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915058

DUNN

ENGINEERING INVESTIGATIONS AT INACTIVE HAZARDOUS WASTE SITES

PRELIMINARY SITE ASSESSMENT

Winsmith Division - UMC Corp. Site No. 915058

Village of Springville 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, Jr., *Director*

By:
DUNN ENGINEERING COMPANY
in association with
TAMS CONSULTANTS, INC.

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January 1994

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EXECUTIVE SUMMARY

Site Description

The Winsmith Division of UMC Corporation, presently known as the Peerless Winsmith facility, is located at 172 Eaton Street in the Village of Springville, Erie County, New York (Figure ES-1). This facility manufactures speed reducers, gears and related parts. Processes at the plant include heat treatment, salt bath carbonizing, machining, fabrication, degreasing and painting. The site is located within the corporate boundary of the Village of Springville and bordered by farmlands on the north and west; by the Baltimore and Ohio Railroad on the east; and Franklin Street to the south. Water supply wells for the Village of Springville are located approximately 1,200 feet west-southwest of the property.

It is reported that between 1930 and 1968, approximately 3,000 cubic feet of industrial waste was disposed on-site in a 20' x 15' x 10' pit excavated into a hill located on the northern part of the property (Figure ES-2).

A site inspection was conducted in 1990 by a DUNN/TAMS team in which no evidence of waste disposal or stressed vegetation was observed. Some surface water ponding and saturated soils were noted at the northeast base of the hill.

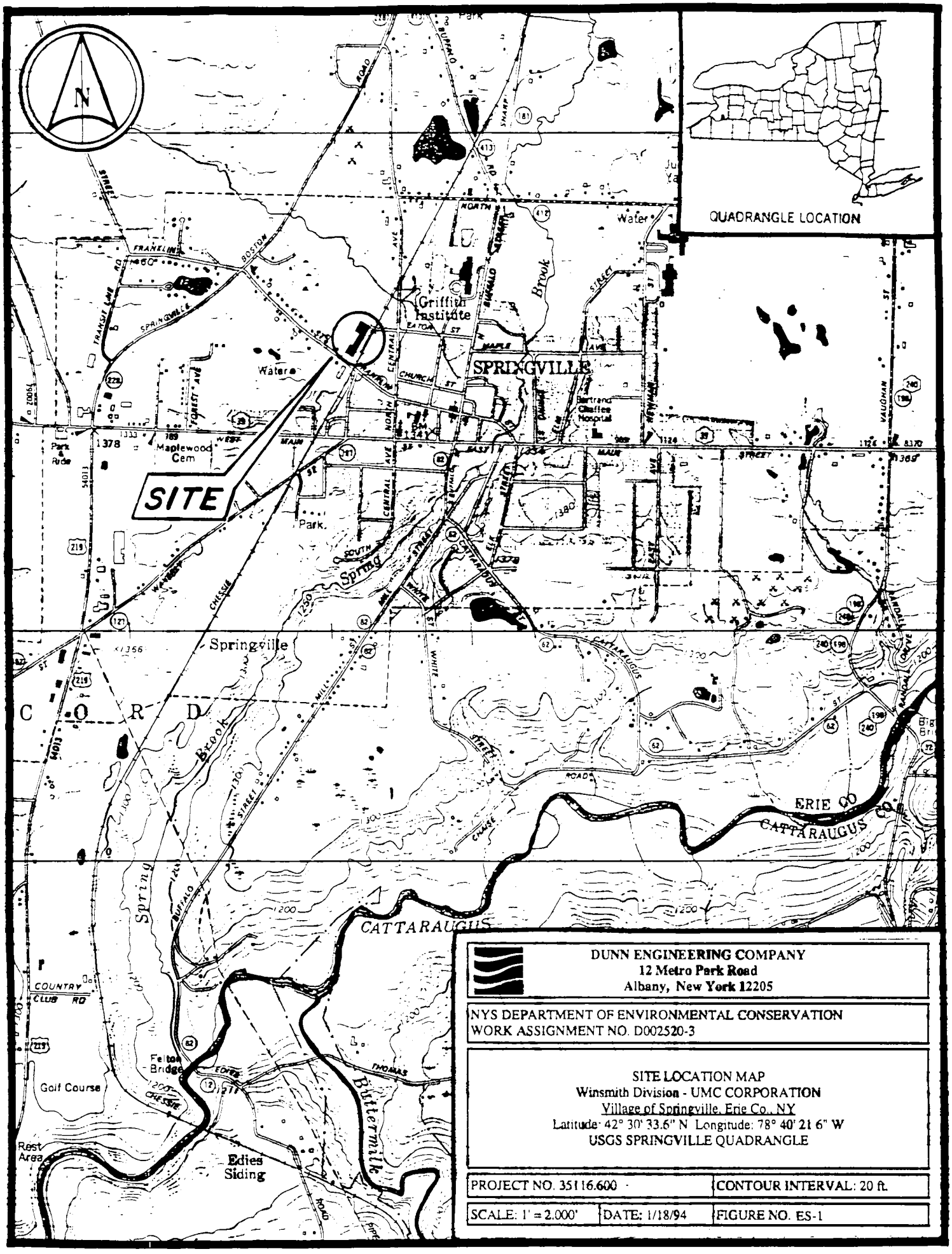
Summary of Preliminary Site Assessment

Several investigations in the past have confirmed the presence of waste buried on the site. In 1978, five borings were drilled and samples indicated the presence of oil and grease. In 1986, a USEPA site inspection was performed in which soil samples indicated the presence of several volatile and semi-volatile organic compounds. The greatest concentrations found were 8.53 parts per million (ppm) acetone and 195 ppm xylene. A report issued by NUS Corporation (the USEPA contractor for this investigation) stated there was a "... major potential for hazard...to the Town of Springville municipal water wells...". However, no monitoring wells were installed to assess groundwater quality.

This Preliminary Site Assessment (PSA) involved the excavation of test pits to delineate the extent of the waste pit (Figure ES-3). Three samples were collected from the test pits and analyzed for the full suite of Target Compound List/Target Analyte List of parameters including volatiles, semi-volatiles, pesticides/PCBs, metals and cyanide. In addition, the samples were analyzed for the hazardous waste characteristics of Extraction Procedure Toxicity (EP Tox) and reactivity.

Test pitting located the waste pit and indicated it to be approximately 15 feet x 10 feet and a minimum of eight feet deep. The analytical results indicated elevated levels of several organic compounds as well as metals.

