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ENGINEERING INVESTIGATIONS AT INACTIVE HAZARDOUS WASTE SITES

PHASE I INVESTIGATION

Witmer Road — Site No. 932027

Town of Niagara — Niagara County

Date: January 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:

ENGINEERING-SCIENCE

In Association With

DAMES & MOORE

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

WITMER ROAD SITE
NYS SITE NUMBER 932027
TOWN OF NIAGARA
NIAGARA COUNTY
NEW YORK STATE

Prepared For

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

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DATE OF SUBMITTAL: OCTOBER, 1985

WITMER ROAD SITE

TABLE OF CONTENTS

SECTION I

EXECUTIVE SUMMARY

WITMER ROAD

This report, prepared for the New York State Department of Environmental Conservation (NYSDEC), presents the results of the Phase I investigation for the Witmer Road Site (New York Site Number 932027, EPA Site Number D980509459) located in the Town of Niagara, Niagara County, New York (see Figure I-1).

SITE BACKGROUND

The present owners of the site include: Mr. Kachinoski of Kach's Scrap Company, Mr. Ryding of Sartorian Company, Mr. Garlock, Mr. Zygmont, and Mr. Burtwell. Mr. Kachinoski's name appeared on an April 1983 agreement with the NYSDEC to conduct on-site hazardous waste monitoring. Starting in the 1940's numerous users including the City of Niagara Falls and private citizens disposed a variety of wastes on-site (see Figure I-2). The City of Niagara Falls operated a refuse burning operation at the site until the late 1960's. Industrial companies reportedly disposed lime cleanout wastes (ISCO), slag (Vanadium Corporation) and material cleaned out of air pollution equipment (SKW). These wastes were disposed directly on the ground and no attempt was made to cover the wastes.

In 1982, the USGS analyzed soil borings collected adjacent to the inactive burning pits. Concentrations of copper and seven organic priority pollutants were found. The contaminated soil could be a source of contamination to groundwater and surface waters. However, the extent of contamination is unknown due to the lack of groundwater and surface water data. There is no evidence of air releases at the site.

ASSESSMENT

In an attempt to quantify the risk associated with this site, the Hazard Ranking Scoring system (HRS) was applied as currently being used by the New York State DEC to evaluate abandoned hazardous waste sites in New York State. This system takes into account the types of wastes at the site, receptors, and transport routes to apply a numerical ranking of the site. As stated in 40 CFR Subpart H Section 300.81, the HRS scoring system was developed to be used in evaluating the relative potential of uncontrolled hazardous substance facilities to cause health or safety problems or ecological or environmental damage. It is assumed by the EPA that a uniform application of the ranking system in each state will permit EPA to identify those releases of hazardous substances that pose the greatest hazard to humans or the environment.

Under the HRS, three numerical scores are computed for each site, to express the relative risk or danger from the site, taking into account the population at risk, the potential for contamination of drinking water supplies, for direct human contact, and for destruction of sensitive ecological systems and other appropriate factors. The three scores are:

- S_M reflects the potential for harm to humans or the environment from migration of a hazardous substance away from the facility by routes involving groundwater, surface water or air. It is a composite of separate scores for each of the three routes (S_{GW} = groundwater route score, S_{SW} = surface water route score, and S_A = air route score).

- S_{FE} reflects the potential for harm from substances that can explode or cause fires.

- S_{DC} reflects the potential for harm from direct contact with hazardous substances at the facility (i.e., no migration need be involved).

The preliminary HRS score was:

S_M =	9.32	S_A =	0
S_{GW} =	15.91	S_{FE} =	0
S_{SW} =	2.66	S_{DC} =	10

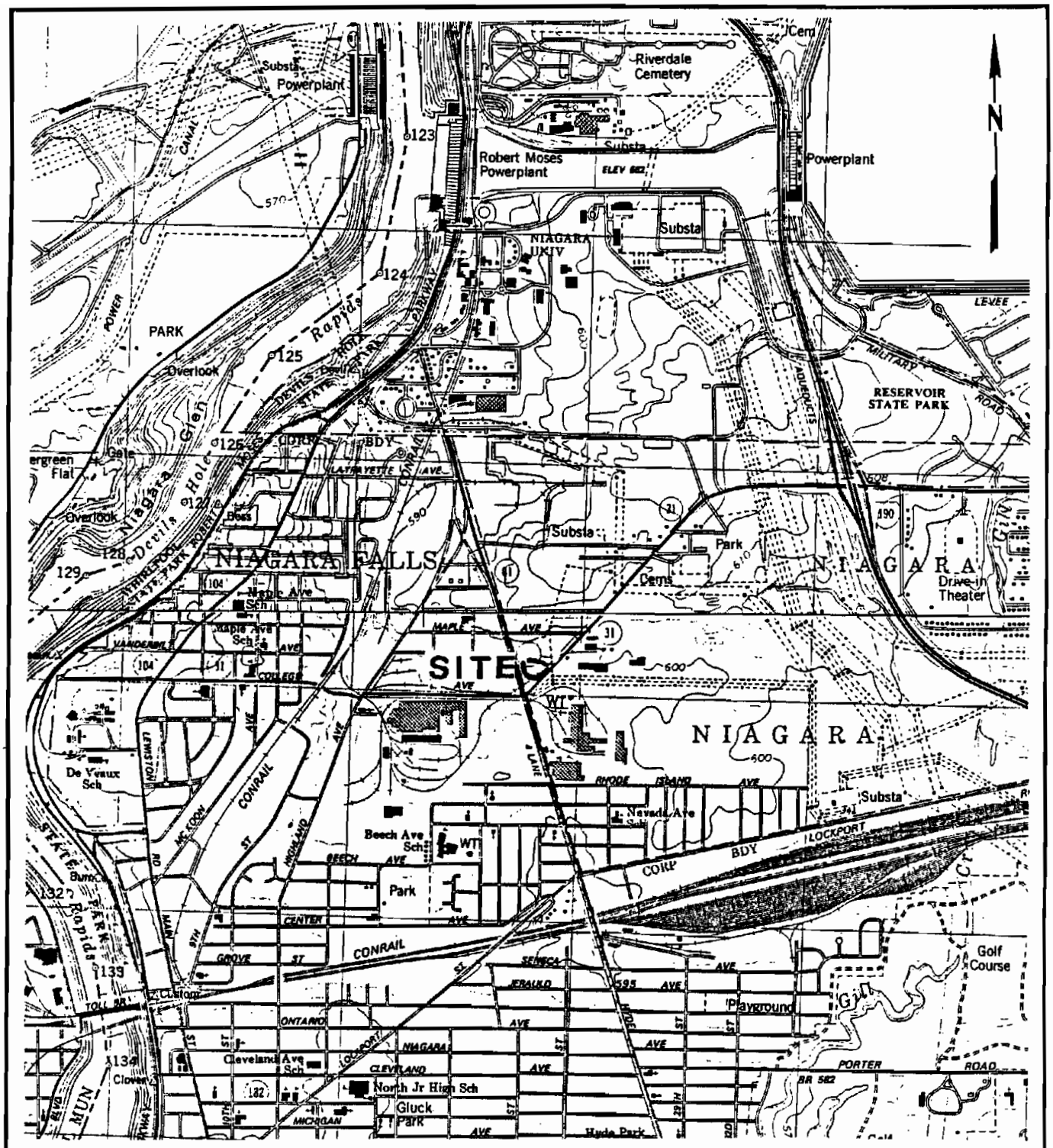
The direct contact score reflects easy access and uncontained condition of the wastes on-site.

RECOMMENDATIONS

The following recommendations are made for completion of Phase II:

- Groundwater monitoring consisting of two private residential wells located northeast of the site.
- Surface soil sampling in the vicinity of the on-site waste piles.
- Waste sampling consisting of twelve samples from on-site waste piles.
- Sample analyses to include priority pollutants.

The estimated man-hour requirements to complete Phase II are 477, while the estimated cost is $ 20,088.



LATITUDE: 43°07'19"
LONGITUDE: 79°02'41"

SCALE

0 1000 2000 3000 4000 FEET

REFERENCE: U.S.G.S. 7.5' Topographic Map
Niagara Falls, NY-ONT. (1980) and
Lewiston, NY-ONT. (1980) Quadrangles

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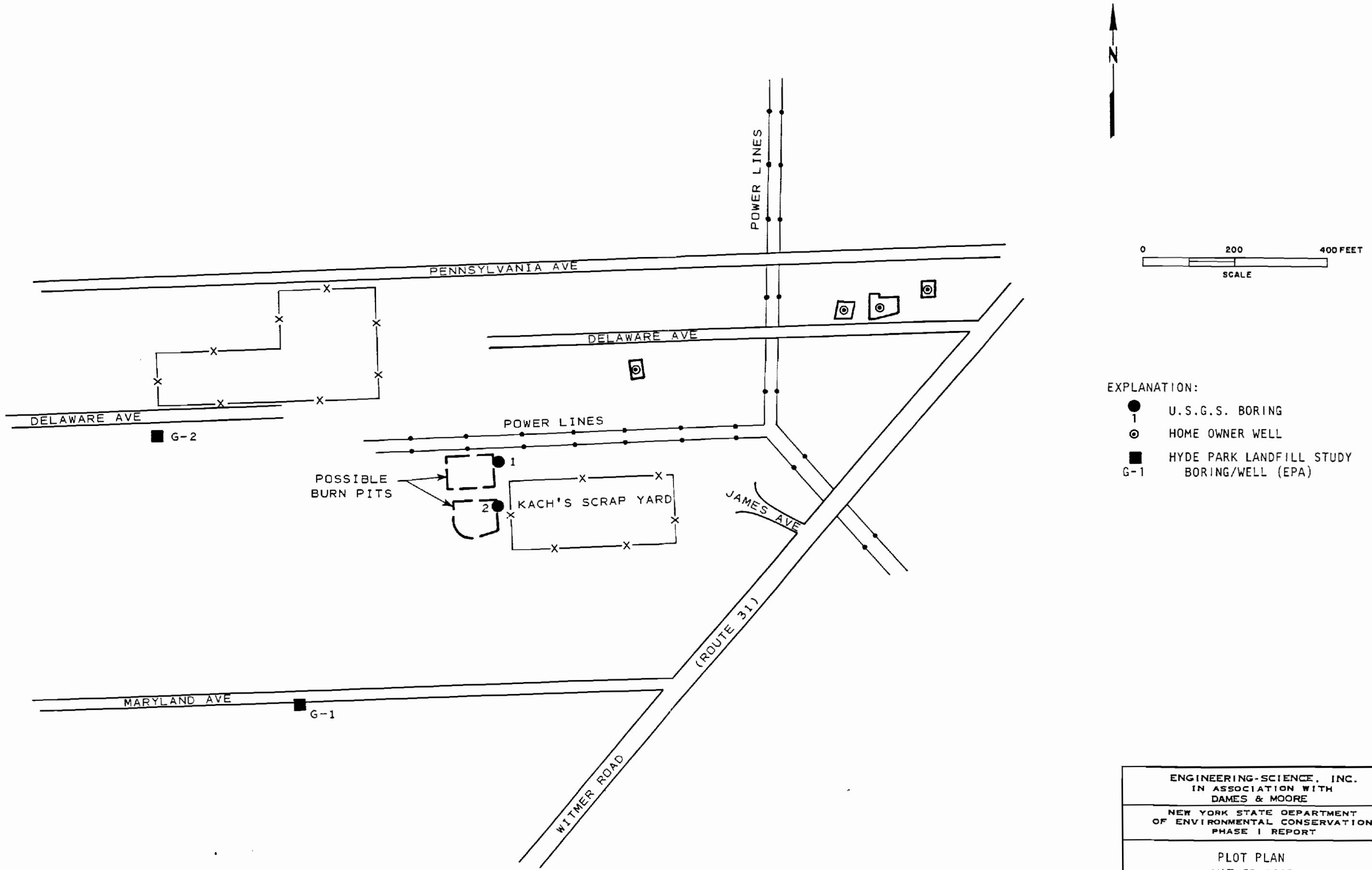
SITE LOCATION MAP
WITMER ROAD

FIGURE I-1



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PLOT PLAN
WITMER ROAD

FIGURE 1-2

SECTION II

PURPOSE

The purpose of the Phase I investigation at the Witmer Road site was to assess the hazard to the environment caused by the present condition of the site. This assessment is based on the Hazard Ranking System, which involves the compilation and rating of numerous geological, toxicological, environmental, chemical, and demographic factors and the calculation of an HRS score. Details of the HRS implementation are provided in Section V. During the initial portion of the investigation, available data and records, combined with information collected from a site inspection, were reviewed and evaluated. The investigation at this site focused on the the alleged disposal of lime, refuse, slag and air pollution equipment dust. Based on this initial evaluation of the Witmer Road site, a Phase II Work Plan has been prepared for collecting any additional data needed to complete the HRS score. In addition, a cost estimate for the recommended Phase II work is provided.

SECTION III

SCOPE OF WORK

The scope of work for the New York State Inactive Site Investigation Program (Phase I) was to collect and review all available information necessary for the documentation and preparation of a Hazard Ranking System score and a Phase II work plan and cost estimate if required. The work activities performed included data collection and review, a site inspection, and interviews with knowledgeable individuals of past and present disposal activities at the site.

The sources contacted during this Phase I investigation included government agencies (federal, state and local), present site owners and operators, and any other individuals that may have knowledge of the site, as identified during the performance of the investigation. These sources are listed in Appendix A. The intent of the list is to identify all persons, departments, and/or agencies contacted during the third round of the Phase I investigations even though useful information may not have been collected from each source contacted.

SECTION IV

SITE ASSESSMENT

SITE HISTORY

The ownership history of the Witmer Road Site is unknown, however the present owners of the disposal area were identified as: Mr. Adolph Kachinoski of Kach's Scrap Company, Mr. Ryding of Sartorian Company, Mr. Garlock, Mr. Zygmont, and Mr. Burtwell (Town of Niagara, 1985). The Niagara Mohawk Power Company also owns rights of way on the disposal site.

The site was open to disposal activities during the 1940's. Numerous users, including the City of Niagara Falls and private citizens, have reportedly used the site to dispose of a variety of wastes. The City of Niagara Falls is believed to have operated a refuse burning operation behind Kach's Scrap Company. Furniture, wood and paper were reportedly burned in open pits and the ash was hauled off-site. The burning operation continued until the 1960's when numerous citizen complaints and more restrictive air pollution requirements resulted in the discontinuation of these disposal activities.

Industrial wastes reportedly disposed on-site include lime clean-outs from ISCO (now International Mineral and Chemical), material cleaned out of air pollution equipment from SKW (now Airco Ames), and slag from Vanadium Corporation (NCHD, 1982). The site is presently used for scrap yard operations and as an easement for power transmission towers owned by Niagara Mohawk Power Company. The old burning pits and disposal ovens are covered with obsolete equipment and refuse. Sporadic scavenger dumping of garbage/refuse on-site appears to be continuing to a limited extent. However, the disposal of wastes of industrial origin

appears to have occurred many years in the past (ES and D&M Site Inspection, 1985).

SITE TOPOGRAPHY

The Witmer Road site is located in the Town of Niagara, Niagara County, New York State. The site consisted of burning pits for the city refuse; however, none of the pits presently exist. The site now consists of numerous mounds and piles of debris, both hardfill as well as scrap tires and miscellaneous trash. The original ground surface was relatively flat, and no predominant surface water drainage direction exists.

The 1-acre site is located along James Avenue, which is a mapped, but unconstructed street. Immediately east of the site is Kach's Scrap Yard. Overhead of the site are Niagara Mohawk power lines. West, north and south of the site are other scrap yards. The nearest resident is approximately 100 feet north-east of the location where the burning pits previously existed. This resident and other nearby residents use private wells for drinking water supply.

Local Sensitive Environments

There are no nearby wetlands nor critical habitats for endangered species. There are numerous monitoring wells in the area, which were installed as part of the Hyde Park Landfill Study (Bergeron, 1984).

SITE HYDROLOGY

This summary is based on information from USGS Topographic Maps, NYS Museum and Science Service Bedrock Geology Map & Quaternary Geology Map, Bergeron (1984), Johnston (1964) and USGS boring logs.

Regional Geology and Hydrology

The site is located in the Erie-Ontario lowlands physiographic province. The bedrock of this region is predominantly limestone, dolostone, and shale. Most of the rocks are deep aquifers with regional flow to the south.

In the recent past, most of New York State, including the site, has been repeatedly covered by a series of continental ice sheets. The activity of the glacier widened preexisting valleys and deposited widespread accumulations of till throughout the region, and moraines (generally till) mark former ice margins. The melting of ice, ending approximately 12,000 years ago, produced large volumes of meltwater; this water subsequently shaped channels and deposited thick accumulations of stratified, granular sediments.

As glacial ice retreated from the region, meltwater formed lakes in front of the ice margin. The Niagara County region is covered by lake sediments, the most recent being from Lake Iroquois (a larger predecessor to Lake Ontario). The sediments consist of blanket sands and beach ridges which are occasionally underlain by lacustrine silts and clays (indicating quiet, deeper water deposition).

Granular deposits in this region frequently act as shallow aquifers, whereas lacustrine clays, as well as tills, often inhibit groundwater movement. However, fine-grained, water-lain sediments, such as silts and clays, frequently contain horizontal laminations and sand seams. These internal features facilitate lateral groundwater movement through otherwise low permeability materials.

Site Hydrogeology

Bedrock beneath the site is expected to be Lockport Dolomite occurring at elevations between 595' and 590' above mean sea level (MSL). The top-of-rock surface slopes to the southwest at 1:50 slope. The Lockport Dolomite forms the uppermost bedrock aquifer. The piezometric

surface occurs approximately at the top-of-rock, sloping to the southwest. A contaminant plume has been identified in this aquifer at the Witmer Road site emanating from the Hyde Park Landfill (which is < 2,000 feet northwest of the site). Approximately 1/2 mile south of the site is an abandoned industrial well once operated by American Sales Book Company. This well produced approximately 100 gallons per minute (gpm) when operating and extended to 64 feet in depth. The water was high in H_2S. Numerous other wells exist east and north of the site, as part of PASNY Power Reservoir projects and the Hyde Park Landfill study.

The soil stratigraphy (interpreted from boring/well F-6 of the Hyde Park Landfill study as well as on-site USGS borings) is expected to be:

Unit	Depth Range
Miscellaneous hardfill	0 - 2'
Brown clayey silt	2 - 5'
Layered red-brown silt & grey clay	5 - 10'
Top of bedrock	Approx. 10'

Soils are noted to be moist below 6 feet. Although local zones of perched water occur seasonally, no continuous soil aquifer has been identified. The soils are generally thin and of low permeability. A permeability range of 10^{-5} cm/sec to 10^{-7} cm/sec was assumed for HRS scoring.

SITE CONTAMINATION

Starting in the 1940's the City of Niagara Falls burned refuse in open pits behind Kach's Scrap Yard. The ash was reportedly disposed off-site. There are also reports of on-site industrial waste disposal. Based on visual identification of materials on other disposal sites, the suspected wastes include unknown quantities of lime cleanouts from process vessels at ISCO, slag generated by Vanadium Corporation, and dust (possibly containing chromium) from air pollution devices at Airco Allies. These wastes were dumped directly on the ground and presently

remain uncovered (NCHD, 1982). The quantity and type of wastes disposed on-site is not known, and the size of the disposal area has not been defined.

In 1982, the USGS collected soil samples at the site as part of the Niagara River Toxics Study. Soil samples were collected from borings adjacent to the old burning pits (see Figure IV-1). Analyses of the samples found concentrations of copper, priority pollutant organics and several non-priority pollutant organics including unidentified hydrocarbons, see Table IV-1 (USGS, 1983). However, the accuracy of this data are suspect since the sample holding time and/or surrogate recoveries were not acceptable. Also, background/upgradient soil samples were not collected during the USGS sampling effort.

In 1984 and 1985, the New York State Department of Health analyzed groundwater samples from five (5) private supply wells northeast of the Witmer Road site along Pennsylvania and Delaware Avenues. The analytical data from three of the wells are presented in Table IV-2 (NYSDOH, 1984). Low concentrations of several organic constituents were detected including trans-1,2-dichloroethane (2-6 ug/l), trichloroethylene (2-6 ug/l), benzene (1 ug/l), and dichloromethane (1 ug/l). The results of the other data is not available to date. It should be noted, however, that no background/upgradient wells have been sampled to determine if these results indicate contamination from the Witmer Road site. The analytical results are provided in the Appendix.

HNu meter readings were taken during a recent site inspection (ES and D&M, 1985) and all measurements were less than 1 ppm.

The site is accessible from Kach's Scrap Company and the Niagara Mohawk easements.

TABLE IV-1

SUMMARY OF SOIL SAMPLE ANALYSIS AT THE WITMER ROAD SITE

Parameter (ug/kg)	Sample Collection Sites 1	2
Inorganic Constituents		
Copper[a]	2,000	28,000[c]
Iron[a]	1,200,000	1,400,000
Mercury[a]	---	---
Molecular Sulphur[b]	---	450
Organic Compounds[b]		
Priority Pollutants		
Benzene	---	8.8
1,1,1-Trichloroethane	22.9[e]	---
Trichloroethene	LT[d]	---
Fluoranthene	LT[d]	---
Napthalene	LT[d]	---
Bis(2-ethylhexyl)phthalate	104[d,e]	---
Pyrene	LT[d]	---
Nonpriority Pollutants		
Carbon disulfide	---[d]	38.4
Dibenzofuran	LT[d]	---
2-Methylnaphthalene	LT[d]	---[d]
2-Octadecanol	---	690[d]
2-Methyl(s)-1-dodecanol	---[d]	1,300[d]
Unknown hydrocarbons	16,750[d]	4,160[d]

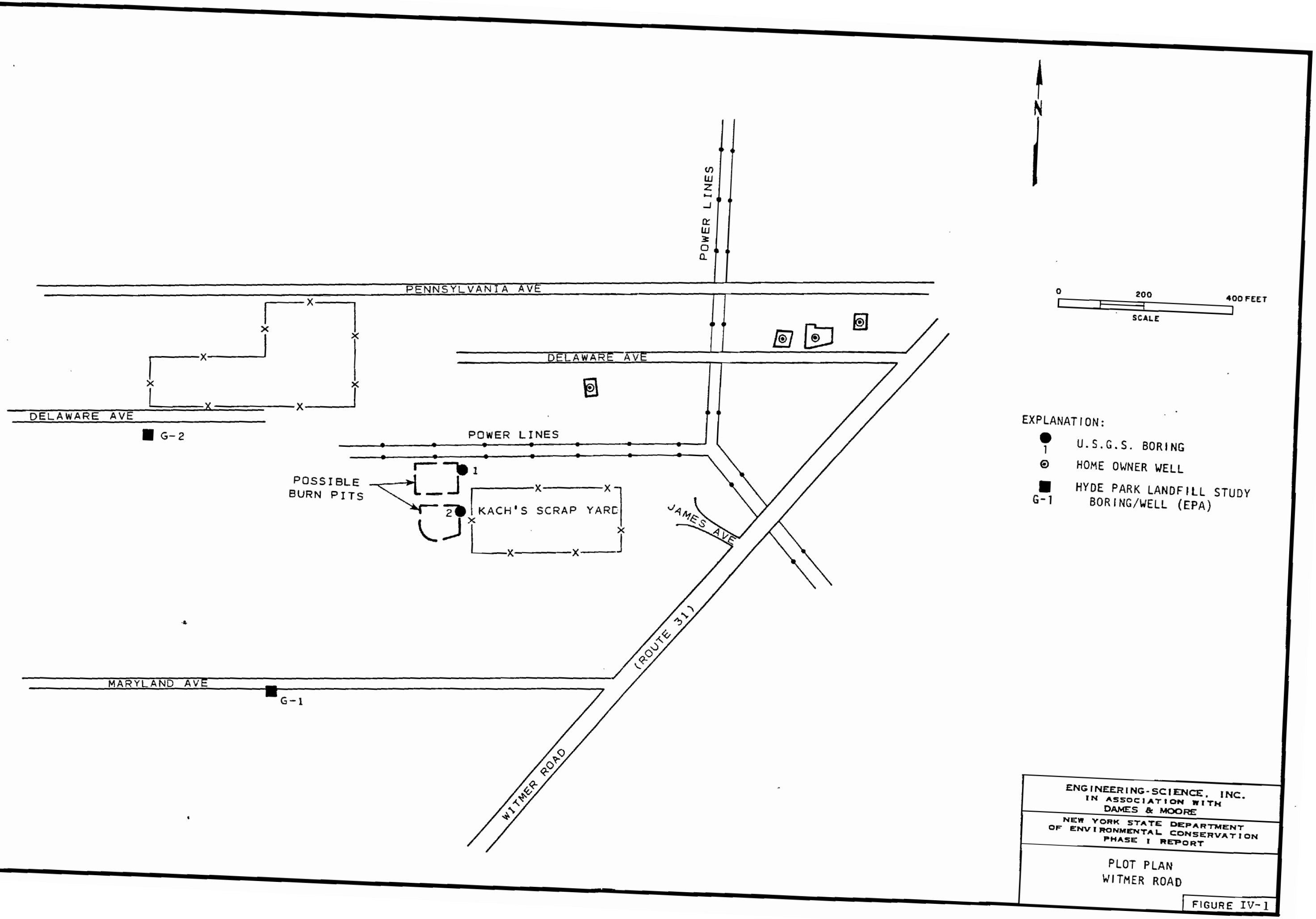
SOURCE: USGS Niagara River Toxics Study Draft, 1983

[a] Samples collected 6/29/85.
[b] Samples collected 5/25/83.
[c] Exceeds concentrations in samples from undisturbed soils in the Niagara Falls area.
[d] Holding time exceeded before GC-MS extraction.
[e] Surrogate recoveries were above or below the acceptance limit.

TABLE IV-2
HYDE PARK WELL DATA

Parameter	Sampling Sites 2075 Pennsylvania Ave. (ug/l)	2645 Pennsylvania Ave. (ug/l)	2633 Pennsylvania Ave. (ug/l)
Trans-1,2-dichloroethene	6	2	--
Trichloroethylene	6	2	2
Benzene	1	1	--
Dichloromethane	--	1	--

Source: New York State Department of Health, 1984.


