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915058

ENGINEERING INVESTIGATIONS AT INACTIVE HAZARDOUS WASTE SITES

PHASE I INVESTIGATION

Winsmith Div.-UMC Corp.

Village of Springville

Site No. 915058

Erie County

Prepared for:

New York State Department of Environmental Conservation

50 Wolf Road, Albany, New York 12233

Thomas C. Jorling, *Commissioner*

Division of Hazardous Waste Remediation

Michael J. O'Toole, P.E., *Director*

By:

ENGINEERING-SCIENCE

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

WINSMITH DIVISION-UMC CORP.
NYS SITE NUMBER 915058
CITY OF SPRINGVILLE
ERIE COUNTY
NEW YORK STATE

Prepared For

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

Prepared By

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290 ELWOOD DAVIS ROAD
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In Association With

DAMES & MOORE
2996 BELGIUM ROAD
BALDWINSVILLE, NEW YORK 13027

DATE OF SUBMITTAL: January 1989

WINSMITH DIVISION - UMC CORP.

TABLE OF CONTENTS

SECTION I

EXECUTIVE SUMMARY

This report, prepared for the New York State Department of Environmental Conservation (NYSDEC) presents the results of the Phase I investigation for the Winsmith Division - UMC Corp. Site (NYS Site Number 915058, EPA Site Number D002123552) located in the Village of Springville, Erie County, New York (see Figure I-1).

SITE BACKGROUND

The Winsmith Division - UMC Corp. site, a 3000 cubic foot disposal area (see Figure I-2), was owned by Winsmith Division of UMC, INC. (1963-1984), Winsmith, Inc. (1946-1963), and Winfield H. Smith, Inc. (1924-1946), during the time wastes were disposed of at the site (Interagency Task Force 1978). An estimated 3,000 cubic feet of wastes containing cyanide, oil and grease, acids, scrap metals, and other process wastes were landfilled at the site between 1930 and 1968 (ECDEP, October, 1983). The site has an adequate vegetative cover, but is not graded to prevent ponding of surface water. During a recent site visit, discolored surface water with a greenish tint was observed along the west side of the site between the hill and the shed (site visits by ES and D&M, and ECDEP).

In 1978 and 1985, surface water samples were collected in the vicinity of the site by Calspan Advanced Technology Center and BLT Technical Services, respectively. The contaminants detected included oil and grease. These contaminants were not detected in concentrations exceeding the New York State Class D Surface Water Quality Standards.

In 1978, Earth Dimensions was retained by Winsmith Corp. to collect soil samples at the site and analyze them for cyanide and oil and grease (Calspan Advanced Technology Center, 1978:Table 3). The analytical results from this sampling indicate that high concentrations of oil and grease (1,500 ppm) were present at one of the four boring locations (sample collected at a depth of 7 feet). Cyanide concentrations were less than 0.02 ppm (ECDEP, 1983) for the water and soil samples that were analyzed.

ASSESSMENT

In an attempt to quantify the risk associated with this site, we applied the Hazard Ranking Scoring system (HRS) 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 40CFR Subpart H Section 300.81, the HRS scoring system was developed for use in evaluating the relative potential of uncontrolled hazardous disposal substances 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 hazardous potential of the substances at a facility; 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 is:

S_M	= 26.35	S_A	= 0
S_{GW}	= 44.90	S_{FE}	= 0
S_{SW}	= 7.83	S_{DC}	= 0

RECOMMENDATIONS

The following recommendations are made for the completion of Phase II:

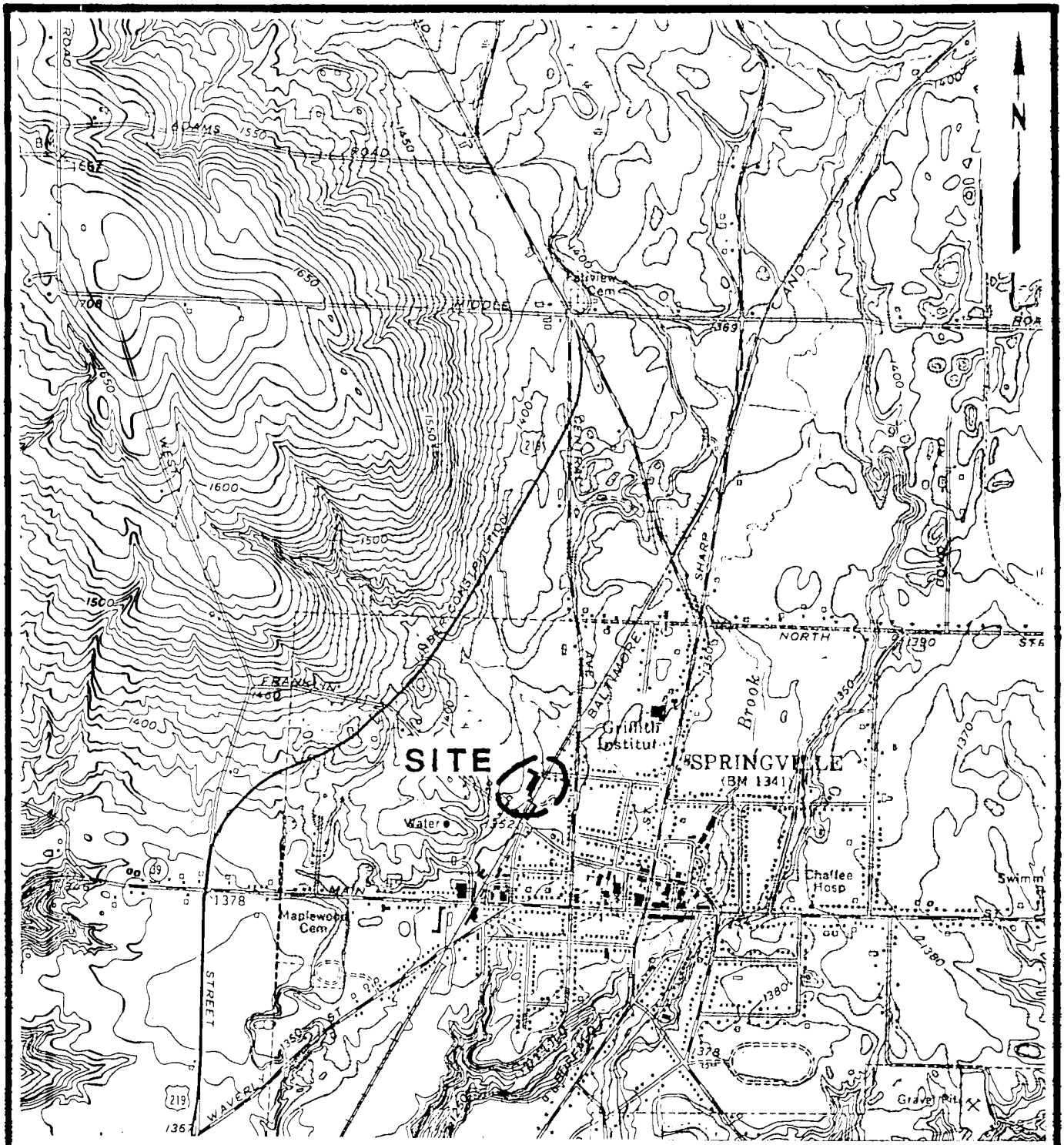
- Geophysical Survey Study consisting of electrical resistivity and magnetometer surveys;

- Groundwater monitoring system consisting of one upgradient and two down gradient wells (the direction of groundwater flow is expected to be south);

- Surface water and sediment monitoring consisting of three monitoring stations from the drainage ditch that flows into Spring Creek; and

- Analyses to include Hazardous Substance List (HSL) organics and HSL metals, and cyanide.

The estimated man-hour requirements to complete Phase II are 1,212, while the estimated cost is $79,818.



LATITUDE: 42°30'33" N
LONGITUDE: 78°40'21" W

SCALE

0 1000 2000 3000 4000 FEET

REFERENCE: U.S.G.S. 7.5' Topographic Map
Springville, NY (1954) Quadrangle

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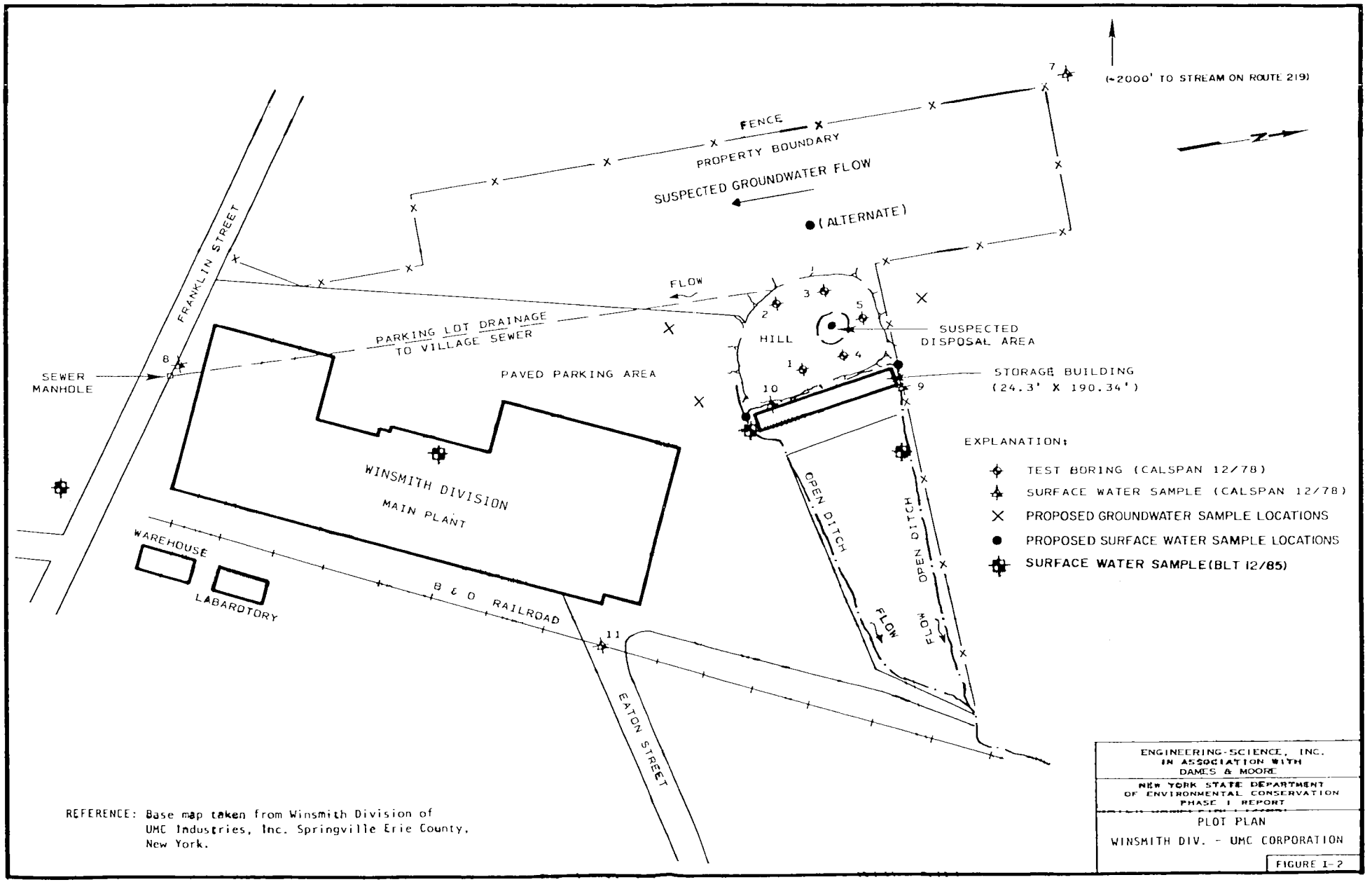
SITE LOCATION MAP

WINSMITH DIV. - UMC CORPORATION

FIGURE I-1



REFERENCE: Base map taken from Winsmith Division of UMC Industries, Inc. Springville Erie County, New York.

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DAMES & MOORE

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
PHASE I REPORT

PLOT PLAN

WINSMITH DIV. - UMC CORPORATION

FIGURE I-2

SECTION II
PURPOSE

The purpose of the Phase I investigation at the Winsmith Div.-UMC Corp. 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 HRS implementation are included 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 burial of heat treated sludges (cyanides), and neutralized acids. Based on this initial evaluation of the Winsmith Div.-UMC Corp. 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 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 individuals knowledgeable 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 this list is to identify all persons, departments, and/or agencies contacted during the fourth round of the Phase I investigation even though useful information may not have been collected from each source contacted.

SECTION IV

SITE ASSESSMENT

SITE HISTORY

Between 1930 and 1968, an unknown quantity of plant wastes were landfilled in a disposal pit located behind the Winsmith Division - UMC Corporation plant site. Ownership of the plant site including the disposal area during the period of waste disposal was as follows: (NYSDEC Investigation of Inactive Waste Sites).

1963-84	Winsmith Division of UMC, Inc.	Willard C. MacFarland, Gordon Reader, Harold Atkins, and James F. Murray
1946-63	Winsmith, Inc.	James F. Murray and Duncan McLeod
1924-46	Winfield H. Smith, Inc.	Winfield H. Smith

Facility wastes were disposed of in a 20 foot by 15 foot section of the hill to a depth of approximately 10 feet. Plant wastes disposed of at the site from the on-site heat treating process include sludge containing cyanides, oils and greases, and acids. Other plant wastes disposed at the site were scrap metals, water soluble coolants, and painting wastes. (ECDEP, Site Profile Report, 1983).

In 1978, site inspections were conducted by the Erie County Division of Environmental Health (ECDEH) and the Interagency Task Force. Results of both inspections indicated minimal problems with the cover system and no leachate outbreaks; however, the site was inadequately

sloped to prevent the ponding of water and erosion. During the same year, Calspan Advanced Technology Center sampled the surface water from a swale located in the southeast corner of the site and low concentrations of cyanide, oil and grease, and chlorinated hydrocarbons were detected. On October 10, 1978, Earth Dimensions conducted four test borings on the site (Calspan Advanced Technology Center, 1978). The purpose of the borings was to ascertain the extent of landfilled material and to sample the wastes for oil and grease, and cyanide content. In 1985, surface water samples were collected southeast of the site and in the drainage ditch located northeast of the site by BLT Technical Services (Please note that these samples are mislabeled in the reference as "groundwater samples"). The latter samples (1985) were combined and analyzed for cyanide only. The results of these monitoring efforts are discussed in the site contamination section.

SITE TOPOGRAPHY

The Winsmith Plant site is located in the northwest side of the Village of Springville. The plant property is fairly level with surface drainage to the south and east. The disposal area is on a small hill located on the northwest edge of the plant parking area. This hill is grass covered and has no visible signs of previous disposal (ES and D&M Site Inspection, December 1985).

The disposal area is believed to have been in an area on the northern side of the hilltop. This area currently exists as an area approximately 20 feet by 15 feet. Surface water occurs in the depression as a small pond; predominant surface water flow directions would be to the south and east. Two drainage ditches, located to the east of hill, collect this surface runoff and divert the flow to the northeast corner of the property where it eventually flows into Spring Creek (ES and D&M Site Inspection, December 1985)

The plant property is bordered on the north and west by farm lands, by the Baltimore and Ohio Railroad Tracks on the east, and Franklin Street to the south. The surrounding area is predominantly residential with some commercial properties on Franklin Street (ES and D&M site Inspection, December, 1985).

Local Sensitive Environments

A NYS registered wetland is approximatley 0.6 miles northeast of the site. It is designated as SP-11 (NYS Wetland Map).

SITE HYDROLOGY

This summary is based on information from USGS Topographic Maps, NYS Museum and Science Service Bedrock Geology Map and Quarternary Geology Map, LaSala (1968), General Soil Map and Interpretations for Erie County, 1979, and NYS Atlas of Community Water System Sources, 1982.

Regional Geology and Hydrology

The Village of Springville is located in the northern edge of the Appalachian Uplands Physiographic province, an upland of moderate relief underlain by sedimentary rocks dipping south at approximately 2 degrees. Most of the region has been covered by several continental ice sheets during the Pleistocene Epoch (1,600,000 to 10,000 years before the present) (Quarternary Geology Map).

In the area near Springville, the upland landscapes have been shaped largely by subaerial processes (i.e., mass wasting, rain water, and stream erosion) and residual soil covers the bedrock. A thick cover of glacial, lacustrine, and fluvial sediments record the advance and retreat of the Wisconsinan ice sheet. The shapes and sizes of the existing valleys reflect the ice volume, water volumes, and sediment level of previous glacial and melt water channels (Quarternary Geology Map).

Site Hydrogeology

Bedrock occurs at depths of over 150 feet in the vicinity of the site. A municipal well located aproximately 2500 feet northeast of the

site is 150 feet deep, set in a sand and gravel zone. This well provides municipal water for approximately 4200 users (NYS Atlas of Community Water System Sources, 1982).

Groundwater may occur at depths of less than 20 feet as evidenced by dry and shallow wells in the Springville area (LaSala, 1968). According to the USGS Water Resources Investigation Report No. 84-4334, the groundwater flow is south towards Cattaraugus Creek.

Borings completed on the hill where the disposal area is located indicate that approximately 10 feet of impervious soil (gravelly to silty loam) occurs on the hill as a result of landfilling. Natural soils below 10 feet are primarily permeable, well-drained stratified gravelly soil over stone-free silty glacial lake sediments. The relatively impermeable landfilling soils may result in a perched aquifer, as evidenced in a boring south of the disposal pit where the water table was found to be at 5 feet below ground surface (Calspan Advanced Technology Center, 1978). For HRS scoring purposes, the permeability of this soil type is 10^{-3} cm/sec to 10^{-5} cm/sec.

SITE CONTAMINATION

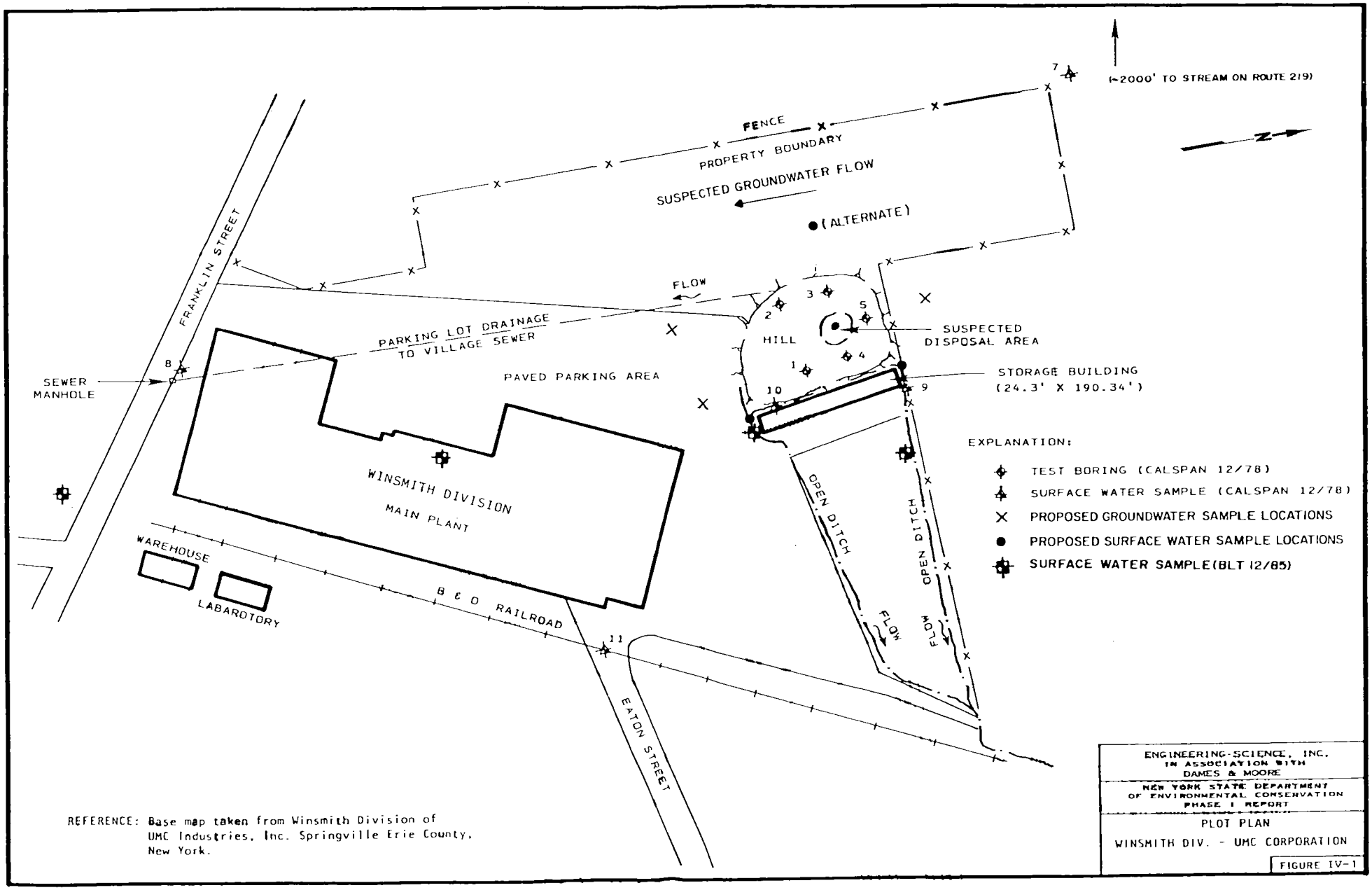
The 20 by 15 feet and 10 feet deep Winsmith Division - UMC Corp. site was used between 1930 and 1968 as a disposal site for wastes resulting from the facility's heat treating, carburizing, and kolene processes. These wastes include cyanide, oil and grease, acids, scrap metals, water-soluble coolants, and painting wastes (ECDEP, Site Profile Report, 1983).