Several volatile organic compounds (VOCs) were detected at elevated levels including carbon disulfide (410 parts per billion (ppb)), toluene (3,900 ppb), ethylbenzene (3,300 ppb) and xylene (240,000 ppb). Semi-volatile compounds, primarily polycyclic aromatic hydrocarbons (PAHs),



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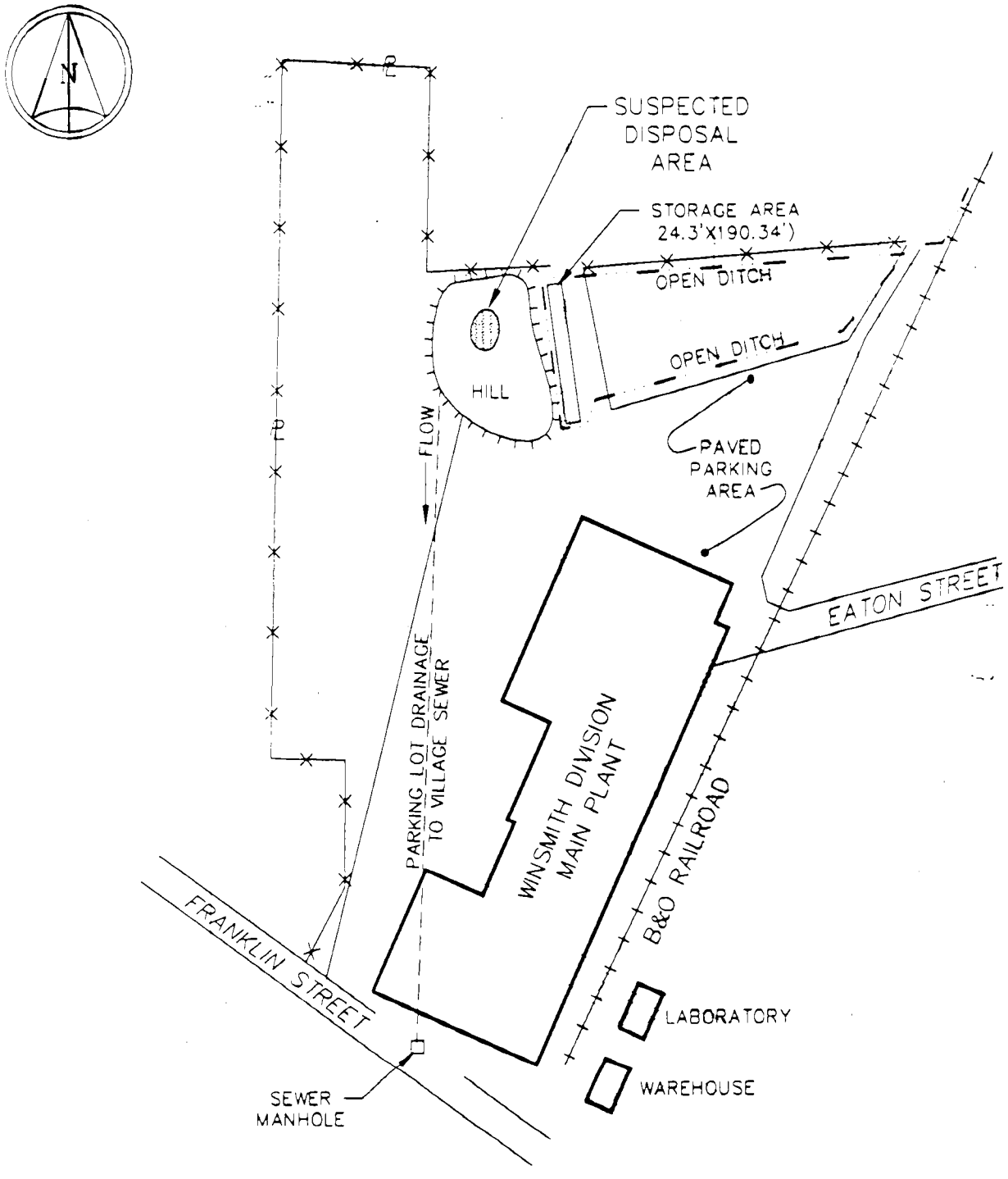
12 Metro Park Road
Albany, New York 12205

NYS DEPARTMENT OF ENVIRONMENTAL CONSERVATION
WORK ASSIGNMENT NO. D002520-3

SITE LOCATION MAP
Winsmith Division - UMC CORPORATION
Village of Springville, Erie Co., NY
Latitude: 42° 30' 33.6" N Longitude: 78° 40' 21.6" W
USGS SPRINGVILLE QUADRANGLE

PROJECT NO. 35116.600		CONTOUR INTERVAL: 20 ft.
SCALE: 1" = 2,000'	DATE: 1/18/94	FIGURE NO. ES-1



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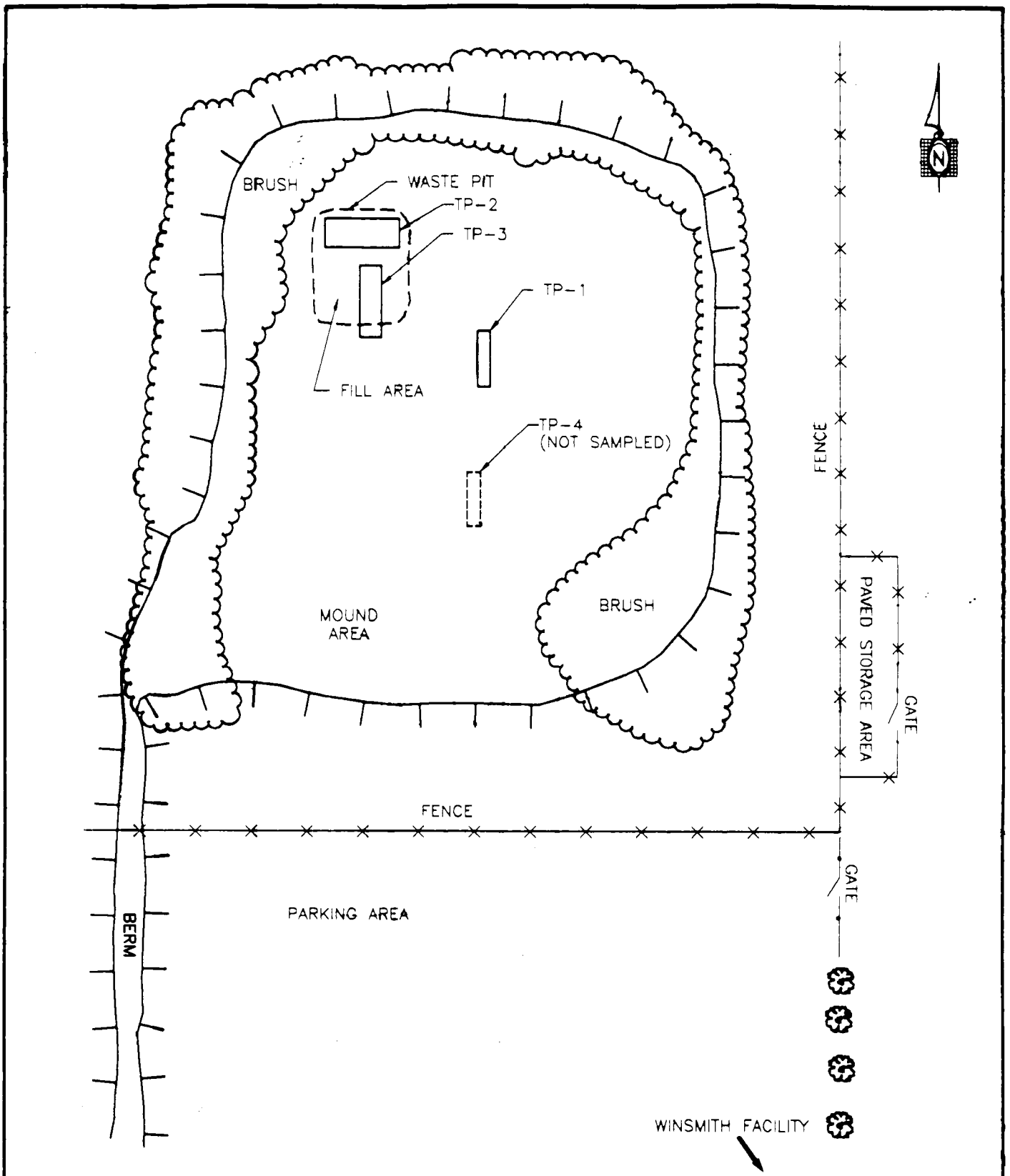
SITE FEATURES MAP
NYS DEPARTMENT OF ENVIRONMENTAL CONSERVATION
WORK ASSIGNMENT NUMBER: D002520-3
Winsmith Division
UMC CORPORATION
VILLAGE OF SPRINGVILLE ERIE COUNTY, NY