N
POWER LINES
PENNSYLVANIA AVE
DELAWARE AVE
DELAWARE AVE
G-2
POWER LINES
POSSIBLE
BURN PITS
1
2
KACH'S SCRAP YARD
JAMES AVE
(ROUTE 31)
WITMER ROAD
MARYLAND AVE
G-1
0
200
400 FEET
SCALE
EXPLANATION:
U.S.G.S. BORING
HOME OWNER WELL
G-1
HYDE PARK LANDFILL STUDY BORING/WELL (EPA)
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PLOT PLAN
WITMER ROAD
FIGURE IV-1

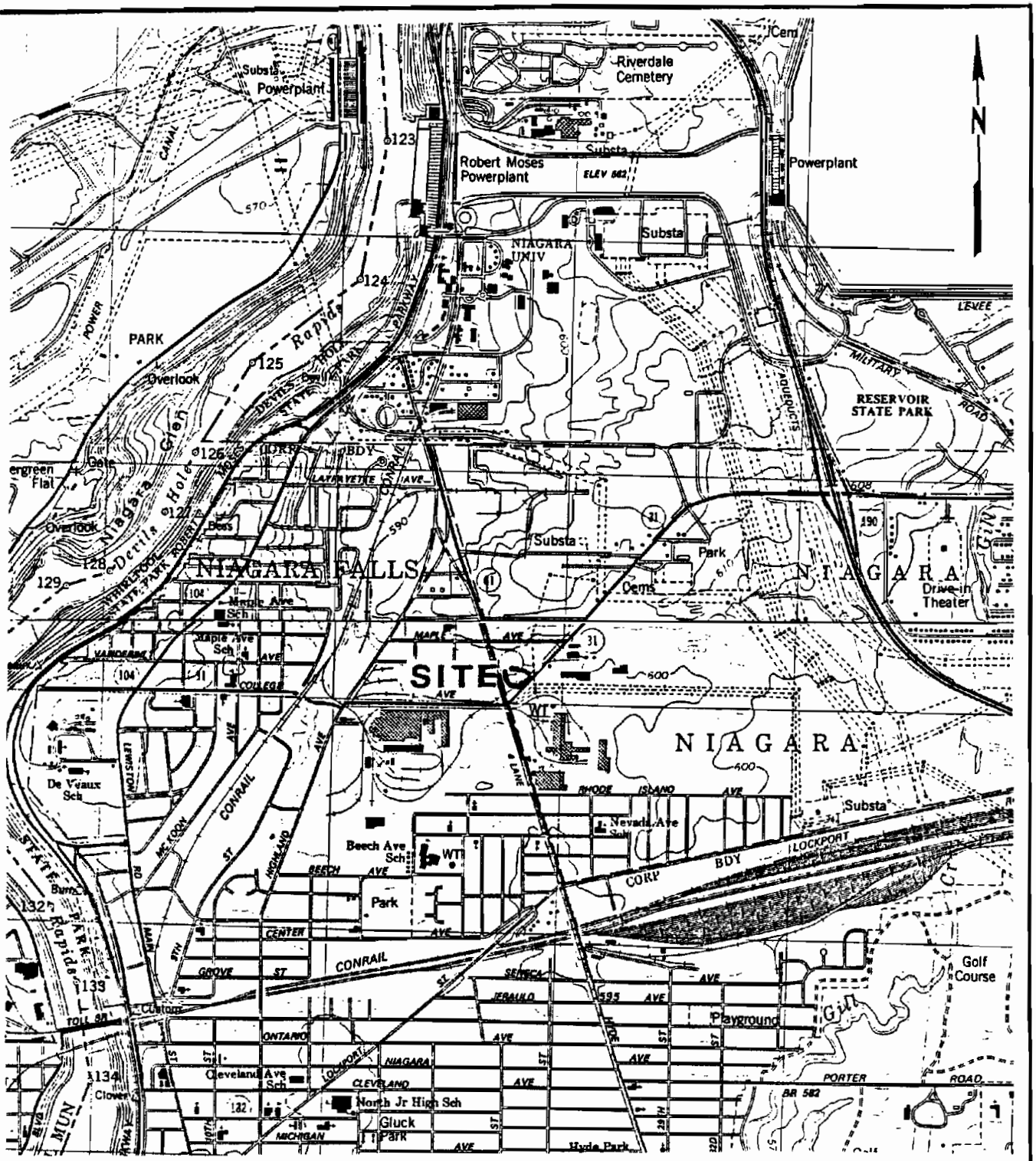
PRELIMINARY APPLICATION OF HAZARD RANKING SYSTEM

NARRATIVE SUMMARY

The Witmer Road site is located between Delaware and Maryland Avenues adjacent to Witmer Road in the Town of Niagara, Niagara County, New York. Due to the uncertain size of the disposal area (estimated to be 15-acres), the past ownership of the site is not completely known. Present owners of the alleged disposal area include: Mr. Adolph Kachinoski of Kach's Scrap Company, Mr. Ryding of Sartorian Company, Mr. Garlock, Mr. Zygmont, and Mr. Burtwell (NYSDEC, 1983 and Town of Niagara, 1985).

Starting in the 1940's numerous users, including the City of Niagara Falls and private citizens, have used the site to dispose of a wide range of wastes. The City of Niagara Falls is believed to have used an area behind Kach's Scrap Yard to burn refuse. Wood and paper were reportedly burned in open pits and the resulting ash was transported off-site. Based on visual identification of materials on other disposal sites, the industrial wastes that are believed to be dumped on-site include lime cleanouts from ISCO (now International Mineral and Chemical), cleanouts (possibly containing chromium dust) of air pollution equipment from SKW (now Airco Allies), and slag from Vanadium Corporation (NCHD, 1982). There is evidence of continued scavenger disposal activity of non-industrial, residential refuse/garbage (ES and D&M Site Inspection, 1985).

In 1982, the USGS collected soil boring samples adjacent to the old burning pits. Analysis of these samples found concentrations of copper, priority organics and several non-priority organics (USGS, 1983). Groundwater samples were collected (NYSDOH, 1984) from five residential wells located northeast of the Witmer Road site. Several organic constituents were detected in low concentrations. HNu meter readings were taken during a recent site inspection (ES and D&M, 1985) and all measurements were less than 1 ppm. However, no upgradient data is available for the USGS or NCHD data and, therefore, it is not known if the Witmer Road site is the source of the contamination.



LATITUDE: 43°07'19"
LONGITUDE: 79°02'41"

SCALE

0 1000 2000 3000 4000 FEET

REFERENCE: U.S.G.S. 7.5' Topographic Map
Niagara Falls, NY-ONT. (1980) and
Lewiston, NY-ONT. (1980) Quadrangles

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SITE LOCATION MAP
WITMER ROAD

FIGURE V-1

HRS COVER SHEET

Facility Name: Witmer Road Site

Location: Maryland Ave. and Witmer Road, Niagara, New York

EPA Region: II

Person(s) in charge of the facility: Owners: Mr. Kachinoski, Mr. Ryding, Mr. Garlock, Mr. Burtwell, Mr. Zygmont

Name of Reviewer: S. Robert Steele, II Date: 4/19/85

General Description of the facility:

The site has been used since the 1940's for open dumping and refuse burning. Furniture, wood and paper were reportedly burned by the City of Niagara Falls behind Kach's Scrap Company on James Street. Industrial wastes including cleanouts of air pollution equipment from Airco Allies (formerly SKW), lime cleanouts from International Mineral and Chemical (formerly ISCO) and slag from Vanadium Corp. were reportedly disposed at the site. In addition miscellaneous wastes including construction debris, obsolete equipment, and refuse are disposed in waste piles. In 1982, the USGS collected soil samples at the site and detected copper and priority pollutant organics. In 1984, the New York State Department of Health collected groundwater samples from five residential wells in the vicinity of the site. No upgradient/background data was collected during either of the sampling efforts which could attribute the contamination to the Witmer Road site.

Scores: S_M = 9.32 (S_{gw} = 15.91 S_{sw} = 2.66 S_a = 0)

S_{FE} = 0

S_{DC} = 10

Facility Name: Witmer Road Date: 4/19/85

Ground Water Route Work Sheet					
Rating Factor	Assigned Value (Circle One)	Multiplier	Score	Max. Score	Ref. (Section)
1 Observed Release	(0) 45	1	0	45	3.1
If observed release is given a score of 45, proceed to line 4. If observed release is given a score of 0, proceed to line 2.					
2 Route Characteristics					3.2
Depth to Aquifer of Concern	0 1 2 (3)	2	6	6	
Net Precipitation	0 1 (2) 3	1	2	3	
Permeability of the Unsaturated Zone	0 (1) 2 3	1	1	3	
Physical State	0 (1) 2 3	1	1	3	
Total Route Characteristics Score			10	15	
3 Containment	0 1 2 (3)	1	3	3	3.3
4 Waste Characteristics					3.4
Toxicity/Persistence	0 3 6 9 12 15 [18]	1	18	18	
Hazardous Waste Quantity	0 [1] 2 3 4 5 6 7 8	1	1	8	
Total Waste Characteristics Score			19	26	
5 Targets					3.5
Ground Water Use	0 1 (2) 3	3	6	9	
Distance to Nearest Well/Population Served	0 4 6 8 (10) 12 16 18 20 24 30 32 35 40	1	10	40	
Total Targets Score			16	49	
6 If line 1 is 45, multiply 1 x 4 x 5. If line 1 is 0, multiply 2 x 3 x 4 x 5			9120	57,330	
7 Divide line 6 by 57,330 and multiply by 100			S_{gw} = 15.97		

GROUND WATER ROUTE WORK SHEET

Facility Name: Witmer Road Date: 4/19/85

Surface Water Route Work Sheet

Rating Factor	Assigned Value (Circle One)	Multiplier	Score	Max. Score	Ref. (Section)
1 Observed Release	(0) 45	1	0	45	4.1
If observed release is given a value of 45, proceed to line 4. If observed release is given a value of 0, proceed to line 2.					
2 Route Characteristics					4.2
Facility Slope and Intervening Terrain	(0) 1 2 3	1	0	3	
1-yr. 24-hr. Rainfall	0 1 (2) 3	1	2	3	
Distance to Nearest Surface Water	0 (1) 2 3	2	2	6	
Physical State	0 (1) 2 3	1	1	3	
Total Route Characteristics Score			5	15	
3 Containment	0 1 2 (3)	1	3	3	4.3
4 Waste Characteristics					4.4
Toxicity/Persistence	0 3 6 9 12 15 [18]	1	18	18	
Hazardous Waste Quantity	0 [1] 2 3 4 5 6 7 8	1	1	8	
Total Waste Characteristics Score			19	26	
5 Targets					4.5
Surface Water Use	0 1 (2) 3	3	6	9	
Distance to a Sensitive Environment	(0) 1 2 3	2	0	6	
Population Served/ Distance to Water Intake Downstream	(0) 4 6 8 10 12 16 18 20 24 30 32 35 40	1	0	40	
Total Targets Score			6	55	
6 If line 1 is 45, multiply 1 x 4 x 5. If line 1 is 0, multiply 2 x 3 x 4 x 5			1710	64,350	
7 Divide line 6 by 64,350 and multiply by 100			S_{sw} = 2.66		

SURFACE WATER ROUTE WORK SHEET

Facility Name: Witmer Road Date: 4/19/85

Air Route Work Sheet					
Rating Factor	Assigned Value (Circle One)	Multiplier	Score	Max. Score	Ref. (Section)
[1] Observed Release	(0) 45	1	0	45	5.1
Date and Location:					
Sampling Protocol: HNU meter up and downwind at site					
If line [1] is 0, the S_a = 0. Enter on line [5]. If line [1] is 45, then proceed to line [2].					
[2] Waste Characteristics					5.2
Reactivity and Incompatibility	0 1 2 3	1		3	
Toxicity	0 1 2 3	3		9	
Hazardous Waste	0 1 2 3 4 5 6 7 8	1		8	
Total Waste Characteristics Score				20	
[3] Targets					5.3
Population Within 4-Mile Radius	0 9 12 15 18 21 24 27 30	1		30	
Distance to Sensitive Environment	0 1 2 3	2		6	
Land Use	0 1 2 3	1		3	
Total Targets Score				39	
[4] Multiply [1] x [2] x [3]			0	35,100	
[5] Divide line [4] by 35,100 and multiply by 100			S_a = 0		

AIR ROUTE WORK SHEET

Facility Name: Witmer Road Date: 4/19/85

Worksheet for Computing S_M

	S	S^2
Groundwater Route Score (S_{gw})	15.91	253.13
Surface Water Route Score (S_{sw})	2.66	7.08
Air Route Score (S_a)	0.00	0.00
$S_{gw}^2 + S_{sw}^2 + S_a^2$		260.21
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2}$		16.13
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2} / 1.73 = S_M =$		9.32

WORK SHEET FOR COMPUTING S_M

Facility Name: Witmer Road Date: 4/19/85

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

FIRE AND EXPLOSION WORK SHEET

Facility Name: Witmer Road Date: 4/19/85

Direct Contact Work Sheet					
Rating Factor	Assigned Value (Circle One)	Multi-plier	Score	Max. Score	Ref. (Section)
1 Observed Incident	(0) 45	1	0	45	8.1
If line 1 is 45, proceed to line 4 If line 1 is 0, proceed to line 2					
2 Accessibility	0 1 2 (3)	1	3	3	8.2
3 Containment	0 (15)	1	15		8.3
4 Waste Characteristics Toxicity	0 1 2 (3)	5	3	15	8.4
5 Targets					8.5
Population Within 1-Mile Radius	0 1 2 3 (4) 5	4	16	20	
Distance to a Critical Habitat	(0) 1 2 3	4	0	12	
Total Targets Score			16	32	
6 If line 1 is 45, multiply 1 x 4 x 5 If line 1 is 0, multiply 2 x 3 x 4 x 5			2160	21,600	
7 Divide line 6 by 21,600 and multiply by 100			S_{DC} = 10.00		

DIRECT CONTACT WORK SHEET

DOCUMENTATION RECORDS
FOR
HAZARD RANKING SYSTEM

FACILITY NAME: Witmer Road Site

LOCATION: Town of Niagara, Niagara County, New York State

GROUNDWATER ROUTE

1. OBSERVED RELEASE

Contaminants detected (5 maximum):

Groundwater samples collected from five residential wells were analyzed for contamination (priority pollutants) by the New York State Department of Health in 1984 and 1985 (NYSDOH, 1985). Low concentrations (ppb) of organic constituents were detected.

Rationale for attributing the contaminants to the facility:

No observed release. No upgradient/background well data was collected during the sampling effort which could attribute the contamination to the site.

* * *

2. ROUTE CHARACTERISTICS

Depth to Aquifer of Concern

Name/description of aquifer(s) of concern:

Bedrock aquifer in Lockport Dolomite (Estimate based on USGS Draft Report, 1983; Bergeron, 1984)

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

Estimated 10 feet to bedrock aquifer water table (USGS, 1983; Bergeron, 1984).

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

Up to 10 feet, estimate based on observations during site visit (3/26/85).

Net Precipitation

(US Department of Commerce, National Climatic Center, Climatic Atlas of the United States, 1979)

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

Mean annual precipitation is 36".

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

Mean annual lake evaporation is 27".

Net precipitation (subtract the above figures):

9" (36" - 27" = 9").

Permeability of Unsaturated Zone

Soil type in unsaturated zone:

Sandy clay (Bergeron, 1984; USGS Draft Report, 1983).

Permeability associated with soil type:

10^{-5} to 10^{-7} cm/sec (Freeze, R.A. and J.A. Cherry, Groundwater, 1979, pg. 29).

Physical State

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

Solid (NYSDEC Registry Sheet, 12/83).

* * *

3. CONTAINMENT

Containment

Method(s) of waste or leachate containment evaluated:

There is no liner and the waste piles are uncovered. (Niagara County Site Profile Report, 1982; and observations during ES and D&M Site Inspection, 3/26/85).

Method with highest score:

Uncovered piles and no liner -3.

4. WASTE CHARACTERISTICS

Toxicity and Persistence

Compound(s) evaluated:

Copper (USGS, 1983).

Compound with highest score:

Copper (toxicity = 3, persistence = 3) - 18.

Hazardous Waste Quantity

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

Unknown (NYSDEC Registry Sheet, 12/83).

Basis of estimating and/or computing waste quantity:

Hazardous waste are known to have been disposed on-site; however, no records exist for the site. Therefore, for purposes of rating the site, 1 to 10 cubic yards of hazardous waste are assumed to be disposed on-site because contaminants have been detected.

* * *

5. TARGETS

Groundwater Use

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

Drinking water with alternate source available (Hopkins, 7/19/85; Hopkins, 10/28/85).

Distance to Nearest Well

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

500 feet to home with well on Delaware Avenue, north of site (USGS Topographic Map: Niagara Falls, NY-ONT, and Lewiston, NY-ONT.

Distance to above well or building:

500 feet.

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

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

No community water supplies. Public water is available. There are five private drinking water wells within a 3 mile radius = 19 people (Hopkins, 1985).

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):

None.

Total population served by groundwater within a 3-mile radius:

19 people (Hopkins, 1985).

SURFACE WATER ROUTE

1. OBSERVED RELEASE

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

No surface water samples analyzed for contamination (NYSDEC Registry Sheet 12/83).

Rationale for attributing the contaminants to the facility:

Not applicable.

* * *

2. ROUTE CHARACTERISTICS

Facility Slope and Intervening Terrain

Average slope of facility in percent:

Surface undulation - generally flat across site (Observations during ES/D&M Site Inspection, 3/26/85).

Name/description of nearest downslope surface water:

Niagara River, approximately 5,600 feet (USGS Topographic Maps: Niagara Falls NY-ONT, 1980 and Lewiston, NY - 1980 Quadrangles).

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

2.7% (USGS Topographic Maps: Niagara Falls NY-ONT, 1980 and Lewiston, NY - 1980 Quadrangles).

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

No.

Is the facility completely surrounded by areas of higher elevation?

No (USGS Topographic Maps: Niagara Falls NY-ONT, 1980 and Lewiston, NY - 1980 Quadrangles).

1-Year 24-Hour Rainfall in Inches

2.1" (USDOC Technical Paper No. 40).

Distance to Nearest Downslope Surface Water

1.4 mile (USGS Topographic Maps: Niagara Falls NY-ONT, 1980 and Lewiston, NY - 1980 Quadrangles).

Physical State of Waste

Solid (NYSDEC Registry Sheet, 12/83).

* * *

3. CONTAINMENT

Containment

Method(s) of waste or leachate containment evaluated:

Wastes disposed directly on the ground. There are no cover or diversion systems. (ES and D&M Site Inspection, 3/26/85).

Method with highest score:

Piles not covered, no surface water diversion system - 3.

4. WASTE CHARACTERISTICS

Toxicity and Persistence

Compound(s) evaluated

Copper (USGS, 1983).

Compound with highest score:

Copper (toxicity = 3, persistence = 3) - 18.

Hazardous Waste Quantity

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

Unknown (NYSDEC Registry Sheet, 12/83).

Basis of estimating and/or computing waste quantity:

Hazardous wastes are known to have been disposed on-site; however, no records exist for the site. Therefore, for purposes of rating the site, 1 to 10 cubic yards of hazardous waste are assumed to be disposed on-site because contaminants have been detected.

* * *

5. TARGETS

(USGS Topographic Maps: Niagara Falls, NY-ONT and Lewiston, NY Quadrangles, 1980)

Surface Water Use

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

Recreation, scenic value, tourism, and discharge from power plants.

Is there tidal influence?

No.

Distance to a Sensitive Environment

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

None within 2 miles (Western NYS not a coastal area).

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

None within 1 mile (Sneider and Wilkinson, 1985).

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

None within 1 mile (Sneider and Wilkinson, 1985).

Population Served by Surface Water

(New York State Atlas of Community Water System Sources, 1982)

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:

None within 3 miles of the site.

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

None within specified distances.

Total population served:

Not applicable.

Name/description of nearest of above water bodies:

Not applicable.

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

Not applicable.

AIR ROUTE

1. OBSERVED RELEASE

Contaminants detected:

All HNU meter readings were less than 1 ppm.

Date and location of detection of contaminants:

HNU readings taken both upwind and downwind of site. ES and D&M Site Inspection, 3/26/85.

Methods used to detect the contaminants:

HNU meter.

Rationale for attributing the contaminants to the site:

Not applicable.

* * *

2. WASTE CHARACTERISTICS

Reactivity and Incompatibility

Most reactive compound:

No known reactive compounds.

Most incompatible pair of compounds:

No known incompatible compounds.

Toxicity

Most toxic compound:

Low concentrations (ppb) of priority pollutant organics have been detected in groundwater samples collected from nearby residential wells. However, these contaminants can not be attributed to the site. HNU meter readings did not indicate the presence of volatile organics above background levels. Therefore, no compounds are known to exist on-site that potentially impact the air pathway.

Hazardous Waste Quantity

Total quantity of hazardous waste:

Unknown (NYS Registry Sheet, 1983).

Basis of estimating and/or computing waste quantity:

No hazardous waste can be attributed to the site (see above comments).

* * *

3. TARGETS

Population Within 4-Mile Radius

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

(0 to 4 mi) 0 to 1 mi 0 to 1/2 mi 0 to 1/4 mi

66,222 people (Complied from 1980 US Bureau of the Census Data).

Distance to a Sensitive Environment

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

None within 2 miles (Western NYS not a coastal area).

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

More than 1 mile (Sneider and Wilkinson, 1985).

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

More than mile (Sneider and Wilkinson, 1985).

Land Use

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

Adjacent (ES and D&M Site Inspection, 3/26/85).

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

More than 2 miles (USGS Topographic Maps: Niagara Falls, NY-ONT and Lewiston NY, Quadrangles, 1980).

Distance to residential area, if 2 miles or less:

Adjacent (ES and D&M Site Inspection, 3/26/85).

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

More than 1 mile (USGS Topographic Maps: Niagara Falls, NY-ONT and Lewiston NY, Quadrangles, 1980).

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

More than 2 miles (USGS Topographic Maps: Niagara Falls, NY-ONT and Lewiston NY, Quadrangles, 1980).

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

No.

FIRE AND EXPLOSION

1. CONTAINMENT

Hazardous substances present:

No information was discovered during the Phase I study which indicates that a fire and explosion situation existed or presently exists at the site.

Type of containment, if applicable:

Not applicable, see above comment.

* * *

2. WASTE CHARACTERISTICS

Direct Evidence

Type of instrument and measurements:

No measurements to determine the fire and explosion potential were taken on-site.

Ignitability

Compound used:

No ignitable compounds are known to exist on-site.

Reactivity

Most reactive compound:

No reactive compounds are known to exist on-site.

Incompatibility

Most incompatible pair of compounds:

No incompatible compounds are known to exist on-site.

Hazardous Waste Quantity

Total quantity of hazardous substances at the facility:

No hazardous waste are known to be disposed on-site that create a potential fire and explosion situation.

Basis of estimating and/or computing waste quantity:

No applicable, see above comment

* * *

3. TARGETS

Distance to Nearest Population

A residential area is located adjacent to the site (ES and D&M Site Inspection, 3/26/85).

Distance to Nearest Building

500 feet to a home on Delaware Avenue (ES and D&M Site Inspection, 3/26/85).

Distance to Sensitive Environment

Distance to wetlands:

None within 1 mile of the site (NYSDEC, Region 9, Department of Fish and Wildlife, 1985).

Distance to critical habitat:

None within 1 mile (NYSDEC, Region 9, Department of Fish and Wildlife, 1985).

Land Use

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

Adjacent to the site (ES and D&M Site Inspection, 3/26/85).

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

More than 2 miles (USGS Topographic Maps: Niagara Falls, NY-ONT and Lewiston NY, Quadrangles, 1980).

Distance to residential area, if 2 miles or less:

Adjacent to site (ES and D&M Site Inspection, 3/26/85).

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

More than 1 mile (USGS Topographic Maps: Niagara Falls, NY-ONT and Lewiston NY, Quadrangles, 1980).

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

More than 2 miles (USGS Topographic Maps: Niagara Falls, NY-ONT and Lewiston NY, Quadrangles, 1980).

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

No.

Population with 2-Mile Radius

28,897 people (US Census Data, 1980).

Buildings Within 2-Mile Radius

DIRECT CONTACT

1. OBSERVED INCIDENT

Date, location, and pertinent details of incident:

There is no confirmed instance in which contact with hazardous substances at this site has caused injury, illness or death to humans or domestic or wild animals.

* * *

2. ACCESSIBILITY

Describe type of barrier(s):

Barriers do not completely surround the site (ES and D&M Site Inspection, 3/26/85).

* * *

3. CONTAINMENT

Type of containment, if applicable:

Waste piles on-site are uncovered and hazardous substance is accessible to direct contact.

* * *

4. WASTE CHARACTERISTICS

Toxicity

Compounds evaluated:

Copper (USGS, 1983).

Compound with highest score:

Copper (toxicity = 3, persistence = 3) - 18.

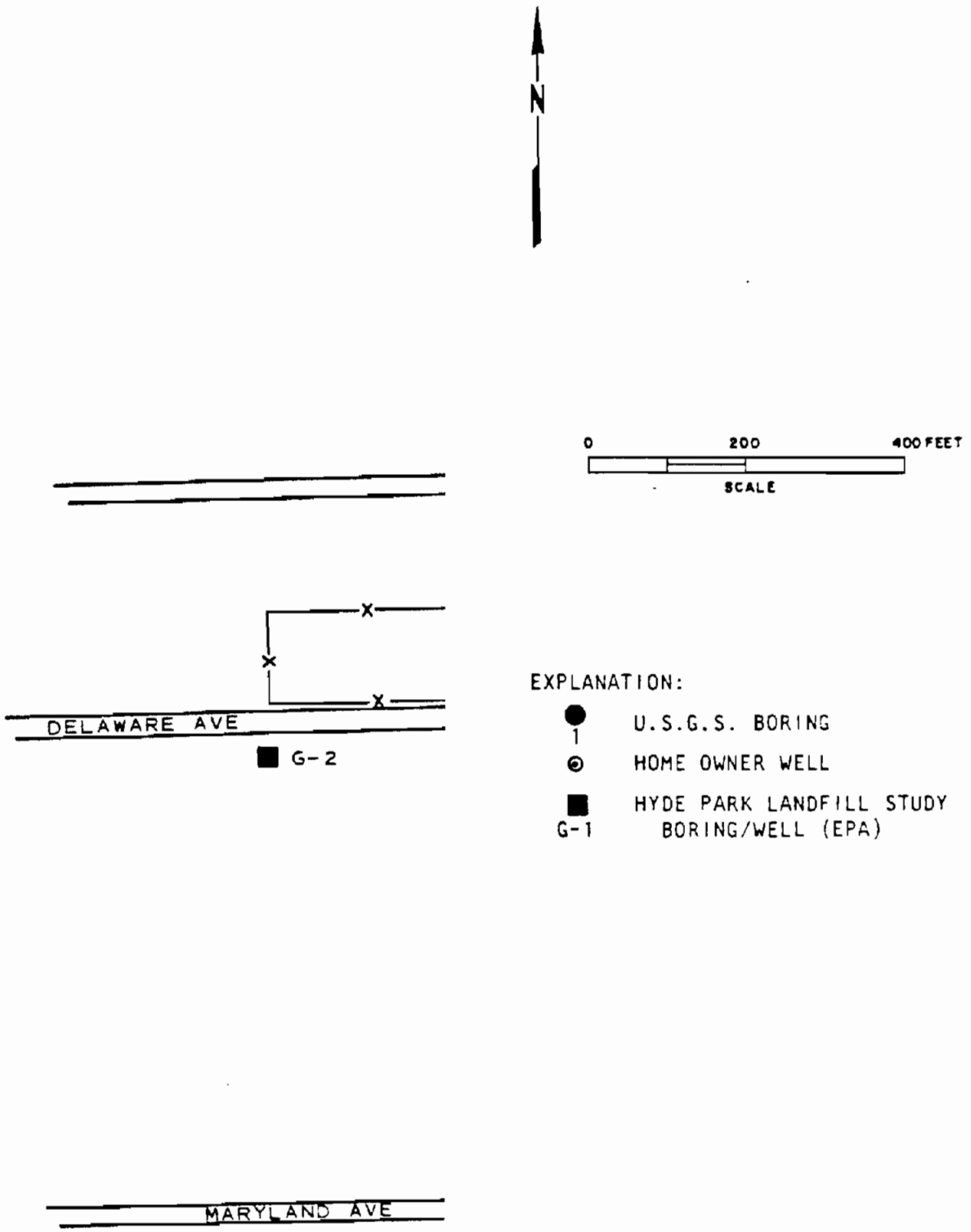
5. TARGETS

Population within one-mile radius

8,972 people (US Census Data, 1980).

Distance to critical habitat (of endangered species)

None within 1 mile (NYSDEC Region 9, Division of Fish and Wildlife, 1985).



ENGINEERING-SCIENCE, INC.
IN ASSOCIATION WITH
DAMES & MOORE

NEW YORK STATE DEPARTMENT
OF ENVIRONMENTAL CONSERVATION
PHASE I REPORT

PLOT PLAN
WITMER ROAD

FIGURE V -2

HRS REFERENCES

1. Code of Federal Regulations, Protection of Environment, No. 40, Parts 190 to 399, 1983.

2. ES and D&M Site Inspection, March/April, 1985.

3. Freeze, R. A., and Cherry, J. A., Groundwater, 1985.

4. Hopkins, M., NCHD, Personal Communication, 10/28/85.

5. Johnston, Richard H., Groundwater in the Niagara Falls Area of New York, 1964.

6. NYS Atlas of Community Water System Sources, NYS Department of Health, 1982.

7. NYSDEC, Inactive Hazardous Waste Disposal Sites Registry Sheet, 12/83.

8. NYS Museum and Science Service Bedrock Geology Map, Map and Chart Series, No. 15 (compiled by Rickard, L. V., and Fisher, D. W.).

9. NYS Museum and Science Service Bedrock Geology Map, Map and Chart Series, No. 28 (compiled by Muller, Ernest, H.), 1977.

