 16 to 50 incres. The available water capacity is moderate. Permeability is moderate above the fragipan and slow or very slow in the fragipan and substratum. LCU IV-5 K=.24

668 Valois gravelly silt loam, 3 to 8 percent slopes. Deep, gently sloping, well drained, low lime, gravelly sit lost soil formed in coarse loamy glacial till. The available water capacity is low to moderate. Permeability is moderate to rac d LCU IITE K#.24 prime

66E Mardin-Valois complex, 25 to 40 percent slopes. Deep, steep, well drained, low lime, soils formed in coarse light glatial till. The Mardin soil has a very firm fragipant at a depth of 16 to 50 inches. The available water capacity a generally moderate. Permeability ranges from moderate to slow. LCU VI-E K=.37

678 Langford channery silt loam, 3 to 8 percent slopes. Deep, gently sloping, moderately well' drained and well ors reputed reduce lime, chappeny sile loam soil formed in coarse loan glad all till. The available water capacity is moderate. Permeability is moderate above the fragipan and slow on very site is and below the fragipan. LCU II-E K=.24 important

- 67C Langford channery silt loam, 8 to 15 sendent slopes. Deep, sloping, moderately well drained and well drained, return lime, channery silt loar soil formed in coarse loamy glat a till. The available water capacity is moderate. Permeability a moderate above the fragizan and slow on very slow in and bejow the fragipan. LCU III-5 K=.24
- 67D Langford channery silt loam, 15 to 25 percent slopes. Deep, moderately steep, moderately well drained and well drained, medium lime, channery silt loam soil formed in coarse loan placial till. The available water capacity is moderate. Permeability is moderate above the fragipan and slow or lets sic in and below the fragipan. LCU IV-5 K=.24
- 68A Erie channery silt loam, 8 to 3 percent slopes. Deep, nearly level, somewhat coorly drained, medium lime. channery silt loam formed in coarse loamy glacial till. It has a very firm fragipan at a depth of 14 inches to 40 inches. The available water capacity is moderate. Permeability is moderate above the fragipan and very slow in the fragipan. LCU III-W K=.37
- 688 Erie channery silt loam, 3 to 8 percent slopes. Deep, gently sloping, somewhat poorly drained, medium lime, channery silt loam soil formed in coarse loamy glacial till. It has a very firm fragipan at a depth of 14 inches to 40 incres. The available water capacity is moderate. Permeability is moderate above the fragipan and very slow in the fragipan. LCU III-W M=.37
- 708 Mardin channery silt loam, 3 to 3 percent slopes. Deep, gently sloping, moderately well drained and well cremet. low lime, channery silt loam soil formed in coarse loamy glat el till. It has a very firm fragipan at a depth of 16 to 50 ittree. The available water capacity is moderate. Permeability a moderate above the fragipan and slow or very slow in the fragipan and substratum. LOU II-E Y=.24 important
- 72A Darien silt loam, 0 to 3 percent slopes. Deep, hearly level, somewhat poorly drained, high lime, silt list soll formed in fine loamy glacial till. The available star labacity sincdenate to high. Permeability is generally sit LCU III-W K=.37 prime
- 728 Darien silt loam, 3 to 8 percent slopes. Deep, gently sloping, somewhat poorly drained, bligh 1 me. s it loam soil formed in fine loamy glacial till. The available grad capacity is moderate to block. Parametric to the second

73A Derb silt loam, 8 to 3 percent slopes. Deep, nearly level, somewhat poorly drained, 'ow lime, silt 'carsoil formed in loamy glacial till. The available water capacity is moderate. Permeability 's moderate or moderately glow in the subsoil and slow beneath. LCU III-W -K=.32

738 Derb silt loam, 3 to 8 percent slopes. Deep, gently sloping, somewhat poorly drained, iow lime, sit loam soil formed in loamy glacial till. The available water capacity is moderate. Permeability is moderate or moderately slow in the subsoil and slow beneath. LCU TIII-W K=.32 important

73C Derb silt loam, 8 to 15 percent slopes. Deep, sloping, somewhat poorly drained, low lime, silt loam soil formed in loamy glacial till. The available water capacity is moderate. Permeability is moderate or moderately slow in the subsoil and slow beneath. LCU III-E K=.32

74A Marilla shaly silt loam, 0 to 3 percent slopes. Deep, nearly level, moderately well drained, low lime, shaly silt loam soil formed in very shaly glacial till. It has a very firm fragipan at a depth of 18 to 55 inches. The available water capacity is moderate. Permeability is moderate above the fragipan and slow or very slow in the fragipan and substratum. LCU II-W K=.24 important

748 Marilla shaly silt loam, 3 to 8 percent slopes. Deep, gently sloping, moderately well drained, low lime, shalv silt loam soil formed in very shaly glacial till. It has a very firm fragipan at a depth of 18 to 55 inches. The available water capacity is moderate. Permeability is moderate above the fragipan and slow to very slow in the fragipan and substratum. 200 II-E K=.24 important

74C Marilla shaly silt loam, 8 to 15 percent slopes. Deep, sloping, moderately well drained, low lime, shaly silt loam soil formed in very shaly glacial till. It has a nery firm fragipan at a depth of 18 to 55 inches. The available vater capacity is moderate. Permeability is moderate above fragipan and slow or very slow in the fragipan and substratum. LCU III-E K=.24 important

75A

Chippewa silt loam. Deep, nearly level, poorly drained, medium lime, silt loam so formed in fine loamy glacial till. It has a very firm fragment at a depth of 13 to 36 inches. The available water capacity is moderate. Permeability is moderate above the fragipan and verslow in the fragipan and below. LCU IV-W K=.32

76A Ilion silt loam.