The site size and volume of waste disposed of (3,000 cubic feet) were determined based on soil samples taken at various depths and locations within the area suspected of receiving wastes (on the hill northwest of the facility's storage shed). Calspan Advanced Technology Center collected soil samples for cyanide and oil and grease analyses; however, the samples were not analyzed for metals or organic waste constituents (Calspan Advanced Technology Center, 1978). The site has

an adequate vegetative cover, but surface water runoff is not adequately diverted from the site (Site Investigations - ES and D&M, and ECDEP). Site inspections have also indicated that leachate outbreaks have not occurred at the site.

Contaminants detected in surface water samples collected adjacent to the site include cyanides (<0.02 ppm in 1978, < 0.0005 ppm in 1985), oil and grease (1-3 ppm), and chlorinated hydrocarbons (<1 ppb) (Calspan Advanced Technology Center, 1978; BLT Technical Services, 1985). The cyanide concentration was not in excess of the New York State Class D Surface Water Quality Standard of 22 ppb and the chlorinated hydrocarbons (reported as lindane) do not exceed the U.S. Drinking Water Standard. It is not known if the concentration of oil grease detected violated the New York State Class D standard, which specifies only that there be no "... visible oil film non globules of grease." Soil Samples collected to define the disposal area had oil and grease at concentrations of 13-1500 ppm (Calspan Advanced Technology Center, 1978). Based on these data, it appears that the disposal site does not contribute to any surface water contamination, although contaminants may be present in the soil. Also note, as previously stated, analyses for metal and organic constituents has not been conducted so the type and extent of on-site contamination is not adequately characterized. Sampling locations for both surface water and soil are indicated in Figure IV-1. The analytical results are provided in the appendix in their entirety.

HNu meter readings were taken upwind and downwind of the site in April 1986 by ES and D&M. The HNu meter readings indicated no concentrations of volatile organics above background concentrations of 1 ppm (ES/D&M, 1986).


~2000' TO STREAM ON ROUTE 219)
N
FENCE
PROPERTY BOUNDARY
SUSPECTED GROUNDWATER FLOW
(ALTERNATE)
FRANKLIN STREET
FLOW
PARKING LOT DRAINAGE
TO VILLAGE SEWER
SEWER
MANHOLE
PAVED PARKING AREA
HILL
SUSPECTED
DISPOSAL AREA
STORAGE BUILDING
(24.3' X 190.34')
WINSMITH DIVISION
MAIN PLANT
WAREHOUSE
LABAROTORY
B & O RAILROAD
EATON STREET
OPEN DITCH
OPEN DITCH
FLOW
FLOW
1
2
3
4
5
7
8
9
10
11
EXPLANATION:
TEST BORING (CALSPAN 12/78)
SURFACE WATER SAMPLE (CALSPAN 12/78)
PROPOSED GROUNDWATER SAMPLE LOCATIONS
PROPOSED SURFACE WATER SAMPLE LOCATIONS
SURFACE WATER SAMPLE(BLT 12/85)
REFERENCE: Base map taken from Winsmith Division of
UMC Industries, Inc. Springville Erie County,
New York.
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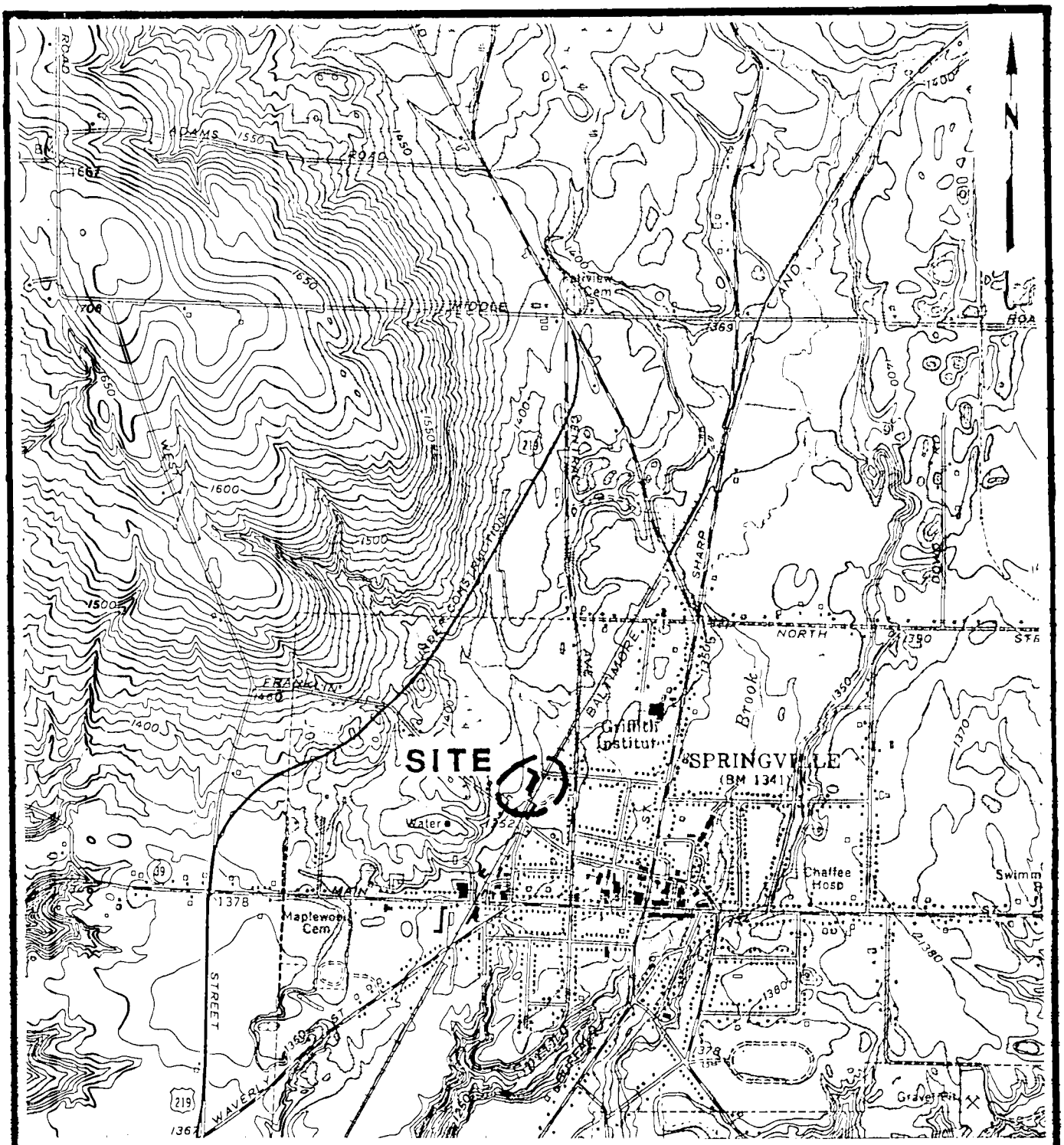
OF ENVIRONMENTAL CONSERVATION
PHASE I REPORT
PLOT PLAN
WINSMITH DIV. - UMC CORPORATION
FIGURE IV-1

NARRATIVE SUMMARY

The Winsmith Division-UMC Corporation site, a 20' x 15' x 10' deep landfill, was owned by several individuals during the time the site was used for waste disposal. More than 3,000 cubic feet of plant wastes including heat-treated sludge containing cyanides, oil and grease, and scrap metals and painting wastes were reportedly landfilled at the site between 1930 and 1968 (ECDEP Site Profile Report, 1983).

The site is adequately covered with vegetation but not graded adequately to prevent the ponding of water and soil erosion. Discolored surface water having a greenish tint was observed along the west side of the site (ES and D&M site inspection, 12/9/85). Oil and grease (1-3 ppm), cyanide (<0.02 ppm), and chlorinated hydrocarbons (<1 ppb) contaminants were detected in surface water samples collected by Calspan and BLT Technical Services. The concentration of cyanides and chlorinated hydrocarbons (reported as Lindane) detected do not exceed the New York State Class D Surface Water Quality Standards (Calspan Advanced Technology Center Report) or the U.S. Drinking Water Standards. The concentration of oil and grease (1-3 ppm) that was detected in the surface water may or may not have exceeded the Class D standard, which specifies only that there be no "... visible oil film nor globules of grease."

Earth Dimensions (Calspan Advanced Technology Center, 1978) sampled and analyzed the soil for oil and grease and used the analysis to evaluate the extent of waste disposal. Oil and grease were found in significant concentrations ranging from 13-1500 ppm. Soil and surface water samples were not analyzed for metal or organic contamination. Therefore, the extent of on-site contamination is unknown. Also, no groundwater monitoring has been conducted at the site.



LATITUDE: 42°30'33" N
LONGITUDE: 78°40'21" W

SCALE
0 1000 2000 3000 4000 FEET

REFERENCE: U.S.G.S. 7.5' Topographic Map
Springville, NY (1954) Quadrangle

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OF ENVIRONMENTAL CONSERVATION
PHASE I REPORT

SITE LOCATION MAP
WINSMITH DIV. - UMC CORPORATION

FIGURE V-1

HRS COVER SHEET

Facility Name: Winsmith Div. - UMC Corp.

Location: Springville, Erie County, New York

EPA Region: II

Person(s) in charge of the facility: Bob Groner - President

Larry Coty - On-site Coordinator

Name of Reviewer: Cathy J. Bosma Date: 12/31/85

General description of the facility:

Between 1930 and 1968, plant wastes from the Winsmith facility containing cyanide, acid wastes, scrap metal, water-soluble coolants and painting wastes were landfilled at the site. The Winsmith Div. site is estimated to be a 20' x 15' x 10' area. An estimated 3,000 cubic feet of waste are disposed at the site. Soil and surface water samples were collected at the site, and analyzed for cyanide, chlorinated hydrocarbons (reported as Lindane), and oil and grease. With the exception of oil/grease found in on-site soils, significant concentrations were not found for any of these contaminants. However, the collected samples were not analyzed for metals or organic constituents and groundwater monitoring has not been conducted at the site.

Scores: S_M = ~~20.96~~ 26.35 (S_{GW} = ~~35.40~~ 44.90 S_{SW} = 7.83 S_A = 0)

S_{FE} = 0

S_{DC} = 0

Facility Name: Wisconsin Div. Date: 12-28-87

Ground Water Route Work Sheet					
Rating Factor	Assigned Value (Circle One)	Multi-plier	Score	Max. Score	Ref. (Section)
1 Observed Release	(0) 45	1	0	45	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	2	3	
Physical State	0 1 2 (3)	1	3	3	
Total Route Characteristics Score			13	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	12	18	
Hazardous Waste Quantity	0 1 2 (3) 4 5 6 7 8	1	3	8	
Total Waste Characteristics Score			15	26	
5 Targets					3.5
Ground Water Use	0 1 2 (3)	3	9	9	
Distance to Nearest Well/Population Served	0 4 6 8 10 12 16 18 20 24 30 32 (35) 40	1	35	40	
Total Targets Score			44	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			25,740	57,330	
7 Divide line 6 by 57,330 and multiply by 100			S_{gw} = 44.90		

GROUND WATER ROUTE WORK SHEET

Facility Name: Wincmill Date: 12-28-87

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	3	3	
1-yr. 24-hr. Rainfall	0 1 (2) 3	1	2	3	
Distance to Nearest Surface Water	0 1 2 (3)	2	6	6	
Physical State	0 1 2 (3)	1	3	3	
Total Route Characteristics Score			14	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	12	18	
Hazardous Waste Quantity	0 1 2 (3) 4 5 6 7 8	1	3	8	
Total Waste Characteristics Score			15	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	2	6	
Population Served/ Distance to Water	(0) 4 6 8 10 12 16 18 20	1	0	40	
Intake Downstream	24 30 32 35 40				
Total Targets Score			8	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			5040	64,350	
7 Divide line 6 by 64,350 and multiply by 100			S_{sw} = 7.83		

SURFACE WATER ROUTE WORK SHEET

Facility Name: Winsmith Div.-UMC Corp. Date: 12-28-87

Air Route Work Sheet					
Rating Factor	Assigned Value (Circle One)	Multi-plier	Score	Max. Score	Ref. (Section)
[1] Observed Release	(0) 45	1	0	45	5.1
Date and Location: April 1986, upwind and downwind of site					
Sampling Protocol: HNu Meter					
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]				35,100	
[5] Divide line [4] by 35,100 and multiply by 100			S_a = 0		

AIR ROUTE WORK SHEET

Facility Name: Winsmith Div - UMC Corp Date: 12-23-87

Worksheet for Computing S_M

	S	S^2
Groundwater Route Score (S_{gw})	44.90	2016.01
Surface Water Route Score (S_{sw})	7.83	61.31
Air Route Score (S_a)	0.0	0.0
$S_{gw}^2 + S_{sw}^2 + S_a^2$		2,077.32
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2}$		45.58
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2} / 1.73 = S_M =$		26.35

WORK SHEET FOR COMPUTING S_M

Facility Name: WINSMITH DIV - MAIN PLT Date: 12-23-97

Fire and Explosion Work Sheet					
Rating Factor	Assigned Value (Circle One)	Multiplier	Score	Max. Score	Ref. (Section)
1 Containment	1 3	1		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				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: Winsmith Div - UMC Corp. Date: 12-22-87

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	0		8.3
4 Waste Characteristics Toxicity	0 1 2 (3)	5	15	15	8.4
5 Targets					8.5
Population Within 1-Mile Radius	0 1 2 (3) 4 5	4	12	20	
Distance to a Critical Habitat	0 (1) 2 3	4	4	12	
Total Targets Score			16	32	
6 If line 1 is 45, multiply 1 × 4 × 5 If line 1 is 0, multiply 2 × 3 × 4 × 5			0	21,600	
7 Divide line 6 by 21,600 and multiply by 100			S_{DC} = 0		

DIRECT CONTACT WORK SHEET

DOCUMENTATION RECORDS
FOR
HAZARD RANKING SYSTEM

Facility Name: Winsmith Div. - UMC Corp.

Location: Springville, Erie County, New York

GROUND WATER ROUTE

1. OBSERVED RELEASE

Contaminants detected (5 maximum):

None - no groundwater monitoring has been conducted at the site. Soil samples from test borings showed elevated concentrations of oil and grease (1500 ppm).
(Calspan Advanced Technology Center Report, 1978; and NYSDEC, REGISTRY Sheet, 12/83)

Rationale for attributing the contaminants to the facility:

Not applicable, no groundwater monitoring conducted at the site. (NYSDEC, Registry Sheet, 12/83)

* * *

2. ROUTE CHARACTERISTICS

Depth to Aquifer of Concern

Name/description of aquifer(s) in concern:

The deep wells and shallow wells are in the same aquifer: Cattaraugus Creek Aquifer System. Some private wells dug from 24' to 30'.
(Conversation with Dick Wells, Village of Springfield Water Department, 1985; USGS - Water Resources Investigation Report No. 84-4334, Hydrogeologic Appraisal of Five Selected Aquifers in Erie County, NY)

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

Approximately 20 feet. (LaSala, 1968)

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

Landfill pit is approximately 10' deep
(Calspan Advanced Technology Center Report, 1978)

Net Precipitation

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

34" mean annual precipitation
(Climatic Atlas of the United States, USDOC, 1979)

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

26.5" mean annual lake evaporation.
(Climatic Atlas of the United States, USDOC, 1979)

Net precipitation (subtract the above figures):

34" - 26.5" = 7.5" net

Permeability of Unsaturated Zone

Soil type in unsaturated zone:

Gravely loam (sandy-silt to clayey silt)
(Calspan Advanced Technology Center Report, 1978)

Permeability associated with soil type

10^{-3} to 10^{-5} cm/sec
(CFR 40 - Part 300, Appendix A, Table 2)

Physical State

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

Sludge from heat treat process - 3.
(Mangiarella, 12/85; Coty, 12/85)

3. CONTAINMENT

Containment

Method(s) of waste or leachate containment evaluated:

Unlined landfill with no run-on control
(ES and D&M Site Visit, 12/85; ECDEP Site Profile Report, 1983)

Method with highest score:

Same as above - 3

4. WASTE CHARACTERISTICS

Toxicity and Persistence

Compound(s) evaluated:

Oil & Grease
(NYSDEC Registry Sheet, 12/83; Calspan Advanced Technology Center Report, 1978)

Note: Soil and surface water samples were collected in the vicinity of the disposal site and analyzed for cyanide, chlorinated hydrocarbons, (reported as Lindane) and oil and grease. Because only low concentations of cyanide (<0.02 ppm) and chlorinated hydrocarbons (<1 ppb) were detected, only oil and grease detected in the soil samples were used for HRS scoring purposes. Analyses for metals and organic contaminants were not performed.

Compound with highest score:

Oil and Grease (Petroleum -12)
(NYSDEC Registry Sheet, 12/83; Calspan Advanced Technology Center Report, 1978)

Hazardous Waste Quantity

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

3,000 cubic feet or waste material
(ECDEP, Site Profile Report, 10/83, Mangiarella, 12/85)

Basis of estimating and/or computing waste quantity:

Dimensions of disposal area (20' x 15' x 10' = 3000 cu ft)
(ECDEP, Site Profile Report, 10/83)

The approximate size of the Winsmith disposal area was used to estimate the amount of waste landfilled on-site (3000 cubic feet) (ECDEP, Site Profile Report, 1983). However, the actual quantity of the material landfilled on-site is unknown since records of past waste disposal were not maintained by Winsmith.

5. TARGETS

Ground Water Use

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

Village well located at 247 North Central Street, approximately 2500' from the site, private wells used for both drinking water and irrigation, commercial use (Great Bear Water)
(Conversation with Dick Wells, Village of Springville Water Department, 12/1985)

Distance to Nearest Well

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

Farm house on North Central Avenue
(Conversation with Dick Wells, Village of Springville Water Department, 12/1985)

Distance to above well or building:

Approximately 1800 feet north of site
(ES and D&M Site Visit, 12/85)

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:

Village water system had approximately 4200 users
(NYS Atlas of Community Water System Sources, 1982)

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):

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

The total population served by groundwater within 3 miles is unknown; however, the 4,200 users of the village water system would represent the minimum number of people served by groundwater (NYS Atlas of Community Water System Sources, 1982).

SURFACE WATER ROUTE

1. OBSERVED RELEASE

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

No observed release.

Rationale for attributing the contaminants to the facility:
(Calspan Advanced Technology Center Report, 1978)

No contaminants were found downstream at greater than three times than upstream concentrations.

2. ROUTE CHARACTERISTICS

Facility Slope and Intervening Terrain

Average slope of facility in percent:

Hill top slopes to the south-west approx. 10-13%
(ES and D&M Site Visit, 12/85)

Name/description of nearest downslope surface water:

Surface drainage ditch on the southern and eastern sides of hill draining to Spring Brook
(ES and D&M Site Visit, 12/85)

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

Near vertical on eastern side to 10-13% on southern edge
(ES and D&M Site Visit, 12/85)

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

Site is not located in surface water
(ES and D&M Site Visit, 12/85)

Is the facility completely surrounded by areas of higher elevation?