10. Sneider, Jim and Wilkinson, Mike, NYSDEC Division of Fish and Wildlife, Personal Communication, 1/10/85 through 1/11/85.

11. US Census Data, 1980.

12. US Department of Commerce. "Climatic Atlas of the United States". 1979.

13. US Department of Commerce Technical Paper No. 40. "Rainfall Frequency Atlas of the United States". 1963.

14. USGS Topographic Maps: Niagara Falls, NY-ONT, 1980; Lewiston, NY-ONT, 1980 Quadrangles.

15. USGS, Draft Report of Preliminary Evaluation of Chemical Migration to the Niagara River from Hazardous Waste Disposal Sites in Erie and Niagara Counties, 1983.

Code of Federal Regulations

Protection of Environment

REF-1

40

PARTS 190 to 399

Revised as of July 1, 1983

CONTAINING
A CODIFICATION OF DOCUMENTS
OF GENERAL APPLICABILITY
AND FUTURE EFFECT

AS OF JULY 1, 1983

With Ancillaries

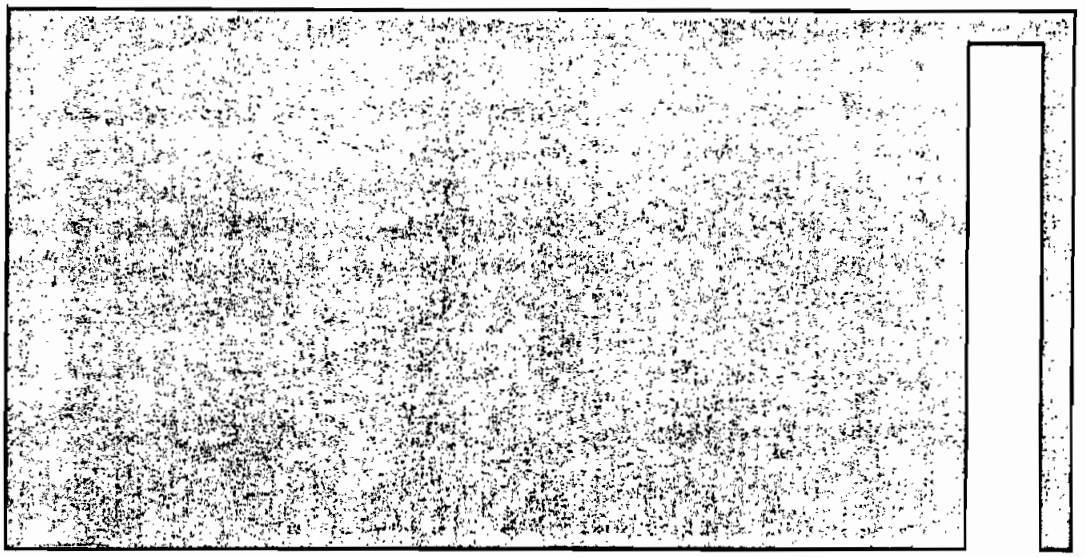
Published by
the Office of the Federal Register
National Archives and Records Service
General Services Administration

as a Special Edition of
the Federal Register

ES AND D&M SITE INSPECTION

Observations made during the ES and D&M Site Inspections are provided on US EPA Forms 2070-12 and 2070-13. Field notes were used to complete these EPA Forms, and are not included herein.

REF-3



R. Allan Freeze

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

John A. Cherry

Department of Earth Sciences
University of Waterloo
Waterloo, Ontario

GROUNDWATER

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

(Freeze, 1979)

Table 2.2 Range of Values of Hydraulic Conductivity and Permeability

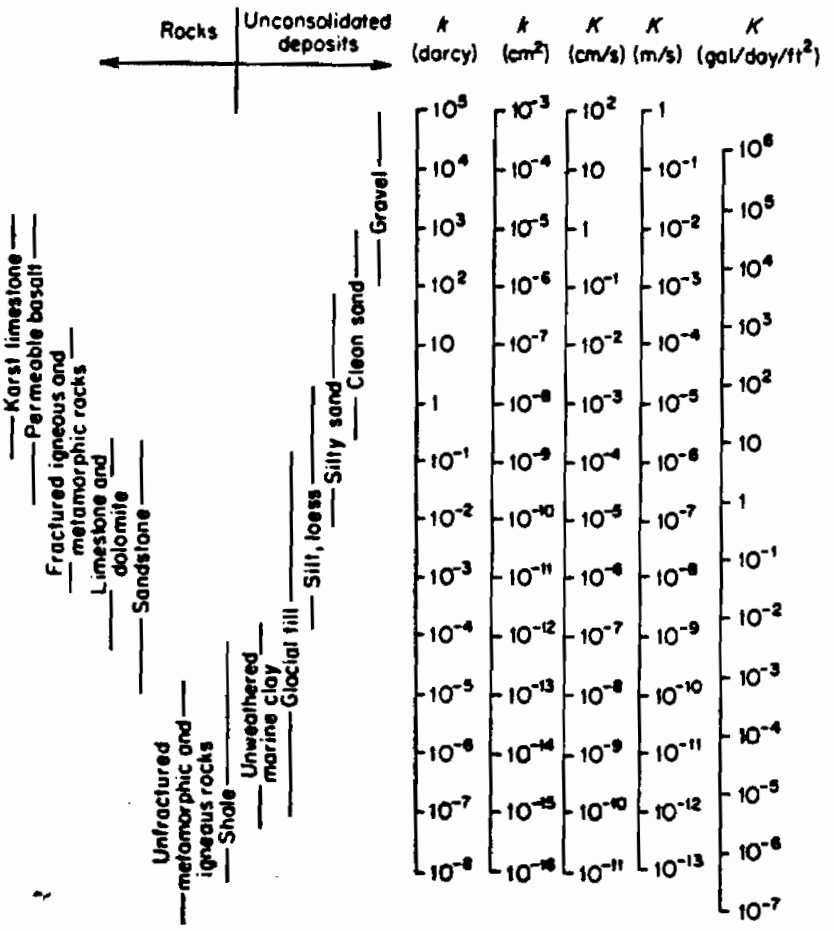


Table 2.3 Conversion Factors for Permeability and Hydraulic Conductivity Units

	Permeability, k*			Hydraulic conductivity, K		
	cm^2	ft^2	darcy	m/s	ft/s	U.S. gal/day/ft^2
cm^2	1	1.08×10^{-3}	1.01×10^{8}	9.80×10^{2}	3.22×10^{3}	1.85×10^{9}
ft^2	9.29×10^{2}	1	9.42×10^{10}	9.11×10^{5}	2.99×10^{6}	1.71×10^{12}
darcy	9.87×10^{-9}	1.06×10^{-11}	1	9.66×10^{-6}	3.17×10^{-5}	1.82×10^{1}
m/s	1.02×10^{-3}	1.10×10^{-6}	1.04×10^{5}	1	3.28	2.12×10^{6}
ft/s	3.11×10^{-4}	3.35×10^{-7}	3.15×10^{4}	3.05×10^{-1}	1	6.46×10^{5}
U.S. gal/day/ft^2	5.42×10^{-10}	5.83×10^{-13}	5.49×10^{-2}	4.72×10^{-7}	1.55×10^{-6}	1

*To obtain k in ft^2, multiply k in cm^2 by 1.08×10^{-3}.

REF-4

INTERVIEW FORM

INTERVIEWEE/CODE Mike Hopkins /

TITLE - POSITION Niagara County Department of Health

ADDRESS 10th St

CITY Niagara Falls STATE NY ZIP

PHONE (716) 284-3124 RESIDENCE PERIOD TO

LOCATION phone conversation INTERVIEWER Lisa A. Ryan

DATE/TIME 10/28/85 @ 11:20 AM

SUBJECT: Use of groundwater in Niagara County

REMARKS: Mr Hopkins provided the following information:
- There is only one industrial well within the limits of Niagara Falls that has a private water well. This company is Olen Chemical on Buffalo Ave, and the water is used for cooling purposes. (Olen Chemical employs ~200 people)
- There are 3 residences with private wells in Niagara Falls and all are within ½ mile of the Witmer Rd Site. At least one of the wells was dug rather than drilled. Municipal water is available to these residences if they choose to hook up to it.

I AGREE WITH THE ABOVE SUMMARY OF THE INTERVIEW:

SIGNATURE

COMMENTS:

GROUND WATER IN THE NIAGARA FALLS AREA, NEW YORK

With Emphasis on the Water-Bearing Characteristics of the Bedrock

BY

RICHARD H. JOHNSTON

GEOLOGIST

U.S. GEOLOGICAL SURVEY

STATE OF NEW YORK

CONSERVATION DEPARTMENT

WATER RESOURCES COMMISSION

BULLETIN GW-53

1964

New York State Atlas of Community Water System Sources

1982

NEW YORK STATE
DEPARTMENT OF HEALTH

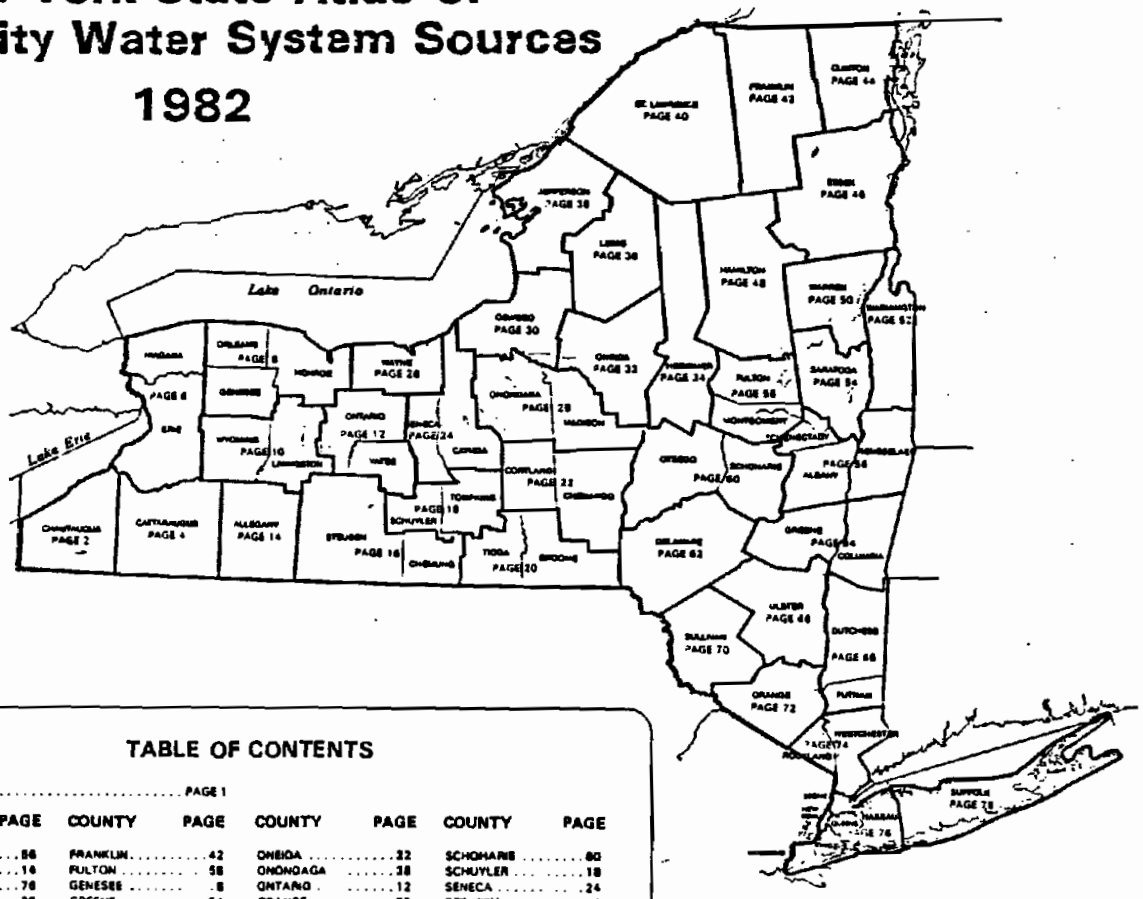


TABLE OF CONTENTS

LEGEND

BOUNDARIES AND PLACES

International
State
County
Town
Indian Reservation
City
Village
Unincorporated Place
Federal Reservation
Built-up Area (Over 25,000 population including any contiguous city or village)

CLASSIFICATION OF POPULATED PLACES

100,000 or more ..... YONKERS
50,000 to 100,000 ..... Levittown
12,500 to 50,000 ..... Poughkeepsie
2,500 to 12,500 ..... Harriman Bays
250 to 2,500 .....
250 or less .....

TRANSPORTATION

Highways
Divided Highways
Full Control of Access
Partial or No Control of Access
Undivided Highway
Interchange
Touring Route (State, U.S., Interstate or State Parkway)
Touring Route Markers
State U.S. Interstate

Railroads
Operating Line
Service Discontinued
Operator
Owner (If Other than Operator)
Company Having Trackage Rights

Airports (Open to the Public, Military)
Runway under 4000'
Runway over 4000'

Rest Areas
Food, Gas, Rest Rooms
Rest Rooms
Gas, Rest Rooms
Parking Only

RECREATION FACILITIES

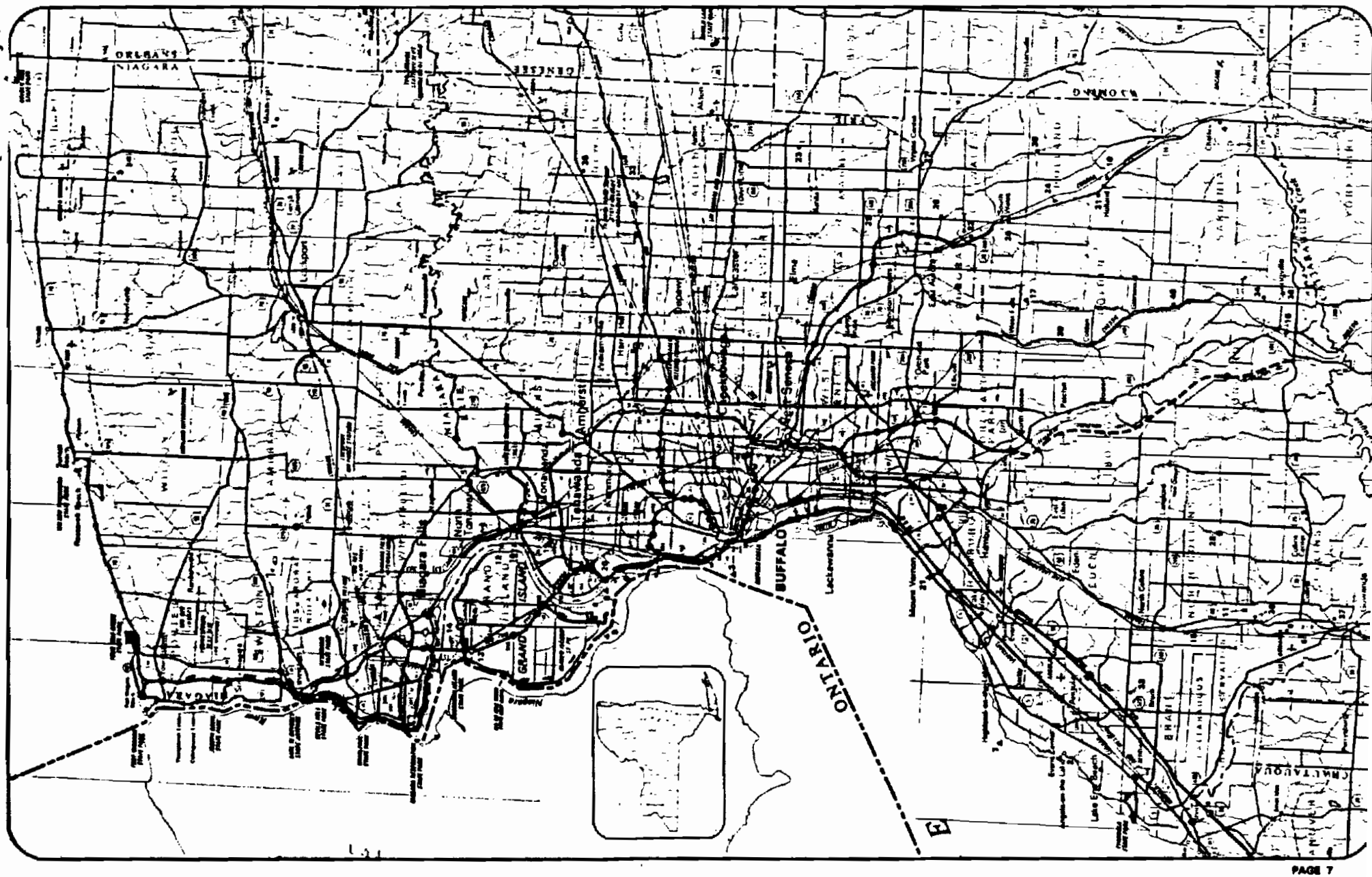
State or National Recreation Area
State Campground
State Boat Launching Site
State Canal Park
State Fish Hatchery
Other State Recreation Site

(NYS DOH, 1982)

LOCATION OF COMMUNITY WATER SYSTEM SOURCES-1982

NEW YORK STATE DEPARTMENT OF HEALTH
DIVISION OF ENVIRONMENTAL PROTECTION
BUREAU OF PUBLIC WATER SUPPLY PROTECTION

ERIE and NIAGARA COUNTIES



ERIE COUNTY

ID NO	COMMUNITY WATER SYSTEM	POPULATION	SOURCE
Municipal Community			
	Akron Village (See No 1 Wyoming Co, Page 10).	3640	
1	Alden Village.	3460.	.Wells
2	Angola Village.	8500.	.Lake Erie
3	Buffalo City Division of Water.	357870.	.Lake Erie
4	Coffee Water Company.	210.	.Wells
5	Collins Water District #1.	784.	.Wells
6	Collins Water Districts #1 and #2.	1384.	.Wells
7	Erie County Water Authority (Sturgeon Point Intake).	375000.	.Lake Erie
8	Erie County Water Authority (Van DeWater Intake).	NA.	.Niagara River - East Branch
9	Grand Island Water District #2.	9390.	.Niagara River
10	Holland Water District.	1670.	.Wells
11	Lawtons Water Company.	138.	.Wells
12	Lockport City (Niagara Co).		.Niagara River - East Branch
13	Niagara County Water District (Niagara Co).		.Niagara River - West Branch
14	Niagara Falls City (Niagara Co).		.Niagara River - West Branch
15	North Collins Village.	1500.	.Wells
16	North Tonawanda City (Niagara Co).		.Niagara River - West Branch
17	Orchard Park Village.	3671.	.Pipe Creek Reservoir
18	Springville Village.	1169.	.Wells
19	Tonawanda City.	18538.	.Niagara River - East Branch
20	Tonawanda Water District #1.	91269.	.Niagara River
21	Wanakah Water Company.	10750.	.Lake Erie
Non-Municipal Community			
22	Aurora Mobile Park.	125.	.Wells
23	Bush Gardens Mobile Home Park.	270.	.Wells
24	Circle 8 Trailer Court.	50.	.Wells
25	Circle Court Mobile Park.	125.	.Wells
26	Creekside Mobile Home Park.	120.	.Wells
27	Donnelly's Mobile Home Court.	99.	.Wells
28	Gowanda State Hospital.	NA.	.Clear Lake
29	Hillside Estates.	160.	.Wells
30	Hunters Creek Mobile Home Park.	150.	.Wells
31	Knox Apartments.	NA.	.Wells
32	Maple Grove Trailer Court.	72.	.Wells
33	Millgrove Mobile Park.	100.	.Wells
34	Perkins Trailer Park.	75.	.Wells
35	Quarry Hill Estates.	400.	.Wells
36	Springville Mobile Park.	114.	.Wells
37	Springwood Mobile Village.	132.	.Wells
38	Taylors Grove Trailer Park.	39.	.Wells
39	Valley View Mobile Court.	62.	.Wells
40	Villager Apartments.	NA.	.Wells

NIAGARA COUNTY

ID NO	COMMUNITY WATER SYSTEM	POPULATION	SOURCE
Municipal Community			
	Lockport City (See No 12, Erie Co).	25000	
1	Middleport Village.	2000.	.Wells (Springs)
	Niagara County Water District (See No 13, Erie Co).	48	
2	Niagara Falls City (See also No 14 Erie Co).	77384.	.Niagara River - East Branch
	North Tonawanda City (See No 16 Erie Co).	36000	
Non-Municipal Community			
3	Country Estates Mobile Village.	28.	.Wells

(NYSDOH, 1982)

(47-15-11 (10/83)

(NYSDEC, 1983)

REF-7

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

DIVISION OF SOLID AND HAZARDOUS WASTE

INACTIVE HAZARDOUS WASTE DISPOSAL SITE REPORT

PRIORITY CODE: 2a SITE CODE: 932027

NAME OF SITE: Witmer Road Site REGION: 9

STREET ADDRESS: Witmer Road at Maryland Avenue

TOWN/CITY: Niagara COUNTY: Niagara

NAME OF CURRENT OWNER OF SITE: Adolph Kachinoski

ADDRESS OF CURRENT OWNER OF SITE: 4800 Witmer Road, Niagara Falls, NY 14305

TYPE OF SITE: OPEN DUMP [X] STRUCTURE [ ] LAGOON [ ]
LANDFILL [ ] TREATMENT POND [ ]

ESTIMATED SIZE: _____ ACRES

SITE DESCRIPTION:

Site was used as a dump for incombustibles and large refuse items. City of Niagara Falls used the site for open burning. Also lime cleanouts from process vessels at ISCO (now International Mineral and Chemical) were reportedly dumped here. Currently the site is used for a scrap year and as an easement for high voltage towers of Niagara Mohawk. Two subsurface soil samples were collected from the site by U.S.G.S. in August of 1982 and May 1983. Samples were analyzed for Ni, Fe, Cu and organics.

HAZARDOUS WASTE DISPOSED: CONFIRMED [ ] SUSPECTED [X]

TYPE AND QUANTITY OF HAZARDOUS WASTES DISPOSED:

TYPE	QUANTITY (POUNDS, DRUMS, TONS, GALLONS)
Incinerator residue	Unknown
Lime form Process vessels	
General refuse	

(NYSDEC, 1983)

TIME PERIOD SITE WAS USED FOR HAZARDOUS WASTE DISPOSAL:

_____, 19 40's TO _____, 19 60's

OWNER(S) DURING PERIOD OF USE: Unknown

SITE OPERATOR DURING PERIOD OF USE: City of Niagara Falls

ADDRESS OF SITE OPERATOR: City Hall, Main Street, Niagara Falls, NY 14305

ANALYTICAL DATA AVAILABLE: AIR ☐ SURFACE WATER ☐ GROUNDWATER ☐
SOIL ☐ SEDIMENT ☐ NONE ☐

CONTRAVENTION OF STANDARDS: GROUNDWATER ☐ DRINKING WATER ☐
SURFACE WATER ☐ AIR ☐

SOIL TYPE: Sandy clay

DEPTH TO GROUNDWATER TABLE: Unknown

LEGAL ACTION: TYPE: None STATE ☐ FEDERAL ☐
STATUS: IN PROGRESS ☐ COMPLETED ☐

REMEDIAL ACTION: PROPOSED ☐ UNDER DESIGN ☐
IN PROGRESS ☐ COMPLETED ☐

NATURE OF ACTION: None

ASSESSMENT OF ENVIRONMENTAL PROBLEMS:

Results of the organic analysis are not yet available. Existing information does not indicate the presence of Environmental problems at the site.

ASSESSMENT OF HEALTH PROBLEMS:

[illegible]

PERSON(S) COMPLETING THIS FORM:

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

NAME P. Bucchi
TITLE Asso. Sanitary Engr.
NAME A. Tayyebi
TITLE Asst. Sanitary Engr.
DATE: November 21, 1983

NEW YORK STATE DEPARTMENT OF HEALTH

NAME R. Tramontano
TITLE Bur. Tox. Subst. Assess.
NAME
TITLE
DATE: 12/83

GEOLOGIC MAP OF NEW YORK

1970

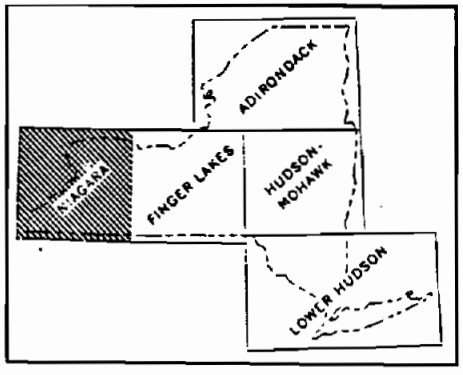
Niagara Sheet

Scale 1:250,000

5 0 5 10 15 Statute Miles 20

5 0 5 10 15 20 25 Kilometers 30

CONTOUR INTERVAL 100 FEET



Topographic Base from AMS Quadrangles 1:250,000 scale.