PROJECT NO. 35116.400	DATE 1/94	DWG. NO. C361	SCALE N.T.S.	FIGURE NO. ES-2



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TEST PIT AND SAMPLE LOCATION MAP

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WORK ASSIGNMENT NUMBER: D002520-3
Winsmith Division
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VILLAGE OF SPRINGVILLE — ERIE COUNTY, NY

PROJECT NO.	DATE	DWG. NO.	SCALE	FIGURE NO.
35116	Jan., 1994	4A0078SD	Not To Scale	ES-3

were also detected. The PAHs are probably the result of cutting oils used in machining operations at Winsmith. In addition, one sample exhibited an elevated level of PCB (21ppm) which did not exceed the hazardous waste threshold of 50 ppm. Several metals were detected at elevated levels including arsenic (18.1 ppm), chromium (398 ppm), copper (381 ppm), lead (126 ppm), nickel (584 ppm) and silver (14.2 ppm). Cyanide was found at 1.3 ppm in one sample.

Conclusion

Based on the information gathered from the data and records search, previous investigations by Calspan Advanced Technology Center (1978), Erie County Department of Environmental Planning (1983), NUS Corporation (1986), Engineering Science (1989) and the scope of this PSA effort, DUNN concludes that exceedances of certain recommended soil cleanup objectives established by NYSDEC have been documented with respect to certain VOCs and PAH compounds. However, the disposal of hazardous waste as defined by 6 NYCRR Part 371 has not been documented at this site.

Recommendation

Based on the review of available data and the results of this PSA, DUNN recommends that the Winsmith Division - UMC Corporation site (NYS Site No. 915058) be removed from the Registry of Inactive Hazardous Waste Disposal Sites in New York State. This recommendation may be subject to modification if new information becomes available.

However, while hazardous waste as defined by New York State law has not been identified, the waste materials observed at the site could potentially impact the primary drinking water aquifer that services the Village of Springville. Therefore, it is recommended that the Division of Water or the Division of Solid Waste address the wastes that are disposed at the site.

1.0 INTRODUCTION

This report prepared for the New York State Department of Environmental Conservation (NYSDEC) presents the results of a Preliminary Site Assessment (State Superfund Standby Contract Work Assignment No. D002520-3) of the Winsmith Division, UMC Corporation (the site), NYS Site Number 915058, EPA Site Number NYS 98053470, located in the Village of Springville, Erie County, New York.

Dunn Engineering Company (DUNN) in association with TAMS Consultants, Inc. (TAMS), under contract with NYSDEC, performed this investigation in order to determine if the disposal of hazardous waste as defined by 6 NYCRR Part 371 is documented, and if so, to determine if the site poses a significant threat to public health and/or the environment as a result of the presence of hazardous waste. This information is needed to either classify or delist the site as defined by Article 27, Title 13 of the Environmental Conservation Law (ECL).

In order to achieve the goals of the preliminary site assessment (PSA), a review of the following information was performed:

- History of use;
- Topography;
- Geology and hydrology;
- Demographics of surrounding area;
- Proximity to possible receptors; and
- Previously noted contamination or regulatory actions.

Sources used to obtain the above listed information include the following:

- New York State Department of Environmental Conservation (NYSDEC);
- New York State Department of Health (NYSDOH);
- Aerial photographs:
- Topographic maps;
- Drilling logs for local wells;
- NYSDEC Phase I Investigation report; and
- USEPA Region II FIT Site Inspection Report.

The following individuals and agencies were contacted:

- Mr. Mark Mateunas, NYSDEC, Bureau of Hazardous Site Control;
- Mr. Michael Rivara, NYSDOH, Bureau of Environmental Exposure Investigation;
- Mr. George Mangierelli, Peerless Winsmith;
- Mr. David Lang, Peerless Winsmith;
- Mr. David Denk, NYSDEC, Regulations;
- Mr. Mark Kendal, NYSDEC, Division of Fish and Wildlife; and
- Mr. Greg Ecker, NYSDEC, Region 9.

Literature sources to complete this report are listed in Appendix A. Specific documentation used in support of the text are presented in Appendix B. On July 25, 1990, a site reconnaissance was performed by Mr. George Moretti (DUNN) and Mr. Martin Derby (TAMS). Site photographs are presented in Appendix C. A site inspection report (U.S. EPA Form 2070-13) is in Appendix D.

2.0 SITE ASSESSMENT

2.1 Site History

The Winsmith Division of UMC Corporation, now the Peerless Winsmith facility, is located at 172 Eaton Street in the Village of Springville, Erie County, New York (Figure 1). The facility property is bordered by farmlands on the north and west, by the Baltimore and Ohio Railroad on the east, and Franklin Street to the south. The facility began operations in 1901 and has been operated by several different corporations: Essex and Smith Co. (1901 to 1924); Winfield H. Smith, Inc. (1924 to 1946); Winsmith, Inc. (1946 to 1963); Winsmith, Division of UMC Ind. (1963 to 1984); Unidynamics-Winsmith, Division of Unidynamics Corp. (1984 - 1986); and Peerless Winsmith (1986 to present) (Reference A-1).