No
(ES and D&M Site Visit, 12/85)

1-Year 24-Hour Rainfall in Inches

2.1"
(Rainfall Frequency Atlas of the United States, USDOC, 1963)

Distance to Nearest Downslope Surface Water

Approximately 25 feet
(ES and D&M Site Visit, 12/83)

Physical State of Waste

Sludge from heat treat process - 3.
(Mangiarella, 12/85; Coty, 12/85)

3. CONTAINMENT

Containment

Method(s) of waste or leachate containment evaluated:

Site is located on a hill that has soil and vegetative cover; however the depth of the soil cover is unknown and no diversion system is present.
(ES and D&M Site Visit, 12/85)

Method with highest score:

Landfill not adequately covered and no diversion system present - HRS score = 3.

(ES and D&M Site Visit, 12/85)

4. WASTE CHARACTERISTICS

Toxicity and Persistence

Compound(s) evaluated

Oil and Grease
(Calspan Advanced Technology, 1978)

Compound with highest score:

Oil and Grease = 12

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):

Oil and grease sampling of the pit indicated
3000 ft^3 of waste material at site
3000 ft^3/27 = 111 cubic yards
(ECDEP, Site Profile Report, 1983)

Basis of estimating and/or computing waste quantity:

The approximate size of the site was used to estimate the amount of waste landfilled on-site (20' x 15' x 10' = 3000 ft^3/27 = 111 cubic yards). However, the actual quantity of material landfilled on-site is unknown since records of waste disposal were not maintained.
(ECDEP, Site Profile Report, 1983)

* * *

5. TARGETS

Surface Water Use

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

Recreational (fishing) Spring Brook
(Site Visit, 1985; G. Mangiarelli (Winsmith Div.) - Interview, 1985)

Is there tidal influence?

No, Spring Brook Creek is not tidal
(USGS Topographic Map, Springville, NY Quadrangle)

Distance to a Sensitive Environment (NYS DEC Reg 9)

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

None
(USGS Topographic Map, Springville, NY Quadrangle)

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

0.6 miles northeast - wetland designated as SP-11
(NYSDEC, Department of Regulatory Affairs, Region 9, interview with Mike McMurry, 1/8/86)

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

There are no federally designated critical habitats in New York State
(NYSDEC, Department of Regulatory Affairs, Region 9, 1986; USGS Topographic Map; Springville, NY Quadrangle)

Population Served by Surface Water

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

No surface water intakes in Springville (population not supplied drinking water from surface water sources)
(NYS Atlas of Community Water System Sources, 1982).

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

Not applicable

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:

HNu meter readings were taken upwind and downwind of the site and no measurements for volatile organics were above background levels of 1 ppm.
(ES and D&M Site Inspection, 4/86)

Date and location of detection of contaminants:

None.
(ES and D&M Site Inspection, 4/86)

Methods used to detect the contaminants:

HNu meter readings.

Rationale for attributing the contaminants to the site:

Not applicable. HNu meter readings did not detect volatile organic compounds.

* * *

2. WASTE CHARACTERISTICS

Reactivity and Incompatibility

Most reactive compound:

No reactive and incompatible compounds are known to exist on-site.
(NYSDEC, Registry Sheet, 1985)

Most incompatible pair of compounds:

No incompatible pair of compounds are known to exist on-site.
(NYSDEC, Registry Sheet, 1985)

Toxicity

Most toxic compound:

No toxic compounds have been detected on-site which have the potential to impact the air pathway.
(NYSDEC Registry Sheet, 12/83)

Hazardous Waste Quantity

Total quantity of hazardous waste:

No hazardous wastes with the potential to impact the air pathway are known to exist on-site.
(NYSDEC Registry Sheet, 12/83)

Basis of estimating and/or computing waste quantity:

Previous analysis for chlorinated hydrocarbons from surface water samples from on-site drainage ditch were less than 1 ppb.
(Calspan Advanced Technology Center Report, 1978)

* * *

3. TARGETS

Population Within 4-Mile Radius

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

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

2,478

(U.S. Bureau of the Census Data, 1980)

Distance to a Sensitive Environment

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

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

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

0.6 miles northeast - designated as SP-11
(NYSDEC, Division of Regulatory Affairs, Region 9, Interview with Mike McMurry, 1/8/86)

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

There are no federally designated critical habitats in New York State

(NYSDEC, Division of Regulatory Affairs, Region 9, 1986; USGS Topographic Map: Springville, NY Quadrangle)

Land Use

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

<1/4 mile - disposal site is located adjacent to the Winsmith Manufacturing building parking lot.
(ES and D&M Site Visit, 12/85)

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

None within 2 miles.
(USGS Topographic Map: Springville, NY Quadrangle)

Distance to residential area, if 2 miles or less:

Approximately 400 feet.
(ES and D&M Site Visit, 12/85; USGS Topographic Map: Springville, NY Quadrangle)

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

Approximately 1 mile.
(ES and D&M Site Visit, 12/85)

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

Unknown

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

None

FIRE AND EXPLOSION

1. CONTAINMENT

Hazardous substances present:

No hazardous wastes are known to be disposed on-site that pose a threat of fire and explosion.
(NYSDEC, Registry Sheet, 1985)

Type of containment, if applicable:

Not applicable, no ignitable or explosive substances are present.

* * *

2. WASTE CHARACTERISTICS

Direct Evidence

Type of instrument and measurements:

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

Ignitability

Compound used:

Oil and grease.

Reactivity

Most reactive compound:

No reactive compounds are known to exist on-site.
(NYSDEC, Registry Sheet, 12/83)

Incompatibility

Most incompatible pair of compounds:

No incompatible compounds are known to exist on-site.
(NYSDEC, Registry Sheet, 12/83)

Hazardous Waste Quantity

Total quantity of hazardous substances at the facility:

No hazardous waste with the potential to create a fire or explosion hazard are known to exist on-site.
(NYSDEC, Registry Sheet, 1985)

Basis of estimating and/or computing waste quantity:

The presence of oil and grease in on-site soils does not pose a fire or explosion threat. Therefore, for HRS scoring purposes, the quantity score for fire and explosion is zero.

* * *

3. TARGETS

Distance to Nearest Population

Approximately 400 feet to residential area.
(ES and D&M Site Visit, 12/85; USGS Topographic Map: Springville, NY Quadrangle)

Distance to Nearest Building

Approximately 50 feet - storage building owned by Winsmith is located adjacent to site.
(ES and D&M Site Visit, 12/85)

Distance to Sensitive Environment

Distance to wetlands:

0.6 miles northeast - designated as SP-11.
(NYSDEC, Division of Regulatory Affairs, Region 9, interview with Mike McMurry, 1/8/86)

Distance to critical habitat:

None within one mile.
(NYSDEC, Division of Regulatory Affairs, Region 9, 1986)

Land Use

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

<1/4 mile - disposal site is located adjacent to the Winsmith manufacturing building parking lot.
(ES and D&M Site Visit, 12/85)

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

Not applicable

Distance to residential area, if 2 miles or less:

Approximately 400 feet.
(ES and D&M Site Visit, 12/85; USGS Topographic Map: Springville, NY Quadrangle)

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

Approximately 1 mile.
(ES and D&M Site Visit, 12/85)

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

Unknown

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

None

Population with 2-Mile Radius

4,755 people
(US Census Data, 1980)

Buildings Within 2-Mile Radius

Unknown, from site visit at least 27 buildings are within 2 miles.
(ES and D&M Site Visit, 12/85)

DIRECT CONTACT

1. OBSERVED INCIDENT

Date, location, and pertinent details of incident:

No observed incident. There is no confirmed instance in which contact with hazardous substances at the site has caused injury, illness or death to humans or animals.
(NYSDEC Registry Sheet, 12/83; ECDEP, Site Profile Report, 10/83)

* * *

2. ACCESSIBILITY

Describe type of barrier(s):

Site is not enclosed by a fence to prevent access to the site. According to Winsmith personnel, local residents (children) use the undeveloped area adjacent to the plant site, which includes the former disposal area, for recreation (i.e., dirt bike riding). HRS score = 3.

* * *

3. CONTAINMENT

Type of containment, if applicable:

Landfilled wstes are not accessible to direct contact because the former disposal area is covered with soil fill. The depth of the soil fill is unknown.
(ES and D&M Site Visit, 12/85)

* * *

4. WASTE CHARACTERISTICS

Toxicity

Compounds evaluated:

Oil and grease.
(Calspan Advanced Technology Center Report, 1983)

Compound with highest score:

Oil and grease = 3.
Previous soil and surface water monitoring did not detect high concentrations of contaminants (cyanide and chlorinated hydrocarbons). However, because a complete multi-media monitoring program with a priority pollutant scan has not been conducted, the potential of hazardous materials being on-site has not been adequately addressed.

5. TARGETS

Population within one-mile radius

2,478 people
(US Census data, 1980)

Distance to critical habitat (of endangered species)

There are no federally designated critical habitats in New York State.

(NYSDEC, Division of Regulatory Affairs, Region 9, 1986)

HRS REFERENCES*

WINSMITH DIVISION - UMC CORP.

1. Calspan Advanced Technology Center (1978). Report, "Process Waste and Landfill Investigations", prepared for Winsmith Division - UMC Industries, Inc., 12/4/78.

2. Coty, L. (1985), Manager Quality Assurance, Winsmith Division. Interview for Phase I Investigation, 12/9/85.

3. EPA (1983). Code of Federal Regulations, 40 CFR, Parts 190 to 399.

4. ES and D&M Site Inspection, December, 1985.

5. ECDEP (1983). Data Review (Site Profile) Report, October, 1983.

6. Mangiarelli, G. (1985), Manufacturing Manager, Winsmith Division. Interview for Phase I Investigation, 12/9/85.

7. McMurray, M. (1986), NYSDEC. Interview for Phase I Investigation, 1/3/86.

8. NYSDEC (1985), Division of Solid and Hazardous Waste. Inactive Hazardous Waste Disposal Site Report, 1/24/85.

9. NYSDOH (1982), NYS Atlas of Community Water System Sources.

10. US Bureau of the Census (1980). "Erie County Planning Department 1980 Census Tracts".

11. USDOC (1979), National Climatic Center. "Climatic Atlas of the United States".

12. USDOC (1963). "Rainfall Frequency Atlas of the United States". Technical Paper No. 40.

13. USGS. Topographic Map: Springville Quadrangle.

14. Wells, D. (1985), Village of Springville Water Dept. Interview for Phase I Investigation, 12/17/85.

*For general references see Appendix A.

CALSPAN ADVANCED TECHNOLOGY CENTER

PROCESS WASTE AND LANDFILL INVESTIGATIONS

Calspan Report No. 6419-M-1

by

Richard P. Leonard
Environmental Sciences Department
December 4, 1978

Prepared For:

Winsmith Division
UMC Industries Inc.
172 Eaton Street
Springville, New York 14141

Purchase Order No. P33921

A DIVISION OF CALSPAN CORPORATION
AN ARVIN COMPANY PO BOX 400 BUFFALO NEW YORK 14225

TABLE 1

CHEMICAL ANALYSES OF PROCESS WASTE SAMPLES

Sample Number and Description	Cyanide (CN)	Chlorinated* Hydrocarbons
1. Cyanide salt bath	5.5%	-
2. Neutral pot skimmings	0.1%	-
3. Quench pot skim	<0.001%	-
4A. Cooling water	2.75 ppm	-
4B. Cooling water sludge	<0.04 ppm	-
5. Waste tramp oil	15.0 ppm	23,000 ppb
6. Coolant O.D. grinders	<0.02 ppm	17 ppb
12. ROTO-BRITE Cleaner	<0.02 ppm	9 ppb

- not analyzed and not believed present

* Specific chlorinated compounds not identified. Chlorinated hydrocarbons reported as lindane standard although lindane not present.

TABLE 2

Sample Number	Chemical Analyses		
	Cyanide (ppm) (CN)	Oil & Grease (ppm)	Chlorinated* Hydrocarbons (ppb)
# 7 (upstream storm drainage)	0.19	3	<1
8 (downstream storm drainage)	0.05	11	<1
9 (subsurface drain to ditch northern boundary)	<0.02	3	<1
10 (surface drainage to swale, S.E. corner of hill)	<0.02	1	<1
11 (drainage ditch, northern road entrance)	<0.02	4	<1

* Specific chlorinated compounds not identified. Chlorinated hydrocarbons reported as lindane standard although lindane not present.

TASK III

LANDFILL CHARACTERIZATION AND RECOMMENDATIONS

On October 10, 1978 the Earth Dimensions Inc. conducted test borings at the location which had been used at one time by Winsmith for landfill of process wastes. The placement of bore holes was directed by Mr. Richard Leonard, Principal Environmental Engineer, Calspan Corporation. The purpose of the borings was to ascertain the extent of landfilled material and to sample the wastes for chemical tests. Samples of landfilled material were chemically analyzed by Calspan for pH, conductivity, cyanide content, and oil and grease content.

Figure 1 shows the location of bore holes relative to the location of a small water filled pit in which process wastes were believed to have been disposed a number of years ago (i.e., greater than 10 years ago). Official logs of these borings contained as Enclosure 1 show that no process wastes were encountered in soil borings. Except for hole #1 and the pond itself, the sequence of layers consisted of 10-12 feet of silt loam soil carried in from other areas (soil removed during construction of parking lots and plant expansion) over the natural soil layers. The natural soils encountered in all bore holes consist of sand, silt, and gravel deposits typical of glacial outwash soils. The natural soils at hole #1 had not been covered by soil fill.

It is apparent from the borings that landfilling was confined to the small (20' x 15') ponded area. A boring was made in the ponded area to obtain samples for laboratory testing and to ascertain how deep the pit was dug prior to depositing process wastes. The boring showed that the depth of the original pit was approximately 10'. Samples of landfilled material obtained for laboratory testing were:

Sample #13,14 - water from the top of the pit

Sample 15 - soft slag-like material probably salt residues from heat treatment, taken at approximately 2' depth

Sample 16 - mixed sediments, fine slag-like material, oily smell, taken at approximately 7' depth

TABLE 3

Sample Number	Chemical Analyses (ppm)		
	CN (ppm)	Oil and Grease (ppm)	pH
13,14 (water from top of pit)	<0.02	13	7.35
15 (soft slag-like material)	<0.02	-	-
16 (mixed sediments, fine slag-like material)	<0.02	1500	-

- not analyzed

ES ENGINEERING-SCIENCE
INTERVIEW FORM

Interviewee/Code Larry W. Coty /

Title-Position Mgr. of Quality Assurance

Address 172 Eaton Street

City Springville **State** New York **Zip** 14141

Phone (716) 592-9311 **Residence Period** 1981 **to** present

Location same **Interviewer** S.R. Steele

Date/Time 12/9/85 / 8 - 10:00 am

Subject: Phase I investigation

Remarks: Heat treatment sludge was disposed of in area indicated behind the Winsmith storage building. The typical disposal practice was to remove solids from heat treat tank, which were...then hand carried hand to the disposal area and placed in unlined/disposal area. The quantity of waste disposed in the landfill is unknown but presumed be small. Wastes were carried in small containers/pans (2-5 gals) for transport of the heat treat sludge.

I agree with the above summary of the interview: _____

Signature: _____

Comments: _____

3.0 Ground Water Migration Route

3.1 *Observed Release.* If there is direct evidence of release of a substance of concern from the facility to ground water, enter a score of 45 on line 1 of the work sheet for the ground water route (Figure 2); then you need not evaluate route characteristics and containment factors (lines 2 and 3). Direct evidence of release must be analytical. If a contaminant is measured (regardless of frequency) in ground water or in a well in the vicinity of the facility at a significantly (in terms of demonstrating that a release has occurred, not in terms of potential effects) higher level than the background level, then quantitative evidence exists, and a release has been observed. Qualitative evidence of release (e.g., an oily or otherwise objectionable taste or smell in well water) constitutes direct evidence only if it can be confirmed that it results from a release at the facility in question. If a release has been observed, proceed to "3.4 *Waste Characteristics*" to continue scoring. If direct evidence is lacking, enter a value of 0 on line 1 and continue the scoring procedure by evaluating *Route Characteristics.*

3.2 *Route Characteristics. Depth to aquifer of concern* is measured vertically from the lowest point of the hazardous substances to the highest seasonal level of the saturated zone of the aquifer of concern (Figure 3). This factor is one indicator of the ease with which a pollutant from the facility could migrate to ground water. Assign a value as follows:

Distance (feet)	Assigned value
>150	0
76 to 150	1
21 to 75	2
0 to 20	3

Net precipitation (precipitation minus evaporation) indicates the potential for leachate generation at the facility. Net seasonal rainfall (seasonal rainfall minus seasonal evaporation) data may be used if available. If net precipitation is not measured in the region in which the facility is located, calculate it by subtracting the mean annual lake evaporation for the region (obtained from Figure 4) from the normal annual precipitation for the region (obtained from Figure 5). EPA Regional Offices will have maps for areas outside the continental U.S. Assign a value as follows:

Net precipitation (inches)	Assigned value
<−10	0
−10 to +5	1
+5 to +15	2
>+15	3

Permeability of unsaturated zone (or intervening geological formations) is an indicator of the speed at which a contaminant could migrate from a facility. Assign a value from Table 2.

TABLE 2.—PERMEABILITY OF GEOLOGIC MATERIALS[1]

Type of material	Approximate range of hydraulic conductivity	Assigned value
Clay, compact till, shale; unfractured metamorphic and igneous rocks.	$<10^{-7}$ cm/sec	0
Silt, loess, silty clays, silty loams, clay loams; less permeable limestone, dolomites, and sandstone; moderately permeable till.	$<10^{-5}$ to $>10^{-7}$ cm/sec	1
Fine sand and silty sand; sandy loams; loamy sands; moderately permeable limestone, dolomites, and sandstone (no karst); moderately fractured igneous and metamorphic rocks, some coarse till.	$<10^{-3}$ to $>10^{-5}$ cm/sec	2
Gravel, sand; highly fractured igneous and metamorphic rocks; permeable basalt and lava; karst limestone and dolomite.	$>10^{-3}$ cm/sec	3

[1] Derived from: Davis, S. N., *Porosity and Permeability of Natural Materials in Flow-Through Porous Media*, R.J.M. DeWest ed., Academic Press, New York, 1969; Freeze, R.A. and J.A. Cherry, *Groundwater*, Prentice-Hall, Inc., New York, 1979.

BILLING CODE 6560-50-M

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.