Deep, nearly level, poorly drained. Figh lime, silt loam soul formed in fine loamly glacial till. The available water capacity is moderate to high. Permeability is generally slow on very slow. LCU IV-W K=.37 3mportant

77

64 Lyons silt loam.

Deep, nearly level, poorly drained and very poorly drained, high "The silt 'oam soll formed in fine 'oamy glacie' till. available water capacity is moderate to high. Permeability moderate in the surface soil, moderately slow in the subscribers slow on very slow in the substratum. LCU 19-0 8=.32 important.

80 Canadice silt loam, shaly till substratum.

Seep, nearly level, poorly drained, high lime, silt loam soil formed in clayey lake sediments overlying shaly glacial till. The available water capacity is high. Permeability is moderate to' slow in the surface layers and generally very slow in lower lavers. LCU IV-W important

K=.49

82A Hornell silt loam, 0 to 3 percent slopes. Deep, nearly level, somewhat poorly drained, low lime, silt loam soil formed in clayey glacial till and underlain by state bednock. The available water capacity is moderate. Permeably $t_{\mathcal{A}}$ is slow on very slow. 100 III-W K=.37 important

82B Hornell silt loam, 3 to 8 percent slopes. Seep, gently sloping, somewhat poorly drained, low lime, suit 'cam soil formed in clayey glacial till and underlaid by shale bedrock. The available water capacity is moderate. Permeasility E slow on very slow. 160 III-W K=.37 Important

82C Hornell'silt loam, 8 to 15 percent slopes. Deep, sloping, somewhat poorly drained, low time, sitt than soit formed in clayey glacial till and underlaid by shale bechood. The available water capacity is moderate. Permeability is size on very slow. LOU IV-E K=.37 important

82D Schuyler silt loam, 15 to 25 percent slopes. Deep,modenately steep, modenately well drained, its lime, site loam'so' formed in fine loamy glacial till. The available water capacity is moderate. Permeability is moderate to a depth of about 2 feet, and moderately slow or slow below this depth. 109 VI-S V=137

82E Schuyler silt loam, 25 to 40 percent slopes. Deep, steep, moderately we'l drained, low lime, silt loam solf formed in fine loamy glacial till. The available water capacity is moderate. Permeability is moderate to a depth of about 2 feet, and moderately slow or slow below this depth. 100 VII-E K=.37

868 Manlius shaly silt loam, 3 to 8 percent slopes. Moderately deep, gently sloping, excessively well drained to moderately well drained, low lime, shaly silt loam soil formed in very shaly glacial till 20 to 40 inches thick over shale bedrock. The available water capacity is low to moderate. Permeability is generally moderately rapid above the bedrock. LCU II-E K=.20 important

86C Manlius shaly silt loam8 to 15 percent slopes. Moderately deep, sloping, excessively well drained to moderately well drained, low lime, shaly silt loam soil formed in very shaly glacial till 20 to 40 inches thick over shale bedrock. The available water capacity is low to moderate. Permeability is generally moderately rapid above the bedrock. LCU III-E K=.20 important

86D Manlius shaly silt loam, 15 to 25 percent slopes. Moderately deep, moderately steep, excessively well drained to moderately well drained, low lime, shaly silt loam soil formed in very shaly glacial till 20 to 40inches thick over shale bedrocy. The available water capacity is low. Permeability is generally moderately rapid above the bedrock. LCU IV-E K=.20

86E Manlius shaly silt loam, 25 to 35 percent slopes. Moderately deep, steep, excessively well drained to moderately well drained, low lime, shaly silt loam soil formed in very shalk glacial till 20 to 40 inches thick over shale bedrock. The availabale water capacity is low. Permeability is generally moderately rapid above the bedrock. LCU VI-E K=.20

86F Manlius shaly silt loam, 35 to 50 percent slopes. Moderately deep, very steep, excessively well drained to moderately well drained, low lime, shaly silt loam soil formed in very shaly glacial till 20 to 40 inches thick over shale bedrock. The available water capacity is low. Permeability is generally moderately rapid above the rock. ECU VII-E K=.20

87A Orpark silty clay loam, 0 to 3 percent slopes. Moderately deep, nearly level, somewhat poorly drained, 'cy i te, silt 'bam soil formed in fine loamy glacial till that is 20 to 40 inches thick over shale bedrock. The available water capacity is moderate. Permeability is moderately slow. LCU III-W K=.24 important