The facility manufactures speed reducers, gears and other related parts. Processes used at the plant include heat treatment, salt bath carbonizing, machining, fabrication, degreasing and painting. The plant has historically generated the following types of waste (Document B-1):

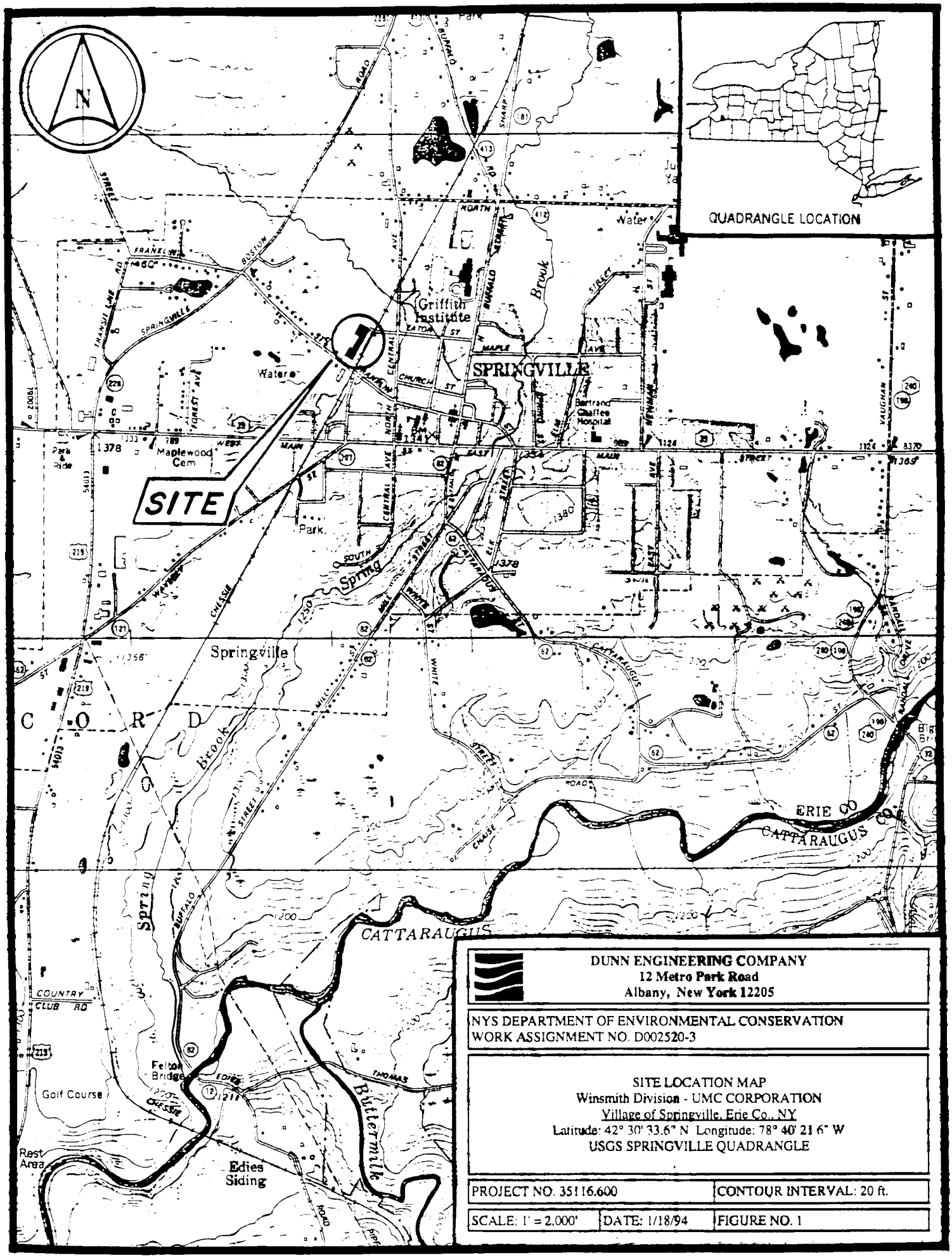
- Steel fines, grinding fines (98 percent) mixed with waste coolant oil and water 2 percent);
- Kolene heat treatment spillage ("Marquench #296", a salt material containing sodium cyanide);
- Hydrochloric acid neutralized with sodium hydroxide (some iron is present in this solution);
- Machine, cutting and cooling oils;
- Dried paint filters; and
- General industrial wastes.

On July 25, 1990, a site inspection was performed by a DUNN/TAMS team. No evidence of waste disposal or distressed vegetation in the suspected waste disposal area was observed. Some surface water ponding and saturated soils were found at the bottom northeast section of this area (Figure 2).

2.2 Site Topography

Topography in the vicinity of the site is fairly level with surface drainage to the south and east. The disposal area is located on a small hill (Reference A-1) at the northwest edge of the plant parking area at an elevation of 1,370 feet above mean sea level (MSL). The remainder of the site lies at an elevation of 1,360 feet MSL.

The site is located in Zone C as designated by the Federal Emergency Management Agency (FEMA) flood zone insurance map (Reference A-6). Zone C includes areas outside the 500 year floodplain.



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NYS DEPARTMENT OF ENVIRONMENTAL CONSERVATION
WORK ASSIGNMENT NO. D002520-3

SITE LOCATION MAP
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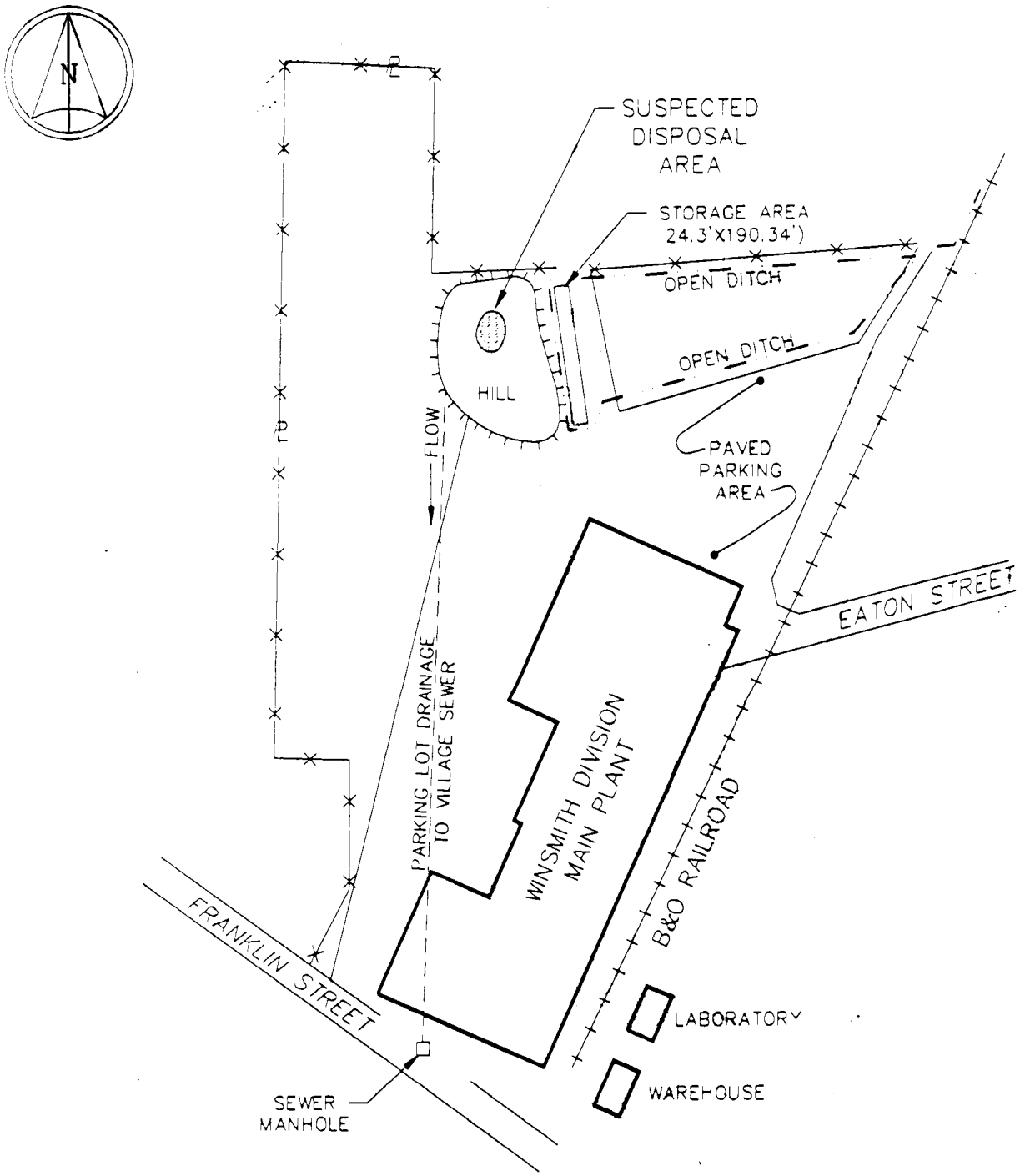
Village of Springville, Erie Co., NY
Latitude: 42° 30' 33.6" N Longitude: 78° 40' 21.6" W
USGS SPRINGVILLE QUADRANGLE