UMC CORPORATION
WINSMITH DIVISION
172 EATON STREET
SPRINGVILLE, NEW YORK
DEC #915058

Prepared By
Erie County Department of
Environment and Planning
October 1983

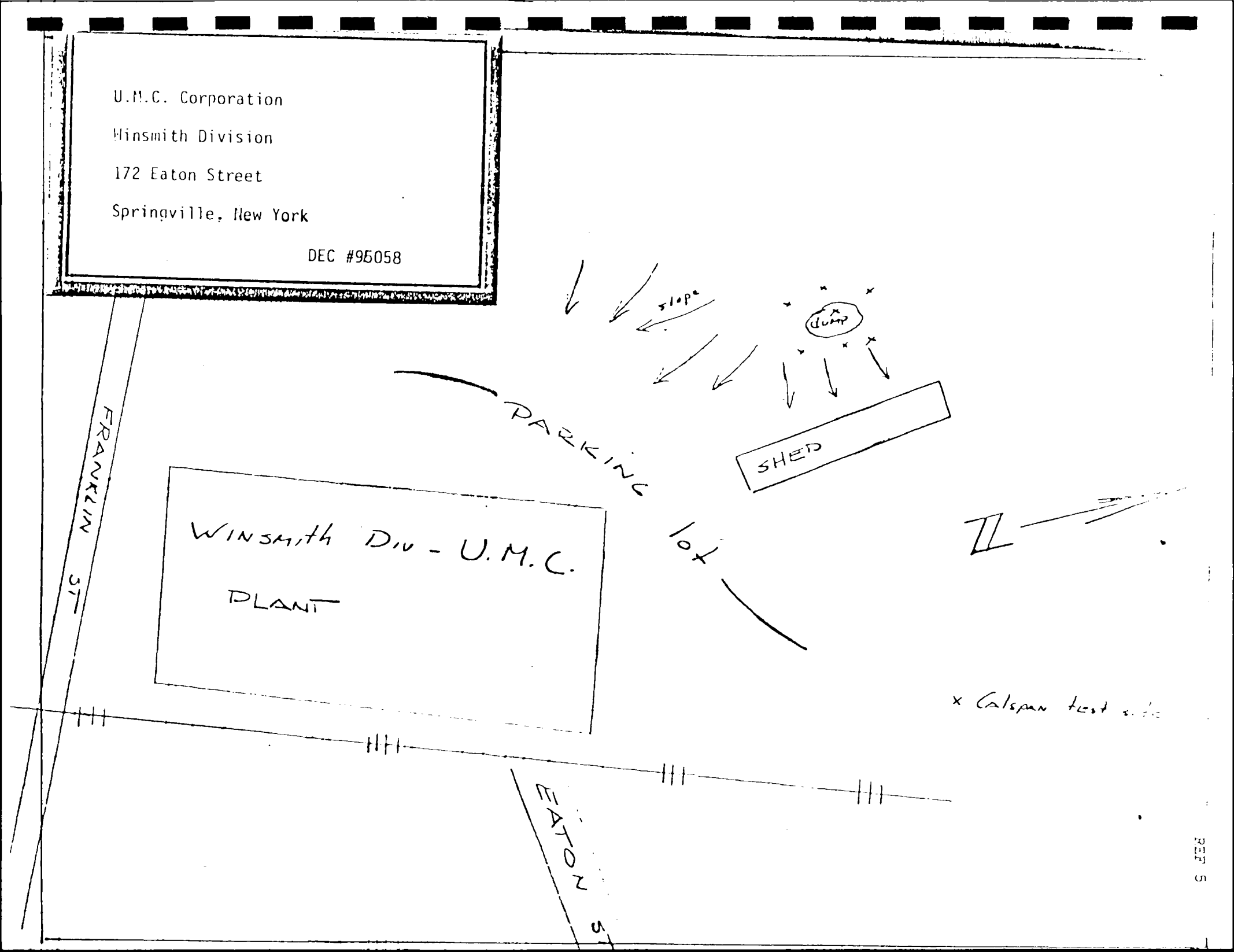
U.M.C. Corporation

Winsmith Division

172 Eaton Street

Springville, New York

DEC #95058



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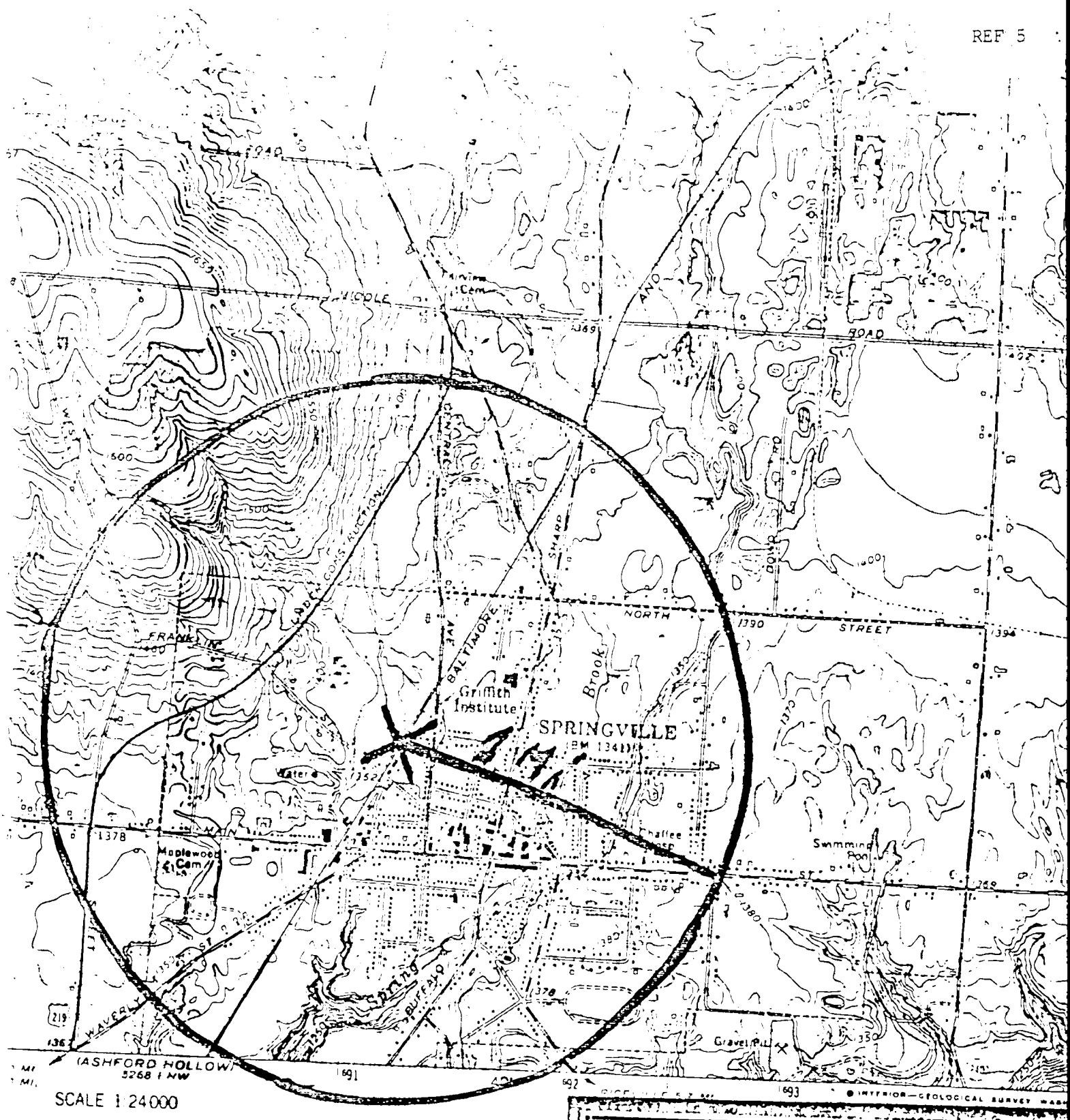


IS WITH NATIONAL MAP ACCURACY STANDARDS
EOLOGICAL SURVEY, WASHINGTON, D. C. 20242
GRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

U.M.C. Corporation
Winsmith Division
172 Eaton Street
Springville, New York

DEC #95058

GENERAL BACKGROUND

U.M.C. Industries, Winsmith Division, is located on Eaton Street in the Village of Springville. This plant produces speed reduction equipment and gears. The facility produces the following wastes: cyanides, oil & grease, acids, scrap metals, water soluble coolants, and painting wastes. At one time the plant maintained a small on-site disposal pit.

DATA REVIEW

Following the 1978 IATF report this firm contracted with a consultant to evaluate its waste streams. As a portion of the consultants study the area of on-site disposal was also evaluated. The consultant's work included soil boring and sample analysis to determine the extent of the problem created by on-site waste disposal. It became apparent that the landfilling was confined to a small (20' x 15') area. Borings indicated that the disposal pit was approximately 10 feet deep. It was concluded that 3000 ft^3 of material was disposed of on-site. Samples were taken of water ponded over the disposal area, soil was taken from the 2 foot level, and from the 7 foot level. The samples were analyzed for cyanide, and oil and grease. Contaminated soil (1500 ppm oil and grease) was reported for the 7 foot deep sample. The cyanide concentration of <0.02 ppm was reported following analysis of water and soil. The groundwater standard for cyanide is .2 mg/l.

CONCLUSION AND RECOMMENDATION

The firm has discontinued use of the site and now utilizes a private hauler for off-site disposal. Past disposal was limited to a small area. Analysis of soil and water samples taken from the area of disposal does not indicate that the site poses a serious environmental threat. We would recommend that the site be removed from the list of sites suspected of posing a hazard.

ES ENGINEERING-SCIENCE
INTERVIEW FORM

Interviewee/Code: George R. Mangiarelli /
Title-Position: Manufacturing Manager
Address: 172 Eaton Street
City: Springville State: New York Zip: 14141
Phone: (716) 592-9311 Residence Period: 11/76 to present
Location: on site Interviewer: S.R. Steele
Date/Time: 12/9/85 / 10:00 am

Subject: Phase I study of Winsmith disposal site

Remarks: The quantity of waste (heat treat Sludge) disposed of in the disposal site located behind the Winsmith storage area is unknown and no records exist. A drainage ditch was installed on-site which presently drains surface water from the Winsmith plant parking lot and area in the vicinity of the disposal site & storage building. The surface water drains along the Southern border of the Winsmith porerty and enters into a stream used for fishing. The disposal area is on top of the hill behind the storage building in what appears as a low lying area. (20' x 20' in site)

I agree with the above summary of the interview:

Signature: /s/George R. Mangiarelli

Comments: As per past reports filed, quantities were unknown but presumed small. Reference was not made to sample procedures including spoon sampling conducted by Calspan.

NYS WETLANDS MAPS

NYS Wetlands Maps were reviewed during the Phase I investigation. Individual maps for each site were not obtained and are, therefore, not included in the Phase I reports. Site specific information collected concerning the location of a wetland within 1 mile of a given site is recorded in the documentation section of each report.

ES ENGINEERING-SCIENCE
INTERVIEW FORM

Interviewee/Code Mike McMurry /
Title-Position Environmental Analyst
Address 600 Delaware Ave.
City Buffalo State New York Zip 14202
Phone (716) 847-4551 Residence Period to
Location DEC Regulatory Affairs Interviewer NYE - DIM
Date/Time 1/3/86 / Buffalo

Subject: Wetlands & Flood Info - Region 9

Remarks: Met with Mike who gave me access to both Wetland and Floodway maps for the local region.

*Also left site locations for the Identification of wildlife critical habitat & National Wildlife Refuces.

Winsmith Div - Umc Corp site

1) Fresh water wetland 0.6 miles NE of site (designated as SP - 11)

2) There is no critical habitat of an endangered species or national wild life refuge within 1 mile of site.

I agree with the above summary of the interview:

Signature: /s/Michael J. McMurray, Environmental Analyst

Comments:

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: 915058

NAME OF SITE : Winsmith Div. - UMC Corp.
STREET ADDRESS: 172 Eaton Street

TOWN/CITY:	COUNTY:	ZIP:
Springville (village)	Erie	14141

SITE TYPE: Open Dump-X Structure- Lagoon- Landfill- Treatment Pond-
ESTIMATED SIZE: 1 Acres

SITE OWNER/OPERATOR INFORMATION:
CURRENT OWNER NAME....: Winsmith Div. - UMC Corp.
CURRENT OWNER ADDRESS.: 172 Eaton St., Springville, NY 14141
OWNER(S) DURING USE...: Winsmith Div. - UMC Corp.
OPERATOR DURING USE...: Winsmith Div.- UMC Corp.
OPERATOR ADDRESS.....: 172 Eaton St., Springville, NY 14141
PERIOD ASSOCIATED WITH HAZARDOUS WASTE: From 1930 To 1968

SITE DESCRIPTION:
In 1978, Calspan Advanced Technology Center ofBuffalo, NY sampled and analyzed process solid and liquid wastes from the Winsmith plant.
Samples of water and solids taken from a pit on the dump site were also analyzed during the same period.
Elevated levels of cyanide were found in the process waste water and elevated levels of chlorinated hydrocarbons were found in the waste and tramp oil.
Samples from the dump pit site did not indicate ground and surface water contamination.
Erie County has prepared a site profile report in Oct. 1983.

HAZARDOUS WASTE DISPOSED: Confirmed-X Suspected -

TYPE	QUANTITY (units)
Heat treat. sludges (cyanides)	Unknown
Neutralized acids	Unknown
Sodium hydroxide	Unknown

SITE CODE: 915003

ANALYTICAL DATA AVAILABLE:

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

CONTRAVENTION OF STANDARDS:

Groundwater- Drinking Water- Surface Water- Air-

LEGAL ACTION:

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

REMEDIAL ACTION:

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

GEOTECHNICAL INFORMATION:
SOIL TYPE: Sandy, silt, clay
GROUNDWATER DEPTH: Not known

ASSESSMENT OF ENVIRONMENTAL PROBLEMS:

From the limited data available at this time, there appears to be no significant threat to the environment.

ASSESSMENT OF HEALTH PROBLEMS:

Insufficient information.

PERSON(S) COMPLETING THIS FORM:

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

NAME.: Abul Barkat
TITLE: Sr. Sanitary Engr.

NAME.: Peter Buechi
TITLE: Assoc. Sanitary 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

New York State Atlas of Community Water System Sources 1982

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

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	Caffee Water Company	210	Wells
5	Collins Water District #3	704	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	Pape Creek Reservoir
18	Springville Village	4169	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 B 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	42	Wells
40	Villager Apartments	NA	Wells

NIAGARA COUNTY

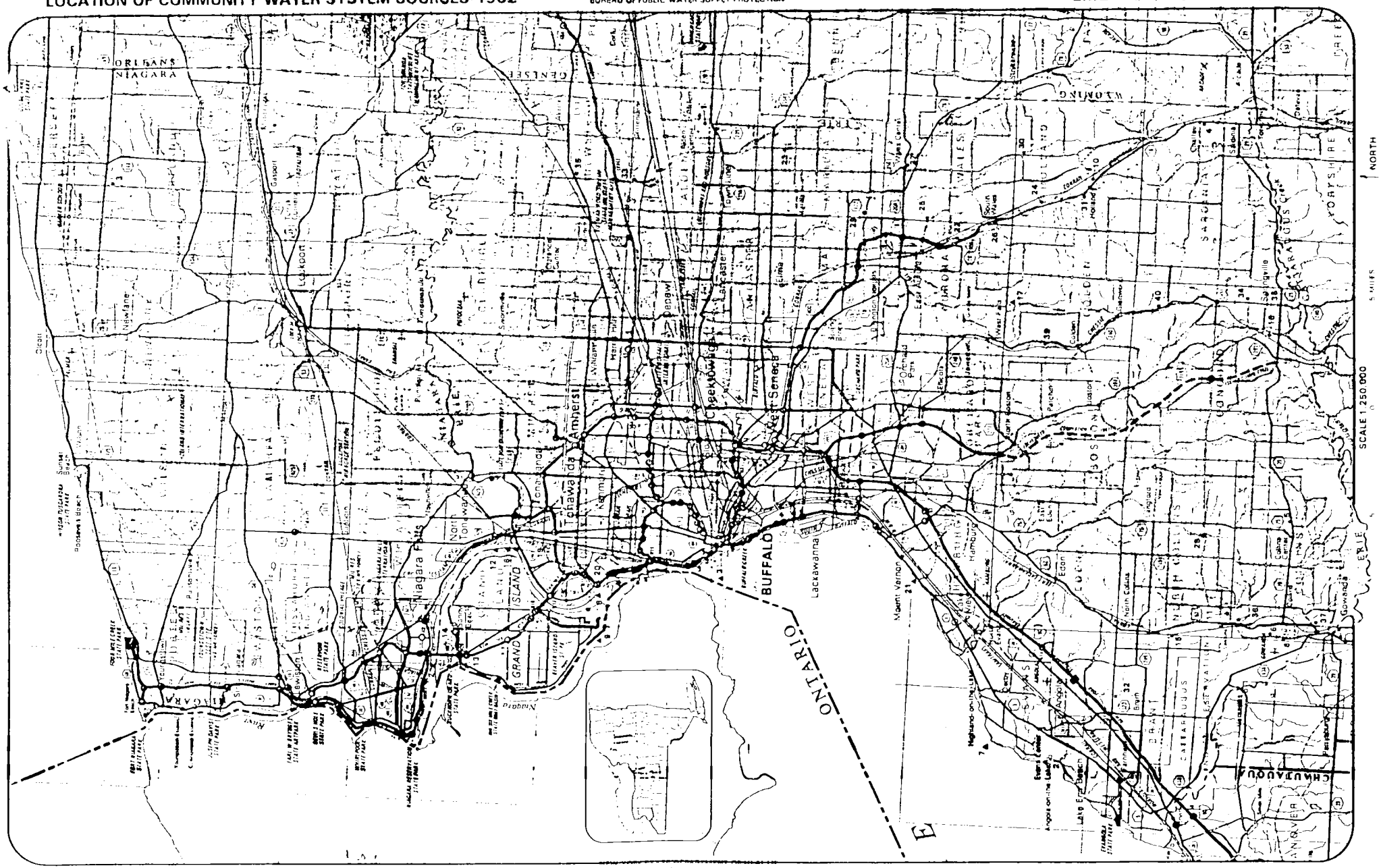
ID NO	COMMUNITY WATER SYSTEM	POPULATION	SOURCE
	Municipal Community		
	Lockport City (See No 12, Erie Co)	25000	
1	Middleport Village	2000	Wells (Springs)
	Niagara County Water District (See No 13, Erie Co)	48	
2	Niagara Falls City (See also No 14 Erie Co)	77384	Niagara River - East Branch
	North Tonawanda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

REF 9

LOCATION OF COMMUNITY WATER SYSTEM SOURCES-1982

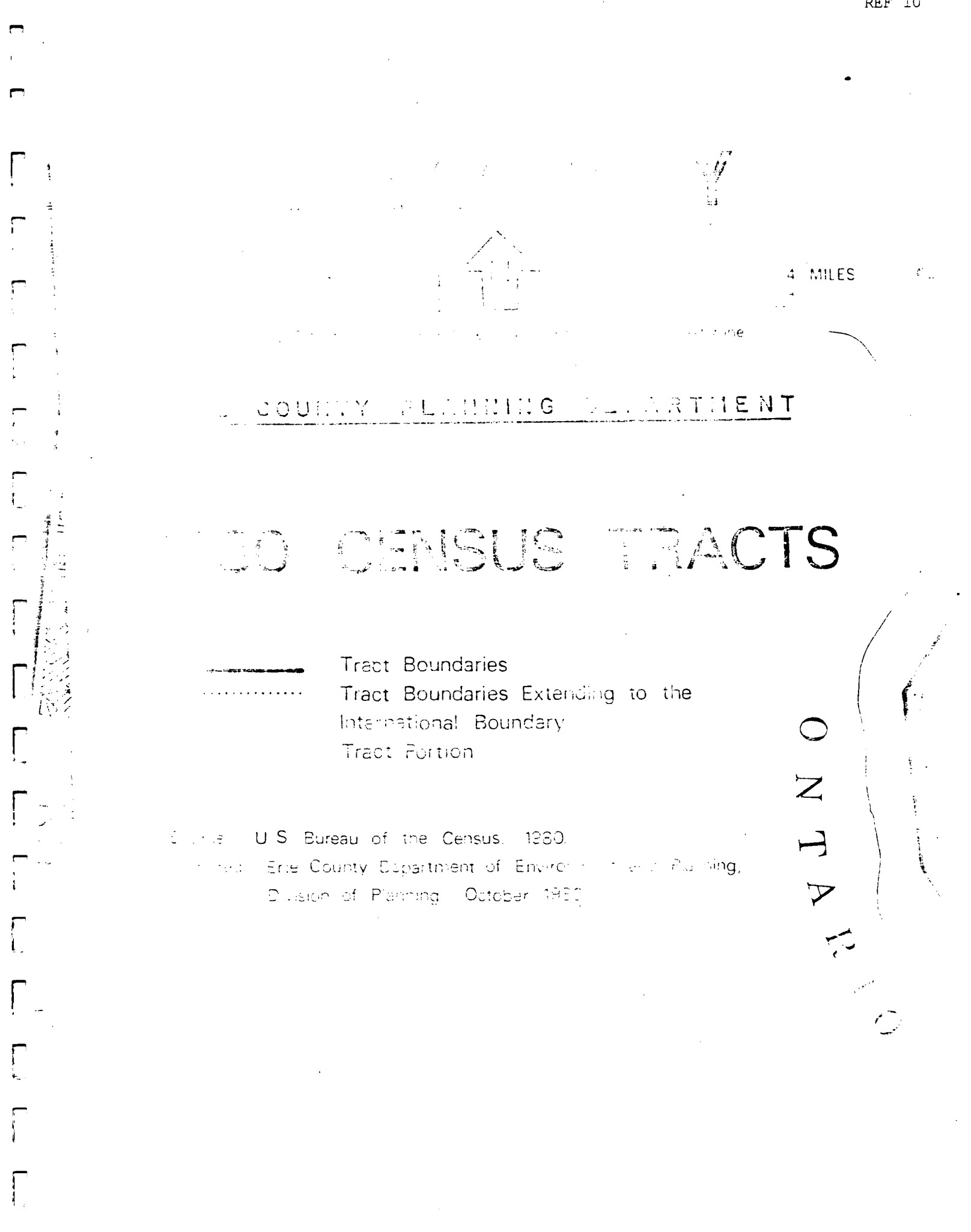
NEW YORK STATE DEPARTMENT OF HEALTH
DIVISION OF ENVIRONMENTAL PROTECTION
BUREAU OF PUBLIC WATER SUPPLY PROTECTION