- 878 Orpark silty clay loam,3 to 18 percent slopes. Moderately deep, gently sloping, somewhat poorly drained, low lime, silt loam soil formed in fine loamy glacial till that is 20 to 40 inches thick over shale bedrock. The available water capacity is moderate. Permeability is moderately slow. LCU III-W K=.24 important
- 87C Orpark silty clay loam, 8 to 15 percent slopes. Moderately deep, sloping, somewhat poorly drained, low lime, silt loam soil formed in fine loamy glacial till that is 28 to 48 inches thick over shale bedrock. The available water capacity a moderate. Permeability is moderately slow. LCU III-E K=.24 important
- 89A Patchin silt loam, 0 to 3 percent slope. Moderately deep, nearly level, poorly drained, low lime, silt loam soil formed in fine loamy glacial till that is 20 to 40 inches thick over shale bedrock. The available water capacity is moderate. Permeability is moderately slow LCU IV-W K=.37 important
- 90A Wassaic silt loam, 0 to 3 percent slopes. Moderately deep, nearly level, well drained and moderately well drained, medium to high lime, silt loam soil formed in loamy glacial till that is 20 to 40inches thick over limestone bedroock. The available water capacity is low to moderate. Permeability is moderate above the rock. LCU II-S K=.24 prime
- 91A Benson very cherty loam, 0 to 3 percent slopes. Shallow, nearly level, somewhat excessively or excessively drained, high lime, very cherty loam soil formed in thin glacial material that is 10 to 20 inches thick over limestone bedrock. The available water capacity is very low. Permeability is moderate. LCU IV-S K=.20 important

918 Benson very cherty loam, 3 to 8 percent slopes. Shallow, gently sloping, somewhat excessively or excessively drained, high lime, very cherty loam soil formed in thin glacial material, that is 10 to 20 inches thick over limestone bedrock. The available water capacity is very low. Permeability a moderate. LCU IV-S K=.20 important

91C Benson very cherty loam, 8 to 15 percent slopes. Shallow, sloping, somewhat excessively on excessively draibed, high lime, very cherty loam soil formed in thin glacial material, that is 10 to 20 inches thick over limestone bedrock. The available water capacity is very low. Permeability is moderate, LCU IV-E R=.20

91E Wassaic-Rock outcrop complex, 25 to 40 percent slopes.

Moderately deep to very shallow with 10 percent outcropping, steep, well drained to moderately well drained, loamy to story soil complex formed in glacial till that is 0 to 40 inches thick over limestone bedrock. The available water capacity and permeability are variable, depending upon the depth to rock. LCU VII-E K-.24

92B

Benson-Rock outcrop complex, 3 to 8 percent slopes.

Shallow, gently sloping, somewhat excessively drained, high 'the, very cherty loam soil formed in thin glacial material that is 10 to 20 inches thick over limestone bedrock. Includes 20 percent rock outcrop. The available water capacity is very 'ow. Permeability is generally moderate above the rock. LCU VIII-S K=.20

93 Newstead loam.

Moderately deep, nearly level, somewhat poorly drained, high lime, gravelly loam soil formed in coarse loamy glacial till that is 20 to 40 inches thick over limestone bedrock. The available water capacity is moderate to low. Permeability is moderate above the rock.

LCU III-E K=.28 important

94A

Farmington cherty loam, 0to 3 percent slopes.

Shallow, nearly level, well drained, high lime, cherty loam soil formed in glacial till that is 10 to 20 inches thick over limestone bedrock. The available water capacity is low. Permeability is moderate. LCU III-S K=.28 important

101 Palms muck.

Deep, nearly level, very poorly drained, medium lime, muck soil formed in organic deposits and underlaid by loamy mineral soil material at depths of 16 inches or more. The available water capacity is generally high. Permeability is moderately rapid in the organic layers and moderate in the loamy material. LCU III-W No K & T values assigned.

104 Scio silt loam.

Deep, nearly level, moderately well drained, low lime, silt loam soil formed in wind or water deposited silt and very fine sand. The available water capacity is moderate to high. Permeability is generally moderate.

LCU II-W K=.49

prime

112 Rock outcrop.

A miscellaneous area that consists of very shallow soils and bare nock associated with gorges and bedrock escarpments. The available water capacity is generally very low. Permeability is generally non-existant except for cracks in the rock and in soil material above the rock. LCU VIII-S