NEW YORK STATE MUSEUM AND SCIENCE SERVICE

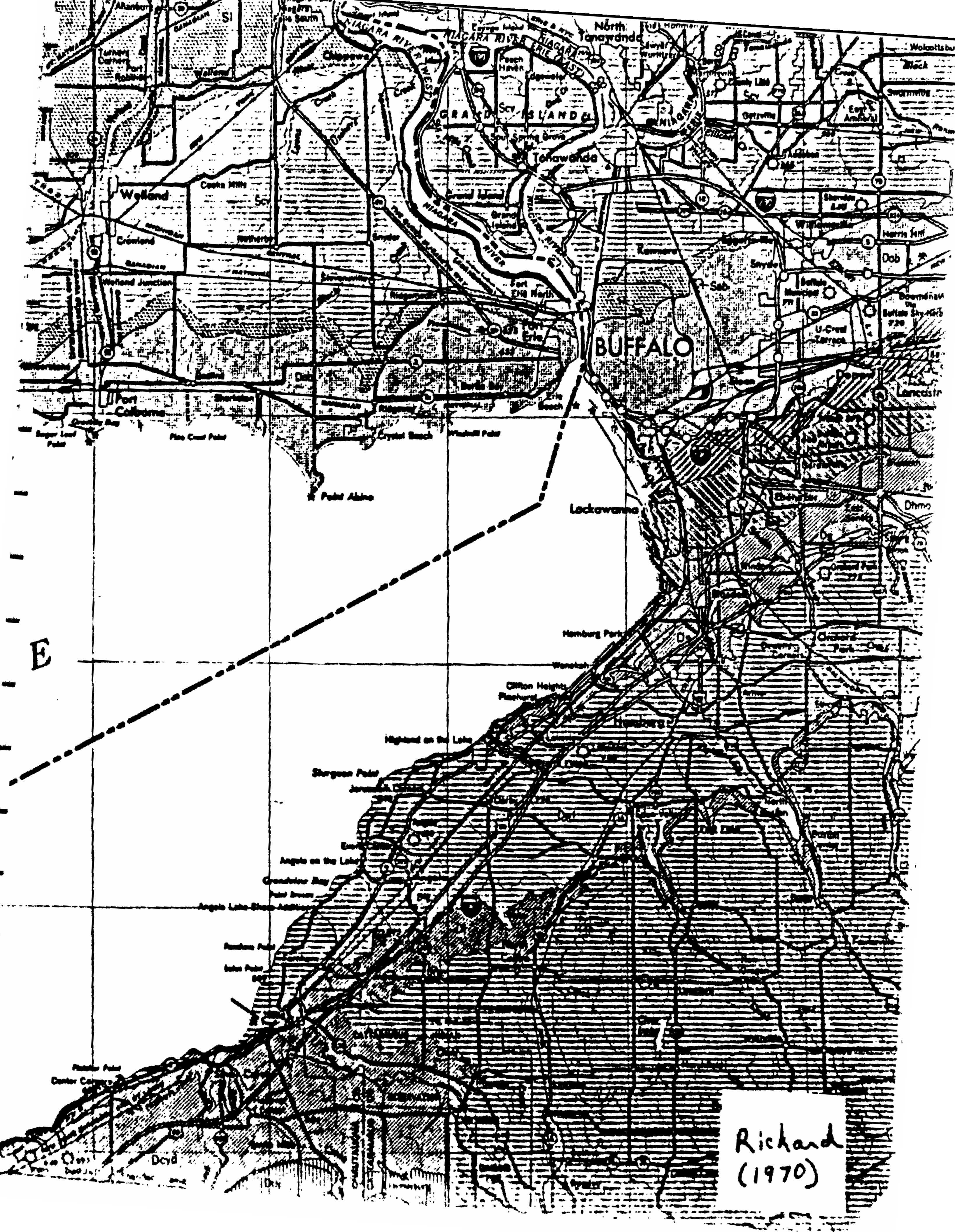
MAP AND CHART SERIES NO. 15

COMPILED AND EDITED BY

Lawrence V. Rickard
Donald W. Fisher

March, 1970

REF-8

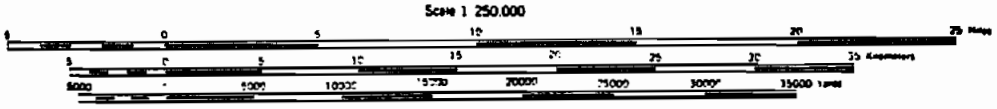


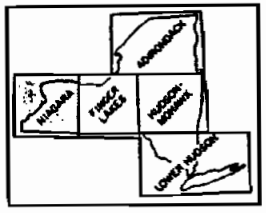
Richard (1970)

QUATERNARY GEOLOGY OF NEW YORK, NIAGARA SHEET

by Ernest H. Muller

Muller, Ernest H. (1977)
New York State Museum and Science Service
Map and Chart Series Number 28





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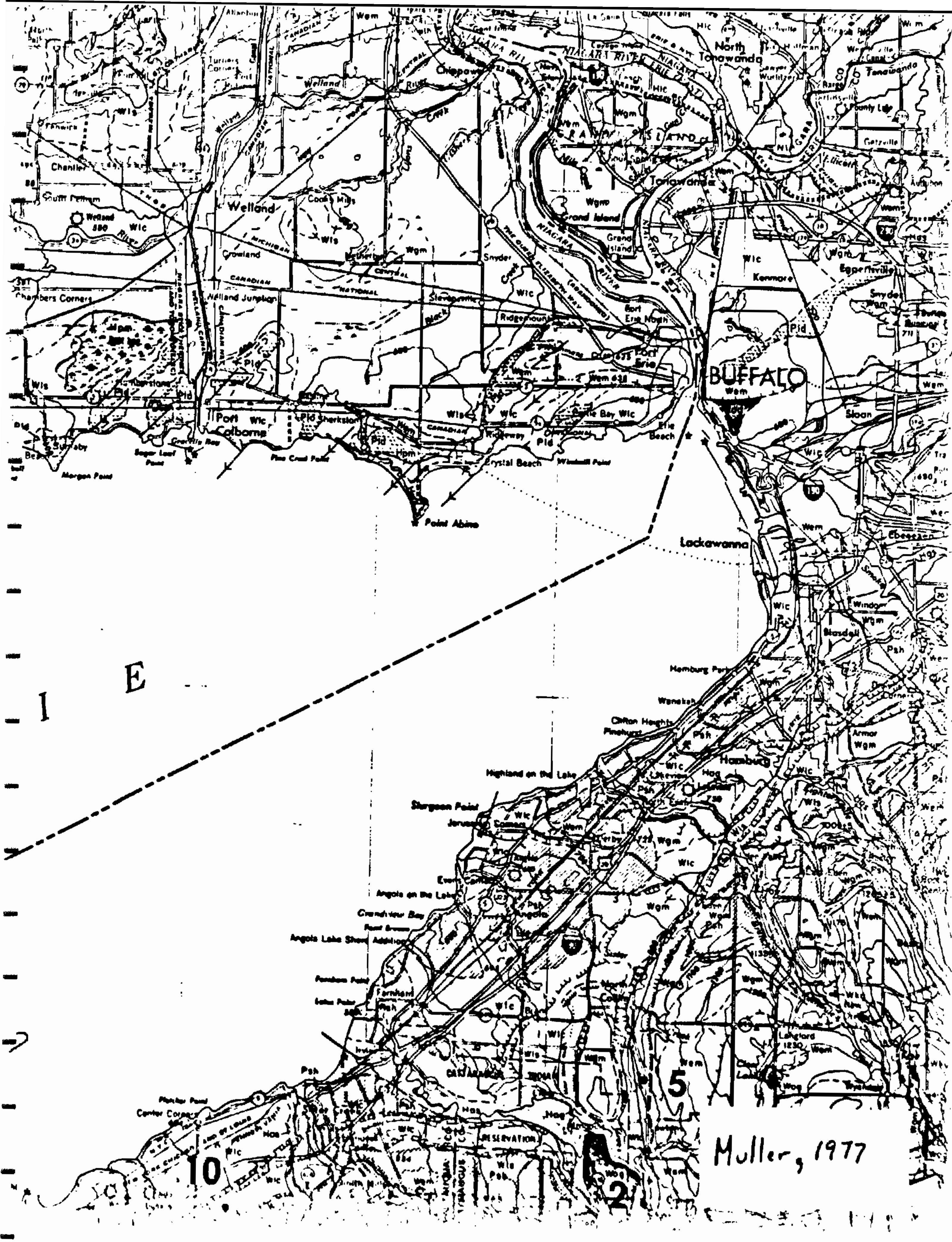

North Tonawanda
Tonawanda
Grand Island
Chippawa
Welland
Crowland
Chambers Corners
Welland Junction
Port Colborne
Sherkston
Ridgeway
Crystal Beach
Point Abino
Stevensville
Ridgemount
Fort Erie
Fort Erie North
Erie Beach
BUFFALO
Kenmore
Sloan
Lackawanna
Blasdell
Hamburg Park
Woneta
Clifton Heights
Pinehurst
Hamburg
Highland on the Lake
Sturgeon Point
Angola on the Lake
Angola Lake Shore Addition
Farnham
Center Corners
Lakeview
Snyder
Getzville
Eggertsville
Ebenezer
Armor
E
I
10
5
2
Muller, 1977

REF-10 5

INTERVIEW FORM

INTERVIEWEE/CODE Jim Snyder, Mike Wilkenson /
TITLE - POSITION NYSDEC, Div of Fish & Wildlife /
ADDRESS Delaware Ave.
CITY Buffalo STATE NY ZIP
PHONE ( ) . RESIDENCE PERIOD TO
LOCATION in DEC office INTERVIEWER Eileen Hilligan
DATE/TIME 1/10/85 & 1/11/85 /
SUBJECT: Phase I site information

REMARKS: The above-named interviewees provided us with the following information regarding our Phase I site. (see attached list)

1) Wetlands in Niagara Co. & proximity to sites
2) Types of fish & wildlife in Erie/Niagara area
3) Use by fish & wildlife of Niagara River & tributaries
4) Sensitive environments & proposed wetlands in the Erie/Niagara area
- No critical habitats or wetlands are located within one mile of the Witmer Road Site.

I AGREE WITH THE ABOVE SUMMARY OF THE INTERVIEW:

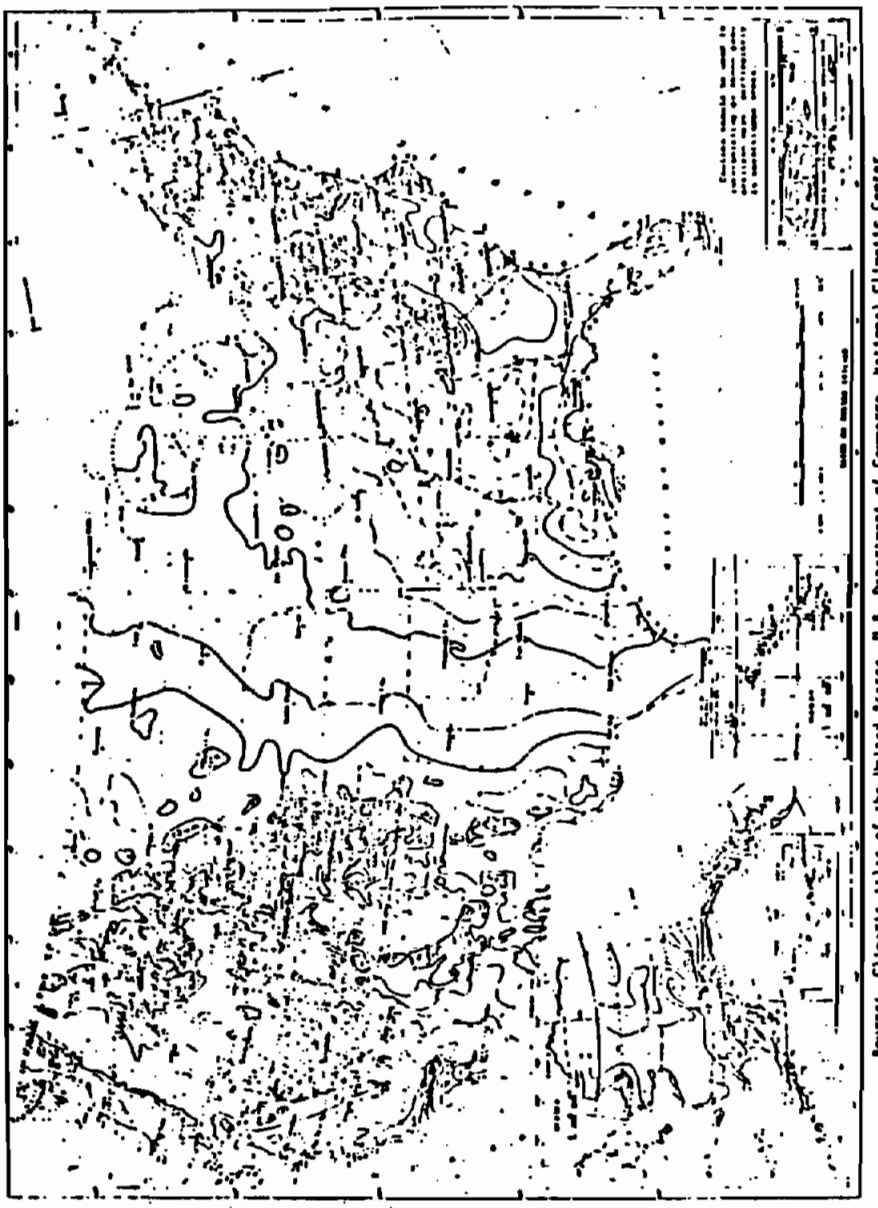
SIGNATURE: James R. Pauley - Fr. Wildlife Biologist
Michael A. Wilkinson - Conservation Biologist (Ag Bur)

COMMENTS: No discussion of wetland / wildlife regarding Mine Landfill site - referred to Glenn Cieffi /

US CENSUS DATA, 1980

US Census Data used in the HRS scoring was obtained from various County Planning Offices. This data was not obtained from a report. The raw census data combined with County Planning Maps was used to estimate the population within 1, 2, 3, and 4 miles of the Phase I site being investigated. Because of the voluminous amount of data used, the data is not provided in this Appendix.

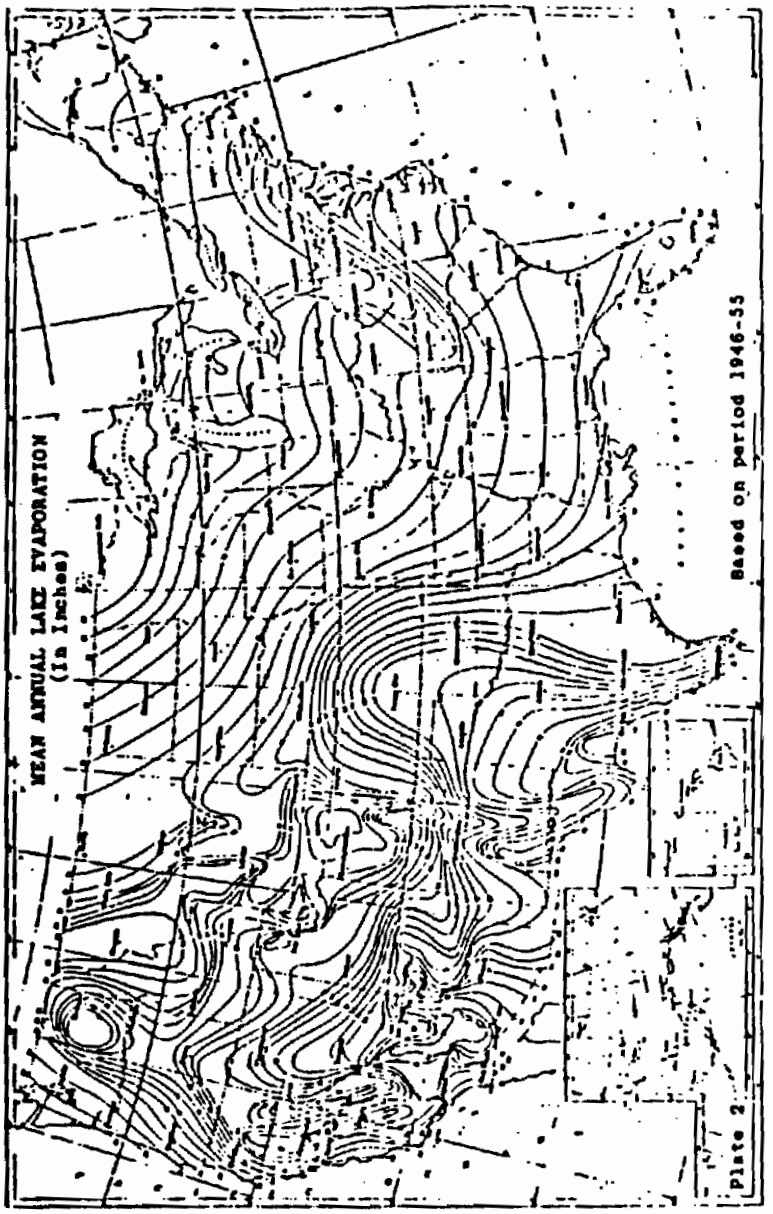
REF-1:



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

Figure 5
Normal Annual Total Precipitation (inches)

USDOC, "Climatic Atlas of the United States," 1979



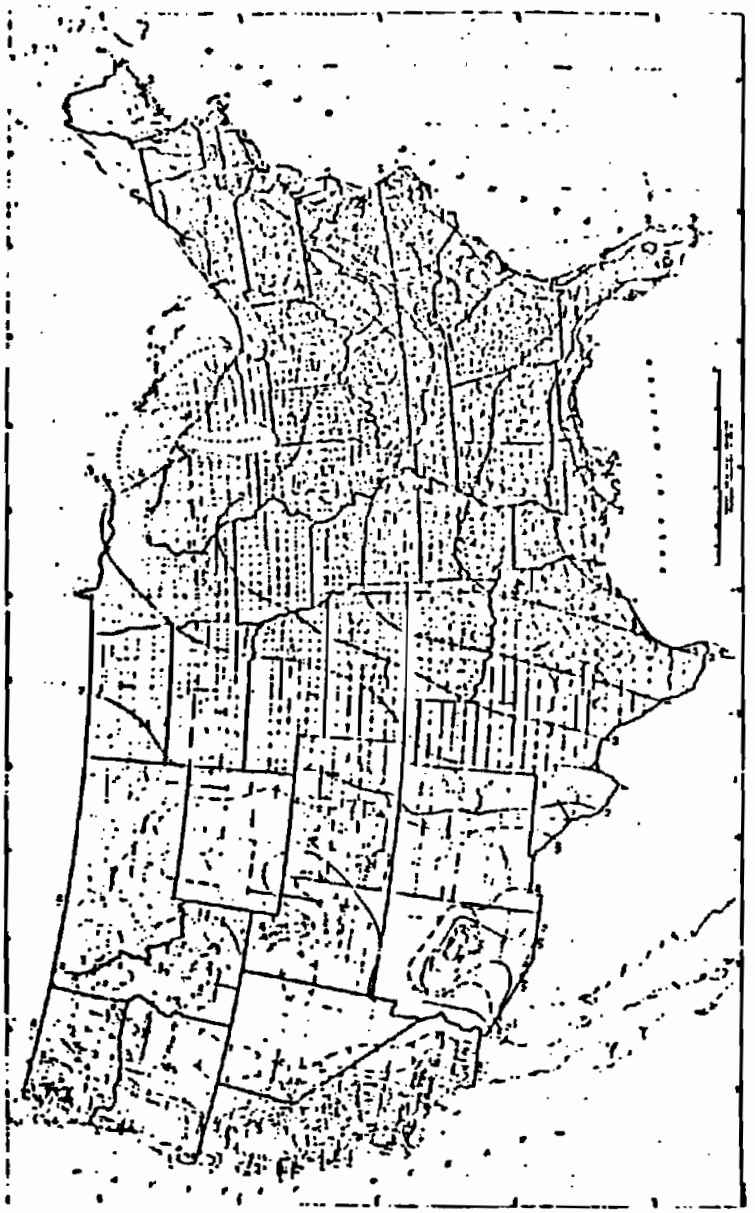
Source: Climatic Atlas of the United States, U.S. Department of Commerce, National Climatic Center, Ashville, N.C., 1979.

Figure 4

Mean Annual Lake Evaporation (In Inches)

USDOC, "Climatic Atlas of the United States", 1979

REF-13.

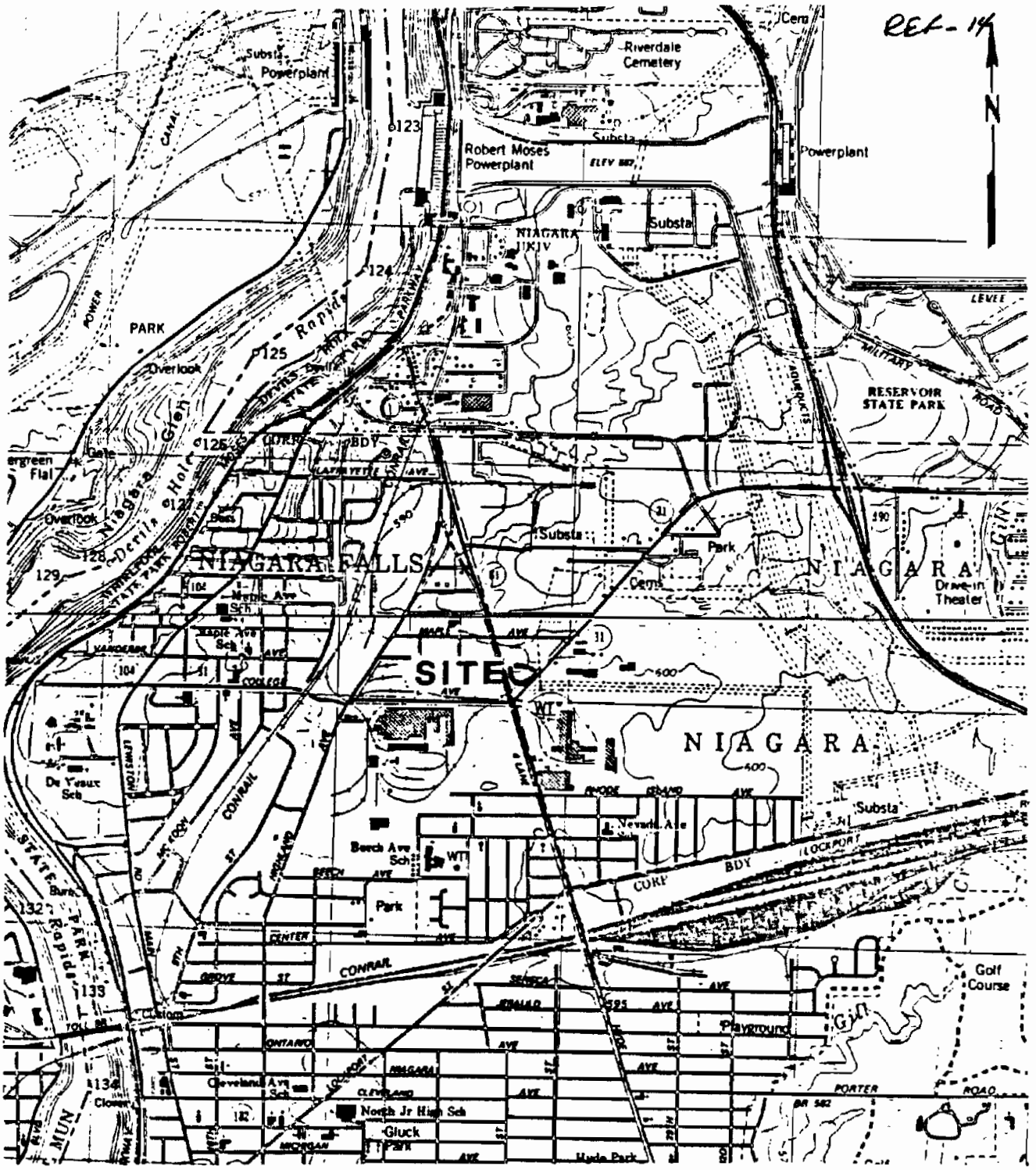


Source: Rainfall Frequency Atlas of the United States, Technical Paper No. 40, U.S. Department of Commerce, U.S. Government Printing Office, Washington, D.C., 1963.

Figure 8

1-Year 24-Hour Rainfall (Inches)

USDOC, "Rainfall Frequency Atlas of the United States," 1963



REFERENCE: U.S.G.S. 7.5' Topographic Map
Niagara Falls, NY-ONT. (1980) and
Lewiston, NY-ONT (1980) Quadrangles

ENGINEERING-SCIENCE, INC.
IN ASSOCIATION WITH
DAMES & MOORE

NEW YORK STATE DEPARTMENT
OF ENVIRONMENTAL CONSERVATION
PHASE I REPORT

SITE LOCATION MAP
WITMER ROAD

FIGURE IV-1

Witmer (USGS Study draft, 1983)

90. WITMER ROAD SITE #932027

REF-15

General information and chemical-migration potential

The Witmer Road site is located in the town of Niagara and is shown on plate 3.

The site contains an unknown quantity of incinerator residue from open burning. The site is presently occupied by a scrapyard.

The potential for contaminant migration is probably minimal, but additonal field work and sampling would be needed to confirm this.

Geologic Information

The U.S. Geological Survey drilled two test borings on the site in 1982; the locations are shown in fig. ____. The geologic logs are as follows:

Borehole No.	Depth (ft)	Description
1	0 - 6.5	Black topsoil, reddish, sand clay at bottom. NOTE: Tried split spoon with hydraulic, got in at at 1 ft.
	6.5 - 7.1	Clay, sandy, reddish.
	7.0 - 8.7	Split spoon - sand, red, some yellow particles, ashes.
	8.7 - 9.0	Split spoon--Sand, red, some yellow particles, ashes bit ex at 9.0 ft. SAMPLE: 7.0 ft.
2	0 - 4.0	Topsoil.
	4.0 - 7.5	Limestone (dolomite), light gray, mealy ash.
	7.5 - 10.0	Sand, reddish, clayey. SAMPLE: 6.5 ft.

Hydrologic information

No ground water was encountered; it is probably confined to the fractured bedrock.

(USGS, 1983)

Chemical information

Two soil samples were collected and analyzed for copper, iron, mercury, and organic compound. The results are given in table___. The concentration of copper in sample 2 exceeded concentrations from undisturbed sites not effected by waste-disposal practices. There were seven organic priority pollutants found, most at concentrations below 25 ug/Kg. There were five organic nonpriority pollutants and some unknown hydrocarbons found.

(USGS, 1983)

Table . --Analyses of substrate samples from Witmer Road, site 90, Niagara Falls, N.Y. (Locations shown in fig. . Concentrations are in g/Kg; dashes indicate that constituent or compound was not found, LT indicates it was found but below the quantifiable detection limit.)

	Sample number and depth below land surface (ft)	
	1	2
First sampling (06-29-82)		6.5
Inorganic constituents		
Copper	2,000	28,000†
Iron	1,200,000	1,400,000
Mercury	--	--

	Sample number	
Second sampling (05-25-83)	1A	2A
Inorganic constituent		
Molecular sulfur[1]	--	450
Organic compounds		
Priority pollutants		
Benzene	--	9.8
1,1,1-Trichloroethane	22.9**	--
Trichloroethene	LT	--
Fluoranthene	LT*	--
Naphthalene	LT*	--
Bis(2-ethylhexl)phthalate	*104**	--
Pyrene	LT*	--
Nonpriority pollutents		
Carbondisulfide	--	38.4
Dibenzofuran	LT*	--
2-Methylnaphthalene	LT*	--
2-Octadecanol[1]	--	630*
2-Methyl(s)-1-dodecanol[1]	--	1,300*
Unknown hydrocarbons[1]	16,750*	4,160*

[1] Tentative identification based on comparison with the National Bureau of Standards (NBS) library. No external standard was available. Concentration reported is semiquantitative and is based only on an internal standard. GC/MS spectra were examined and interpreted by GC/MS analysts.

† Exceeds concentrations in samples taken from undisturbed soils in the Niagara Falls area.

* Holding time exceeded before GC/MC acid- and base-neutral extractable compounds were extracted.

** Surrogate recoveries were above or below the acceptance limit.

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 1 - SITE INFORMATION AND ASSESSMENT

EPA

I. IDENTIFICATION
01 STATE: NY | 02 SITE NUMBER: D[illegible]

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER
Witmer Road Site	Witmer Road at Maryland Ave

03 CITY	04 STATE	05 ZIP CODE	06 COUNTY	07 COUNTY CODE	08 CONG DIST
Niagara Falls	NY		Niagara	063	36

09 COORDINATES LATITUDE	LONGITUDE
43° 07' 19"	79° 02' 41"

10 DIRECTIONS TO SITE (Starting from nearest public road)
The site is located between Delaware and Maryland Avenues on Witmer Road, Niagarafalls.

III. RESPONSIBLE PARTIES

01 OWNER (If known)	02 STREET (Business, mailing, residential)
Kachi Scrap Yard	4737 Chester Ave

03 CITY	04 STATE	05 ZIP CODE	06 TELEPHONE NUMBER
Niagara Falls	NY	14305	( )

07 OPERATOR (If known and different from owner)	08 STREET (Business, mailing, residential)

09 CITY	10 STATE	11 ZIP CODE	12 TELEPHONE NUMBER
			( )

13 TYPE OF OWNERSHIP (Check one)
☒ A. PRIVATE ☐ B. FEDERAL: _____ (Agency name) ☐ C. STATE ☐ D. COUNTY ☐ E. MUNICIPAL
☐ F. OTHER: _____ (Specify) ☐ G. UNKNOWN

14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply)
☐ A. RCRA 3001 DATE RECEIVED: ___/___/___ (MONTH DAY YEAR) ☐ B. UNCONTROLLED WASTE SITE (CERCLA 103 c) DATE RECEIVED: ___/___/___ (MONTH DAY YEAR) ☒ C. NONE

IV. CHARACTERIZATION OF POTENTIAL HAZARD

01 ON SITE INSPECTION
☒ YES DATE 11 / 13 / 80 (MONTH DAY YEAR) ☐ NO

BY (Check all that apply)
☒ A. EPA ☐ B. EPA CONTRACTOR ☐ C. STATE ☐ D. OTHER CONTRACTOR
☒ E. LOCAL HEALTH OFFICIAL ☐ F. OTHER: _____ (Specify)
CONTRACTOR NAME(S): _____

02 SITE STATUS (Check one)
☒ A. ACTIVE ☐ B. INACTIVE ☐ C. UNKNOWN

03 YEARS OF OPERATION
1940's (BEGINNING YEAR) | present (ENDING YEAR) ☐ UNKNOWN

04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED
Unknown quantities of burned refuse ash, suspected slag and lime cleanouts from air pollution equipment possibly containing cadmium. Also miscellaneous wastes including construction debris and automobiles

05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION
Potential hazard to groundwater, surface waters and soils from priority organics found in boring soil samples (USGS, 1983)

V. PRIORITY ASSESSMENT

01 PRIORITY FOR INSPECTION (Check one. If high or medium is checked, complete Part 3 - Waste Information and Part 3 - Description of Hazardous Conditions and Incidents)
☐ A. HIGH (Inspection required promptly) ☒ B. MEDIUM (Inspection required) ☐ C. LOW (Inspect on time available basis) ☐ D. NONE (No further action needed, complete current disposition form)

VI. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)	03 TELEPHONE NUMBER
Robert Steele	Engineering Science (ES)	(703) 591-7575

04 PERSON RESPONSIBLE FOR ASSESSMENT	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NUMBER	08 DATE
John A. Botts	ES		( ) same	4 / 19 / 85 (MONTH DAY YEAR)

EPA FORM 2070-12 (7-81)

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NY	0980509459

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

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

02 WASTE QUANTITY AT SITE (Measures of waste quantities must be independent)

- TONS: Unknown
- CUBIC YARDS: _____
- NO. OF DRUMS: _____

03 WASTE CHARACTERISTICS (Check all that apply)

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

UNKNOWN

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE			• unknown quantities of
OLW	OILY WASTE			burned refuse ash, suspected
SOL	SOLVENTS			slag and lime cleanout
PSD	PESTICIDES			possibly containing chromium
OCC	OTHER ORGANIC CHEMICALS	unknown		• 7 priority and 5 nonpriority
IOC	INORGANIC CHEMICALS			organics in soil
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS	Suspected		• chromium in cleanout waste

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

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
OCC	Benzene	71-43-2	Unknown	8.8	ug/kg
OCC	1,1,1 Trichloroethane	71-55-6	"	22.9 **	"
OCC	Trichloroethene	79-01-6	"	detectable	
OCC	fluoranthene	206-44-0	"	detectable	"
OCC	Naphthalene	91-20-3	"	detectable	"
OCC	Bis(2-ethylhexl) phthalate	117-81-7	"	*104 **	"
OCC	Pyrene	129-0-00	"	detectable	"
OCC	Carbon disulfide	75-15-0	"	38.4	"
OCC	2-Methylnaphthalene	91-57-6	"	detectable	"
OCC	Dibenzofuran	48647-99-0	"	detectable	"
MES	chromium (suspected)	7440-47-3	"		
MES	copper	7440-50-8	"	2.0 - 28.0	mg/K
	* holding time exceeded before analysis				
	** surrogate recoveries were above or below acceptance				
	limits				

V. FEEDSTOCKS (See Appendix for CAS Numbers)

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

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

1. Niagara County Health Dept. Site Profile Report, 3/82
2. ES and D&M site inspection, 3/26/85
3. USGS Draft Report, 1983

EPA

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NY	D980509459

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 [X] A. GROUNDWATER CONTAMINATION — 02 ☐ OBSERVED (DATE: _____) — [X] POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

Unlined pit may allow contaminants to migrate to groundwater.