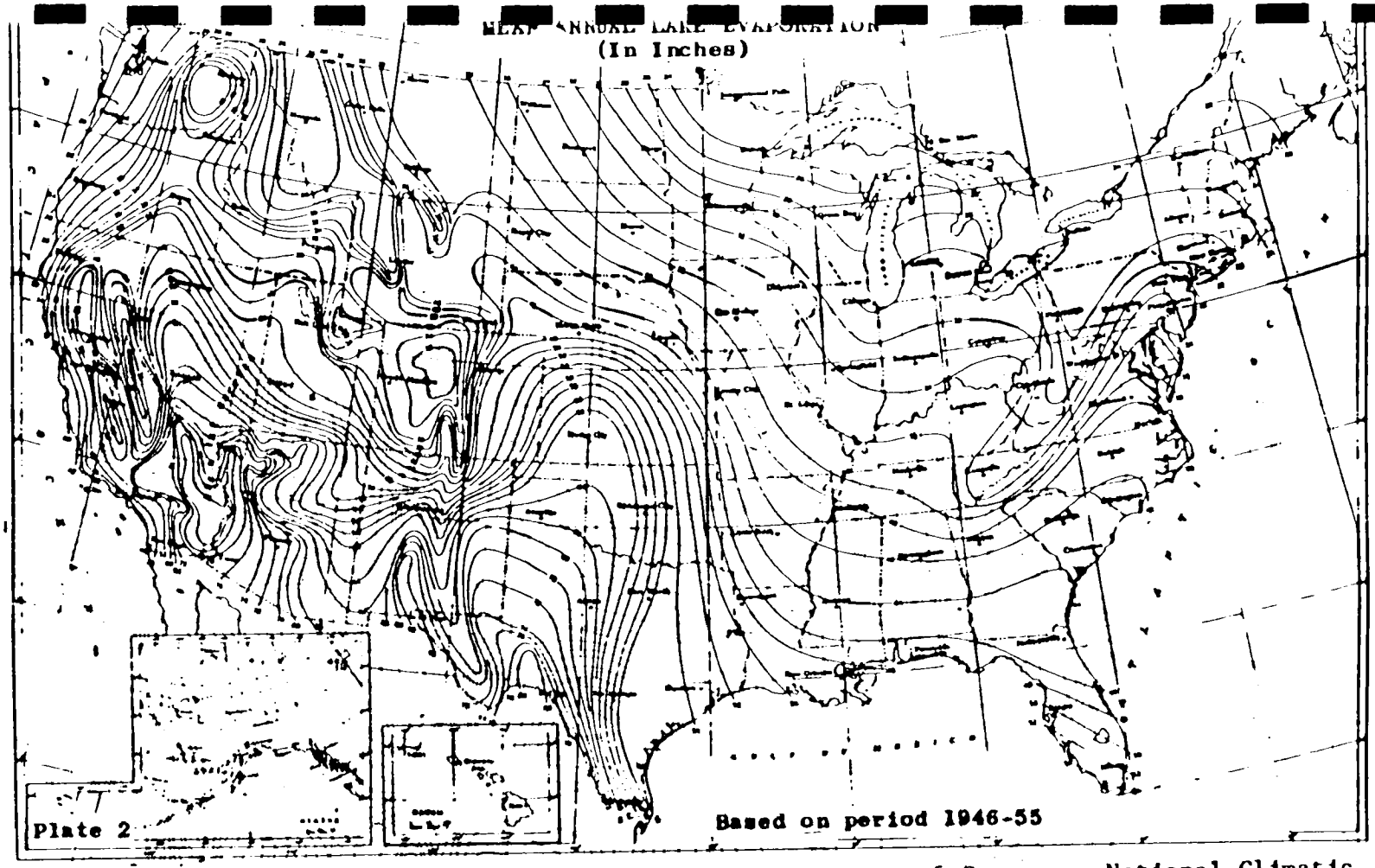
ERIE and NIAGARA COUNTIES



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.

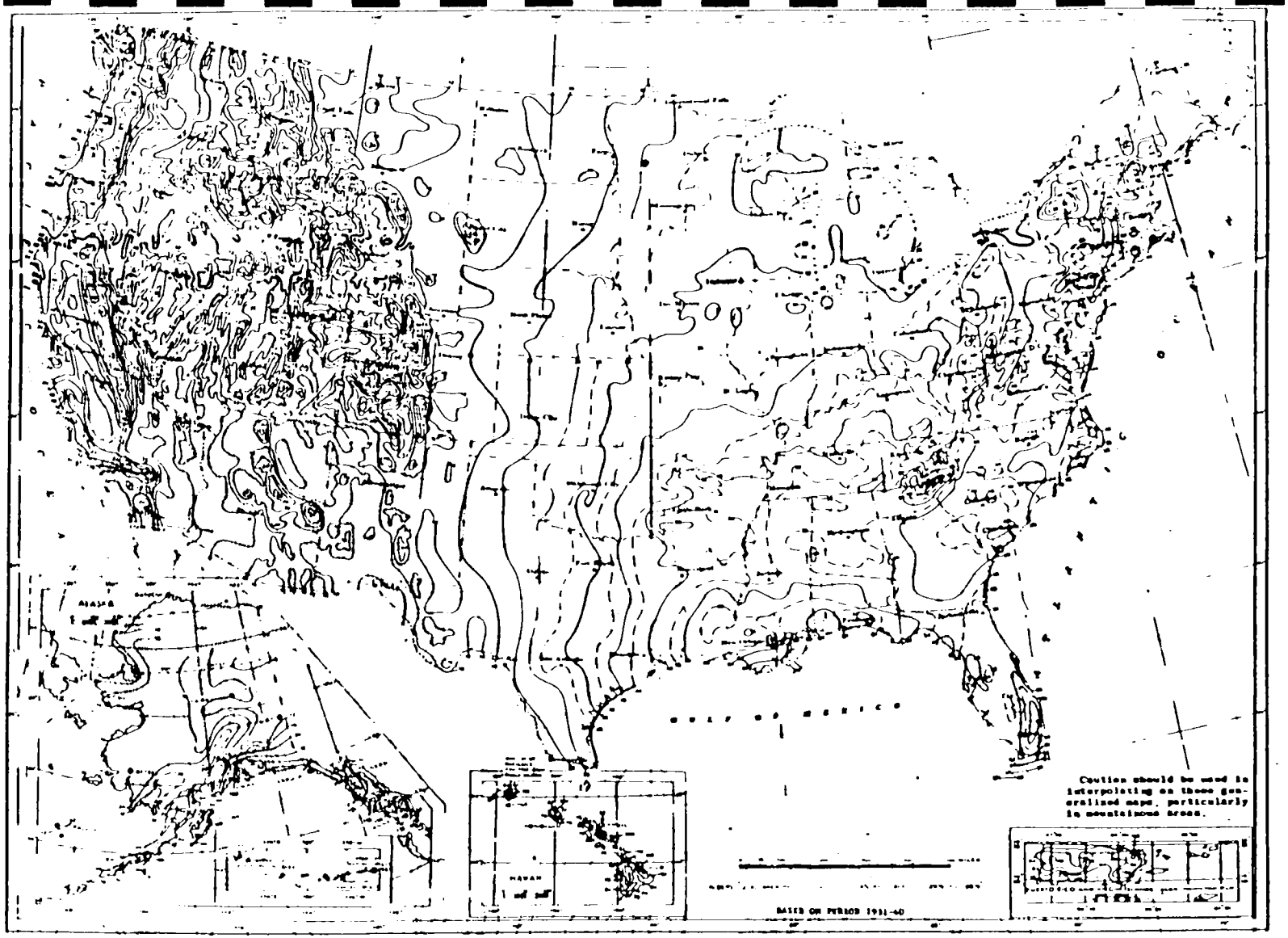

4 MILES
COUNTY PLANNING DEPARTMENT
1980 CENSUS TRACTS
Tract Boundaries
Tract Boundaries Extending to the International Boundary
Tract Portion
Source: U S Bureau of the Census, 1980.
Prepared: Erie County Department of Environment and Planning, Division of Planning, October 1980
ONTARIO



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)



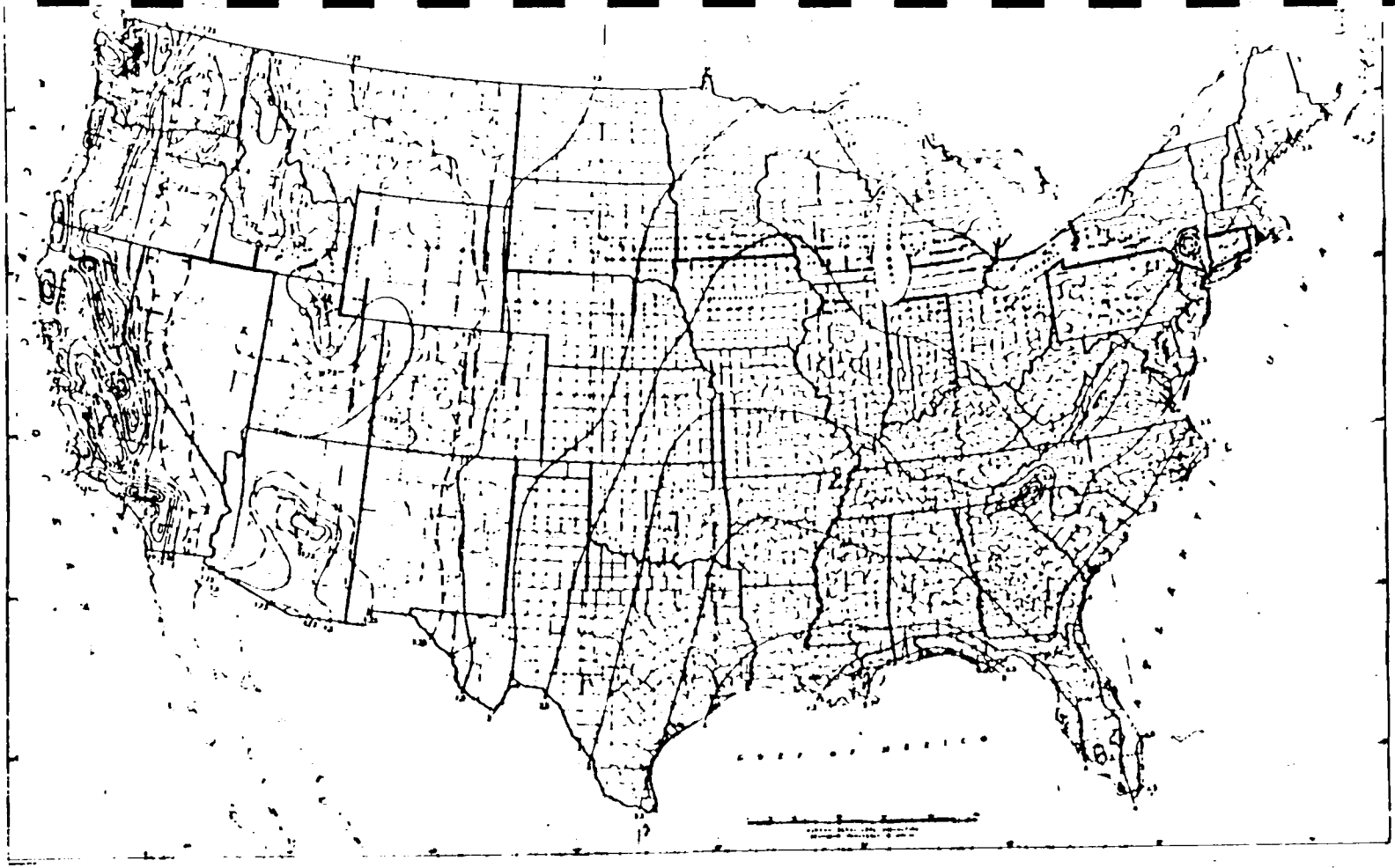
Source: Climatic Atlas of the United States, U.S. Department of Commerce, National Climatic Center, Asheville, N.C., 1979.

Figure 5

Normal Annual Total Precipitation (inches)

BILLING CODE 8560-50-C

REF 11



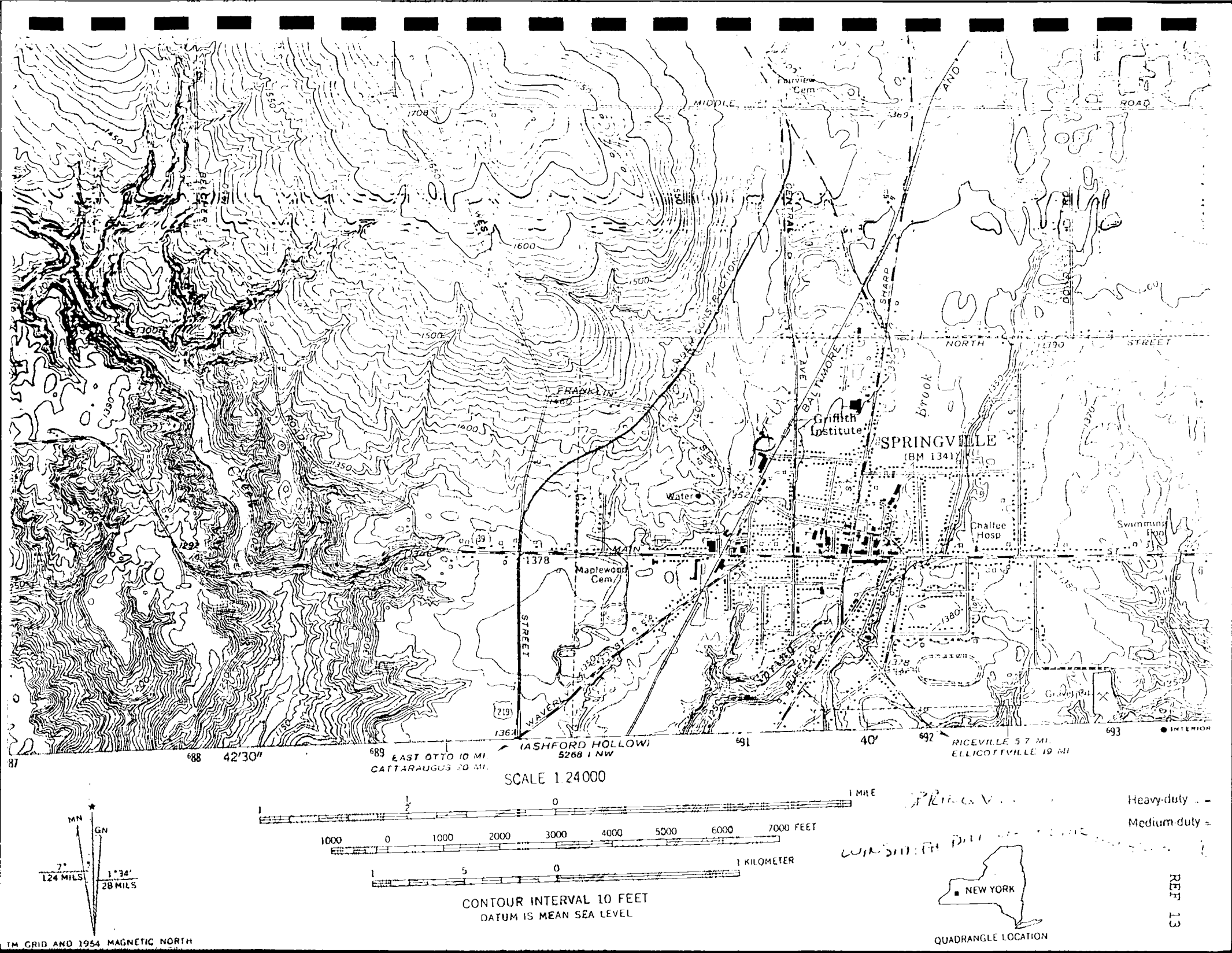
Source: Rainfall Frequency Atlas of the United States, Technical Paper No. 40, U.S. Department of Commerce, U.S. Government Printing Office, Washington, D.C., 1963.

Figure 8

1-Year 24-Hour Rainfall (Inches)

BILLING CODE 6560-50-C

REF 12



SCALE 1:24000

1 MILE

7000 FEET

1 KILOMETER

CONTOUR INTERVAL 10 FEET

DATUM IS MEAN SEA LEVEL

MN GN

7° 124 MILS

1°34' 28 MILS

TM GRID AND 1954 MAGNETIC NORTH

Heavy-duty

Medium-duty

NEW YORK

QUADRANGLE LOCATION

REF 13

INTERVIEW FORM

INTERVIEWEE/CODE DICK WELLS /

TITLE - POSITION VILLAGE OF SPRINGVILLE, NY WATER DEPT.

ADDRESS 5 WEST MAIN STREET

CITY SPRINGVILLE STATE NY ZIP

PHONE (716) 592-4722 RESIDENCE PERIOD TO

LOCATION PHONE CONV. FROM DEM INTERVIEWER LARRY KEEFE DEM

DATE/TIME 12/17/85 / 10:30 AM

SUBJECT: WATER SERVICE & SUPPLY IN SPRINGVILLE

REMARKS: MOST RESIDENTS WITHIN THE VILLAGE LIMITS ARE ON MUNICIPAL WATER, THERE ARE SOME PRIVATE WELLS ON NORTH E VANCH ST. TOTAL CUSTOMERS SERVED = 1240 (4200 USERS).

THE VILLAGE WELLS (2) ARE LOCATED AT 247 N. CENTRAL AVE JUST SOUTH OF THE RR TRACKS. THE WELLS ARE 150' DEEP IN A SAND & GRAVEL AQUIFER. WATER QUALITY ANALYSIS IS DONE YEARLY BY ERIE COUNTY HEALTH DEPT AND BACTERIA ANALYSIS IS DONE MONTHLY BY THE VILLAGE OF SPRINGVILLE.

THE ARE MANY SHALLOW PRIVATE WELLS (24-30' DEEP) OUTSIDE THE VILLAGE LIMITS WHILE SOME WELLS ARE AS DEEP AS 200' DEPENDING ON WATER QUALITY (IRON CONTENT HIGH IN SOME SHALLOWER INSTALLATIONS).

GREAT BEAR SPRING WATER CO. IS REPORTED TO USE A SPRING ON MIDDLE RD. FOR ONE OF ITS SOURCES FOR BOTTLED WATER.

Larry Keefe

ES ENGINEERING-SCIENCE
INTERVIEW FORM

Interviewee/Code: Dick Wells /
Title-Position: Village of Springville, NY water Dept.
Address: 5 West Main Street
City: Springville State: New York Zip:
Phone: (716) 592-4722 Residence Period: to:
Location: Phone Conv. from D & M Interviewer: Larry Keefe D & M
Date/Time: 12/17/85 / 10:30 am

Subject: Water service & supply in Springville

Remarks: Most residents within the village limits are on miunicipal water, there are some private wells on North & Vaugh Street total customers served - 1240 (4200 users)

The village wells (2) are located at 247 N. Central Ave. just south of the RR tracks. The wells are 150' deep in a sand & gravel aquifer. Water quality analysis is done yearly by Erie County Health Dept and Bacteria analysis is done monthly by the village of Springville.

There are many shallow private wells (24' - 30' deep) outside the village limits while some wells are as deep as 200' depending on water quality (iron content high in some shallower instalations).

Great Bear Spring Water Co. is reported to use a spring on middle road for one of its sources for bottled water.

I agree with the above summary of the interview:

Signature: /s/Larry Keefer

Comments:

EPA

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

I. IDENTIFICATION
01 STATE: NY | 02 SITE NUMBER: D002123552

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site): Wirsmith Div - UMC Corp
02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER: 172 Eaton St.
03 CITY: Springville
04 STATE: NY | 05 ZIP CODE: 14141 | 06 COUNTY: Erie | 07 COUNTY CODE: 029 | 08 CONG DIST:
09 COORDINATES: LATITUDE 42° 30' 33.6 | LONGITUDE 78° 40' 21.6
10 DIRECTIONS TO SITE (Starting from nearest public road): From Sharp St. in Springville go west on either Eaten St. or on Franklin St. Site is located at 172 Eaten St.