- 1158 Alton Finely Gravelly Loam, 3-8 percent slopes. Deep, gently sloping, well drained, medium lime gravelly loam soil formed in beach and delta deposits. The available water capacity is low to moderate. Permeability is rapid in the subsoil and rapid to very rapid in the substratum. LCU-IIE K=.20 Prime
- 127A Claverack loamy fine sand, 0 to 3 percent slopes. Deep, nearly level, moderately well drained, medium lime, sandwissed in formed mainly in fine sand and is underlaid by clayer lave sediments. The available water capacity is low to moderate. Permeability is rapid in the sandy part and very slow in the underlying clay and silt.
- 1278 Claverack loamy fine sand, 3 to 8 percent slopes. Deep, gently sloping, moderately well drained, medium lime, sand, soil formed mainly in fine sand and is underlaid by clayey lake sediments. The available water capacity is low to moderate. Permeability is rapid in the sandy part and very slow in the underlying clay and silt. LCU II-W K=.17 important
- 133A Churchville silt loam, 0 to 3 percent slopes. Deep, nearly level, somewhat poorly drained, high lime, silt loam soil formed in clayley lake sediments and underlaid by loamy glacial till. The available water capacity is moderate to high. Permeability is slow to very slow. LCU III-W K=.49 important

145 48A Raynham silt loam, 0 to 3 percent slopes. Deep, nearly level, somewhat poorly drained, high lime, silt loam soil formed in silty lake sediments. The available water capacity is moderate to high. Permeability is generally moderate in the surface soil, moderately slow in the subsoil and slow in the substanatum. LCU III-W K=.49

159 Kendaia silt loam. Deep, nearly level, somewhat poorly drained, high lime, silt loar soil formed in loamly glacial till. The available water raparity is moderate to high. Permeability is moderately slow in the subsoil and generally slow in underlying layers. LCU III-W K=.32 prime

168A Volulsia channery silt loam, 0 to 3 percent slopes. Deep, nearly level, somewhat poorly drained, low lite, channer, silt loam soil formed in fine loamy glacial till. It has a very firm fragipan at a depth of 15 to 50 inches. The available water capacity is moderate to low. Permeability is generally moderate above the pan, and slow to very slow in the frag:pan. LCU III-W K=.24 important

1688 Volusia chananery silt loam,3 to 8 percent slopes.

Deep, gently sloping, somewhat poorly drained, low lime, chargery silt loam soil formed in fine loamy glacial till. It has a very firm fragipan at a depth of 15 inches to 50 inclhes. The available water capacity is moderate to low. Permeability is generally moderate above the pan, and slow to very slow in the fragipan.

LCU III-W K=.24 important

2158 Chenango gravelly loam, 3 to 8 percent slopes. Deep, gently sloping, well drained. low lime, gravelly loam soli formed mainly in gravel and sand. The available water cated to is low. Permeability is moderate to rapid in the surface soli and subsoll and generally rapid on very rapid in the underlying substratum. LCU II-E K=.24 prime

216B Castile gravelly loam, 3 to 8 percent slopes.

Deep, gently sloping, moderately well drained, low lime, gravely loam soil formed mainly in gravel and sand deposits. The available water capacity is low to moderate. Permeability is generally rapid. LCU II-E K=.24 prime

245 Niagara silt loam, till substratum.

Deep, nearly level, somewhat poorly drained, high lime, silt loam soil formed in silty lake sediments and underlaid by glacial torr at depths greater than 40 inches. The available water capacity is high. Permeability is moderately slow in the subsoil and slow or very slow in the substratum. LCU III-W K=.49 prime

Fill.

Udorthents, smoothed.

A miscellaneous area that consists mainly of variable, earthy fill and inorganic waste from human activity that has 'been dumped, spread and smoothed. This fill material is generally placed in areas which were formerly depressions on occupied by set soils. Water capacity and permeability is variable.

Com Urban l'and.

A miscellaneous area where at least 80 percent or slightly more of the surface is covered by asphalt, concrete, buildings, or other imprevious surfaces. The available water capacity is generally non-existant. Permeability is generally limited by the impermeable surfaces

BP Borrow pit, Pits, borrow.

A miscellaneous area that consists of excavcations primar '. in well drained and moderately well drained sorts. The available water capacity and permeability is variable.

GP Pits, gravel

A misce area that consists of excavations of eff. A areas of sand and gravel. The available water capacity is generally low. Permeability is generally rapid.

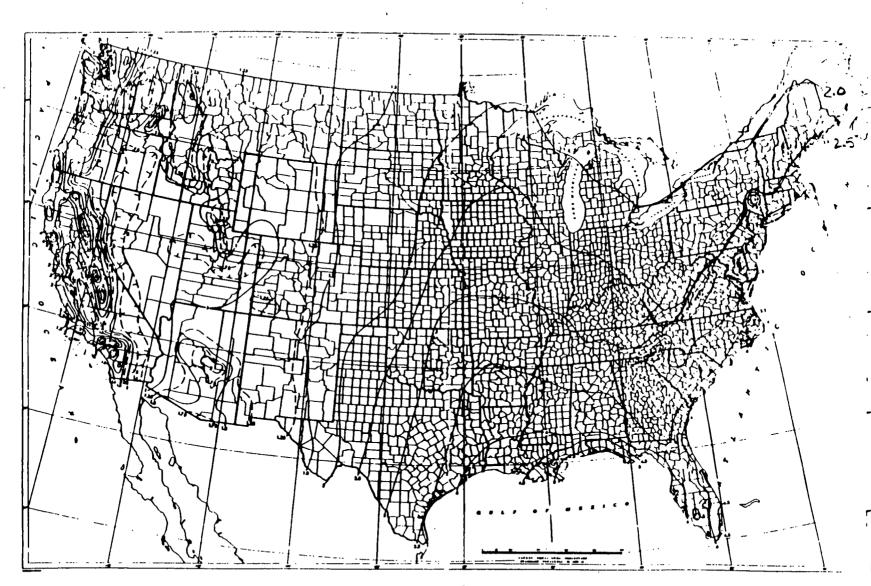


FIGURE 8

REF

f.