PROJECT NO. 35116.600		CONTOUR INTERVAL: 20 ft.
SCALE: 1" = 2,000'	DATE: 1/18/94	FIGURE NO. 1



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SITE FEATURES MAP
NYS DEPARTMENT OF ENVIRONMENTAL CONSERVATION
WORK ASSIGNMENT NUMBER: D002520-3
Winsmith Division
UMC CORPORATION
VILLAGE OF SPRINGVILLE ERIE COUNTY, NY

PROJECT NO. 35116.400	DATE 1/94	DWG. NO. C361	SCALE N.T.S.	FIGURE NO. 2

2.3 Geology

2.3.1 Physiography

New York State is subdivided into nine distinct physiographic provinces on the basis of topographic relief and geology. The site is located within the Appalachian Uplands which are characterized as having moderate to high relief and generally thin glacial cover. Some of the northern valleys of the province, however, contain thick glacial deposits (Reference A-10). Site topography is relatively flat with surface drainage to the south and east. The site is situated at approximately 1,360 feet MSL in a flat lying valley with elevations to the northwest rising to approximately 1,750 feet MSL. Cattaraugus Creek, a deeply incised stream south of the site, cuts the floor of the valley. Cattaraugus Creek flows west and eventually discharges into Lake Erie.

2.3.2 Surficial Deposits

Regional geologic mapping of the area indicates the presence of outwash sand and gravel comprised of coarse to fine gravel and sand deposited by preglacial streams and rivers (Reference A-11). Soil borings conducted at the site in 1978 by Earth Dimensions, Inc., for Calspan Advanced Technology Center identified the presence of permeable well-drained stratified gravels underlain by silty glacial lake deposits (Reference A-9).

The site soils are classified as the following types by the USDA Soil Conservation Service:

- Chenango gravelly loam, which is characterized as having a surface layer of dark brown gravelly loam to approximately eight inches in depth, with subsoil extending to 30 inches and comprised of an upper five inches of yellowish brown gravelly loam overlying a dark brown gravelly loam.

- Red Hook slit loam, which is characterized by a surface layer of very dark grayish brown silt loam approximately 10 inches thick, with a subsoil composed of yellowish brown loam and brown heavy loam at depth with a thickness of approximately 13 inches.

- Wayland silt loam, which is characterized by a surface layer of very dark grayish brown silt approximately nine inches thick, with a subsoil, approximately 28 inches thick, of dark gray silt loam to a grayish brown stratified silt loam (Reference A-5).

2.3.3 Bedrock

Bedrock underlying the site is mapped as the Upper Devonian aged South Wales Shale, a member of the Machias Formation, Canadaway Group (Reference A-2, A-8). The South Wales shale ranges in thickness from 45 to 60 feet and consists of medium gray to dark gray shale with occasional gray silty shale and gray siltstone. There is limited information on the bedrock underlying the site due to the thick overburden units. Municipal wells for the Village of Springville are located approximately 1,200 feet west-southwest of the site. These wells are completed to depths of 137 to 159 feet and did not encounter bedrock (Reference A-3).

2.4 Hydrogeology

2.4.1 Groundwater

The depth to groundwater within the overburden underlying the site is unknown as there are no groundwater monitoring wells located on-site. Water levels from the nearby municipal wells located west-southwest of the site indicate that groundwater is encountered between 16 and 31.5 feet below land surface (Reference A-3). Groundwater flow within the overburden is assumed to be toward the southeast or east in the direction of Spring Brook. The depth to groundwater and direction of groundwater flow within the bedrock is unknown.

The permeable nature of the unconsolidated deposits suggest that the site may be hydraulically connected to the underlying bedrock. However, the current data are insufficient to evaluate the degree of hydraulic connection between the surficial deposits and underlying bedrock.

2.5 Proximity to Potential Receptors

2.5.1 Surface Water

The site topography is predominantly flat with surface water flowing radially from the small grass hill containing the suspected disposal area in the northern part of the site. Two drainage ditches to the north and east of the hill collect runoff and divert the flow to the northeast corner of the property where it flows into a tributary of Spring Brook. This tributary of Spring Brook is classified as a Class C water body. Class C water bodies have a best usage of fishing, fish propagation, and primary and secondary recreational contact (Reference A-9). Spring Brook, which is also designated as a New York State Class C water body, is located approximately 1,200 feet east of the site (Reference A-9).

The nearest New York State registered wetland is approximately 0.6 miles northeast of the site. It is designated as SP-11 (Document B-3). Approximately eight additional wetlands are located within a three mile radius of the site (Document B-4).

There are no critical habitats for Federal or State designated endangered or threatened species within a three mile radius of the site (Document B-4).

2.5.2 Population

Approximately 7,000 people reside within a three-mile radius of the site with the nearest home located approximately 60 feet from the site (Reference A-4). The Village of Springville well field for the public water supply is located approximately 1,200 feet west-southwest of the site. This well serves approximately 4,200 people (Reference A-7). There are a number of farms in the vicinity of the site that may use well water for irrigation or livestock (Reference A-1). However, there are no active farms within a one-mile radius of the site.

2.5.3 Agricultural Land

The village of Springville is located in a rural area of Erie County. However, there are no active farms within a one-mile radius of the site.

2.5.4 Commercial Land

The surrounding area is predominantly residential with some commercial properties on Franklin Street.

3.0 TASK DISCUSSION

The information presented herein has been based on the results of the data and records search (Task 1) of the State and local agency files. Evaluation of this information initiated development of a site-specific Work Plan/Health and Safety Plan (Task 2), and additionally, implementation of intrusive (Task 4) investigations.