III. RESPONSIBLE PARTIES

01 OWNER (If known): Peerless-Wirsmith Inc. - Bob Greiner
02 STREET (Business, mailing, residential): 172 Eaton St.
03 CITY: Springville
04 STATE: NY | 05 ZIP CODE: 14141 | 06 TELEPHONE NUMBER: (716) 592-9311
07 OPERATOR (If known and different from owner): Same
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: Not specific to site only for plant. (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 several / / (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: _____
CONTRACTOR NAME(S): Cathy Basma (ES) & Bob Steele (ES) Larry Keefe (Dept)
02 SITE STATUS (Check one): ☐ A. ACTIVE ☒ B. INACTIVE ☐ C. UNKNOWN
03 YEARS OF OPERATION: 1930 (BEGINNING YEAR) | 1968 (ENDING YEAR) Disposal Years ☐ UNKNOWN
04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED: Heat treat sludge containing cyanides, chlorinated hydrocarbons, and scrap metal disposed on site. Oil & grease are also reported in the 20'x15' area and 10' deep site.
05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION: Kids ride dirt bikes on site. Adequate cover but not adequate runoff control. Leachate was observed along east side of site, however, test data indicated a cyanide concentration (% cyanide) < 0.5 ug/l.

V. PRIORITY ASSESSMENT

01 PRIORITY FOR INSPECTION (Check one. If high or medium is checked, complete Part 2 - Waste Information and Part 3 - Description of Hazardous Conditions and Incidents): ☐ A. HIGH (Inspection required promptly) ☐ B. MEDIUM (Inspection required) ☒ C. LOW (Inspection on time available basis) ☐ D. NONE (No further action needed; complete current disposition form)

VI. INFORMATION AVAILABLE FROM

01 CONTACT: Cathy J. Basma
02 OF (Agency/Organization): Engineering - Science (ES)
03 TELEPHONE NUMBER: (703) 591-7575
04 PERSON RESPONSIBLE FOR ASSESSMENT: Cathy J. Basma
05 AGENCY
06 ORGANIZATION: ES
07 TELEPHONE NUMBER: ( ) same
08 DATE: 12 30 85 (MONTH DAY YEAR)

EPA FORM 2070-12 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 2 - WASTE INFORMATION

IDENTIFICATION	
01 STATE	02 SITE NUMBER
NY	D002 123552

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 _____

CUBIC YARDS 3000

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	3000	cubic feet	
OLW	OILY WASTE	see sludge		
SOL	SOLVENTS			
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS			
IOC	INORGANIC CHEMICALS			
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS			

IV. HAZARDOUS SUBSTANCES (See Appendix for CAS Numbers)

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
—	Oil and Grease	—	LF - soil	1500	ppm
—	Chlorinated hydrocarbons		surface water	< 1	ppb
	cyanide		" "	< .02	ppm

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)

Cahpan Advanced Technology, '78

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
NY	D002123552

II. HAZARDOUS CONDITIONS AND INCIDENTS

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

NO groundwater monitoring conducted at site

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

Surface water monitoring conducted — NO waste constituents detected which exceeded NYS class D surface water standards

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

NONE - HNU meter readings taken

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

none identified

01 ☐ E. DIRECT CONTACT — 02 ☐ OBSERVED (DATE: ____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: < 1 acre 04 NARRATIVE DESCRIPTION

disposal site does not have an adequate cover system - potential for direct contact exists

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

Oil and grease detected at 1500 ppm, metals and organic analysis not conducted

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

none identified

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

none identified

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

none identified

EPA

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

I. IDENTIFICATION
01 STATE: NY | 02 SITE NUMBER: D002123552

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

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

none identified

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

none identified

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 containers)
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: unknown
04 NARRATIVE DESCRIPTION

Heat treat sludge landfill on-site

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

none identified

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

not applicable - no plant wastewater discharges to sewer as collected from site

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

none identified to date

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

III. TOTAL POPULATION POTENTIALLY AFFECTED: _____

IV. COMMENTS

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

ES & D&m site visit, 1985

ECDEP Site profile Report, 1984

EPA

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

I. IDENTIFICATION
01 STATE: NY | 02 SITE NUMBER: D002123552

II. SITE NAME AND LOCATION

01 SITE NAME	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER
Winsmith Div. - UMC Corp.	172 Eaton St.

03 CITY	04 STATE	05 ZIP CODE	06 COUNTY	07 COUNTY CODE	08 CONG DIST
Springville	NY	14141	Erie	029	

09 COORDINATES: LATITUDE 42° 32' 33.6" | LONGITUDE 78° 40' 21.6"

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
12 9 85 (MONTH DAY YEAR)	☐ ACTIVE ☒ INACTIVE	Disposal years 1930 (BEGINNING YEAR) 1968 (ENDING YEAR) ☐ UNKNOWN

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

05 CHIEF INSPECTOR	06 TITLE	07 ORGANIZATION	08 TELEPHONE NO.
Bob Steele	Environmental Scientist	ES	(703) 591-7575
09 OTHER INSPECTORS	10 TITLE	11 ORGANIZATION	12 TELEPHONE NO.
Cathy Bosma	Civil Engineer	ES	(703) 591-7575
Larry Keefe	Geologist	D&M	(315) 638-2572
			( )
			( )
			( )

13 SITE REPRESENTATIVES INTERVIEWED	14 TITLE	15 ADDRESS	16 TELEPHONE NO
Larry Coty	Quality Assurance Manager	172 Eaton St.	(716) 592-9311
George Mangiarelli	manufacturing Manager	172 Eaton St.	(716) 592-9311
			( )
			( )
			( )
			( )

17 ACCESS GAINED BY (Check one)	18 TIME OF INSPECTION	19 WEATHER CONDITIONS
☒ PERMISSION ☐ WARRANT	8:00 am	snow covered ground, drizzle.

IV. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)	03 TELEPHONE NO.
Cathy J. Bosma	Engineering Science	(703) 591-7575

04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NO.	08 DATE
Cathy J. Bosma		ES	same	12 30 85 (MONTH DAY YEAR)

EPA FORM 2070-13 (7-81)

EPA

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NY	D002133552

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: ____
- CUBIC YARDS: feet 3000
- 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	3000	cubic feet	3,000 ft 3 of heat treat wastes
OLW	OILY WASTE	same as sludge		
SOL	SOLVENTS			
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS			
IOC	INORGANIC CHEMICALS			
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS			

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

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
	Cyanide	—	Surface water Samples LF	42 ppm	
	Chlorinated hydrocarbons	—	" " LF	< 100 ppb	
	Oil and Grease	—	LF - Soil	13-15000	ppm

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)

Interagency Task Force
Calspan Advanced Technology Center, Dec. 4, 1978
Erie Co. Dept. of Environment & Planning, Oct. 1983

EPA

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

I. IDENTIFICATION
01 STATE: NY | 02 SITE NUMBER: NYD 02123[illegible]

II. HAZARDOUS CONDITIONS AND INCIDENTS

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

No record

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

Surface water was analyzed for cyanide, chlorinated hydrocarbons, and oil and grease. Concentrations did not exceed New York State Class D surface water or drinking water standards.

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

No record

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

No record

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

Limited access control

01 ☐ F. CONTAMINATION OF SOIL
03 AREA POTENTIALLY AFFECTED: < 1 acre (Acres)
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

Cyanide and oil and grease samples were taken on the hill area to evaluate the location of the disposal site. Oil and grease concentration was 1500 ppm.

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

No record

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

No record

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

No record

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
NY	NYD 0212 5572

HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

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

None noticed

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

None noticed

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

Unlikely

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

Solid salts (cyanide) and heat treat sludges

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

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

None noticed

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

III. TOTAL POPULATION POTENTIALLY AFFECTED: ______

IV. COMMENTS

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

ES & DEC Site Visit, 1985
Erie County Site Profile, 1984

EPA

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

I. IDENTIFICATION 01 STATE	02 SITE NUMBER
NY	D002123552

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	3000	cu. yd. ft.
☐ 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. INCINERATION
☐ 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

2 1 (Acres)

07 COMMENTS

Cyanide sludges, acids and metal scrap were disposed on the site between 930 and 968. This waste is a result of their Kolene process, and heat treating facility. Soil and groundwaters samples have been taken but do not indicate elevated levels of cyanides or chlorinated hydrocarbons.

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.

Drums may exist in the site, but this is not confirmed. Site is not lined and the cover system is unknown.

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE: ☒ YES ☐ NO

02 COMMENTS Partial fence for property, site itself is accessible & is used by kids for dirt biking. Waste is covered with soil (unknown depth)

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

Site Inspection 12-9-85 ES & DenR. & Interview

Same as Part 2.

EPA

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NY	NYD [illegible] 23[illegible]

II. DRINKING WATER SUPPLY

01 TYPE OF DRINKING SUPPLY (Check as applicable)

	SURFACE	WELL
COMMUNITY	A. ☐	B. ☒
NON-COMMUNITY	C. ☐	D. ☒

02 STATUS

ENDANGERED	AFFECTED	MONITORED
A. ☐	B. ☐	C. ☐
D. ☐	E. ☐	F. ☐

03 DISTANCE TO SITE

A. <0.5 (mi)
B. ______ (mi)

III. GROUNDWATER

01 GROUNDWATER USE IN VICINITY (Check one)

☒ A. ONLY SOURCE FOR DRINKING
☐ B. DRINKING (Other sources available) COMMERCIAL, INDUSTRIAL, IRRIGATION (No other water sources available)
☐ C. COMMERCIAL, INDUSTRIAL, IRRIGATION (Limited other sources available)
☐ D. NOT USED, UNUSEABLE

02 POPULATION SERVED BY GROUND WATER ______

03 DISTANCE TO NEAREST DRINKING WATER WELL ______ (mi)

04 DEPTH TO GROUNDWATER: <20 (ft)

05 DIRECTION OF GROUNDWATER FLOW: Unknown

06 DEPTH TO AQUIFER OF CONCERN: <20 (ft)

07 POTENTIAL YIELD OF AQUIFER: ______ (gpd)

08 SOLE SOURCE AQUIFER: ☐ YES ☐ NO — Unknown

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

Municipal wells screened in sand & gravel ~200'
Other private wells vary from 20' to 200' - all in sand & gravel aquifer

10 RECHARGE AREA
☐ YES
☐ NO
COMMENTS

11 DISCHARGE AREA
☐ YES
☐ NO
COMMENTS

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
Buffalo Brook / Spring Brook	☐	600' NE (mi)
	☐	(mi)
	☐	(mi)

V. DEMOGRAPHIC AND PROPERTY INFORMATION

01 TOTAL POPULATION WITHIN

ONE (1) MILE OF SITE	TWO (2) MILES OF SITE	THREE (3) MILES OF SITE
A. 2078 NO. OF PERSONS	B. 4755 NO. OF PERSONS	C. ______ NO. OF PERSONS

02 DISTANCE TO NEAREST POPULATION ______ (mi)

03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE ______

04 DISTANCE TO NEAREST OFF-SITE BUILDING ______ (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)

Rural community, with small commercial & industrial areas near center of Springville

EPA

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NY	NYD 012 385 5

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)

☐ 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	
Unknown (ft)	2-10 (ft)		

06 NET PRECIPITATION	07 ONE YEAR 24 HOUR RAINFALL	08 SLOPE: SITE SLOPE	DIRECTION OF SITE SLOPE	TERRAIN AVERAGE SLOPE
~7 (in)	2.1 (in)	13 %	S	6-3 %

09 FLOOD POTENTIAL	10
SITE IS IN 250 YEAR FLOODPLAIN	☐ SITE IS ON BARRIER ISLAND, COASTAL HIGH HAZARD AREA, RIVERINE FLOODWAY

11 DISTANCE TO WETLANDS (5 acre minimum)

ESTUARINE	OTHER
A. _____ (mi)	B. 0.62 (mi)

12 DISTANCE TO CRITICAL HABITAT (of endangered species)

7 3 (mi)

ENDANGERED SPECIES: _____

13 LAND USE IN VICINITY

DISTANCE TO:

COMMERCIAL/INDUSTRIAL	RESIDENTIAL AREAS; NATIONAL/STATE PARKS, FORESTS, OR WILDLIFE RESERVES	AGRICULTURAL LANDS: PRIME AG LAND	AG LAND
A. 0 (mi)	B. 200' (mi)	C. _____ (mi)	D. 100' (mi)

14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY

Site is a small hill on the NW corner of Winsmith Property. Surrounding area is relatively flat slightly sloping to the NE. Site is bordered by farm lands to the north, B&O railroad to the east, an open field to the west, and residential and commercial properties on Franklin Street to the south.

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

E&S & DM Site Visit, 1983
NYS Office of Community Water System Sources, 1982
CFR 40, Part 300, Appx B, 1983
Cal Stats, 1973

EPA

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

I. IDENTIFICATION
01 STATE: NY | 02 SITE NUMBER: D002123552

II. SAMPLES TAKEN

SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER		None, but samples do exist	
SURFACE WATER			
WASTE			
AIR			
RUNOFF		V	
SPILL			
SOIL			
VEGETATION			
OTHER		None	

III. FIELD MEASUREMENTS TAKEN

01 TYPE	02 COMMENTS
HNu	Readings taken in April 1986, upwind and downwind of the site indicated no measure of organics

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: Site map of site was updated during site investigation.

V. OTHER FIELD DATA COLLECTED (Provide narrative description)

Ownership: From Larry Coty during site visit.
History
Sample Results: From Larry Coty in letter
Recra Analytical Results: From Larry Coty.

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

Site inspection & interview 12-9-85

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
NY	D002123552

II. CURRENT OWNER(S) / PARENT COMPANY (if applicable)

01 NAME	02 D+B NUMBER	08 NAME	09 D+B NUMBER
Peerless-Winsmith, Inc. (Present)			

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD #, etc.)	11 SIC CODE
172 Eaton Street			

05 CITY	06 STATE	07 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE
Springville	NY	14141			

01 NAME	02 D+B NUMBER	08 NAME	09 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD #, etc.)	11 SIC CODE

05 CITY	06 STATE	07 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE

01 NAME	02 D+B NUMBER	08 NAME	09 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD #, etc.)	11 SIC CODE

05 CITY	06 STATE	07 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE

01 NAME	02 D+B NUMBER	08 NAME	09 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD #, etc.)	11 SIC CODE

05 CITY	06 STATE	07 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE

III. PREVIOUS OWNER(S) (List most recent first) / IV. REALTY OWNER(S) (If applicable; list most recent first)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
Unidynamics-Winsmith (1984)			

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
Winsmith-UMC Div., Inc (1963-1984)			

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
Winsmith, Inc. (1946-63)			

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)

Larry Coty; Site Visit 12-9-85

EPA

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NY	D000123552

II. CURRENT OPERATOR (Provide if different from owner)

01 NAME	02 D+B NUMBER
Textron-Winsmith, Inc.	

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

05 CITY	06 STATE	07 ZIP CODE
Springville	NY	14141

08 YEARS OF OPERATION	09 NAME OF OWNER
1984-Present	Bob Groner - President

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 in reverse chronological order)

PREVIOUS OPERATORS' PARENT COMPANIES (If applicable)

01 NAME	02 D+B NUMBER	10 NAME	11 D+B NUMBER
Unidynamics-Winsmith			

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE

05 CITY	06 STATE	07 ZIP CODE	14 CITY	15 STATE	16 ZIP CODE

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD
1984	Leo Burton President

01 NAME	02 D+B NUMBER	10 NAME	11 D+B NUMBER
Winsmith, UMC Div.			

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE

05 CITY	06 STATE	07 ZIP CODE	14 CITY	15 STATE	16 ZIP CODE

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD
1963-84	Willard C. MacFarland 1970-84 Gordon Reader 1969-70 (more)

01 NAME	02 D+B NUMBER	10 NAME	11 D+B NUMBER
Winsmith, Inc.			

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE

05 CITY	06 STATE	07 ZIP CODE	14 CITY	15 STATE	16 ZIP CODE

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD
1946-63	James T. Murray & Durran Roderick

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

Site Visit w/ Larry Coley 12-9-85

A more detailed list of company personnel & ownership is in file.

EPA

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

I. IDENTIFICATION
01 STATE: NY | 02 SITE NUMBER: D000123552

II. ON-SITE GENERATOR

01 NAME	02 D+B NUMBER
Winsmith	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
172 Eaton St.	
05 CITY	06 STATE / 07 ZIP CODE
Springville	NY / 14141

III. OFF-SITE GENERATOR(S)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
None			
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)

Interview w/ Larry Doty (Site Visit) 12-9-85

EPA

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NY	NYD 021235[illegible]

II. PAST RESPONSE ACTIVITIES

01 ☐ A. WATER SUPPLY CLOSED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
Not Applicable

01 ☐ B. TEMPORARY WATER SUPPLY PROVIDED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
Not Applicable

01 ☐ C. PERMANENT WATER SUPPLY PROVIDED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
Not Applicable

01 ☐ D. SPILLED MATERIAL REMOVED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
Not Applicable

01 ☐ E. CONTAMINATED SOIL REMOVED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
Not Applicable

01 ☐ F. WASTE REPACKAGED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
Not Applicable

01 ☐ G. WASTE DISPOSED ELSEWHERE — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
Not Applicable

01 ☑ H. ON SITE BURIAL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
Heat treat wastes (cyanides, scrap metals) disposed on-site

01 ☐ I. IN SITU CHEMICAL TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
Not Applicable

01 ☐ J. IN SITU BIOLOGICAL TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
Not Applicable

01 ☐ K. IN SITU PHYSICAL TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
Not Applicable

01 ☐ L. ENCAPSULATION — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
Not Applicable

01 ☐ M. EMERGENCY WASTE TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
Not Applicable

01 ☐ N. CUTOFF WALLS — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
Not Applicable

01 ☐ O. EMERGENCY DIKING/SURFACE WATER DIVERSION — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
Not Applicable

01 ☐ P. CUTOFF TRENCHES/SUMP — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
Not Applicable

01 ☐ Q. SUBSURFACE CUTOFF WALL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
Not Applicable

EPA

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NY	NYD021832752

II PAST RESPONSE ACTIVITIES (Continued)

01 ☐ R. BARRIER WALLS CONSTRUCTED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
Not Applicable

01 ☐ S. CAPPING/COVERING — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
Unknown depth of cap (soil cover). Placed after waste disposal

01 ☐ T. BULK TANKAGE REPAIRED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
Not Applicable

01 ☐ U. GROUT CURTAIN CONSTRUCTED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
Not Applicable

01 ☐ V. BOTTOM SEALED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
Not Applicable

01 ☐ W. GAS CONTROL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
Not Applicable

01 ☐ X. FIRE CONTROL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
Not Applicable

01 ☐ Y. LEACHATE TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
Not Applicable

01 ☐ Z. AREA EVACUATED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
Not Applicable

01 ☐ 1. ACCESS TO SITE RESTRICTED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
Partial Fence

01 ☐ 2. POPULATION RELOCATED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
Not Applicable

01 ☐ 3. OTHER REMEDIAL ACTIVITIES — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
None

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

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
NY	D002123552

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)

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. Insufficient information is presently available to complete an HRS score for this site.

PHASE II WORK PLAN

Objectives

The objectives of the Phase II activities are:

- To collect additional field data necessary to identify the occurrence and extent of contamination and to determine if any imminent health hazard exists.
- 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. Sample locations are shown in Figure VI-1.

Geophysical Survey - A geophysical study consisting of electrical resistivity and magnetometer surveys is recommended. The electrical resistivity survey will be performed at various locations within and beyond the perimeter of the site to investigate site stratigraphy, delineate significant discontinuities and assess the presence and location of contaminant plumes. A magnetometer survey will be conducted as necessary on a grid system to aid in delineating the limits of the contaminated area.

Groundwater - A groundwater monitoring system consisting of 3 wells (one upgradient and two downgradient) is recommended. Additional data must be collected to verify that the direction of groundwater flow is south and determine if past on-site disposal practices have contaminated groundwater at the site. Borings will be drilled to a maximum depth of 30 feet; soil samples will be taken every 5 feet or more frequently if a change in soil lithology is encountered. The wells will be placed in the aquifer of concern and constructed of 2" PVC pipe. The groundwater samples will be analyzed for HSL organics, HSL metals, cyanide, and oil and grease. In addition, sieve and hydrometer analyses will be performed on representative samples.

Surface Water and Sediment - A surface water and sediment monitoring system consisting of 3 monitoring stations is recommended. The monitoring stations will include one upgradient and two downgradient locations. The two downgradient samples will be in the drainage ditch that flows to Spring Creek. The upgradient location will either be ponded surface water on the hill or as indicated on Figure VI-1. The surface water and sediment samples will be analyzed for HSL organics, HSL metals, cyanides, and oil and grease.

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

TASK DESCRIPTION

The proposed Phase II tasks are described in Table VI-2.

COST ESTIMATE

The estimated man-hours required for the Phase II project are presented in Table VI-3 and the estimated project costs are presented by task in Table VI-4.