01 [X] B. SURFACE WATER CONTAMINATION — 02 ☐ OBSERVED (DATE: _____) — [X] POTENTIAL — ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

Potential runoff from contaminated soils

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

NO

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

NO

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

NO

01 [X] F. CONTAMINATION OF SOIL — 02 ☐ OBSERVED (DATE: 1983) — [X] POTENTIAL — ☐ ALLEGED
03 AREA POTENTIALLY AFFECTED: _____ (Acres) — 04 NARRATIVE DESCRIPTION

Due to migration of contaminants
USGS Draft Report, 1983

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

UNKnown

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

UNKNOWN

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

UNKnown

EPA

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

I. IDENTIFICATION
01 STATE: NY | 02 SITE NUMBER: 0980509459

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

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

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

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

01 ☐ M. UNSTABLE CONTAINMENT OF WASTES (Spills/Runoff/Standing liquids, Leaking drums) — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION
residents adjacent to the site who use wells for portable water supply

01 ☐ N. DAMAGE TO OFFSITE PROPERTY — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
NONE

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
NONE

01 ☐ P. ILLEGAL/UNAUTHORIZED DUMPING — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
Site is used for scavenger dumping

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS
Industrial wastes suspected to have been disposed on-site. Surface water and groundwater may be contaminated by wastes on-site

III. TOTAL POPULATION POTENTIALLY AFFECTED: [illegible]

IV. COMMENTS

V. SOURCES OF INFORMATION (Cite specific references, e. g., state files, sample analysis, reports)
ES and DEM site inspection, 3/26/85

EPA FORM 2070-13 (7-81)

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 1 - SITE LOCATION AND INSPECTION INFORMATION

EPA

I. IDENTIFICATION
01 STATE: NY | 02 SITE NUMBER: 098509459

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER
WITMER ROAD SITE	Witmer Road at Maryland Ave

03 CITY	04 STATE	05 ZIP CODE	06 COUNTY	07 COUNTY CODE	08 CONG DIST
NIAGARA	NY		Niagara	063	36

09 COORDINATES: LATITUDE 43° 07' 19" | LONGITUDE 79° 02' 41"

10 TYPE OF OWNERSHIP (Check one): ☒ A. PRIVATE ☐ B. FEDERAL _____ ☐ C. STATE ☐ D. COUNTY ☐ E. MUNICIPAL ☐ F. OTHER _____ ☐ G. UNKNOWN

III. INSPECTION INFORMATION

01 DATE OF INSPECTION	02 SITE STATUS	03 YEARS OF OPERATION
3 26 85 (MONTH DAY YEAR)	☒ ACTIVE ☐ INACTIVE	1940's (BEGINNING YEAR)	present (ENDING YEAR) ☐ UNKNOWN

04 AGENCY PERFORMING INSPECTION (Check all that apply)
☐ A. EPA ☐ B. EPA CONTRACTOR Engineering-Science (Name of firm) ☐ C. MUNICIPAL ☐ D. MUNICIPAL CONTRACTOR _____ (Name of firm)
☐ E. STATE ☒ F. STATE CONTRACTOR Monks & Moore (Name of firm) ☐ G. OTHER _____ (Specify)

05 CHIEF INSPECTOR	06 TITLE	07 ORGANIZATION	08 TELEPHONE NO.
S. Robert STEELE, II	Environmental Scientist	ES	(703) 591-7575
09 OTHER INSPECTORS	10 TITLE	11 ORGANIZATION	12 TELEPHONE NO.
Eileen Gilligan	Geologist	OEM	1315 638-2572
			( )
			( )
			( )
			( )

13 SITE REPRESENTATIVES INTERVIEWED	14 TITLE	15 ADDRESS	16 TELEPHONE NO
Mike Hopkins	Engineer	Niagara County Health	(716) 284-3124
		Department	( )
		10th St & East Falls	( )
		Niagara Falls, NY	( )
			( )
			( )

17 ACCESS GAINED BY (Check one)	18 TIME OF INSPECTION	19 WEATHER CONDITIONS
☒ PERMISSION ☐ WARRANT	12 15 PM	cool, clear

IV. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)	03 TELEPHONE NO.
S Robert STEELE, II	Engineering-Science (ES)	(703) 591-7575

04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NO.	08 DATE
S Robert STEELE, II		ES	Same	3 26 85 (MONTH DAY YEAR)

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NY	0980509459

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)
- ☒ A. SOLID
- ☒ B. POWDER, FINES
- ☐ C. SLUDGE
- ☐ D. OTHER (Specify)
- ☐ E. SLURRY
- ☐ F. LIQUID
- ☐ G. GAS

02 WASTE QUANTITY AT SITE (Measures of waste quantities must be independent)
- TONS: Unknown
- CUBIC YARDS:
- NO. OF DRUMS:

03 WASTE CHARACTERISTICS (Check all that apply)
- ☒ A. TOXIC
- ☐ B. CORROSIVE
- ☐ C. RADIOACTIVE
- ☒ D. PERSISTENT
- ☐ E. SOLUBLE
- ☐ F. INFECTIOUS
- ☐ G. FLAMMABLE
- ☐ H. IGNITABLE
- ☐ I. HIGHLY VOLATILE
- ☐ J. EXPLOSIVE
- ☐ K. REACTIVE
- ☐ L. INCOMPATIBLE
- ☐ M. NOT APPLICABLE

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE			• Unknown quantities of
OLW	OILY WASTE			burned refuse ash, suspected
SOL	SOLVENTS			slag and lime, cleanout
PSD	PESTICIDES			possibly containing Chromium
OCC	OTHER ORGANIC CHEMICALS	Unknown		• 7 priority and 5 nonpriority
IOC	INORGANIC CHEMICALS			organics in soil
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS	Suspected		• Chromium in cleanout waste

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

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
OCC	Benzene	71-43-2	Unknown	8.8	ug/kg
OCC	1,1,1 Trichloroethane	71-55-6	"	22.9 **	"
OCC	Trichloroethene	79-01-6	"	detectable	
OCC	fluoranthene	206-44-0	"	detectable	"
OCC	Naphthalene	91-20-3	"	detectable	"
OCC	Bis(2-ethylhexl) phthalate	117-81-7	"	*104 **	"
OCC	Pyrene	129-0-00	"	detectable	"
OCC	Carbon disulfide	75-15-0	"	38.4	"
OCC	2-Methyl naphthalene	91-57-6	"	detectable	"
OCC	Dibenzofuran	43047-99-0	"	detectable	"
MES	Chromium (suspected)	7440-47-3	"	—	
MES	copper	7440-50-8	"	2.0 – 28.0	mg/KG
	* holding time exceeded before analysis				
	** surrogate recoveries were above or below acceptance limits				

V. FEEDSTOCKS (See Appendix for CAS Numbers)

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

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

1. Niagara County Health Dept. Site Profile Report, 3/82
2. ES and D&M site inspection, 3/26/85
3. USGS Draft Report, 1983

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
NY	0 98056459

II. HAZARDOUS CONDITIONS AND INCIDENTS

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

Uncovered Piles without liner system may allow contaminants to migrate to groundwater.

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

Potential runoff from contaminated soils

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

NO

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

NO

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

NO

01 ☒ F. CONTAMINATION OF SOIL — 02 ☐ OBSERVED (DATE: 1983) — ☒ POTENTIAL — ☐ ALLEGED
03 AREA POTENTIALLY AFFECTED: _____ (Acres) — 04 NARRATIVE DESCRIPTION

Due to migration of contaminants
USGS Draft Report, 1983

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

UNKnown

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

UNKnown

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

UNKnown

EPA

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

I. IDENTIFICATION
01 STATE: NY | 02 SITE NUMBER: 0980509459

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued) — none —

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

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

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

01 ☐ M. UNSTABLE CONTAINMENT OF WASTES (Spills/Runoff/Standing liquids, Leaking drums) — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION
residents adjacent to the site who use wells for portable water supply

01 ☐ N. DAMAGE TO OFFSITE PROPERTY — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
NONE

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
NONE

01 ☐ P. ILLEGAL/UNAUTHORIZED DUMPING — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
Site is used for scavenger dumping

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS
Industrial wastes suspected to have been disposed on-site. Surface water and groundwater may be contaminated by waste dumped on-site

III. TOTAL POPULATION POTENTIALLY AFFECTED: unknown

IV. COMMENTS

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)
ES and DEM site inspection, 3/26/85

EPA FORM 2070-13 (7-81)

EPA

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NY	D980589459

II. PERMIT INFORMATION

01 TYPE OF PERMIT ISSUED (Check all that apply)	02 PERMIT NUMBER	03 DATE ISSUED	04 EXPIRATION DATE	05 COMMENTS
☐ A. NPDES				
☐ B. UIC				
☐ C. AIR				
☐ D. RCRA				
☐ E. RCRA INTERIM STATUS				
☐ F. SPCC PLAN				
☐ G. STATE (Specify)				
☐ H. LOCAL (Specify)				
☐ I. OTHER (Specify)				
☑ J. NONE				

III. SITE DESCRIPTION

01 STORAGE/DISPOSAL (Check all that apply)	02 AMOUNT	03 UNIT OF MEASURE
☐ A. SURFACE IMPOUNDMENT		
☐ B. PILES		
☐ C. DRUMS, ABOVE GROUND		
☐ D. TANK, ABOVE GROUND		
☐ E. TANK, BELOW GROUND		
☐ F. LANDFILL		
☐ G. LANDFARM		
☑ H. OPEN DUMP		
☐ I. OTHER (Specify)		

04 TREATMENT (Check all that apply)
- ☐ A. INCENERATION
- ☐ B. UNDERGROUND INJECTION
- ☐ C. CHEMICAL/PHYSICAL
- ☐ D. BIOLOGICAL
- ☐ E. WASTE OIL PROCESSING
- ☐ F. SOLVENT RECOVERY
- ☐ G. OTHER RECYCLING/RECOVERY
- ☐ H. OTHER (Specify)

05 OTHER
- ☑ A. BUILDINGS ON SITE

06 AREA OF SITE
approx 15 (Acres)
exact size is unknown

07 COMMENTS
The dump site has been used since the 1940's to dispose wastes including refuse, construction debris, line cleanouts, large non-combustible items, slag, dust collected from air pollution control devices. The site is presently used for scavenger dumping

IV. CONTAINMENT

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

02 DESCRIPTION OF DRUMS, DIKING, LINERS, BARRIERS, ETC.
Uncontrolled dumping of materials onto the ground has occurred at this disposal site since the 1940's.

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE: ☑ YES ☐ NO

02 COMMENTS
The site is not enclosed by fencing to prevent unauthorized entry

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

1. Site inspection conducted by ES and PEM, 3/26/85
2. Niagara County Health Dept. Site Profile, 1982

EPA FORM 2070-13 (7-81)

EPA

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NY	D980509459

II. DRINKING WATER SUPPLY

01 TYPE OF DRINKING SUPPLY (Check as applicable)	SURFACE	WELL	02 STATUS ENDANGERED	AFFECTED	MONITORED	03 DISTANCE TO SITE
COMMUNITY	X A.	B. ☐	A. ☐	B. ☐	C. ☐	A. 73.0 (mi)
NON-COMMUNITY	C. ☐	D. ☐	D. ☐	E. ☐	F. ☐	B. _____ (mi)

III. GROUNDWATER

01 GROUNDWATER USE IN VICINITY (Check one)

☐ A. ONLY SOURCE FOR DRINKING ☐ B. DRINKING (Other sources available) ☒ C. COMMERCIAL, INDUSTRIAL, IRRIGATION (Limited other sources available) ☐ D. NOT USED, UNUSEABLE

COMMERCIAL, INDUSTRIAL, IRRIGATION (No other water sources available)

02 POPULATION SERVED BY GROUND WATER	03 DISTANCE TO NEAREST DRINKING WATER WELL
~1,100	N/A (mi)

04 DEPTH TO GROUNDWATER	05 DIRECTION OF GROUNDWATER FLOW	06 DEPTH TO AQUIFER OF CONCERN	07 POTENTIAL YIELD OF AQUIFER	08 SOLE SOURCE AQUIFER
~15 (ft)	SW	~15' (ft)	unknown (gpd)	☐ YES ☐ NO

09 DESCRIPTION OF WELLS (Including useage, depth, and location relative to population and buildings)

- No industrial wells; 5 off site
Numerous observation wells for PASNY, Reservoir & Power projects + Hyde Park Landfill Study 1984

10 RECHARGE AREA		11 DISCHARGE AREA	
☐ YES ☐ NO	COMMENTS: unknown	☐ YES ☐ NO	COMMENTS: unknown

IV. SURFACE WATER

01 SURFACE WATER USE (Check one)

☒ A. RESERVOIR, RECREATION DRINKING WATER SOURCE ☐ B. IRRIGATION, ECONOMICALLY IMPORTANT RESOURCES ☐ C. COMMERCIAL, INDUSTRIAL ☐ D. NOT CURRENTLY USED

02 AFFECTED/POTENTIALLY AFFECTED BODIES OF WATER

NAME:	AFFECTED	DISTANCE TO SITE
Niagara River	☐	1.4 (mi)
	☐	(mi)
	☐	(mi)

V. DEMOGRAPHIC AND PROPERTY INFORMATION

01 TOTAL POPULATION WITHIN			02 DISTANCE TO NEAREST POPULATION
ONE (1) MILE OF SITE	TWO (2) MILES OF SITE	THREE (3) MILES OF SITE	
A. 6,972 NO. OF PERSONS	B. 26,897 NO. OF PERSONS	C. 51,745 NO. OF PERSONS	0.0 (mi)

03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE	04 DISTANCE TO NEAREST OFF-SITE BUILDING
	0.0 (mi)

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

Area is commercial/industrial section of Niagara Falls with scattered clusters of older urban homes

EPA

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

I. IDENTIFICATION
01 STATE: NY | 02 SITE NUMBER: 0980509459

VI. ENVIRONMENTAL INFORMATION

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

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

03 DEPTH TO BEDROCK	04 DEPTH OF CONTAMINATED SOIL ZONE	05 SOIL pH
~15 (ft)	unknown (ft)	Unknown

06 NET PRECIPITATION	07 ONE YEAR 24 HOUR RAINFALL	08 SLOPE: SITE SLOPE	DIRECTION OF SITE SLOPE	TERRAIN AVERAGE SLOPE
9 (in)	2.1 (in)	2.4 %	SW	2.7 %

09 FLOOD POTENTIAL
SITE IS IN >500 YEAR FLOODPLAIN

10
☐ SITE IS ON BARRIER ISLAND, COASTAL HIGH HAZARD AREA, RIVERINE FLOODWAY

11 DISTANCE TO WETLANDS (5 acre minimum)

ESTUARINE	OTHER
A. >2.0 (mi)	B. >1.0 (mi)

12 DISTANCE TO CRITICAL HABITAT (of endangered species)
MIGRATORY BIRDS >1.0 (mi) AQUILA CHRYSAETOS
ENDANGERED SPECIES: HALIAEETUS LEUCOCEPH FALCO PEREGRENES

13 LAND USE IN VICINITY

DISTANCE TO:

COMMERCIAL/INDUSTRIAL	RESIDENTIAL AREAS; NATIONAL/STATE PARKS, FORESTS, OR WILDLIFE RESERVES	AGRICULTURAL LANDS: PRIME AG LAND	AGRICULTURAL LANDS: AG LAND
A. 0.0 (mi)	B. 1.3 (mi)	C. >2 (mi)	D. >2 (mi)

14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY

Disposal site consists of previously-existing "burn pits for municipal garbage. Pits are now filled in & surrounded by scrap yards. Ground surface is flat & poorly drained.

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

Site visit (1985)
USGS topo sheets
Hyde Park Landfill Study (1984)

EPA FORM 2070-13 (7-81)

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
NY	0980509459

II. SAMPLES TAKEN

SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER			
SURFACE WATER			
WASTE			
AIR			
RUNOFF			
SPILL			
SOIL			
VEGETATION			
OTHER			

III. FIELD MEASUREMENTS TAKEN

01 TYPE	02 COMMENTS
HNU	HNU meter readings were taken during the site inspection and all readings were less than 1 ppm

IV. PHOTOGRAPHS AND MAPS

01 TYPE ☐ GROUND ☐ AERIAL

02 IN CUSTODY OF Engineering - Science
(Name of organization or individual)

03 MAPS ☒ YES ☐ NO

04 LOCATION OF MAPS

V. OTHER FIELD DATA COLLECTED (Provide narrative description)

NONE

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

Site inspection conducted by ES and OEM, 3/26/85

EPA FORM 2070-13 (7-81)

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

EPA

I. IDENTIFICATION
01 STATE: NY | 02 SITE NUMBER: D980509459

II. CURRENT OWNER(S)

01 NAME	02 D+B NUMBER	08 NAME (PARENT COMPANY if applicable)	09 D+B NUMBER
KACHIs SCRAP CO.		Mr. Zygmont	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	**04 SIC CODE**	**10 STREET ADDRESS (P.O. Box, RFD #, etc.)**	**11 SIC CODE**
4737 Chester Ave		Maryland Ave	
05 CITY	**06 STATE / 07 ZIP CODE**	**12 CITY**	**13 STATE / 14 ZIP CODE**
NIAGARA FALLS	NY / 14305	Niagara Falls	NY
01 NAME	**02 D+B NUMBER**	**08 NAME**	**09 D+B NUMBER**
Mr. Rydina		Niagara Mohawk	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	**04 SIC CODE**	**10 STREET ADDRESS (P.O. Box, RFD #, etc.)**	**11 SIC CODE**
James Ave and Witmer			
05 CITY	**06 STATE / 07 ZIP CODE**	**12 CITY**	**13 STATE / 14 ZIP CODE**
NiagaraFalls	NY		
01 NAME	**02 D+B NUMBER**	**08 NAME**	**09 D+B NUMBER**
Mr. Burtwell			
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	**04 SIC CODE**	**10 STREET ADDRESS (P.O. Box, RFD #, etc.)**	**11 SIC CODE**
Delaware and Witmer			
05 CITY	**06 STATE / 07 ZIP CODE**	**12 CITY**	**13 STATE / 14 ZIP CODE**
Niagara Falls	NY		
01 NAME	**02 D+B NUMBER**	**08 NAME**	**09 D+B NUMBER**
Mr. Garlock			
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	**04 SIC CODE**	**10 STREET ADDRESS (P.O. Box, RFD #, etc.)**	**11 SIC CODE**
Maryland Ave			
05 CITY	**06 STATE / 07 ZIP CODE**	**12 CITY**	**13 STATE / 14 ZIP CODE**
Niagara Falls	NY		

III. PREVIOUS OWNER(S) (List most recent first)

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

IV. REALTY OWNER(S) (If applicable; list most recent first)

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

Town of Niagara Tax Assessors Office

EPA FORM 2070-13 (7-81)

EPA

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NY	D980509459

II. CURRENT OPERATOR (Provide if different from owner)

01 NAME	02 D+B NUMBER
Koch Scrap Co.	

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

08 YEARS OF OPERATION	09 NAME OF OWNER

OPERATOR'S PARENT COMPANY (If applicable)

10 NAME	11 D+B NUMBER

12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

III. PREVIOUS OPERATOR(S) (List most recent first; provide only if different from owner)

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD

PREVIOUS OPERATORS' PARENT COMPANIES (If applicable)

10 NAME	11 D+B NUMBER

12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD

10 NAME	11 D+B NUMBER

12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD

10 NAME	11 D+B NUMBER

12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

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

ES and D&M site inspection, 3/26/85

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

EPA

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NY	D980507457

II. ON-SITE GENERATOR

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

NO hazardous wastes are generated on-site. Site was and was used for scavenger dumping of wastes

III. OFF-SITE GENERATOR(S)

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

IV. TRANSPORTER(S)

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

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

ES and P&m Site Inspection, 3/26/85

EPA

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

I. IDENTIFICATION
01 STATE: NY | 02 SITE NUMBER: D980509459

II. PAST RESPONSE ACTIVITIES

01 ☐ A. WATER SUPPLY CLOSED 04 DESCRIPTION: NO	02 DATE	03 AGENCY
01 ☐ B. TEMPORARY WATER SUPPLY PROVIDED 04 DESCRIPTION: NO	02 DATE	03 AGENCY
01 ☐ C. PERMANENT WATER SUPPLY PROVIDED 04 DESCRIPTION: NO	02 DATE	03 AGENCY
01 ☐ D. SPILLED MATERIAL REMOVED 04 DESCRIPTION: NO	02 DATE	03 AGENCY
01 ☐ E. CONTAMINATED SOIL REMOVED 04 DESCRIPTION: NO	02 DATE	03 AGENCY
01 ☐ F. WASTE REPACKAGED 04 DESCRIPTION: NO	02 DATE	03 AGENCY
01 ☐ G. WASTE DISPOSED ELSEWHERE 04 DESCRIPTION: NO	02 DATE	03 AGENCY
01 ☐ H. ON SITE BURIAL 04 DESCRIPTION: NO	02 DATE	03 AGENCY
01 ☐ I. IN SITU CHEMICAL TREATMENT 04 DESCRIPTION: NO	02 DATE	03 AGENCY
01 ☐ J. IN SITU BIOLOGICAL TREATMENT 04 DESCRIPTION: NO	02 DATE	03 AGENCY
01 ☐ K. IN SITU PHYSICAL TREATMENT 04 DESCRIPTION: NO	02 DATE	03 AGENCY
01 ☐ L. ENCAPSULATION 04 DESCRIPTION: NO	02 DATE	03 AGENCY
01 ☐ M. EMERGENCY WASTE TREATMENT 04 DESCRIPTION: NO	02 DATE	03 AGENCY
01 ☐ N. CUTOFF WALLS 04 DESCRIPTION: NO	02 DATE	03 AGENCY
01 ☐ O. EMERGENCY DIKING/SURFACE WATER DIVERSION 04 DESCRIPTION: NO	02 DATE	03 AGENCY
01 ☐ P. CUTOFF TRENCHES/SUMP 04 DESCRIPTION: NO	02 DATE	03 AGENCY
01 ☐ Q. SUBSURFACE CUTOFF WALL 04 DESCRIPTION: NO	02 DATE	03 AGENCY

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
NY	D980509459

II PAST RESPONSE ACTIVITIES *(Continued)*

01 ☐ R. BARRIER WALLS CONSTRUCTED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
NO

01 ☒ S. CAPPING/COVERING — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
NO

01 ☐ T. BULK TANKAGE REPAIRED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
NO

01 ☐ U. GROUT CURTAIN CONSTRUCTED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
NO

01 ☐ V. BOTTOM SEALED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
NO

01 ☐ W. GAS CONTROL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
NO

01 ☐ X. FIRE CONTROL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
NO

01 ☐ Y. LEACHATE TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
NO

01 ☐ Z. AREA EVACUATED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
NO

01 ☐ 1. ACCESS TO SITE RESTRICTED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
NO

01 ☐ 2. POPULATION RELOCATED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
NO

01 ☐ 3. OTHER REMEDIAL ACTIVITIES — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
Burning of garbage no longer practiced. Pits closed & filled with earth & landscaped

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

ES and D&M Site inspection, 3/26/85

EPA FORM 2070-13 (7-81)

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
NY	0905009454

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION ☐ YES ☑ NO

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

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

NYSDEC Environmental Enforcement Division

NYS Attorney Generals Office

SOURCES CONTACTED FOR

WITMER ROAD INVESTIGATION

CONTACT	DATE CONTACTED	PERSON CONTACTED	TELEPHONE NUMBER	LOCATION	INFORMATION COLLECTED
USEPA Headquarters, Superfund Office	4/2/85	Hamid Saebfed	(202) 382-4839	401 M Street, NW Washington, D.C. 20460	Reviewed list of sites to determine if additional information was available.
USEPA - Region II, OERR	3/22/85	Mel Hauptman	(212) 264-7681	Room 402 26 Federal Plaza NY, NY 10278	General information from site files.
NYSDEC - Division of Solid and Hazardous	12/19/84	Marsden Chen	(518) 457-0639	50 Wolf Road Albany, NY 12233	General information from site files.
NYSDEC - Division of Water	12/19/84	Sal Pagano	(518) 457-6675	50 Wolf Road Albany, NY 12233	Mr. Pagano set up meetings with three bureaus within Division of Water.
NYSDEC - Division of Water SPDES Files	12/20/84	Bob Hannaford	(518) 457-6716	50 Wolf Road Albany, NY 12233	Reviewed SPDES Files for permit numbers and conditions.
NYSDEC - Division of Water DMR Files	12/21/84	George Hansen	(518) 457-2010	50 Wolf Road Albany, NY 12233	Reviewed DMR files for discharge violations.
NYSDEC - Division of Air Toxics	12/21/84	Art Fossa	(518) 457-7454	50 Wolf Road Albany, NY 12233	Reviewed site list to identify sites with potential air emissions.
NYSDEC - Division of Monitoring and Assessment	12/21/84	Bill Berner Frank Estabrook Fred Van Alstyne	(518) 457-7363	50 Wolf Road Albany, NY 12233	Reviewed geology and monitoring information for specific sites.