3.1 Data and Records Search

From 1956 to 1976, six types of industrial waste products were disposed at the Chafee Landfill (Document B-1). However, it is reported that between 1930 and 1968, approximately 3,000 cubic feet of industrial waste was disposed on-site in an area excavated in a hill located on the northern part of the property (Figure 2). According to the Interagency Task Force on Hazardous Waste Investigation, the area was used to dispose of heat treatment salts containing sodium cyanide, oily grinding fines, neutralized hydrochloric acid, cutting oils and other industrial waste (Document B-1). The wastes were reported to have been placed into a 20 foot x 15 foot pit to a depth of 10 feet (Document B-2). Additionally, this hill was reportedly used for the disposal of liquid wastes in the past.

In 1978, site inspections were conducted by the Erie County Division of Environmental Health (ECDEH) (Reference A-1) and the Interagency Task Force on Hazardous Waste (Document B-1). 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" (Reference A-1).

3.1.1 Previous Investigations

In 1978, Calspan Advanced Technology Center performed an investigation of the process wastes and landfill area for Winsmith Division, UMC Industries, Inc. Five test borings were drilled on the site by Earth Dimensions, Inc., as part of this investigation. This study indicated that landfilling was apparently confined to a small (20 foot x 15 foot) area on the hill in the northern portion of the facility property. Surface water, sediment/soil and waste material were collected and analyzed for pH, conductivity, oil, grease and cyanide (Document B-2).

Samples of landfill material collected during the Calspan investigation indicated oil and grease contamination at 1 part per million (ppm) in a slag/sediment sample collected from a depth of seven feet within the landfill A similar sample taken two feet below ground surface was not analyzed for oil/grease. Neither sample was found to contain cyanide above the analytical detection limit (i.e., above 0.02 ppm). This study concluded that the waste pit "is not considered to pose any danger of ground or surface water contamination" (Document B-2).

In 1983, the Erie County Department of Environment and Planning (ECDEP) conducted an investigation of the site. This study concluded that the site did not pose "a serious environmental threat" (Document B-5).

In 1986, NUS Corporation, a United States Environmental Protection Agency (U.S. EPA) Region II contractor, conducted a site inspection at the facility. Surface water, sediment and soil samples were collected. A soil sample collected from the landfill surface (NYS6-S2) indicated the presence of 14 volatile organic compounds (VOCs) and four semi-volatile compounds. However, 12 of the 14 VOCs were at or below the contract required detection limit (CRDL) of the USEPA contract laboratory protocol. Acetone was reported at 8.53 ppm and total xylenes were reported at 195 ppm in soil sample NYS6-S2. The balance of the analysis revealed the presence of a few metals at naturally occurring levels and no organic compounds above the CRDL. The report states that there is a "major potential for hazard...to the Town of Springville municipal water supply wells located 1/8 mile north of the site" (Reference A-9). Note that the water supply wells are actually west-southwest of the site.

In 1989, Engineering-Science performed a NYSDEC Phase I Investigation at the site. Engineering-Science concluded that data gaps prevented an accurate scoring of the U.S. EPA Hazard Ranking System (HRS) and more information was needed on groundwater quality and the characteristics of waste in the landfill (Reference A-1).

3.2 Task A and 2 - Global Work Plan and Site-Specific Documents

3.2.1 Global Work Plan

Task A consisted of preparation of a global Work Plan, Quality Assurance Project Plan (QAPP) and Master Health and Safety Plan (HASP). The project documents discussed information relevant to work planned at all of the 19 sites. The work plan included:

- a description of the major tasks to be performed;
- a detailed work assignment pro schedule with milestones and deliverables;
- a staffing plan; and
- a detailed work assignment budget.

The global QAPP was prepared for the 19 PSA site investigations. The QAPP provided descriptions, methodologies and Quality Assurance/Quality Control (QA/QC) procedures for the field activities proposed at each of the sites. General sampling and analytical protocol were also discussed.

A Master HASP was prepared to provide the general health and safety procedures to be followed by all DUNN employees and subcontractors during site investigation activities. Activity-specific health and safety procedures were also included in the Master HASP.

3.2.2 Site-Specific Documents

A Site-Specific Work Plan, QAPP and HASP were developed to guide further investigations at each of the 19 PSA Sites. The Site-Specific Work Plan described the proposed site-specific activities, objectives, methodology and schedule of implementation for Tasks 3 through 6. The Site-Specific QAPP provided the analytical program for each site as well and other site-specific information. The Site-Specific HASP detailed site-specific information including known or suspected contaminants, health and safety levels of protection required, special monitoring equipment, emergency information and procedures and a route to hospital map. The Site-Specific Work Plan, QAPP and HASP were prepared as one document and submitted to the NYSDEC for review and approval

3.3 Task 3 - Non-Intrusive Investigations

Non-intrusive investigations were not performed as part of this PSA.

3.4 Task 4 - Subsurface Investigations

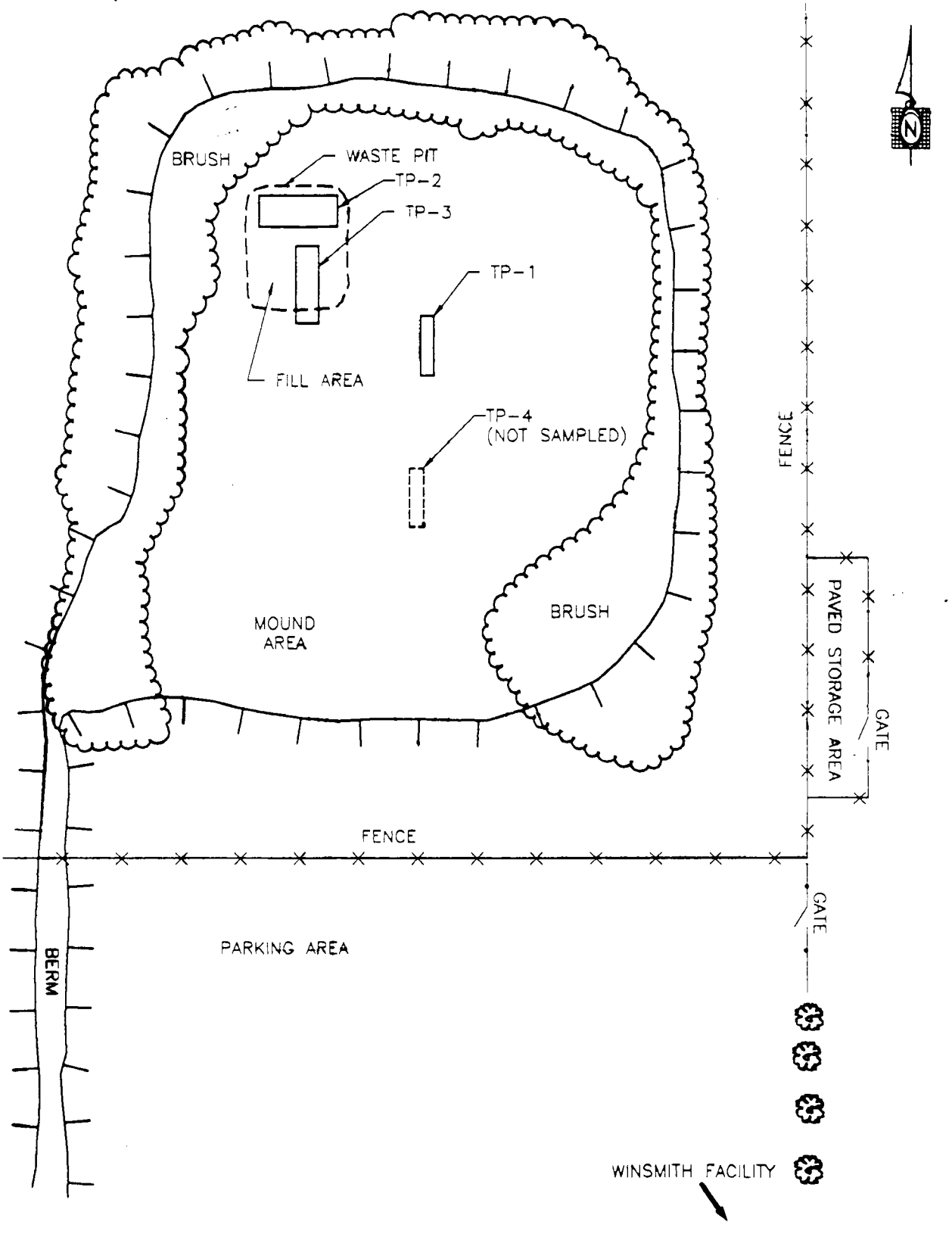
A test pitting program was initiated during the PSA. A series of test pits were excavated on the hill area to definitively locate the abandoned waste pit. A backhoe was mobilized to quickly locate the waste pit area and assist in obtaining representative soil and/or waste samples at depth.