HEALTH AND SAFETY PLAN

The Health and Safety Plan will be submitted as a separate document.

QUALITY ASSURANCE PLAN

The Quality Assurance Plan will be submitted as a separate document.

TABLE VI-1

ASSESSMENT OF DATA ADEQUACY

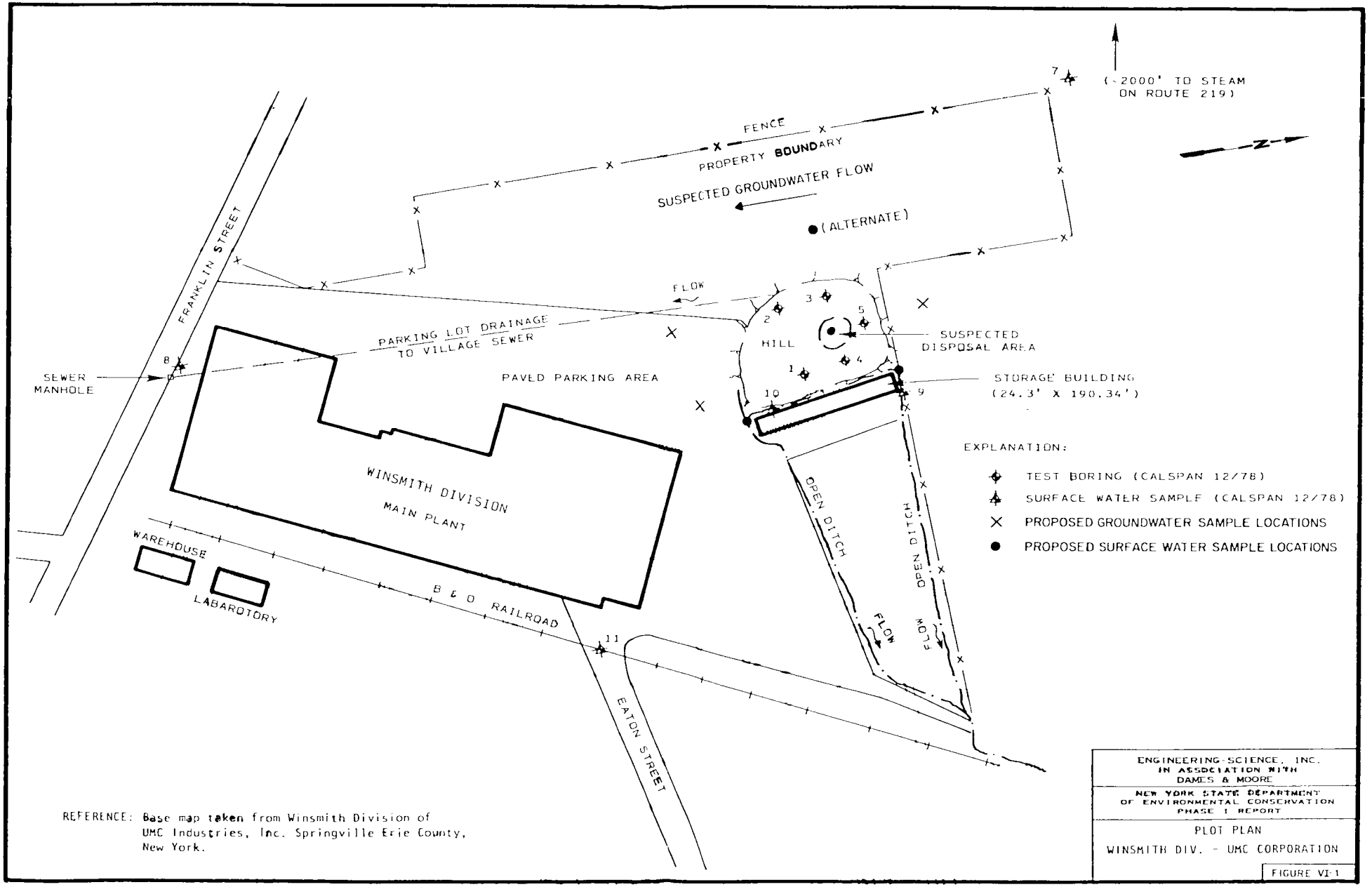
HRS Data Requirement	Comments on Data
Observed Release	
Groundwater	Inadequate to score an observed release
Surface Water	Inadequate to score an observed release
Air	Inadequate to score an observed release
Route Characteristics	
Groundwater	Adequate for HRS score
Surface Water	Adequate for HRS score
Air	Adequate for HRS score
Containment	Adequate for HRS score
Waste Characteristics	Inadequate for HRS score, analyses for metals and organics are needed.
Targets	Adequate for HRS score
Observed Incident	Adequate for HRS score
Accessibility	Adequate for HRS score

TABLE VI-2
PHASE II WORK PLAN - TASK DESCRIPTION

Task		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	Conduct resistivity and surveys.
II-C	Conduct Boring/Install Monitoring Wells	Install 1 upgradient and 2 downgradient wells. The wells are to be located at a depth of approximately 30 feet and constructed of 2" PVC pipe.
II-D	Construct Test Pits/Auger Holes	No further construction of test pits/ auger holes necessary.
II-E	Perform Sampling & Analysis	
	Soil samples from borings	Soil samples collected at 5' intervals during drilling and at changes in subsurface lithologies. Perform one grain size analysis and permeability test per subsurface lithology change.
	Soil samples from surface soils	No further studies necessary.
	Soil samples from auger holes/test pits	No further studies necessary.
	Sediment samples from	3 sediment and surface water samples are to be collected and analyzed for HSL organics, HSL metals, cyanides, and oil and grease.
	Groundwater samples	3 groundwater samples are to be collected and analyzed for HSL organics, HSL metals, cyanides, and oil and grease.

TABLE VI-2, Continued
PHASE II WORK PLAN - TASK DESCRIPTION

Task		Description of Task
	Surface water samples	3 surface water samples are to be collected and analyzed for HSL organics, HSL metals, cyanides, and oil and grease.
	Air samples	Using the HNu, determine the presence of organics.
	Waste samples	No further sampling necessary.
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 Phase I report, 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.



REFERENCE: Base map taken from Winsmith Division of UMC Industries, Inc. Springville Erie County, New York.

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
PHASE II INVESTIGATION
COST ESTIMATE

SITE ID #: 915058 TABLE VI-3
SITE NAME: WINSMITH DIVISION - UMC CORPORATION
CONSULTANT: ENGINEERING SCIENCE ESTIMATED HOURS OF DIRECT TECHNICAL LABOR (DTL)

TASK DESCRIPTION	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	TOTAL HOURS	TOTAL COST
II-A UPDATE WORKPLAN	4	24	4	12	4	72	32	40	24	52	268	3801.20
1/3/86												
II-B CONDUCT GEOPHYSICAL STUDIES	2	2				40		80	10	10	144	1863.20
II-C CONDUCT BORING/INSTALL MONITORING WELLS		2				40		8	10	12	72	949.60
II-D CONSTRUCT TEST PITS/ AUGER HOLES											0	0.00
II-E SAMPLING AND ANALYSIS											0	0.00
Soil samples from borings						8		8			16	216.80
Soil samples from surface soils											0	0.00
Soil samples from auger holes/test pits											0	0.00
Sediment samples from surface water		3				12		12			27	400.80
Groundwater samples		2				24		24			50	700.80
Surface water samples		3				12		12			27	400.80
Air samples											0	0.00
Waste samples											0	0.00
II-F CALCULATE FINAL HRS SCORE	8	18	4	2	8	50	40	20	8	8	166	2656.80
II-G CONDUCT SITE ASSESSMENT	2	42	4		8	74	40	10	60	100	340	4554.60
II-H PROJECT MANAGEMENT	4	30	4		16					48	102	1662.40
TOTAL HOURS	20	126	16	14	36	332	112	214	112	230		
HOURLY RATE $	33.40	25.20	22.00	19.70	17.00	15.10	13.30	12.00	9.60	8.60		
DIRECT LABOR COSTS $	668.00	3175.20	352.00	275.80	612.00	5013.20	1489.60	2568.00	1075.20	1978.00		

2/7/86

TOTAL DTL COSTS	17207.00
INDIRECT LABOR COSTS	20304.26
TOTAL LABOR COSTS	37511.26
PROFIT (15%)	5626.69
TOTAL PRICE	43137.95

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
PHASE II INVESTIGATION
COST ESTIMATE

SITE ID #: 915058 — TABLE VI-4
SITE NAME: WINSMITH DIVISION - UNC CORFOR
CONSULTANT: ENGINEERING SCIENCE

TASK DESCRIPTION	DIRECT LABOR HOURS	DIRECT LABOR COST($)	SUBCONTR. COSTS $	SUPP.& EQUIP. $	MISC. $	TRAVEL & PER DIEM $	TOTALS $
II-A UPDATE WORKPLAN	268	3801		360	210	350	4721.00
II-B CONDUCT GEOPHYSICAL STUDIES	144	1863		800	40	910	3613.00
II-C CONDUCT BORING/INSTALL MONITORING WELLS	72	950	13250	880	60	575	15715.00
II-D CONSTRUCT TEST PITS/ AUGER HOLES							0.00
II-E SAMPLING AND ANALYSIS			13300	450	50	850	14650.00

1/3/86

Soil samples from borings	16	217					217.00
Soil samples from surface soils							0.00
Soil samples from test pits/ auger holes							0.00
Sediment samples from surface water	27	411					411.00
Groundwater samples	50	701					701.00
Surface water samples	27	411					411.00
Air samples							0.00
Waste samples							0.00
II-F CALCULATE FINAL HRS SCORE	166	2669		100	100		2869.00
II-G CONDUCT SITE ASSESSMENT	340	4551		1000	1000	165	6716.00
II-H PROJECT MANAGEMENT	102	1662		400	150		2212.00
SUBTOTAL	1212	17238.00	26550.00	3990.00	1610.00	2850.00	
INDIRECT LABOR (118% DTL)		20338.48					
PROFIT (%)		15	5	5	5	0	
PROFIT ($)		5636.17	1327.50	199.50	80.50		
TOTAL COSTS ($)		43210.65	27877.50	4189.50	1690.50	2850.00	79818.15

2/7/86

APPENDIX A

Sources Contacted

SOURCES CONTACTED SUMMARY SHEET
WINSMITH DIVISION - UMC CORP.

Person Contacted/ Location	Telephone #	Date	Information Collected
Glenn Hardcastle USEPA Headquarters, Superfund Office 401 M Street, SW Washington, DC	202-382-5617	12/19/85	Reviewed list of sites to determine if additional information was available.
John Anderson USEPA-Region II EPA Information 345 3rd St., Suite 530 Niagara Falls, NY 14305	716-285-8842	1/6/86	General information from site files.
Charley Hudson NYSDOH Empire State Plaza Corning Tower Albany, NY 12237	518-474-2121	12/30/85	Draft Reports.
Kevin Walters NYSDEC-Div. of Environmental Enforcement 50 Wolf Road Albany, NY 12233	518-457-4346	11/20/85	Reviewed list of sites to determine legal actions taken.
Walt Demick NYSDEC-Div. of Solid & Haz. Waste 50 Wolf Road Albany, NY 12233	518-457-0639	11/19/85	General information from site files.
Bob Hannaford NYSDEC-Div. of Water SPDES Files 50 Wolf Road Albany, NY 12233	518-457-6716	11/20/85	Reviewed SPDES files for permit numbers and conditions.
Val Washington NYS - Dept. of Law, Attorney General's Office Empire State Plaza Albany, NY 12233	518-473-3105	12/16/85	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.

SOURCES CONTACTED SUMMARY SHEET

Person Contacted/ Location	Telephone #	Date	Information Collected
Jeff T. Lacey Peter Burke Glenn Bailey NYS - Div. of Environmental Enforcement 600 Delaware Ave. Buffalo, NY 14202	716-847-4582	12/27/85 1/7/86	Reviewed list of sites to determine legal actions taken.
Peter Buechi Ahmad Tayyebi Bob Mitrey Larry Clare NYSDEC - Region 9 Div. of Solid & Haz. Waste 600 Delaware Ave. Buffalo, NY 14202	716-847-4585	11/14/85	Collected information from site files.
Lou Violanti NYS - Regional Dept. of Health 585 Delaware Ave. Buffalo, NY 14202	716-847-4500	11/15/85	Sent site information to Peter Buechi.
Henry Sondonato Robert Armbrust Dick Dybowski Larry Stiller Jackie DiPronio NYSDEC - Region 9 Division of Air 600 Delaware Ave. Buffalo, NY 14202	716-847-4565	11/15/85	Air emissions permits for sites.
Mike Wilkenson Jim Sneider NYSDEC - Region 9 Div. of Fish & Wildlife 600 Delaware Ave. Buffalo, NY 14202	716-847-4600	11/14/85	Endangered species information.
Mike McMurray NYSDEC - Region 9 600 Delaware Ave. Buffalo, NY 14202	716-847-4551	1/8/86	Wetlands and flood zone information.

SOURCES CONTACTED SUMMARY SHEET

Person Contacted/ Location	Telephone #	Date	Information Collected
Marion Pfohl Spencer Schofield Erie and Niagara County Regional Planning Board 3103 Sheraton Dr. Amherst, NY 14226	716-837-2035	12/20/85	Census data, general site information.
Tony Voell Don Campbell Erie County - Division of Environmental Control 95 Franklin St. Buffalo, NY	716-846-6271	11/14/85	Collected information from Erie County site files.
Ron Koczaja Erie County Health Department 95 Franklin St. Buffalo, NY	716-846-7677	11/25/85	General information.
Dick Wells Village of Springville Water Department Springville, NY	716-592-4722	12/17/85	Local water supply.
Lary Coty George Mangiarelli Winsmith Div. - UMC Corp. 172 Easton Street Springville, NY	716-592-9311	12/09/85	Site interview - ownership, disposal practices, etc.

GENERAL REFERENCES*

17. Interagency Task Force on Hazardous Wastes, Winsmith Division of UMC Industries, Inc., no date.

18. LaSala, A. M., Ground-Water Resources of the Erie-Niagara Basin, New York, 1968.

19. NYSDEC, Ambient Water Quality Standards and Guidance Values, July 24, 1985.

20. BLT Technical Services, 1985.

21. USDA. General Soil Map and Interpretations - Erie County.

*Does not include "HRS References" which are provided directly after the HRS Documentation Records in Section V.

REF 17

INTERAGENCY TASK FORCE ON HAZARDOUS WASTES
M.P.O. Box 561
Niagara Falls, New York 14302
(716) 285-3057

I. General Information

1. Company Name: Winsmith, Division of UMC Industries, Inc.

Mailing Address: 172 Eaton Street, Springville, New York 14141
Street / City / State / Zip

Present Plant Location: [X] Same as Above

Street / City / State / Zip

2. If Subsidiary or Division, Name of Parent Company: UMC Industries, Inc.

3. Person Responsible for Present Plant Operations: Willard C. Macfarland
Name

President — 716/592-9311
Title / Telephone

4. Person Answering this Questionnaire: George Mangiarelli
Name

Manager of Manufacturing Engineering — 716/592-9311
Title / Telephone

II. Company History

1. Date Company Founded: 1901

Date and State of Incorporation: New York

Date Company Began Operations in Erie or Niagara County: 1901

2. Other Company Names since 1930 (specify time periods): Essex and Smith Co. - 1901 - 1924; Winfield H. Smith, Inc. 1924 - 1946; Winsmith Inc. - 1946 - 1963

3. Other Plant Locations in Erie or Niagara County since 1930 (specify locations and time periods): None

4. Names of Companies Acquired which have Operated Plants in

REF-17

APPENDIX A

October 13, 1978

SOILS REPORT

WINSMITH DIVISION

Springville, New York

Five soil borings were augered northwest of the existing industrial buildings in the Village of Springville, October 10, 1978 to define the extent of a small industrial waste landfill. These five borings were placed around a small pond, the suspected center of the landfill. The placement of the individual bore sites of this soil investigation were under the direction of Mr. Richard F. Leonard, Principal Engineer - Environmental Sciences Department, of Calspan Corporation.

The area of investigation was on top of a kame, the nearby hill formed through glacial action. The original soil consisted of a permeable, well drained stratified gravelly soil over stone-free silty glacial lake sediment. This contrast in sediments is quite evident in the exposed vertical soil exposure along the east side of this hill.

Typically, this soil is not considered suitable for pond construction as water would readily flow outward from the pond through the permeable stratified gravelly sediments. The present existing pond is the result of extensive land filling of impervious soil as indicated in the soil logs. Only soil description #1 indicated an industrial soil.

The above soil report and included soil logs were based on split spoon sampling that were advanced through hollow stem augers into critical soil zones.

Continued on Page #2.....

Soil samples were secured below the landfill pond for special laboratory analysis at Calspan Corporation. The properties or characteristics of the industrial waste material were not recorded.

Soil Report Prepared by:

Don Owens

Donald W. Owens
Soil Scientist

DWO/dew
2573

CC: Mr. Richard F. Leonard ✓
Principal Engineer
Environmental Sciences Dept.
Calspan Corporation

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

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

by

A. M. La Sala, Jr.

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

in cooperation with

THE NEW YORK STATE CONSERVATION DEPARTMENT
DIVISION OF WATER RESOURCES

STATE OF NEW YORK
CONSERVATION DEPARTMENT
WATER RESOURCES COMMISSION

Basin Planning Report ENB-3

1968

Table 5.--Development of ground water for public water supplies in the Erie-Niagara basin

Community	Source 1/	Average use (gallons per day)
Alden	253-829-3, 254-829-1, -2, -3	200,000
Arcade (includes Sandusky)	229-822-1, -2 231-825-2 232-825-1	700,000
Batavia	259-809-2, -6	1,000,000
Cattaraugus	Four areas of springs, 3 mi south to southeast of village and 219-851-1	200,000
Chaffee	233-828-1	15,000
Collins	229-856-1 230-856-1	50,000
Collins Center	229-849-1, -2	25,000
Corfu	257-824-1	60,000
Delevan	Numerous springs, 1 mi southwest of village, including 228-829-1Sp, -2Sp	50,000
East Aurora	246-836-1, -2, -3, -4	750,000
Gowanda	227-856-1	100,000
Holland	238-832-1, -2	80,000
Lawtons	Several springs including 232-855-1Sp	10,000
Machias	Springs south of village	50,000
North Collins	234-856-1, -3, -4, -5	250,000
North Java	Infiltration galleries and well 240-819-1	15,000
Otto	Infiltration gallery about 1 mi south of village	5,000
Springville	230-840-2, -3	400,000
Varysburg	Springs 1 mi east of village and 246-818-1	25,000
West Valley	Infiltration galleries including 223-836-1, -2	35,000

1/ Well or spring number is given for those sources that were inventoried during the study and are listed in tables 6 and 7.

Table 6.--Records of selected wells in the Erie-Niagara basin

Well number: See "Well-Numbering and Location System" in text for explanation.

Year completed: a - about
b - before

Type of well: Drl - drilled
Drv - driven

Depth of well: All depths below land surface.
a - about
r - reported
all others measured

Diameter of well: Diameters of dug wells are approximate.
Where two or more sizes of casings were used, they are shown in descending order.

Depth to bedrock: All depths below land surface
a - about
m - measured
all others reported

Water-bearing material: Gravel, sand, silt, and till - glacial deposits of Pleistocene age.
Camillus Shale - Camillus Shale of Silurian age.
Limestone - limestone unit consisting of the Onondaga Limestone of Devonian age and the Bertie Limestone and Akron Dolomite of Silurian age.
Lockport Dolomite - Lockport Dolomite of Silurian age.
Shale - Hamilton Group and Connesut Group of Chadwick (1934) and intervening units, all of Devonian age.

Altitude above sea level: Estimated from topographic maps to nearest 5 feet.

Water level: All water levels are below land surface except those preceded by a (+) sign, which are above land surface.
a - about
p - pumping effect is probable
Flow - water flows above land surface but static head could not be measured.
r - reported
all others measured by U.S.G.S. personnel

Method of lift: AL - air lift
Dw - deep well cylinder pump
Jet - deep well jet pump
Sub - submersible pump
Sw - shallow-well pump
Tur - turbine pump

Type of power is indicated as -- I - internal combustion engine
H - manual
all others are electrically powered

Estimated pumpage: Average daily pumpage supplied by owner, tenant, or operator, or computed on basis of per capita consumption of 50 gpd per person or 20 gpd per milk cow.