SOURCES CONTACTED FOR WITMER ROAD INVESTIGATION

CONTACT	DATE CONTACTED	PERSON CONTACTED	TELEPHONE NUMBER	LOCATION	INFORMATION COLLECTED
NYSDEC - Division of Environmental Enforcement	12/20/84	Kevin Walter	(518) 457-4346	50 Wolf Road Albany, NY 12233	Reviewed list of sites to determine if legal action has occurred in the past, is in progress, and/or is scheduled in the near future.
NYS - Dept. of Law Attorney General's Office	1/7/85	Val Washington	(518) 473-3105	Empire State Plaza Justice Building Albany, NY 12233	Reviewed list of sites to determine if legal action has occurred in the past, is in progress, and/or is scheduled in the near future.
NYS - Dept. of Law Attorney General's Office	1/3/85	Albert Bronson	(716) 847-7196	Buffalo State Office Bldg. Buffalo, NY 14202	Reviewed list of sites to determine if legal action has occurred in the past, is in progress, and/or is scheduled in the near future.
NYSDEC - Division of Solid and Hazardous Waste	1/7/85	Peter Buechi Ahmad Tayyebi Jack Tygert Larry Clare	(716) 847-4585	600 Delaware Ave. Buffalo, NY 14202	Collected general information from site files.
NYSDEC - Region 9 Division of Air	1/8/85	Henry Sandonato Robert Armbrust	(716) 847-4565	600 Delaware Ave. Buffalo, NY 14202	Collected information concerning previous air emissions from inactive disposal sites.

SOURCES CONTACTED FOR WITMER ROAD INVESTIGATION

CONTACT	DATE CONTACTED	PERSON CONTACTED	TELEPHONE NUMBER	LOCATION	INFORMATION COLLECTED
NYSDEC - Regional Attorney	1/10/85	Peter J. Burke	847-4551	600 Delaware Ave. Buffalo, NY 14202	Reviewed list of sites to determine if legal action has occurred in the past, is in progress, and/or is scheduled in the near future.
NYS Dept. of Health, Buffalo Region, Public Health Engineering	1/8/85	Lou Violanti	(716) 847-4500	584 Delaware Ave. Buffalo, NY 14202	Collected information from site files.
NYSDEC - Region 9 Division of Fish and Wildlife	1/10/85 & 1/11/85	Mike Wilkinson Jim Sneider	(716) 847-4600	600 Delaware Ave. Buffalo, NY 14202	Collected information from site files
Niagara County Dept. of Health	1/9/85	Mike Hopkins	(716) 284-3124	Tenth & East Falls Street Niagara Falls, NY 14302	Collected information from Niagara County site files. Obtained additional information through interview.
Niagara County Dept. of Planning and Industrial Development	2/22/85	Dave Urso	(716) 439-6033	59 Park Ave. Lockport, NY 14094	Obtained 1980 U.S. Census Data.
Town of Niagara Tax Assessor's Office	4/19/85	---	(716) 297-2150	7105 Lockport Rd. Niagara Falls, NY 14304	Interviewed regarding ownerhsip.

REFERENCES

16. Bergeron, M.P., "Analysis of Three Groundwater Flows in the Vicinity of Hyde Park Landfill, Niagara Falls, NY", 1984.

17. Hopkins, M., NCHD, Memo to Beuchi, 7/29/85.

18. NCHD, Site Profile Report, 1982.

19. NYSDOH, Analytical Results of Private Drinking Water Wells, 1984.

(Bergeron, 1984)

REF-16

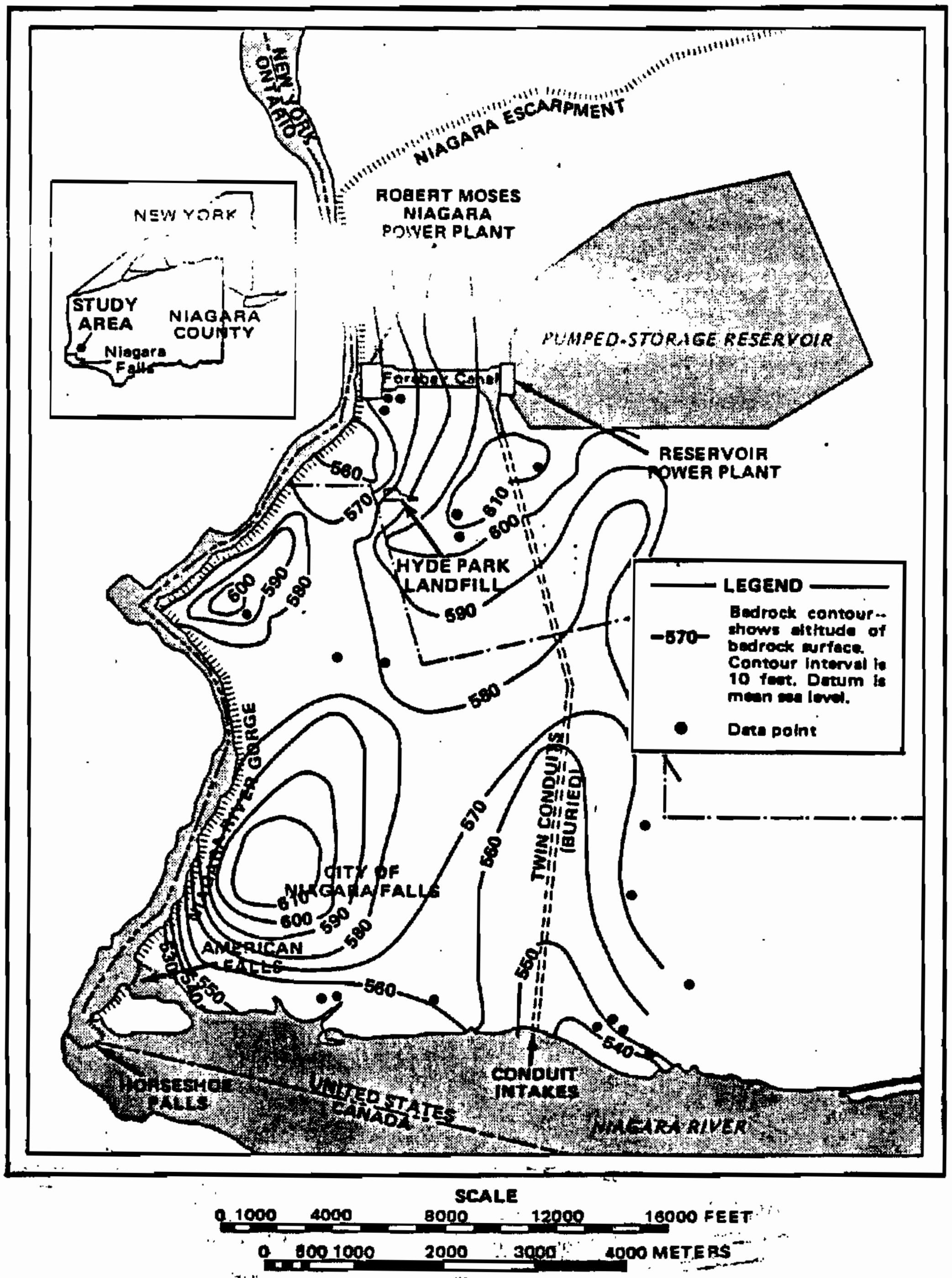


Figure 4 BEDROCK SURFACE ALTITUDE IN NIAGARA FALLS AREA

from Bergeron, M.P, 1984, Analyses of ... Dimension and ... Hyde Park ... NY ... Report

Table 1.--Hydrogeologic characteristics and hydraulic properties of unconsolidated deposits and bedrock in the Hyde Park area.[1]

Water-bearing unit	Thickness (feet)	Lithologic description	Hydrogeologic characteristics	Hydraulic properties
Undifferentiated lake deposits	0-20	Laminated clay and silt and thin beds of fine sand.	Clay and silts have low permeability and yield little water.	Hydraulic conductivity range: 0.0014 to 0.27 ft/d.[2]
Till ("Hardpan")	0-10	Mixture of boulders and pebbles in a matrix of sand, silt, and clay.	Water occurs principally in thin sand lenses in till and a "wave-washed zone" at the top of the bedrock.	
Lockport Dolomite	90-130	Dark-gray to grayish-brown massive to thin bedded dolomite, locally containing algal reefs, small masses of gypsum, limestone, and shaly beds at base.	Ground water occurs principally in water-bearing zones parallel to bedding which are much more permeable than the surrounding rock. The upper 10 to 15 feet is the most permeble interval and contains vertical joints and small cavities formed by solution of gypsum. Wells yield 10 to 100 gal/min mostly.	Transmissivity from pump test is highly variable (90-9,000 ft^2/d). Average transmissivity[3] is 300 ft^2/d probable hydraulic conductivity range: 5-15 ft/d (upper 15 feet); 1-2 ft/d (lower part)
Rochester Shale	60	Dark-gray calcareous shale.	Very low permeability shale. Yields no significant water to wells.	Unknown. Hydraulic conductivity assumed to be 2 to 3 orders of magnitude less than that of Lockport Dolomite.

[1] Table modified from Maslia and Johnston (1982, p. 5).

[2] Based on well-recovery test data from Conestoga-Rovers Associates.

[3] Based on steady-state analysis of 18,000-ft section of dewatered conduit penetrating the Lockport Dolomite; average gradient (0.017 ft/ft) and average pumping rate (1,400,000 gal/d) (Johnston, 1964).

F-7A
April 27, 1983
Crew Members: S. Dyer, W. Dausch
Ground Elevation: 578.3

(Bergeron, 1984)

SAMPLE	DEPTH	BLOWCOUNTS	RECOVERY	DESCRIPTION	MOISTURE
	0-0.4'			Augered through - black asphalt	
	0.4-0.8'			Augered through - grey bedding stone	
	0.8-1.0'			Brown silt - some fine gravel	
1	1.0-1.2'	6-4	8"	Brown silt - some fine gravel	Dry
	1.2-2.0'			Black fine cinders	Moist
2	2.0-4.0'	5-5-4-3	3"	Black fine cinders	Moist
3	4.0-6.0'	7-3-2-2	12"	Black fine cinders - trace flyash - trace silt - trace rock fragments	Moist
4	6.0-8.0'	2-1-1-1	10"	Black fine cinders	Moist
5	8.0-10.0'	14-5-5-3	0"	Auger cuttings show black cinders	
6	10.0-10.2'	18-36-42-26	19"	Black fine cinders - some rock fragments	
	10.2-10.4'			Red sandstone	
	10.4-12.0'			Grey fine sand - some fine gravel	Moist
7	12.0-13.4'	18-26-41-45	19"	Grey fine sand (Fill) - some fine gravel	Moist-wet
	13.4-14.0'			Grey rock fragments (till) (NATIVE) - some fine sand	Moist-wet
8	14.0-15.0'	21-$\frac{75}{.5'}$	4"	Grey rock fragments (till) - some silt - some fine sand	Wet
	15.0-15.5'			Augered through	
	15.5'			Auger refusal	

(Bergeron, 1984)

F-6
March 2, 1983
Crew Members: M. Fuhrmann, L. Bradley
Ground Elevation: 588.2

SAMPLE	DEPTH	BLOWCOUNTS	RECOVERY	DESCRIPTION	MOISTURE
1	0-1.0'	20-14-11-14	16"	Black cinders - some rock fragments	Dry
	1.0-2.0'			Light brown silt - trace clay	Dry
2	2.0-4.0'	16-16-15-16	15"	Mottled brown & dark brown silt - trace clay - trace small pebbles	Dry
3	4.0-6.0'	8-6-7-9	0"	Auger cuttings show brown to red-brown silt	
4	6.0-8.0'	9-11-7-9	8"	Red-brown silt with alternating beds of grey clay (NATIVE) - trace fine sand	Moist
5	8.0-10.0'	1-2-3-2	0"	Auger cuttings show moist red-brown silt	
6	10.0-10.3'	2-50/0'	4"	Red-brown silt - trace fine sand	Moist-wet
	10.3-10.5			Grey rock fragments	Moist
	10.5-10.9'			Augered through	
	10.9'			Auger refusal	

STRATIGRAPHIC AND INSTRUMENTATION LOG (Bergeron, 1984)

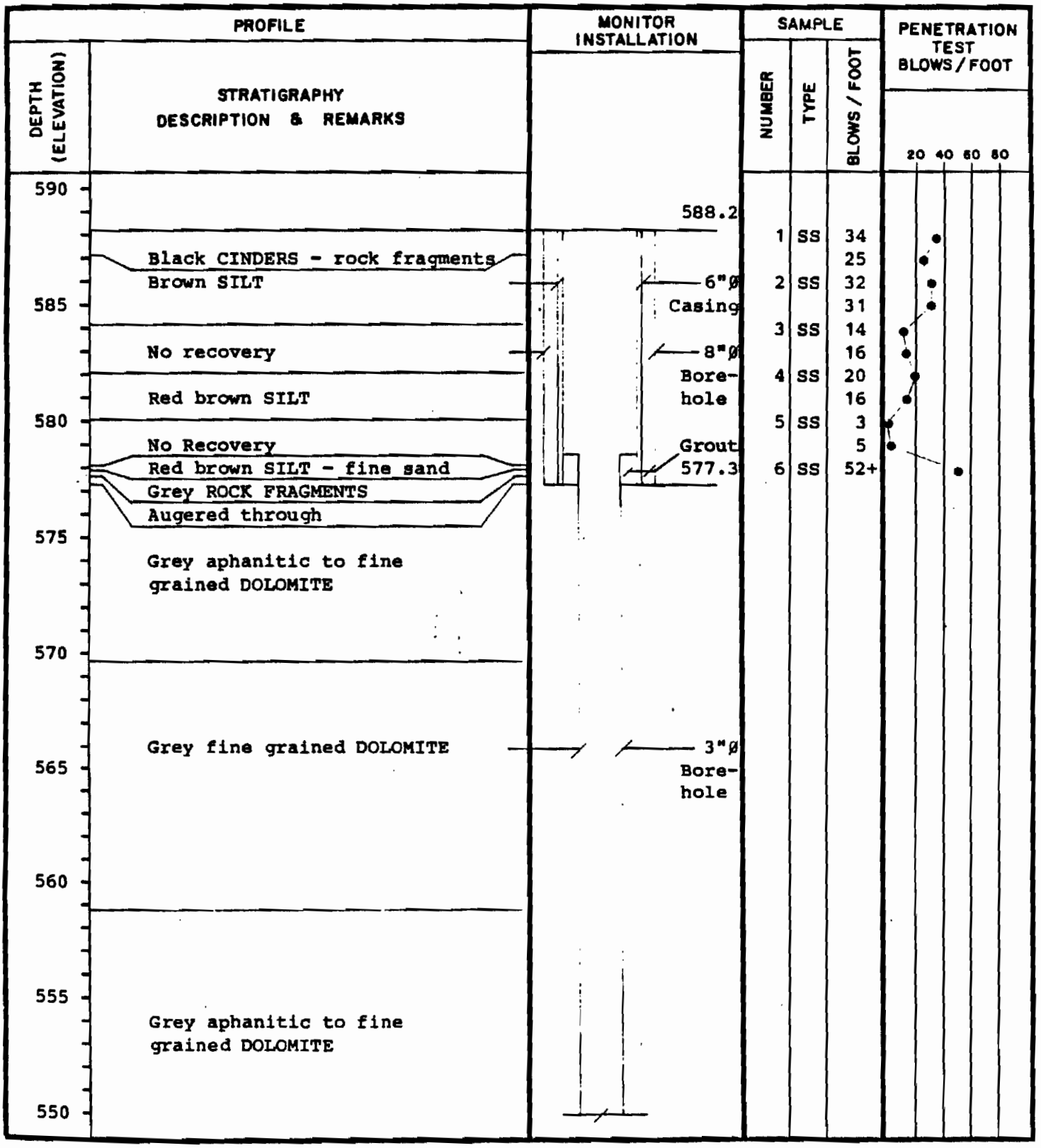
PROJECT NAME: HYDE PARK AQUIFER SURVEY — HOLE Nº: F-6 — Page 1 of 4

JOB Nº: 9-1069 — DATE COMPLETED: MARCH 18, 1983

CLIENT: OCCIDENTAL CHEMICAL CORPORATION — GEOLOGIST/ENGINEER: W. CLARKE/J. KAY

HOLE TYPE: 8"Ø AUGER/NX CORE — GROUND ELEVATION: 588.2

LOCATION: MAPLE STREET - E. OF HIGHLAND AVENUE — TOP OF PIPE ELEVATION:



○ GRAIN SIZE ANALYSIS ▼ WATER FOUND ▽ STATIC WATER LEVEL

SECTION VI

ASSESSMENT OF DATA ADEQUACY AND RECOMMENDATIONS

ASSESSMENT OF DATA ADEQUACY

A summary assessment of the adequacy of existing data for completion of the HRS score is presented in Table VI-1. Based on this assessment, the following Phase II work plan and cost estimate has been prepared.

PHASE II WORK PLAN

Objectives

The objectives of the proposed Phase II activities are:

- To collect additional field data necessary to identify the occurrence and extent of contamination.
- To perform a conceptual evaluation of remedial alternatives and estimate budgetary costs for the most likely alternative.
- To prepare a site investigation report including final HRS score.

The additional field data required to complete this investigation are described as follows:

Surface Soil Sampling - Five surface soil samples in the vicinity of the on-site waste piles.

Groundwater - Two private residential wells will be sampled northeast of the site and analyzed for priority pollutants.

Air - An air monitoring survey with an HNU meter is recommended to test the air quality during site activities.

Waste Samples - Sampling consisting of twelve samples from on-site waste piles.

TASK DESCRIPTION

The proposed Phase II tasks are described in Table VI-2 as required under the site specific health and safety plan and quality assurance plan which must be submitted prior to initiation of field activities. The proposed monitoring well and sampling location are presented in Figure VI-1.

COST ESTIMATE

The estimated man-hours required for the Phase II project are presented in Table VI-3 and the estimated project costs by tasks are presented in Table VI-4. The estimate total cost for this project is $ 20,088.

TABLE VI-1

ASSESSMENT OF DATA ADEQUACY

HRS Data Requirement	Comments on Data
Observed Release	
Groundwater	Insufficient data to score an observed release
Surface Water	Insufficient data to score an observed release
Air	Adequate data for HRS score
Route Characteristics	
Groundwater	Adequate data for HRS score
Surface Water	Adequate data for HRS score
Air	Adequate data for HRS score
Containment	Adequate data for HRS score
Waste Characteristics	Insufficient data for HRS score
Targets	Adequate data for HRS score
Observed Incident	Adequate data for HRS score
Accessibility	Adequate data for HRS score

TABLE VI-2

PHASE II WORK PLAN - TASK DESCRIPTION

Tasks		Description of Task
II-A	Update Work Plan	Review the information in the Phase I report, conduct a site visit, and revise the Phase II work plan.
II-B	Conduct Geophysical Studies	No further studies necessary.
II-C	Conduct Boring/Install Monitoring Wells	No further studies necessary.
II-D	Construct Test Pits/Auger Holes	No further studies necessary.
II-E	Perform Sampling & Analysis	
	Soil samples from borings	No further studies necessary.
	Soil samples from surface soils	Five surface soil samples from on-site waste piles are to be collected and analyzed for priority pollutants.
	Soil samples from auger holes/test pits	No further studies necessary.
	Sediment samples from surface water	No further studies necessary.
	Groundwater samples	Two groundwater samples are to be collected and analyzed for priority pollutants.
	Surface water samples	No further studies necessary.

TABLE VI-2 (Continued)

PHASE II WORK PLAN - TASK DESCRIPTION

Tasks		Description of Task
	Air samples	Using the HNu determine the presence of organics during site activities.
	Waste samples	Twelve waste pile samples will be collected.
II-F	Calculate Final HRS	Based on the field data collected in Tasks II-B - II-E, complete the HRS form.
II-G	Conduct Site Assessment	Prepare final report containing significant Phase I information, additional field data, final HRS and HRS documentation records, and site assessments. The site assessment will consist of a conceptual evaluation of alternatives and a preliminary cost estimate of the most probable alternative.
II-H	Project Management	Project coordination, administration and reporting.

TABLE VI-3
PERSONNEL RESOURCES BY TASK
PHASE II HRS SITE INVESTIGATION (SITE: WITMER ROAD)

TASK DESCRIPTION	TEAM MEMBERS, MANHOURS												
	PIC	TRS	PH	BPH	PCH	BAH	HSH	FTL	FT	BAAL	BAAT	SS	TOTAL HOURS	TOTAL $
II-A UPDATE WORK PLAN	1.00	1.00	8.00	4.00		4.00	4.00	16.00		0.00		20.00	74.00	1144.10
II-B CONDUCT GEOPHYSICAL STUDIES													0.00	0.00
II-C CONDUCT BORING/INSTALL MONITORING WELLS													0.00	0.00
II-D CONSTRUCT TEST PITS/AUGER HOLES			8.00	16.00	0.00	4.00	4.00	10.00	48.00			24.00	114.00	1593.00
II-E PERFORM SAMPLING AND ANALYSIS														
SOIL SAMPLES FROM BORINGS													0.00	0.00
SOIL SAMPLES FROM SURFACE SOILS			2.00	2.00		1.00	1.00	2.00	8.00			4.00	20.00	277.00
SOIL SAMPLES FROM TEST PITS AND AUGER HOLES			0.00	0.00		0.00	0.00	0.00	0.00			0.00	0.00	0.00
SEDIMENT SAMPLES FROM SURFACE WATER													0.00	0.00
GROUND-WATER SAMPLES													0.00	0.00
SURFACE WATER SAMPLES													0.00	0.00
AIR SAMPLES			1.00	1.00			1.00	1.00	4.00			4.00	12.00	155.68
WASTE SAMPLES			4.00	4.00		2.00	2.00	4.00	16.00			8.00	40.00	555.14
II-F CALCULATE FINAL HRS			4.00	4.00				4.00	4.00	2.00		4.00	22.00	394.56
II-G CONDUCT SITE ASSESSMENT	2.00	2.00	8.00	2.00				20.00	32.00	12.00	40.00	40.00	162.00	2142.82
II-H PROJECT MANAGEMENT	2.00		6.00	2.00	3.00	4.00	4.00					12.00	33.00	529.00
TOTALS	5.00	3.00	41.00	35.00	3.00	15.00	16.00	61.00	112.00	22.00	40.00	124.00	477.00	6793.66

TABLE VI-4
COST ESTIMATE BREAKDOWN BY TASK
PHASE II HRS SITE INVESTIGATION (SITE: WITNER ROAD)

TASK DESCRIPTION	DIRECT LABOR HOURS	DIRECT LABOR COST	OTHER DIRECT COSTS (ODC), $ LAB ANALYSIS	TRAVEL AND SUBSISTANCE	SUPPLIES	EQUIP. CHARGES	SUBCONTRACTORS	MISC.	SUBTOTAL ODC	TOTAL ($)
II-A UPDATE WORK PLAN	74	$1,144.10		$200.00	$50.00	$50.00		$50.00	$350.00	$1,494.10
II-B CONDUCT GEOPHYSICAL STUDIES	0	$0.00							$0.00	$0.00
II-C CONDUCT BORING/INSTALL MONITORING WELLS	0	$0.00							$0.00	$0.00
II-D CONSTRUCT TEST PITS/AUGER HOLES										
II-E PERFORM SAMPLING AND ANALYSIS										
SOIL SAMPLES FROM BORINGS	0	$0.00							$0.00	$0.00
SOIL SAMPLES FROM SURFACE SOILS	0	$0.00							$0.00	$0.00
SOIL SAMPLES FROM TEST PITS AND AUGER HOLES										
SEDIMENT SAMPLES FROM SURFACE WATER	0	$0.00							$0.00	$0.00
GROUND-WATER SAMPLES	0	$0.00	$3,200.00						$3,200.00	$3,200.00
SURFACE WATER SAMPLES	0	$0.00							$0.00	$0.00
AIR SAMPLES	12	$153.68				$200.00			$200.00	$353.68
WASTE SAMPLES	40	$535.14		$320.00	$250.00	$450.00			$1,020.00	$1,575.14
II-F CALCULATE FINAL HRS	22	$394.56				$150.00			$150.00	$544.56
II-G CONDUCT SITE ASSESSMENT	162	$2,142.82			$750.00	$300.00		$75.00	$1,125.00	$3,267.82
II-H PROJECT MANAGEMENT	33	$529.80	$400.00	$300.00	$150.00	$50.00		$50.00	$950.00	$1,479.80
TOTALS	343	$4,922.10	$3,600.00	$820.00	$1,200.00	$1,200.00	$0.00	$175.00	$6,995.00	$11,917.10

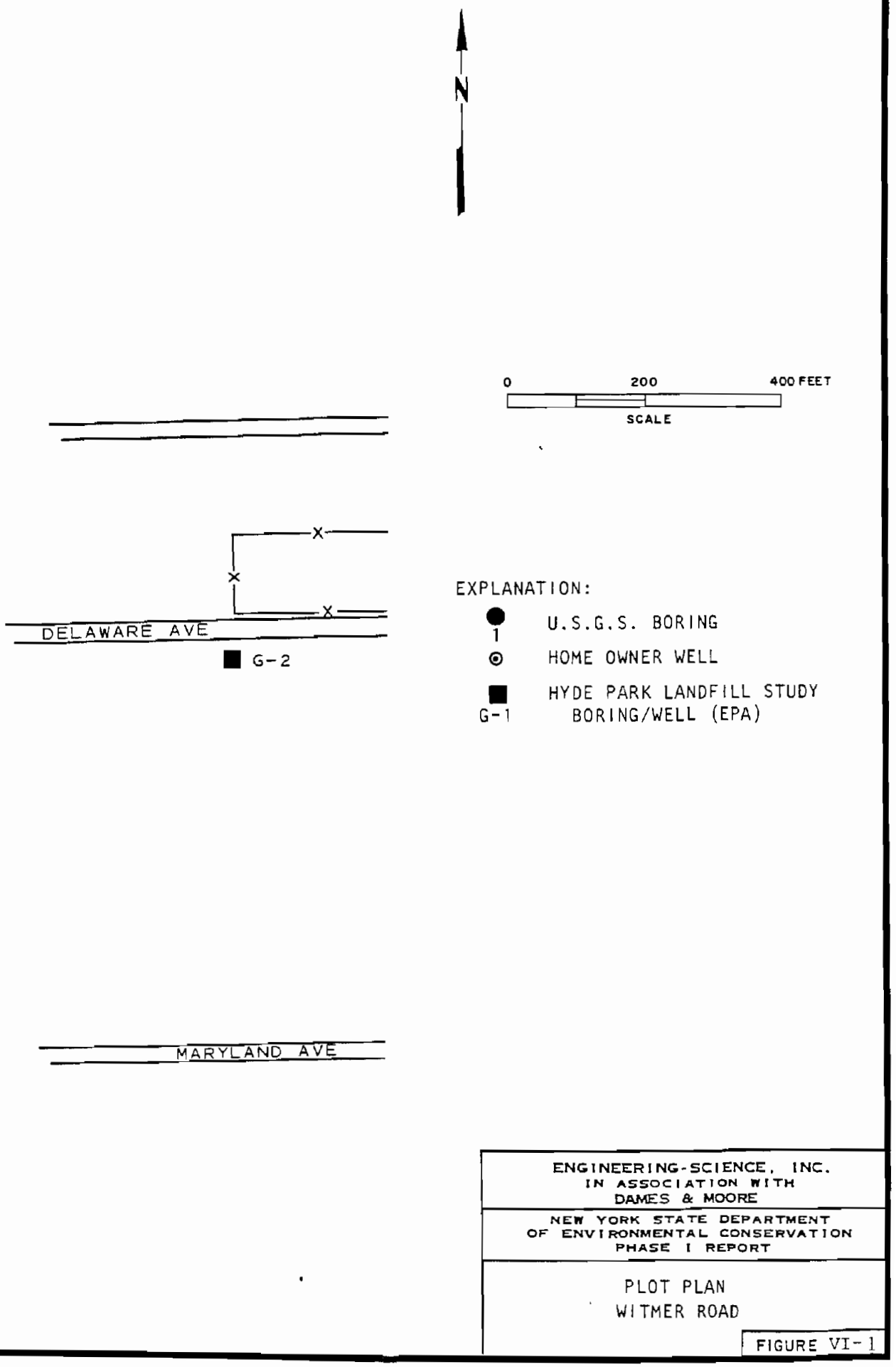
OVERHEAD=	$7,028.87
SUBTOTAL=	$18,946.05
FEE=	$1,142.21
TOTAL PROJECT COST=	$20,088.26

APPENDIX A

REFERENCES

Sources Contacted

Documentation



ENGINEERING-SCIENCE, INC.
IN ASSOCIATION WITH
DAMES & MOORE

NEW YORK STATE DEPARTMENT
OF ENVIRONMENTAL CONSERVATION
PHASE I REPORT

PLOT PLAN
WITMER ROAD

FIGURE VI-1

STRATIGRAPHIC AND INSTRUMENTATION LOG (Bergeron, 1984)