3.4.1 Test Pitting/Waste Sampling

Four test pits were excavated on the hill in the northwest corner of the property where previous disposal activities had been documented. The work was performed on May 27, 1993 using a rubber-tired backhoe and operator supplied by Advanced Drilling Investigations (ADI) of Niagara Falls, New York. An environmental geologist from DUNN directed and supervised all excavation activities. Mark Mateunas of the NYSDEC also was present during excavation of the test pits. Test pit locations are shown in Figure 3.

The test pits were advanced into the waste pit or contaminated mound soils and terminated upon the absence of visually contaminated soils at depth, or upon reaching the depth limits of the backhoe. Excavated soils were visually classified by the on-site geologist using the NYSDOT Soil Description Procedure. In addition, excavated soils were screened with an photoionization meter which detects the total concentration of various VOCs. Subsurface logs, which include soil descriptions, field observations and HNU results for each test pit are presented in Appendix E.

A total of three test pit samples were obtained from the four test pits. One test pit sample was obtained from each test pit excavated within the fill/contaminated area. Test pit TP-4 was not sampled as there was no evidence of contamination and the location was determined to be outside the waste pit area. The three test pit samples were obtained at discrete intervals from selected test pits based on sensory observations and HNU screening results and subsequently submitted for chemical analysis. Each sample was analyzed for NYSDEC-ASP TCL/TAL CLP



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TEST PIT AND SAMPLE LOCATION MAP
NYS DEPARTMENT OF ENVIRONMENTAL CONSERVATION
WORK ASSIGNMENT NUMBER: D002520-3
Winsmith Division
UMC CORPORATION
VILLAGE OF SPRINGVILLE ERIE COUNTY, NY

PROJECT NO. 35116	DATE Jan., 1994	DWG. NO. 4A0078SD	SCALE Not To Scale	FIGURE NO. 3

parameters and cyanide, EP Toxicity, and Reactivity. The results of the chemical analyses are summarized in Section 4.2 and the complete validated results are presented in Appendix F. Field Sampling Records, which were prepared for each sample are presented in Appendix C.

4.0 RESULTS OF INVESTIGATION

4.1 Test Pitting

The excavation of test pits facilitated quick delineation of the fill area and provided the most economical method of obtaining representative waste/soil samples at depth. The location of the fill area was definitively located in the northwest corner of the hill which is located in the northwest corner of the property. The waste pit location is presented in Figure 2. The approximate dimensions of the waste pit as determined through excavation of the test pits are slightly less than documented in previous reports, measuring approximately 15 feet x 10 feet and a minimum of eight feet deep (the limit of the backhoe). The surface expression of the pit area prior to excavating was uneven and slightly depressed with obvious voids. Various metal debris and wood (stumps) were exposed, protruding through a thin soil cover. Soils encountered in the waste pit were gravelly sands with various amounts of silt and clay.

Test pits TP-2 and TP-3 which were excavated within the waste pit revealed the presence of similar material at depth including tree branches, stumps, lumber, rock fragments, various construction and demolition debris and one 55-gallon drum. The rusted drum had numerous holes, was partially filled with water and registered 200 ppm on the HNU organic vapor analyzer. Labels and/or writing were not observed on the drum.

Elevated readings reaching a maximum of 60 ppm were encountered in soils from both TP-2 and TP-3. A strong solvent odor was also associated with these soils. A saturated, well-graded, black silty fine sand was encountered in TP-3 at 5.0 feet with elevated readings and an associated solvent odor. The black fine sand is not considered to be native material and may represent a waste sludge from plant operations. Shallow groundwater was encountered in both TP-2 and TP-3 at a depth of approximately two feet below the surface. Upon encountering the water interface, the test pit quickly became filled with water which precluded accurate depth logging of the soils. Headspace readings of the water entering TP-3 measured 20 ppm. The water in the waste pit does not represent the natural water table but rather a perched groundwater zone confined within the waste pit. Precipitation infiltrates the pit which has numerous voids (due to the debris disposal) and is restricted from draining out of the pit due to the less permeable soils comprising the hill.

Test pit TP-1 was excavated first and fell outside the limits of the waste pit (Figure 3). The subsurface conditions at this location are more indicative of native soils. However, elevated readings and associated solvent odors were encountered in these soils from the surface to the termination of the test pit at 7.0 feet. The soils at this location were sandy gravels, sandy silts and gravelly silt and clays. Generally, the coarser sand and gravels were encountered near the surface and became less coarse with depth.

Test pit TP-4 was the initial test pit excavated within the waste pit, however, this test pit was terminated at 3.0 feet due to the absence of elevated HNu readings or waste materials. Detailed subsurface test pit logs were prepared for each test pit and are presented in Appendix E.

Although the subsurface conditions on the hill appear indicative of undisturbed native soils (with the exception of the waste pit), conversations with David Lang, the Quality Assurance Manager at the facility, indicated the origin of the hill is a result of a soil stockpile derived from stripping surficial soils during construction of the adjacent parking lot and plant expansion. Therefore, the hill does not represent a glacial kame as inferred in previous reports.

4.2 Analytical Results

The test pit analytical results are presented in Tables 1 through 3. The three samples were analyzed for full NYSDEC ASP TCL/TAL CLP parameters, cyanide, EP Toxicity and Reactivity. Shaded values indicate detected analytes at concentrations exceeding Recommended Soil Clean-up Objectives (RSCOs).