1-Year 24-Hour Rainfall (Inches)

Source: Rainfall Frequency Atlas of the United States, Technical Paper No. 40, U.S. Department of Commerce, U.S. Government Printing Office, Washington, D.C., 1963.

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EFIS

URS COMPANY, INC.

CONSULTING ENGINEERS

TEL: (716) 883-5525

570 DELAWARE AVENUE BUFFALO, NEW YORK 14202 NEW YORK MONTVALE. NJ BUFFALO ATLANTA TAMPA HATO REY. PR WASHINGTON. DC BOSTON CLEVELAND DENVER DALLAS SEATTLE SAN FRANCISCO SAN MATEO. CA

April 16, 1986

Mr. James Palmeroy New York State DEC 128 South Street Olean, New York 14760

Dear Mr. Palmeroy:

This is to confirm our telephone conversation of April 15, 1986, wherein you provided the following information concerning fishing in Murder Creek, west of Route 93: prebably

- o Fishing is' limited in Murder Creek because the stream is small.
- Data is limited; however, it is known that northern pike, pan fish and rock bass inhabit this portion of Murder Creek.
- This portion of Murder Creek is probably used as a recreational fishing stream by local residents.

We would appreciate if you would kindly review this information and after making any corrections necessary, return a signed copy to us to indicate your concurrence.

Sincerely,

URS COMPANY, INC.

Croig W. Paulawski

Craig W. Pawlewski Project Engineer

CWP/bc 4/16/86L2

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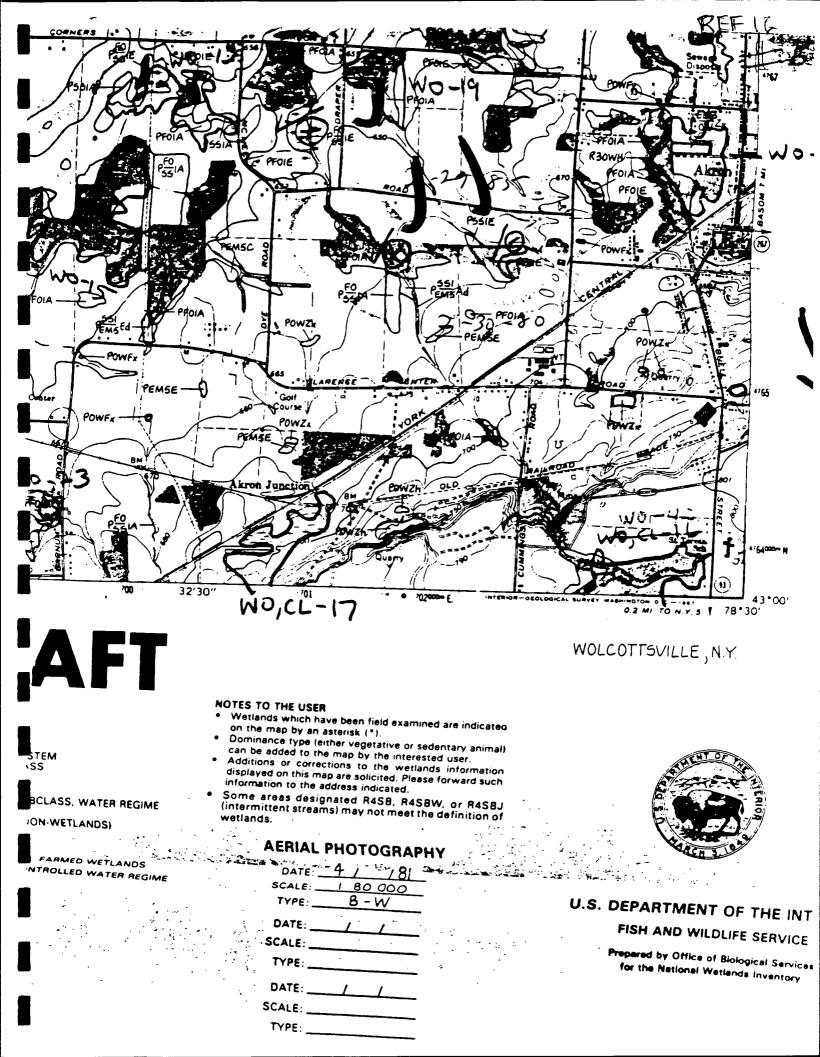
I agree with the information as presented to the best of my knowledge.