PROJECT NAME: HYDE PARK AQUIFER SURVEY
HOLE Nº: F-6 Page 2 of 4
JOB Nº: 9-1069
DATE COMPLETED: MARCH 18, 1983
CLIENT: OCCIDENTAL CHEMICAL CORPORATION
GEOLOGIST/ENGINEER: W. CLARKE/J. KAY
HOLE TYPE: 8"ø AUGER/NX CORE
GROUND ELEVATION: 588.2
LOCATION: MAPLE STREET - E. OF HIGHLAND AVENUE
TOP OF PIPE ELEVATION:

PROFILE		MONITOR INSTALLATION	SAMPLE			PENETRATION TEST BLOWS/FOOT
DEPTH (ELEVATION)	STRATIGRAPHY DESCRIPTION & REMARKS		NUMBER	TYPE	BLOWS/FOOT	20 40 60 80
550						
545	Grey aphanitic to fine grained DOLOMITE					
540						
535		3"ø Bore-hole				
530						
525	Grey fine grained DOLOMITE					
520						
515						
510						

○ GRAIN SIZE ANALYSIS ▼ WATER FOUND ▽ STATIC WATER LEVEL

STRATIGRAPHIC AND INSTRUMENTATION LOG (Bergeron, 1984)

PROJECT NAME: HYDE PARK AQUIFER SURVEY
HOLE Nº: F-6 Page 3 of 4
JOB Nº: 9-1069
DATE COMPLETED: MARCH 18, 1983
CLIENT: OCCIDENTAL CHEMICAL CORPORATION
GEOLOGIST/ENGINEER: W. CLARKE/J. KAY
HOLE TYPE: 8"ø AUGER/NX CORE
GROUND ELEVATION: 588.2
LOCATION: MAPLE STREET - E. OF HIGHLAND AVENUE
TOP OF PIPE ELEVATION:

PROFILE		MONITOR INSTALLATION	SAMPLE			PENETRATION TEST BLOWS / FOOT
DEPTH (ELEVATION)	STRATIGRAPHY DESCRIPTION & REMARKS		NUMBER	TYPE	BLOWS / FOOT	20 40 60 80
510	Grey fine grained DOLOMITE					
505						
500		3"ø Bore-hole				
495						
490	Dark grey fine to medium grained DOLOMITE					
485	GASPORT MEMBER					
480	Grey aphanitic DOLOMITE					
475	DECEW MEMBER					
470						

○ GRAIN SIZE ANALYSIS ▼ WATER FOUND ▽ STATIC WATER LEVEL

STRATIGRAPHIC AND INSTRUMENTATION LOG (Bagchan, 1984)

PROJECT NAME: HYDE PARK AQUIFER SURVEY
HOLE Nº: F-6 Page 4 of 4
JOB Nº: 9-1069
DATE COMPLETED: MARCH 18, 1983
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GEOLOGIST/ENGINEER: W. CLARKE/J. KAY
HOLE TYPE: 8"ø AUGER/NX CORE
GROUND ELEVATION: 588.2
LOCATION: MAPLE STREET - E. OF HIGHLAND AVENUE
TOP OF PIPE ELEVATION:

PROFILE		MONITOR INSTALLATION	SAMPLE			PENETRATION TEST BLOWS/FOOT
DEPTH (ELEVATION)	STRATIGRAPHY DESCRIPTION & REMARKS		NUMBER	TYPE	BLOWS/FOOT	20 40 60 80
470	Grey aphanitic DOLOMITE DECEW MEMBER					
465	Dark grey dolomitic SHALE					
	ROCHESTER FORMATION	3"ø Bore-hole				
460						
455		454.8				
450						
445						
440						

○ GRAIN SIZE ANALYSIS ▼ WATER FOUND ▽ STATIC WATER LEVEL

STRATIGRAPHIC AND INSTRUMENTATION LOG (Bagaron, 1984)

PROJECT NAME: HYDE PARK AQUIFER SURVEY
HOLE Nº: F-7D Page 1 of 3
JOB Nº: 9-1069
DATE COMPLETED: May 11, 1983
CLIENT: OCCIDENTAL CHEMICAL CORPORATION
GEOLOGIST/ENGINEER: W. CLARKE/J. KAY
HOLE TYPE: 8"ø AUGER/NX CORE
GROUND ELEVATION: 578.3
LOCATION: HIGHLAND AVENUE @ MASSACHUSETTS AVE.
TOP OF PIPE ELEVATION:

PROFILE		MONITOR INSTALLATION	SAMPLE			PENETRATION TEST BLOWS/FOOT
DEPTH (ELEVATION)	STRATIGRAPHY DESCRIPTION & REMARKS		NUMBER	TYPE	BLOWS / FOOT	20 40 60 80
580	*Overburden description taken from Borehole F-7A	578.3				
	Augered through - ROAD BED & SILT	8"ø Bore-hole	1	SS	10	
			2	SS	10	
575	Black FINE CINDERS				7	
			3	SS	10	
					4	
			4	SS	3	
		6"ø Casing			2	
570			5	SS	19	
	No RECOVERY				8	
	Black CINDERS & red SAND STONE FRAGMENTS		6	SS	54	
					68	
	Grey FINE SAND - fine gravel	Grout	7	SS	44	
565					86	
	Grey ROCK FRAGMENTS (till) - fine sand, silt		8	SS	96+	
	Augered through	562.8				
	Grey aphanitic DOLOMITE					
560						
		4-3/4"ø Bore-hole				
555						
	Grey fine grained DOLOMITE					
550						
		3"ø Bore-hole				
545						
	Grey aphanitic DOLOMITE					
540						

○ GRAIN SIZE ANALYSIS ▼ WATER FOUND ▽ STATIC WATER LEVEL

STRATIGRAPHIC AND INSTRUMENTATION LOG (Bergeron, 1984)

PROJECT NAME: HYDE PARK AQUIFER SURVEY
HOLE Nº: F-7D Page 2 of 3
JOB Nº: 9-1069
DATE COMPLETED: May 11, 1983
CLIENT: OCCIDENTAL CHEMICAL CORPORATION
GEOLOGIST/ENGINEER: W. CLARKE/J. KAY
HOLE TYPE: 8"Ø AUGER/NX CORE
GROUND ELEVATION: 578.3
LOCATION: HIGHLAND AVENUE @ MASSACHUSETTS AVE.
TOP OF PIPE ELEVATION:

PROFILE		MONITOR INSTALLATION	SAMPLE			PENETRATION TEST BLOWS/FOOT
DEPTH (ELEVATION)	STRATIGRAPHY DESCRIPTION & REMARKS		NUMBER	TYPE	BLOWS/FOOT	20 40 60 80
540	Gray aphanitic DOLOMITE					
535						
530						
525		3"Ø Bore-hole				
520	Gray fine grained DOLOMITE					
515						
510						
505	Gray aphanitic DOLOMITE					
500						

○ GRAIN SIZE ANALYSIS ▼ WATER FOUND ▽ STATIC WATER LEVEL

STRATIGRAPHIC AND INSTRUMENTATION LOG (Bergeron, 1984)

PROJECT NAME: HYDE PARK AQUIFER SURVEY — HOLE Nº: F-7D — Page 3 of 3

JOB Nº: 9-1069 — DATE COMPLETED: May 11, 1983

CLIENT: OCCIDENTAL CHEMICAL CORPORATION — GEOLOGIST/ENGINEER: W. CLARKE/J. KAY

HOLE TYPE: 8"ø AUGER/NX CORE — GROUND ELEVATION: 578.3

LOCATION: HIGHLAND AVENUE @ MASSACHUSETTS AVE. — TOP OF PIPE ELEVATION:

PROFILE		MONITOR INSTALLATION	SAMPLE			PENETRATION TEST BLOWS / FOOT
DEPTH (ELEVATION)	STRATIGRAPHY DESCRIPTION & REMARKS		NUMBER	TYPE	BLOWS / FOOT	20 40 60 80
500	Gray aphanitic DOLOMITE					
495						
	Gray to medium gray fine grained DOLOMITE					
490		3"ø Bore-hole				
	Medium gray fine to medium grained DOLOMITE					
485	GASPORT MEMBER					
480	Gray aphanitic DOLOMITE					
475	DECEW MEMBER					
470	Dark gray dolomitic SHALE					
	ROCHESTER FORMATION					
465	Unrecovered core	463.3				
460						

○ GRAIN SIZE ANALYSIS ▼ WATER FOUND ▽ STATIC WATER LEVEL

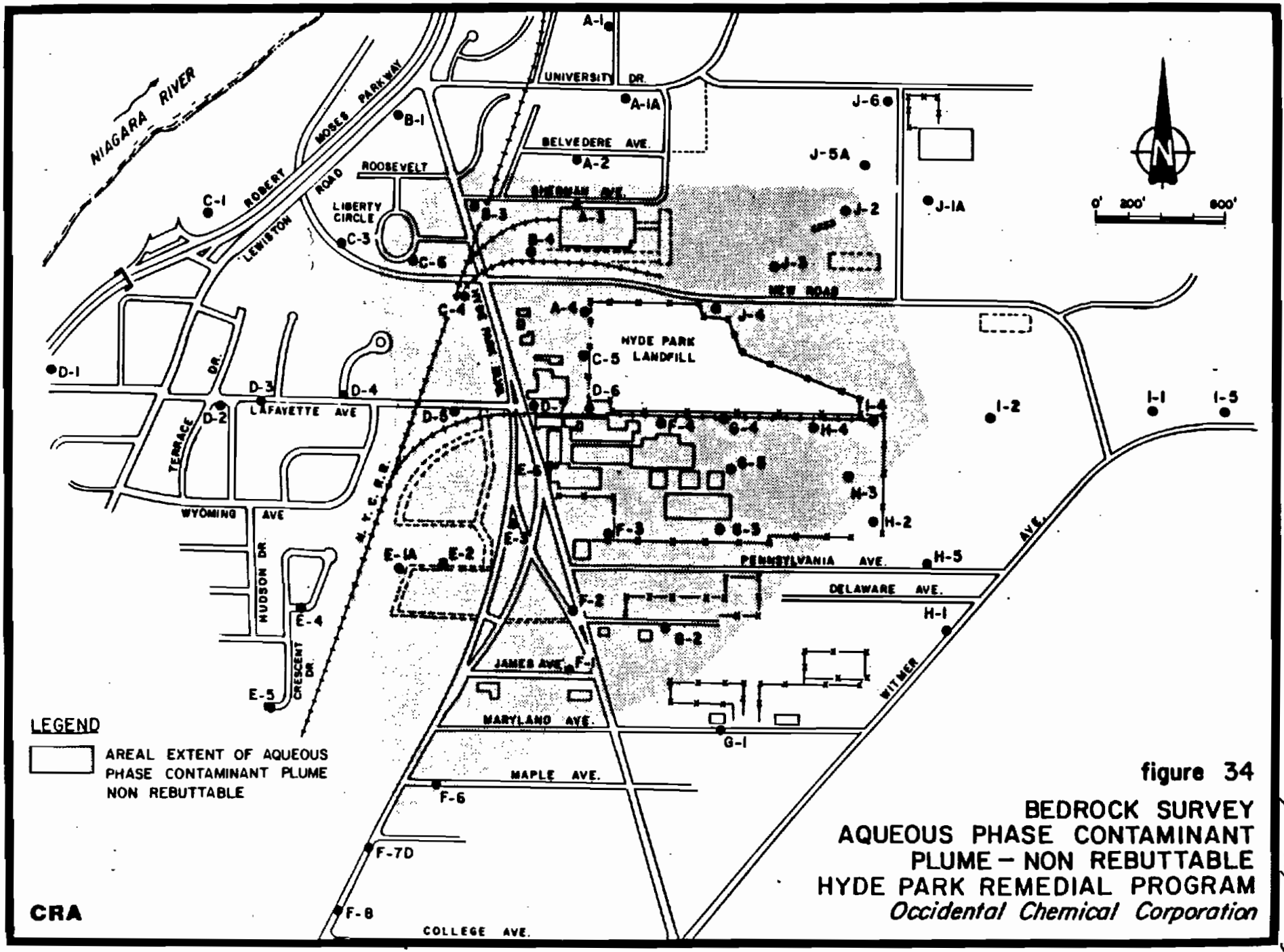


figure 34

BEDROCK SURVEY
AQUEOUS PHASE CONTAMINANT PLUME – NON REBUTTABLE
HYDE PARK REMEDIAL PROGRAM
Occidental Chemical Corporation

(Bargeon, 1984)

1069-8/09/83

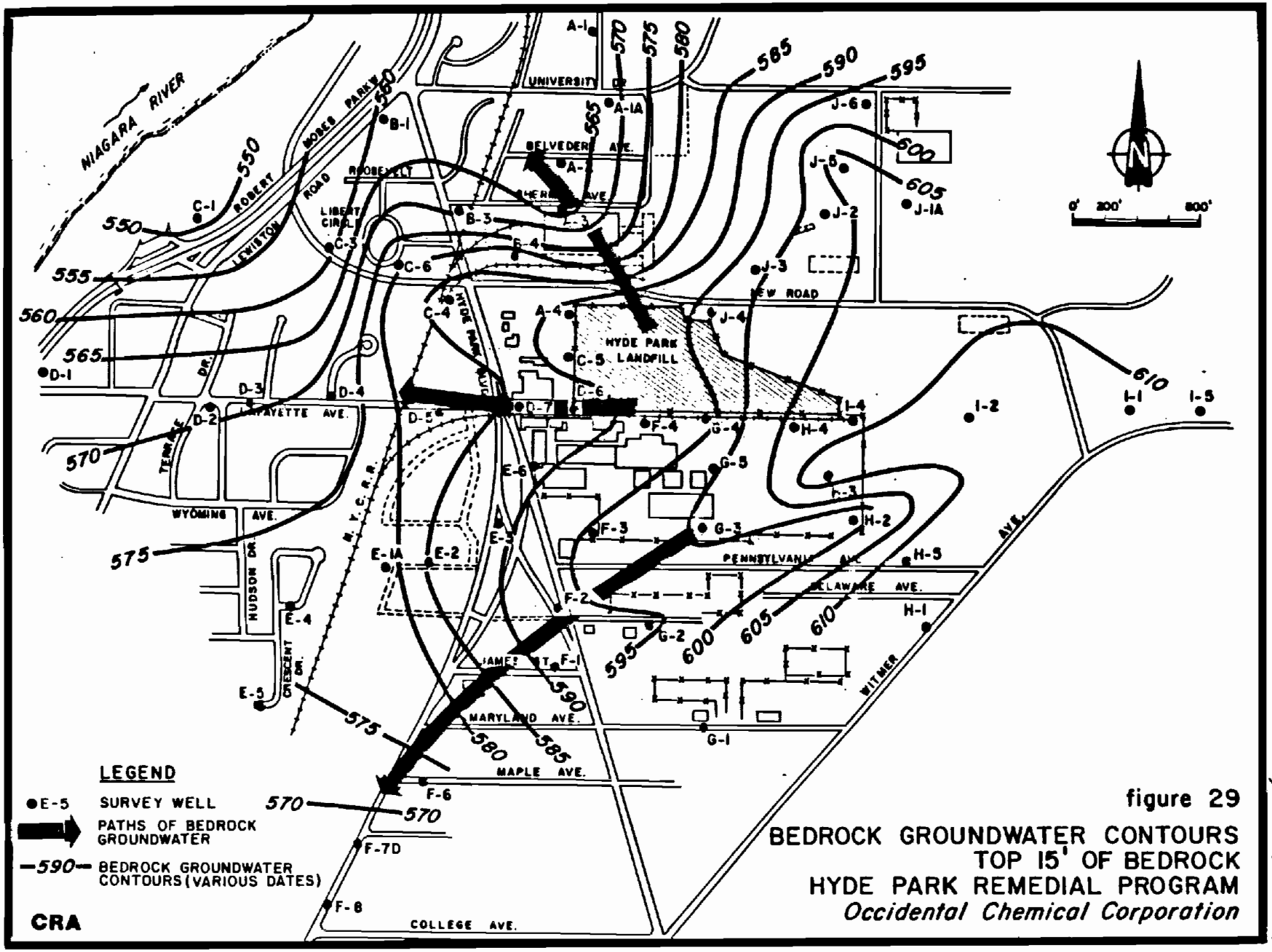


figure 29

BEDROCK GROUNDWATER CONTOURS
TOP 15' OF BEDROCK
HYDE PARK REMEDIAL PROGRAM
Occidental Chemical Corporation

(Bogeon, 1984)

(Bageon, 1984)

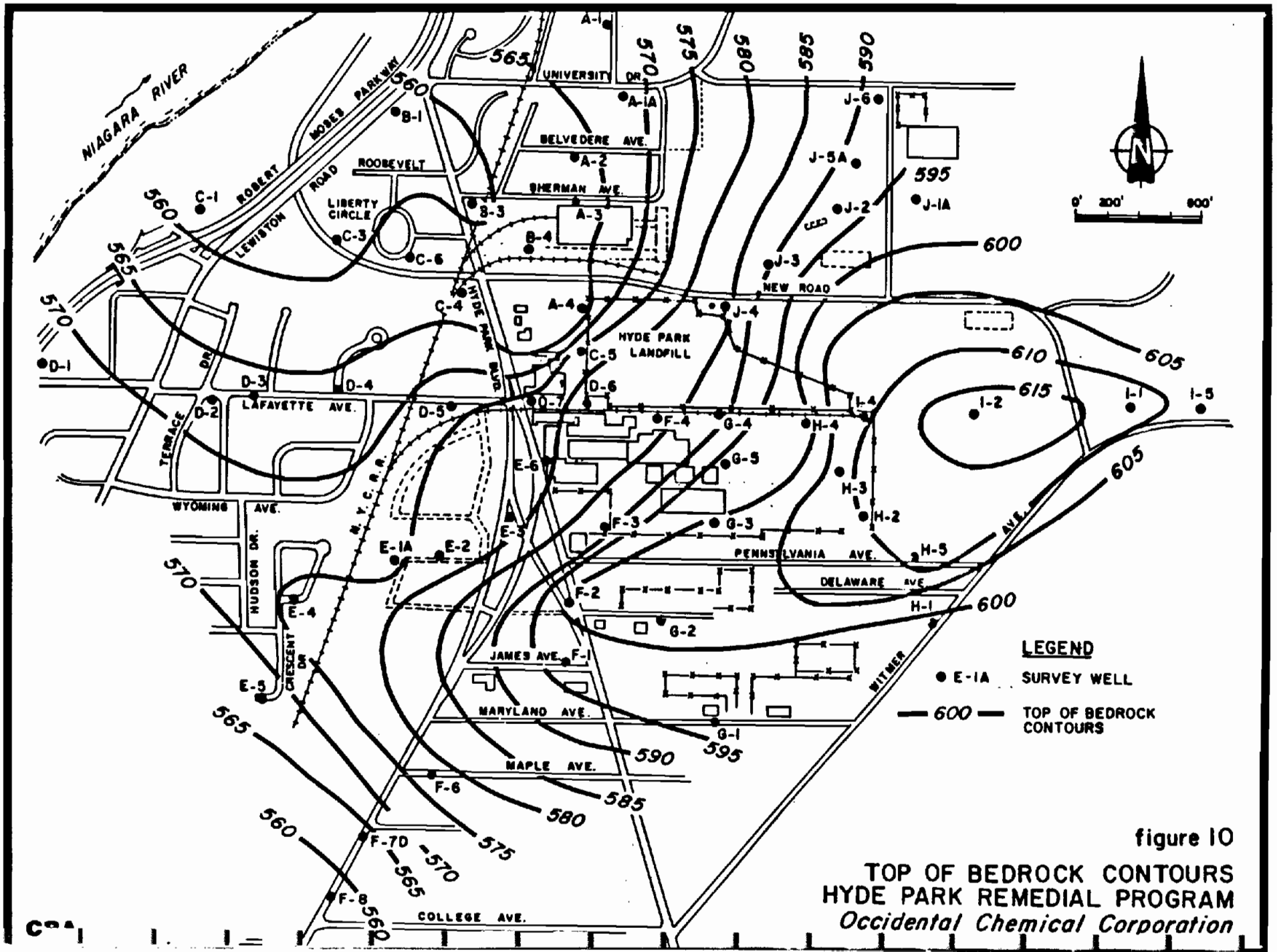
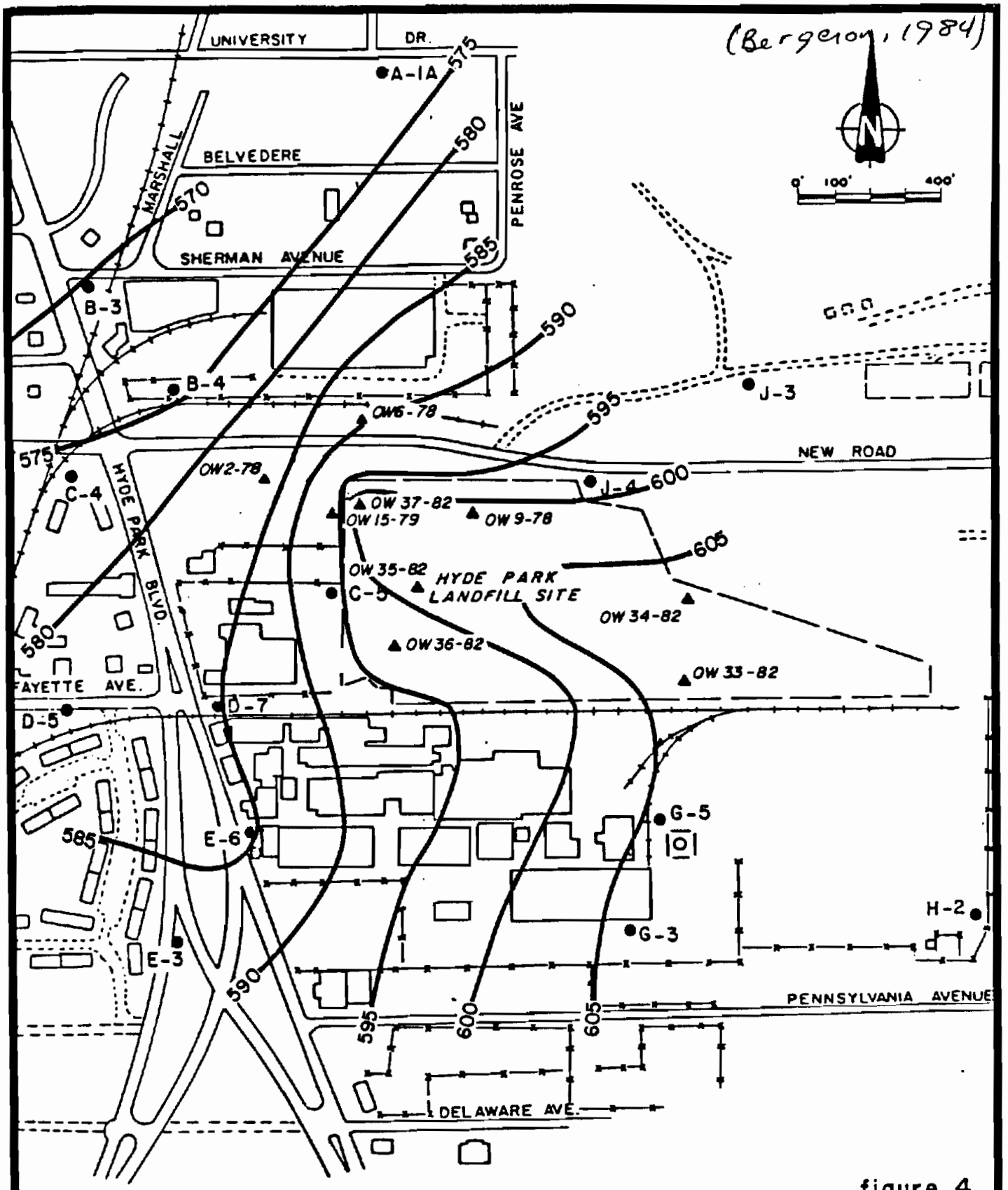


figure 10

TOP OF BEDROCK CONTOURS
HYDE PARK REMEDIAL PROGRAM
Occidental Chemical Corporation



LEGEND

- ▲ SURVEY WELLS INSTALLED PRIOR TO 1983
- ● SURVEY WELLS INSTALLED IN 1983
- GROUNDWATER CONTOURS (USGS DATUM)

CRA

figure 4

OVERBURDEN GROUNDWATER CONTOURS AS MEASURED DECEMBER 21, 1983 HYDE PARK REMEDIAL PROGRAM

Occidental Chemical Corporation

1069-21/03/84

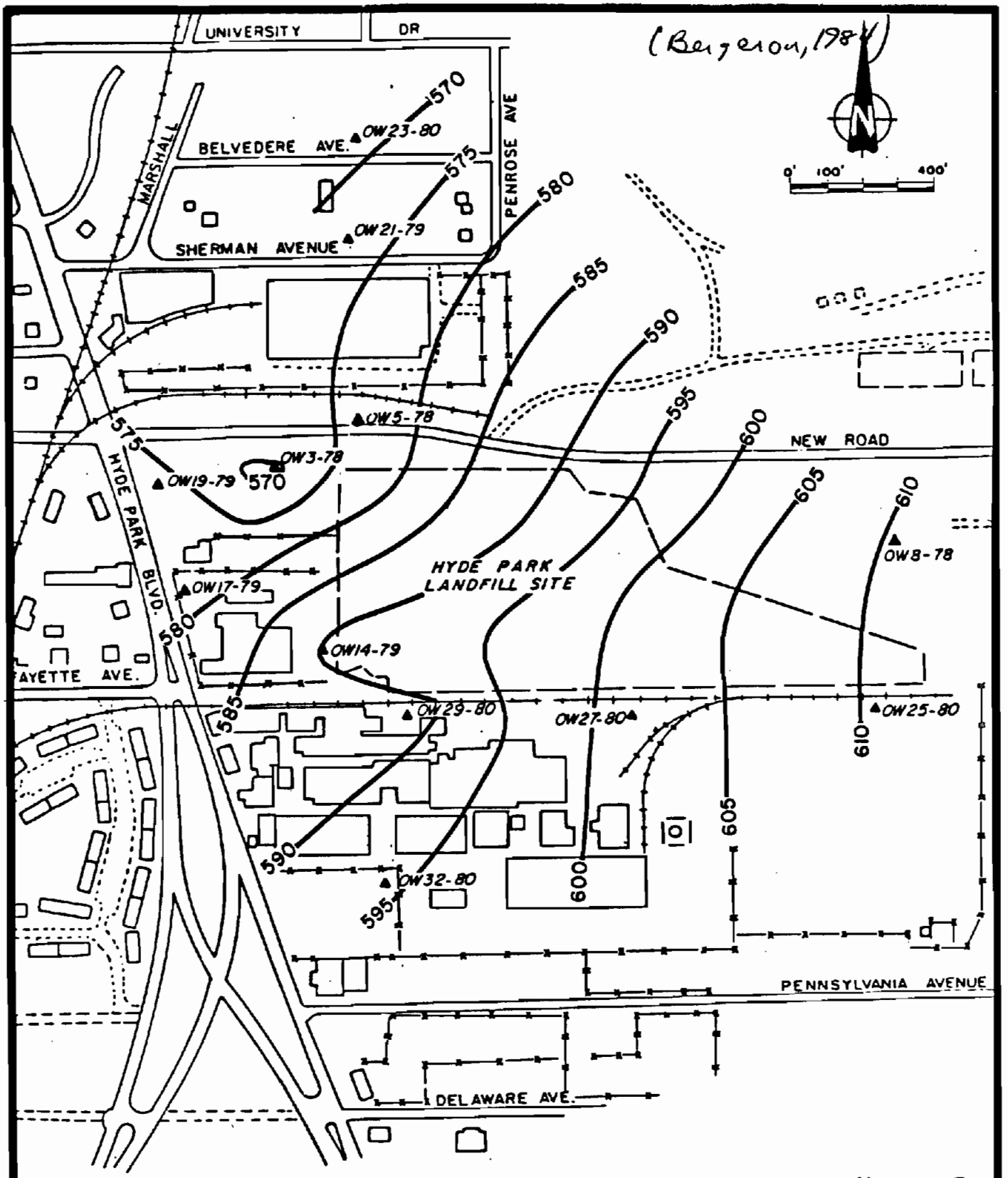


figure 5

OVERBURDEN / BEDROCK INTERFACE GROUNDWATER CONTOURS AS MEASURED DECEMBER 21, 1983 HYDE PARK REMEDIAL PROGRAM

Occidental Chemical Corporation

1069-21/03/84

Hopkins, 1985

REF-17

NIAGARA COUNTY HEALTH DEPARTMENT

MEMORANDUM

TO: Peter Buechi
Attn.: Larry Clare

DATE: July 29, 1985

FROM: Mike Hopkins

SUBJECT: DRAFT PHASE I REPORT - WITMER ROAD SITE

I have reviewed the Witmer Road Site Draft Phase I report. There are numerous errors in the report. I have noted these and many other comments in the page margins in blue ink as requested. Several comments are repeated and elaborated on below for emphasis.