Use: A - abandoned
Ag - agricultural
C - commercial
D - domestic
F - dairy farm
GT - gas test
I - industrial
In - institutional
Ir - irrigation only
PS - public supply
T - test
U - unused
X - destroyed

Remarks: anal - chemical analysis in this report
dd - drawdown
est - estimated
gas - flammable gas issues from well
gpd - gallons per day
gpm - gallons per minute
H_2S - hydrogen sulfide gas present in ground water
Iron - water has noticeable iron content
LS - land surface
OW - observation well, series of water-level measurements available
r - reported
swl - static water level
temp - temperature, in degrees Fahrenheit, measured by U.S.G.S. on same day wate level was measured unless otherwise noted

Table 6.--Records of selected wells in the Erie-Niagara basin (Continued)

Well number	County	Owner	Year completed	Type of well	Depth of well (feet)	Diameter (inches)	Depth to bedrock (feet)	Water-bearing material	Altitude above sea level (feet)	Water level: Below land surface (feet)	Water level: Date	Method of lift	Estimated pumpage or flow (gallons per day)	Use	Remarks
230-838-1	Erie	B. Mooney	--	Drv	14.1	1 1/4	--	Sand and gravel	1,380	3.8	5- 6-64	--	--	A	OW.
230-840-1	do.	Village of Springville	1931	Drl	r139	18, 6	--	do.	1,350	16	7-31	--	--	A, PS	Originally finished with shutter screen, 12-inch diameter from 121-135 ft; pumping test 830 gpm, dd 25 ft; gravel packed liner with 6-inch diameter screen from 119.5-135 ft, then installed to reduce amount of sand pumped from well; abandoned about 1944 because of sand pumping.
-2	do.	do.	1944	Drl	r137	18, 12	--	do.	1,350	pr27	1-29-63	Tur	200,000	PS	H_2S; pumping rate 630 gpm; screen, 12-inch diameter from 122-137 ft; gravel packed; pumping test on 8-5-44, 672 gpm, swl 27.4 ft, dd 16.4 ft after 8 hours pumping (swl at this time probably was affected by pumping from wells 230-840-1 and -3).
-3	do.	do.	1942	Drl	r159	18, 10	--	do.	1,350	p31.5	1-29-63	Tur	200,000	PS	H_2S; pumped at 600 gpm; screen, 10-inch diameter, 100-slot from 144-149 ft; 80-slot from 149-159 ft; gravel packed; pumping test 5-14-42, 513 gpm, swl 37.7 ft, dd 20.6 ft (swl probably affected by pumping of well 230-840-1).
230-842-1	do.	G. Kroll	1962	Drl	125	6	19	Shale	1,335	p46	7-28-64	Jet	200	D	Anal; iron; yield 1 gpm (r).
230-843-1	do.	C. Hunt	1964	Drl	r330	6, 4	--	Sand	1,385	199	8-11-64	--	--	D	Yield 5 gpm (r); casing backfilled with washed gravel to 310 ft.
230-845-1	do.	F. Schue	1961	Drl	37.9	6	--	Gravel	1,390	20.6	8-28-64	Sw	200	D	Yield 5 gpm.
230-856-1	do.	Town of Collins, Water Districts Nos. 1 & 2	1948	Drl	r42	18, 10	--	do.	835	r17	1948	Tur	--	PS	Pumping rate 150 gpm; construction details are reported to be similar to those of well 229-856-1.
-2	do.	Dan Garnett Gravel Products, Inc.	a1956	Drl	r36	--	--	Sand and gravel	830	--	--	Tur	100,000	I	Anal; supplies gravel plant, use is seasonal; yield 400 gpm.
-3	do.	do.	1962	Drl	30.3	18	--	do.	840	3.7	8-12-64	Tur	2,000	I	Anal; supplies cleaner at asphalt plant, use is seasonal; casing perforated from 26-30 ft; pumping test, 150 gpm, swl 4 ft, dd 7 ft.
231-825-1	Wyoming	Village of Arcade	1962	Drl	r50	12	--	Gravel	1,490	r16	3-26-62	--	--	T	Screen and gravel pack, 38-48 ft; pumping test, 150 gpm, swl 16 ft, dd 3.
-2	do.	do.	1962	Drl	r49	20, 12	--	Sand and gravel	1,490	r17	11-28-62	Tur	--	PS	Screen, 12-inch diameter, 100-slot, 39-49 ft; gravel packed; pumping test 500 gpm, swl 17 ft, dd 7.1 ft after 24 hours pumping.
231-830-1	Cattaraugus	M. Schaper	1956	Drl	200	6	--	do.	1,355	10.5	8- 7-64	Jet	300	D	On same property two wells, 60 ft deep, penetrated clay and were dry; a well 400 ft deep flowed but yielded sulfurous water and was destroyed.
-2	do.	C. Kims	1959	Drl	450	6	454	do.	1,375	Flow	8- 7-64	Sub	3,000	F	
231-831-1	Erie	W. Schlener	1962	Drv	r22	1 1/4	--	do.	1,410	--	--	Sw	400	D	
231-833-1	do.	A. Zisser	1964	Drl	280	6, 4	--	Sand	1,390	8.1	8- 5-64	Sub	--	D	Yield 2 1/2 gpm (r).
-2	do.	J. Rung	1959	Drl	59.3	6	--	Gravel	1,430	39.7	8- 5-64	Jet	350	D	Anal; yield about 25 gpm bailer test.
-3	do.	C. Butler	1962	Drl	94.4	6	--	do.	1,430	p47.2	8- 5-64	Jet	3,000	F	Iron; cased to 150 ft (r, driller); yield 25 gpm bailer test when drilled; yield was inadequate in summer 1964; well may be partly filled in with sand entering at bottom of casing.
231-835-1	do.	P. Schuster	1958	Drl	99.7	6	--	Sand and gravel	1,445	p90.8	8- 6-64	Sub	100	D	Anal.
231-838-1	do.	G. Loncasty	--	Drv	17.6	1 1/4	--	do.	1,400	3.5	5-12-64	--	--	A, Ag	Screened from 14.9-17.6 ft; OW.
231-839-1	do.	K. Ploetz	1956	Drl	29.0	6	--	do.	1,400	18.8	5- 6-64	Jet	200	D	

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

Henry G. Williams
Commissioner

July 24, 1985

MEMORANDUM

TO: Bureau Directors, Regional Water Engineers, Section Chiefs

SUBJECT: Division of Water Technical and Operational Guidance Series (85-W-38)

Ambient Water Quality Standards and Guidance Values
(Originator: John Zambrano)

I. Purpose

The purpose of this document is to provide a compilation of water quality standards and guidance values for toxic and non-conventional pollutants to be used in the Department's regulatory programs, including the SPDES permit program.

II. Discussion

This substantial revision of TOGS 85-W-38 is the result of the promulgation of amendments to 6 NYCRR Part 701-702, effective on August 2, 1985, governing the development and use of surface water quality standards and guidance values. This revision uses a new format in the tabulation and does not include the methodologies for the development of standards and guidance values. The user is referred to the regulations for a description of the methodologies.

III. Guidance

The Quality Evaluation Section will use the attached list in developing SPDES permit water quality-based effluent limits. The Criteria and Standards Section will maintain and revise the list on a regular basis.

for Daniel M. Barolo, P.E.
Director
Division of Water

Attachments
cc: Dr. Banks
Mr. Pagano
Mr. Mt. Pleasant
Regional Engineers for Environmental Quality
Ms. Chrimes

TECHNICAL SERVICES, INC.
4626 Royal Avenue, Niagara Falls, New York 14303 • Phone (716) 285-8208

LABORATORY REPORT

FOR

L. W. COTY

Peerless-Windsmith, Inc.

% cyanide on a composite of the four submitted groundwater samples was <0.5 ug/L. Spot tests also proved negative.

Beverly A. Cavagnaro

Beverly A. Cavagnaro
Laboratory Supervisor

B.L.T. W/O No.: L-159

PEERLESS-WINSMITH, INC.

December 27, 1985

Ms. Cathy J. Bosma
Engineering Science
Two Flint Hill
10521 Rosehaven Street
Fairfax, Virginia 22030-2899

Dear Ms. Bosma:

Please find enclosed a copy of the analytical data on the four groundwater samples which were taken immediately prior to your visit to this facility. You will note that a layout, with sample sites indicated is also enclosed.

I would also like to take this opportunity to thank you for your prompt action with respect to my request for copies of the interview form.

If there is any additional information which you may require, please feel free to contact me.

Sincerely,

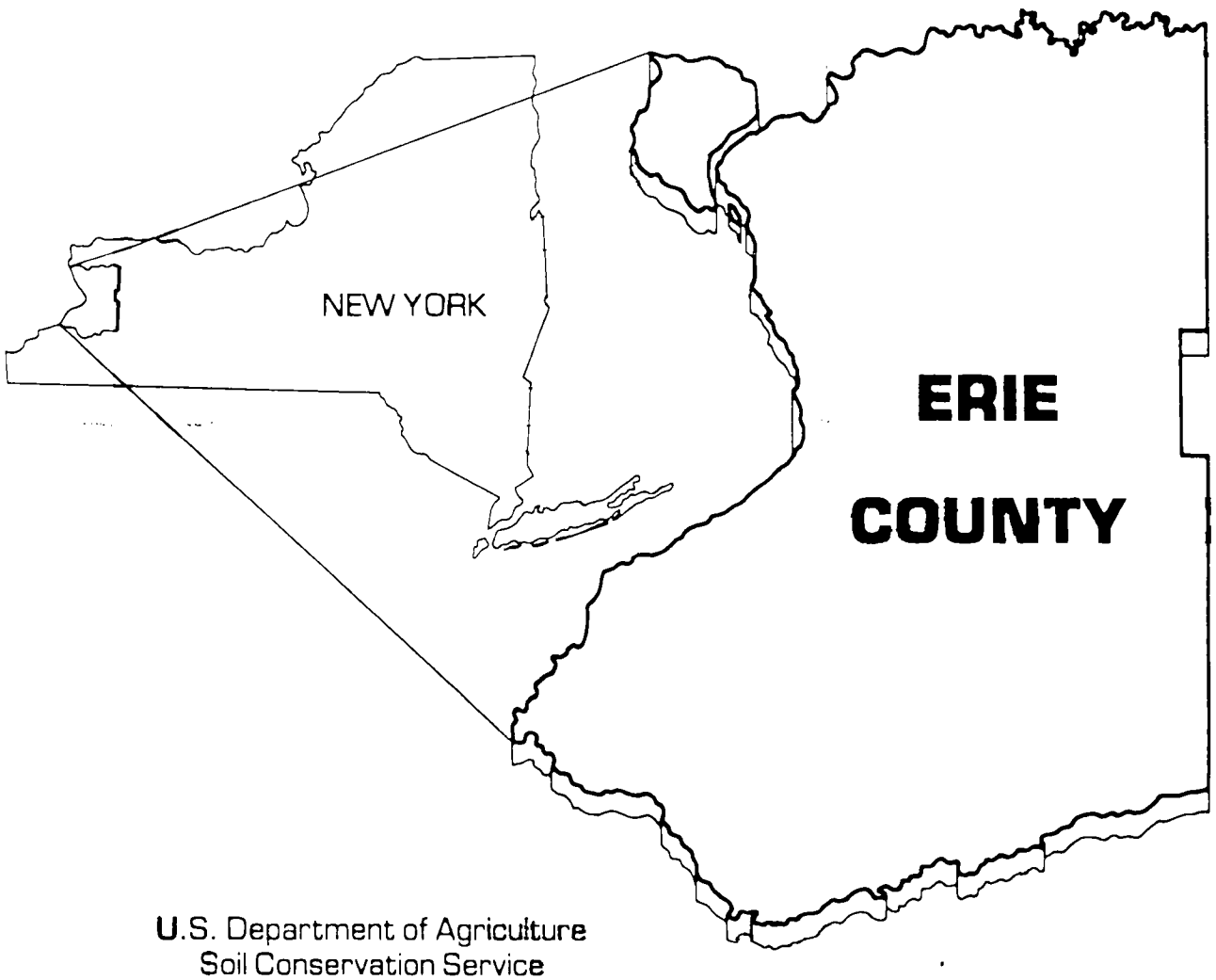
PEERLESS-WINSMITH, INC.

Larry W. Coty

LARRY W. COTY
Manager of Quality Assurance

LWC:ku

GENERAL SOIL MAP and INTERPRETATIONS



U.S. Department of Agriculture
Soil Conservation Service

in cooperation with

Cornell University Agricultural Experiment Station and
Erie County Soil and Water Conservation District

31. CHENANGO-CASTILE, GENTLY SLOPING

Deep, somewhat excessively drained to moderately well drained, very gravelly soils, in valleys

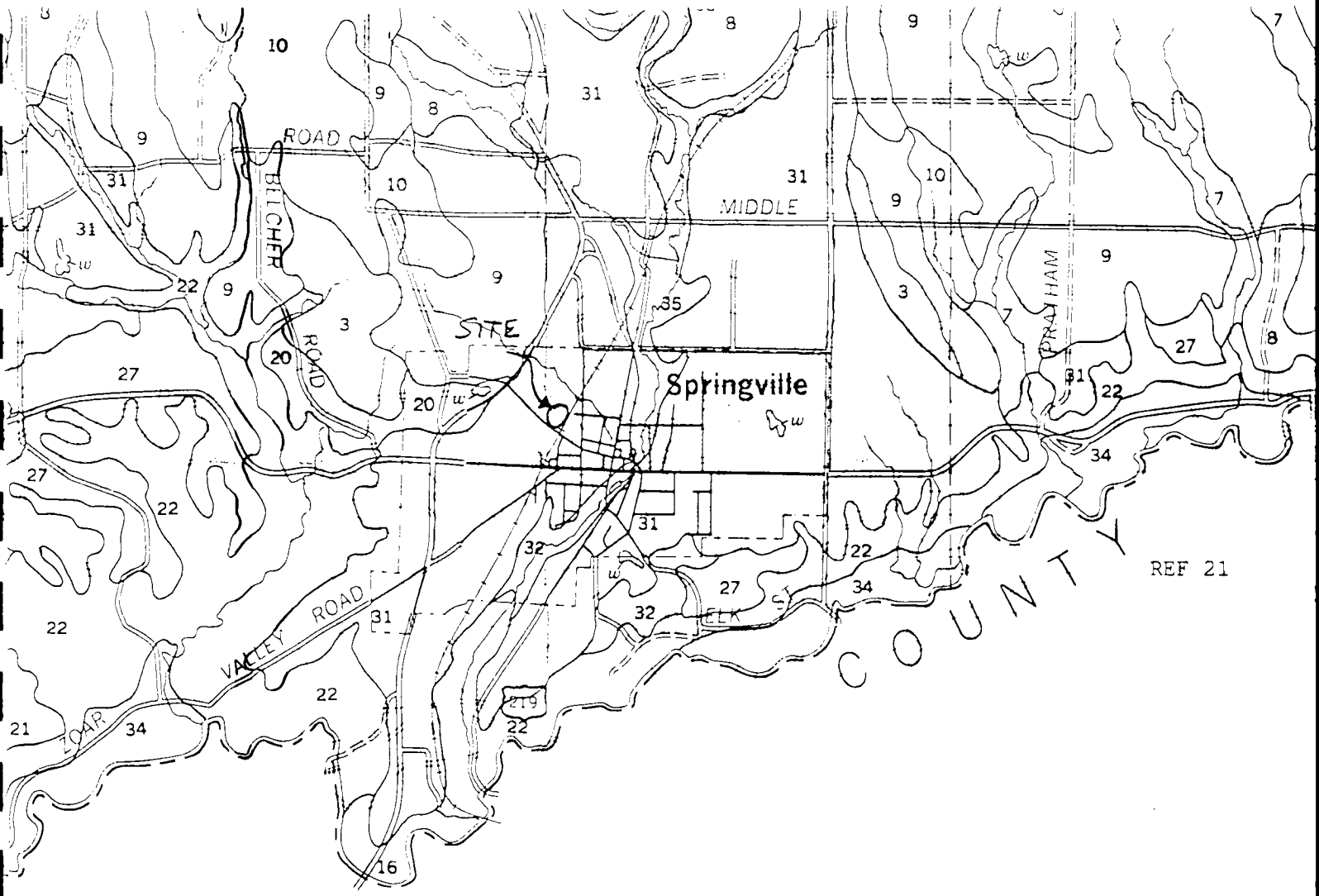
This unit consist of nearly level to sloping soils on terraces and alluvial fans in major valleys in the southern part of the county. Slope ranges from 0 to 15 percent but is dominantly 3 to 8 percent.

This unit covers about 17,900 acres or 2.6 percent of the county. Chenango soils make up 60 percent of the unit, Castile soils about 20 percent, and soils of minor extent the remaining 20 percent.

Chenango and Castile soils formed in outwash sand and gravel deposits dominated by sandstone fragments. Chenango soils are somewhat excessively drained to well drained, and the season high water table in these soils remains at depths greater than six feet. Castile soils are moderately well drained and have a seasonal high water table in the lower part of the subsoil for brief periods in early spring. The rate of water movement (permeability) through the Chenango soils is moderate or moderately rapid in the subsoil and rapid in the substratum. In the Castile soils water moves through the subsoil at a moderately rapid rate and through the substratum at a rapid or very rapid rate.

Soils of minor extent are those of Red Hook, Halsey, and Varysburg series. Somewhat poorly drained Red Hook soils are on foot slopes and low terraces; poorly drained and very poorly drained Halsey are in a few low depressions; and Varysburg soils occur where the gravelly deposits are underlain by clayey sediments within 40 inches of the soil surface.

Many areas of this unit are used intensively for farming. The major soils dry rapidly in the spring and are easy to cultivate. Gravel and cobblestones can interfere with some tillage and planting operations. Most areas provide good sites for urban uses. The major soils in this unit are potentially good sources of sand and gravel.


ROAD
BELCHER
SITE
Springville
MIDDLE
PRATHAM
VALLEY ROAD
ELK ST
COUNTY
REF 21
40'
35'

APPENDIX B

PROPOSED UPDATED NYS REGISTRY SHEET

CLASSIFICATION CODE: 2a REGION: 9 SITE CODE: 915058

NAME OF SITE : Winsmith Div. - UMC Corp.
STREET ADDRESS: 172 Eaton Street

TOWN/CITY:	COUNTY:	ZIP:
Springville (village)	Erie	14141

SITE TYPE: Open Dump-X Structure- Lagoon- Landfill- Treatment Pond-
ESTIMATED SIZE: 1 Acres

SITE OWNER/OPERATOR INFORMATION:
CURRENT OWNER NAME....: Winsmith Div. - UMC Corp.
CURRENT OWNER ADDRESS.: 172 Eaton St., Springville, NY 14141
OWNER(S) DURING USE...: Winsmith Div. - UMC Corp.
OPERATOR DURING USE...: Winsmith Div.- UMC Corp.
OPERATOR ADDRESS.....: 172 Eaton St., Springville, NY 14141
PERIOD ASSOCIATED WITH HAZARDOUS WASTE: From 1930 To 1968

SITE DESCRIPTION:
In 1978, Calspan Advanced Technology Center ofBuffalo, NY sampled and analyzed process solid and liquid wastes from the Winsmith plant.
Samples of water and solids taken from a pit on the dump site were also analyzed during the same period.
Elevated levels of cyanide were found in the process waste water and elevated levels of chlorinated hydrocarbons were found in the waste and tramp oil.
Samples from the dump pit site did not indicate ground and surface water contamination.
Erie County has prepared a site profile report in Oct. 1983.

HAZARDOUS WASTE DISPOSED: Confirmed-X Suspected -

TYPE	QUANTITY (units)
Heat treat. sludges (cyanides)	Unknown
Neutralized acids	Unknown
Sodium hydroxide	Unknown

SITE CODE: 915050

ANALYTICAL DATA AVAILABLE:

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

CONTRAVENTION OF STANDARDS:

Groundwater- Drinking Water- Surface Water- Air-

LEGAL ACTION:

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

REMEDIAL ACTION:

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

GEOTECHNICAL INFORMATION:
SOIL TYPE: Sandy, silt, clay - gravelly loam
GROUNDWATER DEPTH: <20'

ASSESSMENT OF ENVIRONMENTAL PROBLEMS:

From the limited data available at this time, there appears to be no significant threat to the environment.

ASSESSMENT OF HEALTH PROBLEMS:

Insufficient information, however, site is apparently upgradient of municipal wells.

PERSON(S) COMPLETING THIS FORM:

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

NAME.: Abul Barkat
TITLE: Sr. Sanitary Engr.

NAME.: Peter Buechi
TITLE: Assoc. Sanitary 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