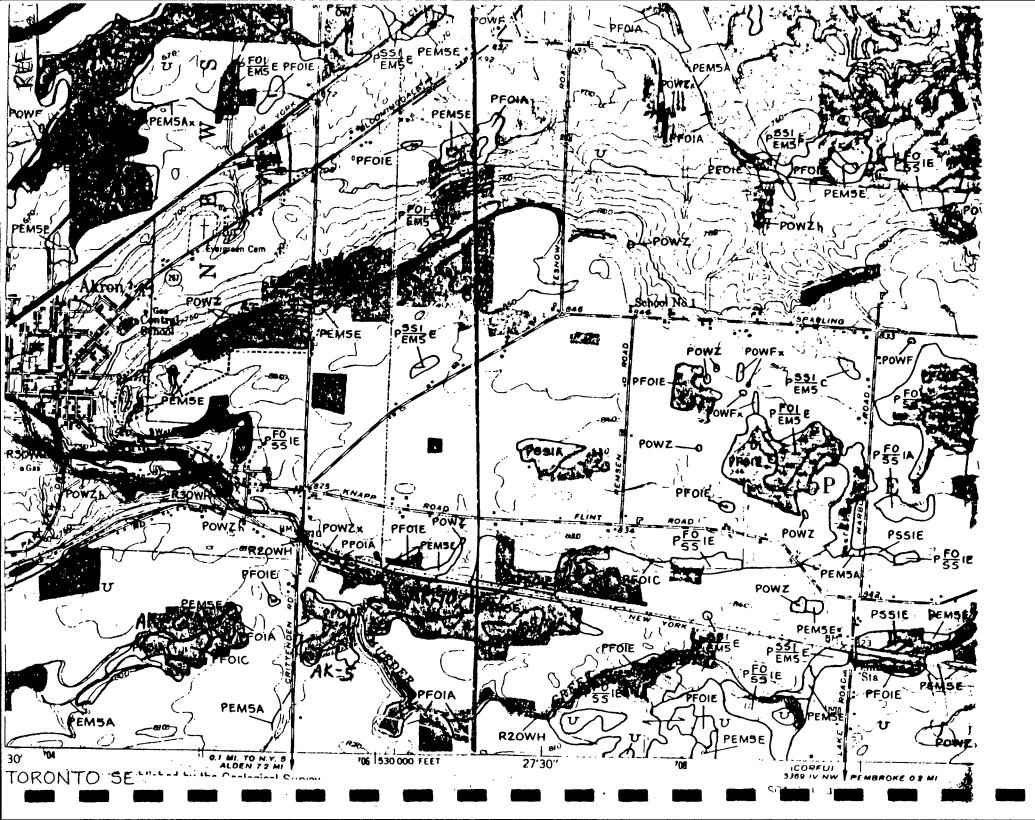
James Palmeroy Pernercy

RECEIVED

APR 1 8 1986

N.Y.S. Dople of Environmental Conservation Region 9 - Olean







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NEW YORK MONTVALE, N.J.

BUFFALO SAN FRANCISCO

DALLAS SEATTLE DENVER KANSAS CITY

HONOLULU

SAN MATEO

PUERTO RICO

NEW ORLEANS

SAN FRANCISCO WASHINGTON, D.C. REF17

S **1986**

URS COMPANY, INC. 625 DELAWARE AVE BUFFALO, NEW YORK 14202 TEL (716) 883-5525

January 2, 1986

Mr. Cameron H. O'Connor County of Erie Department of Environment and Planning 95 Franklin Street Buffalo, New York 14202

Dear Mr. O'Connor:

This is to confirm our conversation of December 16, 1985, wherein you provided the following information regarding three (3) inactive waste sites in Erie County undergoing Phase I Investigation:

North Collins Landfill - Site Code 915086

- o The only known groundwater wells in the area are those that serve the thantet of N. Collins. These wells are a public water apply - there village are probably individual throughout the Town that
- o The Hamlet of N. Collins (pop. 1,500) has no alternate drinking water source.
- o The above wells are located near the intersection of Mile Strip Road and Route 62.
- o There are no water-supply intakes located on the surface water bodies within a 3-mile radius of the site.
- Waste is buried using the "trench method". The landfill has no liner and there is no diversion system present.

Old Brickyard - Site Code 915086

- Most of the population within a 3-mile radius of the site is served by a municipal water supply.
- There are no water-supply intakes located on the surface water bodies within a 3-mile radius of the site.
- o The only known waste buried at the site is brick from previous manufacturing operations. This is five however too little is known Bernard Cope - Site Code 915102 about the little is the formation of the second the seco

o This site is located near the Village of Akron which receives its water supply from surface water located in Bennington (approximately 14 miles from the site).

o Groundwater is not used as a public drinking water source within a <u>3-mile radius of the site</u> <u>However there may be individuals on private wells.</u>

January 2, 1986 Page 2



REF 17

- There are no water-supply intakes located on the surface water bodies within a 3-mile radius of the site. 0
- 0 The only known waste buried at the site is demolition debris.