1. It is pointed out that the area used for disposal is now believed to be a much smaller area than indicated in this department's 1982 profile report. Based on more extensive field inspections in 1982 (in conjunction with USGS study) and in 1985 (with Engineering Science/Dames and Moore) it is now our opinion that disposal occurred primarily in the area within 100 to 200 feet of the former burning pits (see fig. I-2). Scavenger dumping of rubble and debris may have occurred on other adjacent areas.

2. Also since the writing of the 1982 profile report, NCHD has become aware of the existence of five private water supply wells northeast of the site along Pennsylvania and Delaware Avenues. These wells were sampled by NCHD in 1984 and 1985. Results of the analysis of three of these wells show low levels of trans -1, 2 - dichloroethene (2 to 6 mcg/l), trichloroethylene (2 to 6 mcg/l), benzine (1 mcg/l) and dichloromethane (1 mcg/l in one sample only). These levels were considered to be below levels of concern by the NYSDOH (2/22/85). The results of samples from the other two wells are pending. The consultant did not use any of this information in his HRS scoring.

3. The report refers to an industrial well one-half mile south of the site used by the American Sales Book Company. The information was apparently taken from the 1964 Johnston report. We do not believe that there is an American Sales Book Company operating in Niagara Falls. There is no listing in the phone book for this Company. In addition, we are unaware of any company using a production well in this area. We have checked SPDES and sewer discharge records and can find no firm discharging water from a well said to be pumping 100 gpm in the Highland Ave./College Ave./Hyde Park area.

Witmer RC
NCHD, 1982

REF-18

PRELIMINARY INVESTIGATION AND PROFILE REPORTS FOR TWENTY-SIX SUSPECTED INDUSTRIAL DISPOSAL SITES IN NIAGARA COUNTY, NEW YORK.

PREPARED BY

NIAGARA COUNTY HEALTH DEPARTMENT
10TH & E. FALLS STREETS
NIAGARA FALLS, NEW YORK 14302

MARCH, 1982

NCHD, 1982

SITE

WITMER ROAD (DEC #932027)

LOCATION

The exact limits of the previous disposal area have not been precisely determined. The general location of the area is west of Witmer Road and north of Maryland Avenue in the Town of Niagara. The area may extend as far north as Delaware Avenue.

A sketch is attached.

OWNERSHIP

The ownership of the property cannot be determined until the location is verified. This area is generally under block ownership and therefore, only a few parties are expected to own this property.

HISTORY

Disposal activities are reported to have begun at this site in the 1940's. The area was used as a dump for incombustibles and large refuse items. The City of Niagara Falls is believed to have dumped here as did other users, including private citizens. Lime cleanouts from process vessels at ISCO (now International Mineral and Chemical) were reportedly dumped here. Slag from the Vanadium Corporation may have been dumped here. A long time area resident stated that a "crusher" was operated on the present site of Kach's Scrap Yard to crush this slag. The resident indicated that household garbage was not dumped or burned here.

The City of Niagara Falls operated a burning pit behind Kach's Scrap Yard. Furniture, wood, crates and cardboard were reportedly burned. The ash was hauled off-site for disposal according to a DPW employee. This pit was used until the late 1960's. The site was closed after numerous complaints of smoke and violations of air quality.

Currently the site is used for scrap yards and as an easement for high voltage towers belonging to Niagara Mohawk. Much of this area was graded prior to construction of these towers in the 1960's. Recent inspections revealed no evidence of previous disposal. A sparce grass cover is established over most of the site, although several bare spots were found. Scavenger dumping of rubbish and several abandoned cars are present.

PREVIOUS SAMPLING

There is no record of any previous sampling at this site.

SOILS/GEOLOGY

A detailed soil survey for this area is unavailable. No boring data was found from on or off-site projects.

NCHD, 1982

SOILS/GEOLOGY (continued)

Bedrock is Lockport Dolomite to unknown depths. The depth to bedrock is not known.

GROUNDWATER

The depth to the water table and the direction of groundwater flow have not been determined. There are no known boring or well records available from areas near this site.

The nearest known drinking water well is located 3,500 feet to the north. Other old and/or abandoned wells are suspected to be present in this area, but specific wells have not been located. Public water is available throughout a three mile radius.

SURFACE WATER

The nearest surface water is the Niagara River, 5,500 feet west of the site. There are no drinking water intakes within three miles.

This area is not within a 100 year flood plain. Some areas appear to be susceptible to surface ponding during wet weather.

There are no wetlands within one mile of this site.

AIR

If it is assumed that the wastes present are of the types described in the "History" section, the potential for air emissions is likely to be small. However, confirmation of the waste types disposed of is needed for an accurate assessment.

There are several residences within 200 feet of the suspected filled area. It is estimated that 1,500 people live within one mile of the site.

Land use in this area includes residential and commercial properties adjacent to the site and industrial property within 600 feet.

FIRE/EXPLOSION

The potential for fire or explosion is unknown. The nearest buildings are located at Mach's Scrap Yard, along Witmer Road and along Maryland Avenue. Over 3,000 people and several hundred buildings are located within a two mile radius.

DIRECT CONTACT

All wastes appear to be covered except for some suspected scavenger dumping. Access is partially restricted by fences, but access is possibly the Niagara Mohawk corridors.

NCHD, 1982

CONCLUSIONS

There is no reported dumping of toxic substances at this site. Sampling will be necessary to confirm this. Samples could be obtained on the Niagara Mohawk property or on the adjacent private properties. Access for well drilling equipment is generally available.

(NYSDOH, 1984)

REF-19

0001 NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER FOR LABORATORIES AND RESEARCH

PAGE 1 RESULTS OF EXAMINATION PENDING APPROVAL

AMPLE ID: 45223 SAMPLE RECEIVED:84/11/15/ CHARGE: 46.90
ROGRAM: 107:HYDE PARK - BLOODY RUN REMEDIAL PROGRAM
OURCE ID: DRAINAGE BASIN:03 GAZETTEER CODE:3155
OLITICAL SUBDIVISION:NIAGARA COUNTY:NIAGARA
ATITUDE:43 07 30. LONGITUDE:79 04 41. Z DIRECTION:
OCATION: TOWN OF NIAGARA, PRIVATE WELL
ESCRIPTION:UNTULIS RESIDENCE, 2645 PENNSYLVANIA AVE.
EPORTING LAB: TOX:LAB FOR ORGANIC ANALYTICAL CHEMISTRY
EST PATTERN: NFBR:NIAGARA FALLS-BLOODY RUN
AMPLE TYPE: 012:FINISHED WATER, UNCHLORINATED - MONITORING
IME OF SAMPLING: 84/11/14 10: LAST ACTION DATE:85/01/30

	PARAMETER	RESULT
T43809	1,3,5-TRICHLOROBENZENE	< 1.0 MCG/L
T44009	1,2,4-TRICHLOROBENZENE	< 1.0 MCG/L
T43909	1,2,3-TRICHLOROBENZENE	< 1.0 MCG/L
T52509	HEXACHLOROBUTADIENE (C-46)	< 1.0 MCG/L
T50309	1,2,4,5-TETRACHLOROBENZENE	< 1.0 MCG/L
T49209	HEXACHLOROCYCLOPENTADIENE (C-56)	< 1.0 MCG/L
T50109	1,2,3,4-TETRACHLOROBENZENE	< 1.0 MCG/L
T46809	HEXACHLOROBENZENE	< 1.0 MCG/L
T15709	HCH,ALPHA	< 1.0 MCG/L
T15809	HCH,BETA	< 1.0 MCG/L
T35609	HCH,GAMMA (LINDANE)	< 1.0 MCG/L
T16009	HCH,DELTA	< 1.0 MCG/L
T44309	2-CHLOROBENZOTRIFLUORIDE	< 1.0 MCG/L
T85109	M-MONOCHLOROBENZOTRIFLUORIDE	< 1.0 MCG/L
T44409	4-CHLOROBENZOTRIFLUORIDE	< 1.0 MCG/L
T69309	OCTACHLOROCYCLOPENTENE	< 1.0 MCG/L
T69709	PENTACHLOROBENZENE	< 1.0 MCG/L
T39909	MIREX	< 1.0 MCG/L
T49609	2,4,5-TRICHLOROPHENOL	< 1.0 MCG/L
T82009	O-CHLOROBENZOIC ACID	< 1.0 MCG/L
T82109	M-CHLOROBENZOIC ACID	< 1.0 MCG/L
T82209	P-CHLOROBENZOIC ACID	< 1.0 MCG/L
	FOLLOWING PARAMETERS NOT PART OF TEST PATTERN	
T62009	CHLOROMETHANE	< 1. MCG/L
T61809	BROMOMETHANE	< 1. MCG/L
T41009	VINYL CHLORIDE	< 1. MCG/L
T70209	DICHLORODIFLUOROMETHANE	< 1. MCG/L
T61909	CHLOROETHANE	< 1. MCG/L
T61709	TRICHLOROFLUOROMETHANE	< 1. MCG/L
T23809	DICHLOROMETHANE	1. MCG/L
T50909	1,1-DICHLOROETHENE	< 1. MCG/L
T51909	1,1-DICHLOROETHANE	< 1. MCG/L
T61209	TRANS-1,2-DICHLOROETHENE	2. MCG/L

**** CONTINUED ON NEXT PAGE ****

COPIES SENT TO: CO(1), RO(1), LPHE(1), FED(0), INFO-P(0), INFO-L(1)

****
*
*

(NYSDOH, 1984)

002 NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER FOR LABORATORIES AND RESEARCH

AGE 2 RESULTS OF EXAMINATION PENDING APPROVAL

AMPLE ID: 45223 SAMPLE RECEIVED:84/11/15/ CHARGE: 46.90
OLITICAL SUBDIVISION:NIAGARA COUNTY:NIAGARA
OCATION: TOWN OF NIAGARA, PRIVATE WELL
IME OF SAMPLING: 84/11/14 10: LAST ACTION DATE:85/01/30

	PARAMETER	RESULT
T39009	CHLOROFORM	< 1. MCG/L
T50809	1,2-DICHLOROETHANE	< 1. MCG/L
T23609	1,1,1-TRICHLOROETHANE	< 1. MCG/L
T36609	CARBON TETRACHLORIDE	< 1. MCG/L
T38909	BROMODICHLOROMETHANE	< 1. MCG/L
T61309	1,2-DICHLOROPROPANE	< 1. MCG/L
T61509	TRANS-1,3-DICHLOROPROPENE	< 1. MCG/L
T41109	TRICHLOROETHYLENE	2. MCG/L
T44909	DIBROMOCHLOROMETHANE	< 1. MCG/L
T61409	CIS-1,3-DICHLOROPROPENE	< 1. MCG/L
T51709	1,1,2-TRICHLOROETHANE	< 1. MCG/L
T61109	2-CHLOROETHYLVINYL ETHER	< 1. MCG/L
T42109	BROMOFORM	< 1. MCG/L
T51809	1,1,2,2-TETRACHLOROETHANE	< 1. MCG/L
T41209	TETRACHLOROETHENE	< 1. MCG/L
T40909	CHLOROBENZENE	< 1. MCG/L
T49709	1,3-DICHLOROBENZENE	< 1. MCG/L
T44109	1,2-DICHLOROBENZENE	< 1. MCG/L
T44209	1,4-DICHLOROBENZENE	< 1. MCG/L
T34409	BENZENE	1. MCG/L
T39209	TOLUENE	< 1. MCG/L
T51009	ETHYLBENZENE	< 1. MCG/L
T85209	1-CHLOROCYCLOHEXENE-1	< 1. MCG/L
T70409	PARA-XYLENE	< 1. MCG/L
T70309	META-XYLENE	< 1. MCG/L
T51409	ORTHO-XYLENE	< 1. MCG/L
T85309	CUMENE	< 1. MCG/L
T85409	STYRENE	< 1. MCG/L
T85509	P-BROMOFLUOROBENZENE	< 1. MCG/L
T51109	N-PROPYLBENZENE	< 1. MCG/L
T85609	TERT-BUTYLBENZENE	< 1. MCG/L
T85709	O/P-CHLOROTOLUENE	< 1. MCG/L
T51209	BROMOBENZENE	< 1. MCG/L
T50509	META-CHLOROTOLUENE	< 1. MCG/L
T85809	1,3,5-TRIMETHYLBENZENE	< 1. MCG/L
T85909	1,2,4-TRIMETHYLBENZENE	< 1. MCG/L
T86009	P-CYMENE	< 1. MCG/L
T86109	CYCLOPROPYLBENZENE	< 1. MCG/L
T86209	SEC-BUTYLBENZENE	< 1. MCG/L
T86309	N-BUTYLBENZENE	< 1. MCG/L
T86409	2,3-BENZOFURAN	< 1. MCG/L
T65609	NAPHTHALENE	< 5. MCG/L
T39809	PCB,AROCLOR 1221	< 0.05 MCG/L
T38009	PCB,AROCLOR 1016/1242	< 0.05 MCG/L
T38109	PCB,AROCLOR 1254	< 0.05 MCG/L

(NYSDOH, 1984)

0003 NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER FOR LABORATORIES AND RESEARCH

PAGE 1 RESULTS OF EXAMINATION PENDING APPROVAL

SAMPLE ID: 45224 SAMPLE RECEIVED:84/11/15/ CHARGE: 46.90
PROGRAM; 107:HYDE PARK - BLOODY RUN REMEDIAL PROGRAM
SOURCE ID: DRAINAGE BASIN:03 GAZETTEER CODE:3155
POLITICAL SUBDIVISION:NIAGARA COUNTY:NIAGARA
LATITUDE: . LONGITUDE: . Z DIRECTION:
LOCATION: TOWN OF NIAGARA PRIVATE WELL
DESCRIPTION:LACHANCE RESIDENCE, 26 33 PENNSYLVANIA AVE.
REPORTING LAB: TOX:LAB FOR ORGANIC ANALYTICAL CHEMISTRY
TEST PATTERN: NFBR:NIAGARA FALLS-BLOODY RUN
SAMPLE TYPE: 012:FINISHED WATER, UNCHLORINATED - MONITORING
TIME OF SAMPLING: 84/11/14 10:30 LAST ACTION DATE:85/01/30

	PARAMETER	RESULT
T43809	1,3,5-TRICHLOROBENZENE	< 1.0 MCG/L
T44009	1,2,4-TRICHLOROBENZENE	< 1.0 MCG/L
T43909	1,2,3-TRICHLOROBENZENE	< 1.0 MCG/L
T52509	HEXACHLOROBUTADIENE (C-46)	< 1.0 MCG/L
T50309	1,2,4,5-TETRACHLOROBENZENE	< 1.0 MCG/L
T49209	HEXACHLOROCYCLOPENTADIENE (C-56)	< 1.0 MCG/L
T50109	1,2,3,4-TETRACHLOROBENZENE	< 1.0 MCG/L
T48809	HEXACHLOROBENZENE	< 1.0 MCG/L
T15709	HCH,ALPHA	< 1.0 MCG/L
T15809	HCH,BETA	< 1.0 MCG/L
T35609	HCH,GAMMA (LINDANE)	< 1.0 MCG/L
T16009	HCH,DELTA	< 1.0 MCG/L
T44309	2-CHLOROBENZOTRIFLUORIDE	< 1.0 MCG/L
T85109	M-MONOCHLOROBENZOTRIFLUORIDE	< 1.0 MCG/L
T44409	4-CHLOROBENZOTRIFLUORIDE	< 1.0 MCG/L
T69309	OCTACHLOROCYCLOPENTENE	< 1.0 MCG/L
T69709	PENTACHLOROBENZENE	< 1.0 MCG/L
T39909	MIREX	< 1.0 MCG/L
T49609	2,4,5-TRICHLOROPHENOL	< 1.0 MCG/L
T82009	O-CHLOROBENZOIC ACID	< 1.0 MCG/L
T82109	M-CHLOROBENZOIC ACID	< 1.0 MCG/L
T82209	P-CHLOROBENZOIC ACID	< 1.0 MCG/L
	FOLLOWING PARAMETERS NOT PART OF TEST PATTERN	
T62009	CHLOROMETHANE	< 1. MCG/L
T61809	BROMOMETHANE	< 1. MCG/L
T41009	VINYL CHLORIDE	< 1. MCG/L
T70209	DICHLORODIFLUOROMETHANE	< 1. MCG/L
T61909	CHLOROETHANE	< 1. MCG/L
T61709	TRICHLOROFLUOROMETHANE	< 1. MCG/L
T23809	DICHLOROMETHANE	< 1. MCG/L
T50909	1,1-DICHLOROETHENE	< 1. MCG/L
T51909	1,1-DICHLOROETHANE	< 1. MCG/L
T61209	TRANS-1,2-DICHLOROETHENE	2. MCG/L

**** CONTINUED ON NEXT PAGE ****

COPIES SENT TO: CO(1), RO(1), LPHE(1), FED(0), INFO-P(0), INFO-L(1)

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(NYSDOH, 1984)

005 NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER FOR LABORATORIES AND RESEARCH

AGE 1 RESULTS OF EXAMINATION PENDING APPROVAL

MPLE ID: 45225 SAMPLE RECEIVED:84/11/15/ CHARGE: 46.90
OGRAM: 107:HYDE PARK - BLOODY RUN REMEDIAL PROGRAM
OURCE ID: DRAINAGE BASIN:03 GAZETTEER CODE:3155
LITICAL SUBDIVISION:NIAGARA COUNTY:NIAGARA
TITUDE:43 07 30. LONGITUDE:79 04 41. Z DIRECTION:
OCATION: TOWN OF NIAGARA PRIVATE WELL
SCRIPTION:WEBER RESIDENCE 2705 PENNSYLVANIA AVE.
PORTING LAB: TOX:LAB FOR ORGANIC ANALYTICAL CHEMISTRY
ST PATTERN: NFBR:NIAGARA FALLS-BLOODY RUN
MPLE TYPE: 012:FINISHED WATER, UNCHLORINATED - MONITORING
IE OF SAMPLING: 84/11/14 10:50 LAST ACTION DATE:85/01/30

	PARAMETER	RESULT
T43809	1,3,5-TRICHLOROBENZENE	< 1.0 MCG/L
T44009	1,2,4-TRICHLOROBENZENE	< 1.0 MCG/L
T43909	1,2,3-TRICHLOROBENZENE	< 1.0 MCG/L
T52509	HEXACHLOROBUTADIENE (C-46)	< 1.0 MCG/L
T50309	1,2,4,5-TETRACHLOROBENZENE	< 1.0 MCG/L
T49209	HEXACHLOROCYCLOPENTADIENE (C-56)	< 1.0 MCG/L
T50109	1,2,3,4-TETRACHLOROBENZENE	< 1.0 MCG/L
T48209	HEXACHLOROBENZENE	< 1.0 MCG/L
T15709	HCH,ALPHA	< 1.0 MCG/L
T15809	HCH,BETA	< 1.0 MCG/L
T35609	HCH,GAMMA (LINDANE)	< 1.0 MCG/L
T16009	HCH,DELTA	< 1.0 MCG/L
T44309	2-CHLOROBENZOTRIFLUORIDE	< 1.0 MCG/L
T85109	M-MONOCHLOROBENZOTRIFLUORIDE	< 1.0 MCG/L
T44409	4-CHLOROBENZOTRIFLUORIDE	< 1.0 MCG/L
T69309	OCTACHLOROCYCLOPENTENE	< 1.0 MCG/L
T69709	PENTACHLOROBENZENE	< 1.0 MCG/L
T39909	MIREX	< 1.0 MCG/L
T49609	2,4,5-TRICHLOROPHENOL	< 1.0 MCG/L
T82009	O-CHLOROBENZOIC ACID	< 1.0 MCG/L
T82109	M-CHLOROBENZOIC ACID	< 1.0 MCG/L
T82209	P-CHLOROBENZOIC ACID	< 1.0 MCG/L
	FOLLOWING PARAMETERS NOT PART OF TEST PATTERN	
T62009	CHLOROMETHANE	< 1. MCG/L
T61809	BROMOMETHANE	< 1. MCG/L
T41009	VINYL CHLORIDE	< 1. MCG/L
T70209	DICHLORODIFLUOROMETHANE	< 1. MCG/L
T61909	CHLOROETHANE	< 1. MCG/L
T61709	TRICHLOROFLUOROMETHANE	< 1. MCG/L
T23809	DICHLOROMETHANE	< 1. MCG/L
T50909	1,1-DICHLOROETHENE	< 1. MCG/L
T51909	1,1-DICHLOROETHANE	< 1. MCG/L
T61209	TRANS-1,2-DICHLOROETHENE	6. MCG/L

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PIES SENT TO: CO(1), RO(1), LPHE(1), FED(0), INFO-P(0), INFO-L(1)

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(NYS DOH, 1984)

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER FOR LABORATORIES AND RESEARCH

GE 2 RESULTS OF EXAMINATION PENDING APPROVAL

AMPLE ID: 45225 SAMPLE RECEIVED:84/11/15/ CHARGE: 46.90
OLITICAL SUBDIVISION:NIAGARA COUNTY:NIAGARA
OCATION: TOWN OF NIAGARA PRIVATE WELL
IME OF SAMPLING: 84/11/14 10:50 LAST ACTION DATE:85/01/30

	PARAMETER	RESULT
T39009	CHLOROFORM	< 1. MCG/L
T50809	1,2-DICHLOROETHANE	< 1. MCG/L
T23609	1,1,1-TRICHLOROETHANE	< 1. MCG/L
T36609	CARBON TETRACHLORIDE	< 1. MCG/L
T38909	BROMODICHLOROMETHANE	< 1. MCG/L
T61309	1,2-DICHLOROPROPANE	< 1. MCG/L
T61509	TRANS-1,3-DICHLOROPROPENE	< 1. MCG/L
T41109	TRICHLOROETHYLENE	6. MCG/L
T44909	DIBROMOCHLOROMETHANE	< 1. MCG/L
T61409	CIS-1,3-DICHLOROPROPENE	< 1. MCG/L
T51709	1,1,2-TRICHLOROETHANE	< 1. MCG/L
T61109	2-CHLOROETHYLVINYL ETHER	< 1. MCG/L
T42109	BROMOFORM	< 1. MCG/L
T51809	1,1,2,2-TETRACHLOROETHANE	< 1. MCG/L
T41209	TETRACHLOROETHENE	< 1. MCG/L
T40909	CHLOROBENZENE	< 1. MCG/L
T49709	1,3-DICHLOROBENZENE	< 1. MCG/L
T44109	1,2-DICHLOROBENZENE	< 1. MCG/L
T44209	1,4-DICHLOROBENZENE	< 1. MCG/L
T34409	BENZENE	1. MCG/L
T39209	TOLUENE	< 1. MCG/L
T51009	ETHYLBENZENE	< 1. MCG/L
T85209	1-CHLOROCYCLOHEXENE-1	< 1. MCG/L
T70409	PARA-XYLENE	< 1. MCG/L
T70309	META-XYLENE	< 1. MCG/L
T51409	ORTHO-XYLENE	< 1. MCG/L
T85309	CUMENE	< 1. MCG/L
T85409	STYRENE	< 1. MCG/L
T85509	P-BROMOFLUOROBENZENE	< 1. MCG/L
T51109	N-PROPYLBENZENE	< 1. MCG/L
T85609	TERT-BUTYLBENZENE	< 1. MCG/L
T85709	O/P-CHLOROTOLUENE	< 1. MCG/L
T51209	BROMOBENZENE	< 1. MCG/L
T50509	META-CHLOROTOLUENE	< 1. MCG/L
T85809	1,3,5-TRIMETHYLBENZENE	< 1. MCG/L
T85909	1,2,4-TRIMETHYLBENZENE	< 1. MCG/L
T86009	P-CYMENE	< 1. MCG/L
T86109	CYCLOPROPYLBENZENE	< 1. MCG/L
T86209	SEC-BUTYLBENZENE	< 1. MCG/L
T86309	N-BUTYLBENZENE	< 1. MCG/L
T86409	2,3-BENZOFURAN	< 1. MCG/L
T65609	NAPHTHALENE	< 5. MCG/L
T39809	PCB,AROCLOR 1221	< 0.05 MCG/L
T38009	PCB,AROCLOR 1016/1242	< 0.05 MCG/L
T38109	PCB,AROCLOR 1254	< 0.05 MCG/L
T41609	PCB,AROCLOR 1260	< 0.05 MCG/L

APPENDIX B

PROPOSED UPDATED NYS REGISTRY SHEET

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

CLASSIFICATION CODE: 2a REGION: 9 SITE CODE: 932027

NAME OF SITE : Witmer Road Site
STREET ADDRESS: Witmer Road at Maryland Ave.

TOWN/CITY:	COUNTY:	ZIP:
Niagara	Niagara	

SITE TYPE: Open Dump-X Structure- Lagoon- Landfill- Treatment Pond-
ESTIMATED SIZE: Acres

SITE OWNER/OPERATOR INFORMATION:
CURRENT OWNER NAME....: Adolph Kachinoski
CURRENT OWNER ADDRESS.: 4800 Witmer Rd., Niagara Falls, NY 14305
OWNER(S) DURING USE...: unknown
OPERATOR DURING USE...: City of Niagara Falls
OPERATOR ADDRESS.....: City Hall, Main St., Niagara Falls, NY
PERIOD ASSOCIATED WITH HAZARDOUS WASTE: From 1940 To 1960

SITE DESCRIPTION:
Site was used as a dump for incombustibles and large refuse items. City of Niagara Falls used the site for open burning. Also lime cleanouts from process vessels at ISCO (now International Mineral and Chemical) were reportedly dumped here. Currently the site is used for scrap yard and as an easement for high voltage towers of Niagara Mohawk Two subsurface soil samples were collected from the site by U.S.C.S. in August of 1982 and May of 1983. Samples were analyzed for Ni, Fe, Cu and organics. The concentration of Cu exceeded background levels, seven organic priority pollutants were detected at low levels.

HAZARDOUS WASTE DISPOSED: Confirmed- Suspected -X

TYPE	QUANTITY (units)
incinerator residue	unknowne
lime from process vessels, general refuse	

SITE CODE: 932027

ANALYTICAL DATA AVAILABLE:

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

CONTRAVENTION OF STANDARDS:

Groundwater- Drinking Water- Surface Water- Air-

LEGAL ACTION:

TYPE..: none X State- Federal-
STATUS: In Progress- Completed-

REMEDIAL ACTION:

Proposed- Under Design- In Progress- Completed-
NATURE OF ACTION: none x

GEOTECHNICAL INFORMATION:
SOIL TYPE: sandy clay
GROUNDWATER DEPTH: unknown

ASSESSMENT OF ENVIRONMENTAL PROBLEMS:

Insufficient information.

ASSESSMENT OF HEALTH PROBLEMS:

Insufficient Information

PERSON(S) COMPLETING THIS FORM:

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

NAME.: Peter Buechi
TITLE: Assoc. Sanitary Engr.

NAME.: A. Tayyebit
TITLE: Asst. San. Engr.

DATE.: 01/24/85

NEW YORK STATE DEPARTMENT OF HEALTH

NAME.: R. Tramontano
TITLE: Bur. Tox. Subst. Assess.

NAME.:
TITLE:

DATE.: 01/24/85