We would appreciate if you would kindly review this information and after making any corrections necessary, return a signed copy to indicate your concurrence.

Sincerely,

URS COMPANY, INC.

raige W. Pauleussi

Craig W. Pawlewski Project Engineer

CWP/bc 35015

I agree with the information as it is presented.

smun

Cameron H. O'Connor





URS COMPANY, INC.

625 DELAWARE AVE BUFFALO, NEW YORK 14202 TEL: (716) 883-5525 MONTVALE N -BUFFALO SAN FRANCISCO WASHINGTON D C DALLAS SEATTLE DENVER KANSAS CITY HONOLULU NEW ORLEANS SAN MATEC PUERTO PICO

NEW YORK

January 16, 1986

Miss Lenore Kuwik NYS Office of Parks, Recreation and Historic Preservation Empire State Plaza, Agency Bldg. 1 Albany, New York 12238

Dear Miss Kuwik:

I am writing to request information regarding seven (7) inactive waste sites in Western New York. URS is performing a Phase I investigation of each of these sites for the NYSDEC pursuant to the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA). The information is required to perform a Hazardous Ranking System (HRS) evaluation of each site. The information requested from your office includes the following:

- o Distance to national or state park, forest, or wildlife reserve, if 2 miles or less.
- Distance to historic or landmark site (from National Register) within view of each site. (It is assumed that no new ground disturbance will take place outside the site boundaries.)

Enclosed are reproductions of USGS maps locating the seven sites.

If there are any questions, please contact me. Any assistance your office can provide regarding this matter would be greatly appreciated.

Sincerely,

URS COMPANY, INC.

Larg W. Fawlewski

Craig W. Pawlewski Project Engineer

cc: V. Singh

Enc. CWP/bc 35015



REF 19

October 6, 1978

APR 3 1986

JOB #_

Mr. Bernard Cope Buell Street Akron, New York 14001

Re: Landfill Inspection

Dear Mr. Cope:

On October 5, 1978, your site was inspected per your telephone conversation to DEC on September 19, 1978.

The site at the time of inspection was considered to be in compliance with New York State DEC, Part 360.

There was some question by Mrs. Cope that you are contemplating addition of material to your site.

Please be advised that absolutely no dumping of any material is allowed. Should you decide to reactivate your site, you must apply for a permit from New York State DEC.

The site as of this date is considered to be closed as per your request and our final inspection.

Should you have any questions, please call me at 846-7444.

Very truly yours,

Donald Tamol, P.E. Sr. Env. Quality Engineer Bureau of Water Resources

DT:jk

			PECTION REF19
	YORK STATE DEPARTMENT OF ENVIE DIVISION OF SOLID WASTE	ANAGEMENT	2 Facility No. 7
Jiete Jadd	FACILITY INSPECTION	, <u>, , , , , , , , , , , , , , , , , , </u>	
3 Change			Facility Name
Persons Interviewed & Titles			Location (Town, etc.)
MRS. DEANA	rd COPE		-120m N.Y.
10 Date 15 16 Time 21 22 Inspe	ctor 36 37 38	CIUED Ren	narks 72
1,99578239 ANG 174	question, use a soft pencil to		
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I. LEACHATE 1. Is leachate visible on, or (2. Is leachate entering surface	near the site?		
the leachate known to be cont	travening groundwater standard: water?	s?	22
	water		
II. BURNING *5. Is refuse burning without pa 6. Is there evidence of unappro	ermit, or not under permit cond. oved previous burning?	itions?26	
III. COVER 7. Is previous day's refuse not	t covered? h daily, intermediate or final		2
9. Is intermediate or final co 10. Is wrong cover material used	wer not in place, or improperly	appilear	
IV. GRADING 11. Are there depressions, pond 12. On completed,areas, is the	vegetative cover missing or ina	aequater	28
12. On completed, areas, is the 13. Are there soil erosion or o	ther drainage problems?		
V. SEPARATION DISTANCES 14. Is refuse closer than 50 fe	et to site boundaries?		
*15. Is refuse known to be less *16. Is refuse known to be less	than 5 feet above groundwater?.	· · · · · · · · · · · · · · · · · · ·	
IT MUTCHNER CONDITIONS			
17. Are odors detectable off-si	essive or a nuisance?		the the state of t
19. Are papers uncontrolled, or *20. Is methane was known to be	leaving the site?	40	32 ³
21. Is noise excessive off-site	?		q <u>v</u> _
VII. OPSRATION CONTROL +22. Are Operation Permit condit	ions being violated?		a sheet
23. Is refuse being deposited i 24. Is refuse spread in layers	thicker than 2 feet?		
25. Is refuse being compacted p 26. Is the working face height 27. Is the working face steeper	greater than 10 feet?		
27. In the working face steeper 28. Is the equipment on site <u>no</u>	t adequate for proper operation		
VIII. SAFETY AND HEALTH 29. Are scavengers present?			
30. Is salvaging uncontrolled o 31. Are rodents and insects not	r creating a nuisance?		36
32. Do unsafe conditions or equ	ipment exist?		
IX. ACCESS CONTROL 33. Is access to the site impro	perly or inadequately controlle	ad?	
34. Is the site open without an 35. Is information about the si	te not posted? (hours of operation)	tion, etc.)56	
36. Is access to the operating Site Sketch/Comments	area poor or unsafe?		
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Alan Cope ernnrd 19 - 5,1978 d FERCE HITY L Ì WINGTION ROUTE ົ 57. BUELL

CHARLONESSING OF THE POPULATION.

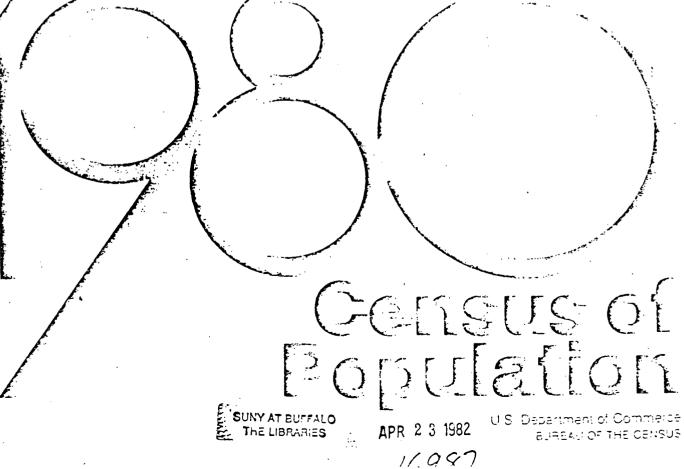
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1960 to 1980

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COUNTY OF ERIE DEPARTMENT OF ENVIRONMENT AND PLANNING DIVISION OF ENVIRONMENTAL CONTROL

REFUI

* * * MEMORANDUM * * *

FROM:	Kermit Studley	DATE:	8/11/86
то:	Anthony T. Voell		
RE:	Bernard Cope Site Saite #915102 - Phase I Report		

There is no documented evidence of hazardous waste disposal at the Bernard Cope Site (BCS). According to the IATF report, the BCS accepted only demolition debris. Also, Don Campbell of the DEP, who previously investigated the site, stated the demolition debris was from area schools and the Akron Village Hall. An inspection of aerial photographs from the years 1951, 1958, 1960 and 1972 did not reveal any changes in topography to indicate major landfilling operations.

The following comments are pertinent to the Phase I report prepared by URS Company, Inc.

Questions regarding quantity or character of waste and the number of potable groundwater wells presently used within one mile of the site should have been answered during the Phase I data collection and not recommended for the Phase II field investigation. The Village of Akron receives its water supply from Bennington which is located in Wyoming County. URS should check their records, specifically their contact, concerning well information in the vicinity of the site (See Page 14 of the report).

The north direction is incorrectly drawn on the site map (Figure 2). This means that the southern half of the site is the former gravel pit and that the eastern portion of said pit was the site of filling operations. Should a Phase II investigation be recommended, tentative boring locations would then be two installed north of the fill area and one installed south of the fill area (groundwater presumed to flow north).

The DEP does not recommend a Phase II study based on the following:

o The nature of reported waste.

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• The small size of the fill area.

However, if the DEC decides a Phase II study is warranted, a compromise limiting field activities as recommended by URS Company Inc. would be in order. This would include:

• Five shallow soil samples using a soil probe to remove a column of relatively undisturbed soil.

- o Groundwater sample(s) obtained from supply well(s) at private residence(s) located in the vicinity of the site.
- Observing sampling protocol for both soil and groundwater samples and analyze for EP toxicity of heavy metals.

KERMIT STUDLEY

Environmentalist

KS:jk

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REF 22.

Mr. Tygert Mr. Clare Bernard Cope Site 915102 July 29, 1986

On July 29, 1986, an inspection was made of the Bernard Cope Site in the Village of Akron. The original intent of this inspection was to obtain sufficient familiarization with the site to review the draft Phase I report. However, the draft report shows the wrong location and does not include any street address.

Mr. Cope was personally interviewed after considerable difficulty. The following pertinent information was obtained from Mr. Cope:

1. Site Location

48 Buell Street Akron, NY

Also Mr. Cope's residence on 2.3 acres

2. Site History

Mr. Cope purchased the property in 1947. The gravel pit was dry to a depth of approximately 60' below grade and abandoned when shale was encountered.

The pit was filled beginning in the 1960's with construction debris -- primarily from Mr. Cope's excavating business.

Typical Wastes

1. Stone fences from Salt Road widening

2. Building foundations from Village of Akron renewal work

3. Street rebuilding wastes

3. Water Supply

All homes in area are on Village water. The large estate (now horse farm) bordering the site on the south has two wells - neither of which are in use.

. Current Status

The fill area is overgrown. Ground elevations are still 15 feet below the original grade — which is evident from the horse corral on the east side of the site, and the tree/neighboring residence lot on the south. No evidence of protruding refuse or leachate was found.

LGC:ec

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