Table 1 summarizes the volatile and semi-volatile organic results. Toluene, ethylbenzene and total xylenes (TEX), three volatile organic compounds, were detected at concentrations exceeding RSCOs. Total xylenes exceeded RSCO concentrations in all three test pit samples. Total xylenes were also detected at the highest concentration relative to the other volatile organic compounds (VOCs) in WIN-TP1. Samples WIN-TP2 and WIN-TP3, best described as waste samples, also contained ethylbenzene and toluene at concentrations exceeding RSCOs. These two waste samples also exceeded the RSCO of >10 ppm for total VOC concentration in soils.

A total of fifteen semi-volatile organic compounds were detected in the test pit samples. However, only the two polycyclic aromatic hydrocarbon (PAH) compounds, benzo-(a)-anthracene and chrysene, were detected at concentrations exceeding the RSCOs. The greatest number of semi-volatiles and highest respective concentrations were detected in waste sample WIN-TP3. This sample was also the most representative of the waste as evidenced by its black, "sludge-like" character.

Analytical results presented in Table 2 indicate the presence of low levels of PCB compounds in WIN-TP1 and WIN-TP2 and both pesticides and PCBs in WIN-TP3. Test pit sample WIN-TP3 had the most analytes detected and the highest concentrations relative to the other two samples. Aroclor 1260 was detected in this sample in excess of the RSCO. However, PCBs were not detected above the hazardous waste threshold of 50 ppm.

Table 3 presents the inorganic analytical results. WIN-TP1 was obtained outside the waste pit and did not contain any constituent in excess of the upper range of representative concentrations in uncontaminated soils. WIN-TP2 had only one analyte (chromium) exceeding this range. WIN-TP3 had seven analytes exceeding the maximum range for uncontaminated soils including arsenic, chromium, copper, lead, mercury, nickel and silver. Cyanide was also identified in this sample.

E.P. Toxicity results for all three samples did not indicate the presence of any constituent analyzed. In addition, reactivity tests on each of the samples were negative. Therefore, the materials found cannot be classified as hazardous waste based on these two criteria. A complete summary table of the validated analytical data is presented in Appendix F and field sampling records are presented in Appendix G.

Table 1
Winsmith Site
Summary Table of Volatile & Semi-Volatile Organic Parameters
Test Pit Samples
CLP Analytical Results - Validated
(Concentration Values in ug/kg - ppb)

Analytes	Sample Location and Depth			
	WIN-TP1 4.0'	WIN-TP2 7.0'	WIN-TP3 5.0'	RSCO*
Volatile Organic Parameters				
Carbon Disulfide	ND	ND	410J	2700
Toluene	ND	3800DJ	2000DJ	1500
Ethylbenzene	2200	53000DJ	38000DJ	5500
Total Xylenes	7200	240000D	180000D	1200
Total VOC's	10800	296900	220410	< 10000
Total VOC TIC's	2130	135200	343010	--
Semi-Volatile Organics				
Naphthalene	160DJ	760	3700	13000
2-Methylnaphthalene	ND	81DJ	1300	36400
Diethylphthalate	830	1100	2300	7100
N-Nitrosodophenylamine	ND	ND	770	--
Phenanthrene	ND	150DJ	2100	50000
Anthracene	ND	ND	210J	50000
Carbazole	ND	ND	110J	--
Di-n-butylphthalate	ND	ND	360J	8100
Fluoranthene	ND	ND	300J	50000
Pyrene	ND	ND	210J	50000
Butylbenzylphthalate	54J	ND	ND	50000
Benzo(a)anthracene	ND	ND	600	220 or MDL
Chrysene	ND	ND	1300	400
bis(2-Ethylhexyl)phthalate	86DJ	ND	2700	50000
Di-n-octylphthalate	ND	ND	110J	50000
Total Semi-VOC's	1130	2091	16070	< 500000
Total Semi-VOC TIC's	13210J	41180J	30610J	--

* - Recommended Soil Clean-up Objectives (NYSDEC TAGM Nov. 16, 1992)
J - Indicates estimated value.
V - Indicates validated estimated value.
D - Indicates result taken from diluted sample analysis
B - Indicates analyte detected in blank as well as sample
ND - Not Detected
Note : Shaded areas indicate concentration exceeds RSCO.

Table 2

Winsmith Site
Summary Table of Pesticide/PCB Parameters
Test Pit Samples
CLP Analytical Results - Validated
(Concentration Values in ug/kg - ppb)

Analytes	Sample Location and Depth			RSCO*
	WIN-TP1 4.0'	WIN-TP2 7.0'	WIN-TP3 5.0'	
Pesticides/PCB's				
Aroclor-1016	ND	12JP	230J	10000
Aroclor-1260	27J	200P	21000	10000
beta-BHC	ND	ND	20PC	200

* - Recommended Soil Clean-up Objectives (NYSDEC TAGM Nov. 16, 1992)
J - Indicates estimated value.
V - Indicates validated estimated value.
P - Indicates greater than 25% difference between GC columns.
Note : Shaded areas indicate concentration exceeds RSCO.

Table 3

Winsmith Site
Summary Table of Inorganic Parameters
Test Pit Samples
CLP Analytical Results - Validated
(Concentration Values in mg/kg - ppm)

Analytes	Sample Location and Depth			Average Concentration in Uncont. Soils**	Concentration Range in Uncont. Soils**
	WIN-TP1 4.0'	WIN-TP2 7.0'	WIN-TP3 5.0'		
TAL Metals					
Aluminum	10700	10300	6260	33000	10000-300000
Antimony	ND	ND	ND	0.8	0.2-150
Arsenic	6.6	9.1	18.1	5.0	3.0-12
Barium	50.2	63.6	111	290	15-600
Beryllium	.63B	.61B	.56B	0.6	0-1.75
Cadmium	ND	ND	ND	0.6	0-7.0
Calcium	2210	13300	14300	3400	130-35000
Chromium	12.9	72.7	398	33	1.5-40
Cobalt	10.6	15.4	39.3	5.9	2.5-60
Copper	35	83.8	381	20	2.0-100
Iron	22900	46700	284000	14000	2000-550000
Lead	13	50.5	126	14	4.0-61
Magnesium	3540	6200	3570	6300	400-9000
Manganese	703	1090	3810	850	100-4000
Mercury	ND	ND	0.37	0.06	0.001-0.2
Nickel	21.9	57.9	584	40	0.5-60
Potassium	928B	1690	1320B	12000	100-37000
Selenium	ND	ND	ND	0.2	0.01-12
Silver	2.5	4.8	14.2	--	0.01-8.0
Sodium	231B	408B	ND	6300	150-15000
Thallium	ND	ND	ND	--	--
Vanadium	18.8	19.5	15.3B	100	1.3-300
Zinc	144	141	145	50	10-300
Total Cyanide	ND	ND	1.3	--	--

B - Reported value less than CRDL but greater than IDL.
V - Validated estimated value.
S - Reported value was determined by method of standard additions.
ND - Not Detected
Note : Shaded areas indicates value exceeds concentration range.
** - From various sources for Northeastern U.S.

5.0 CONCLUSIONS

Based on a review of historical records and data and the results of the field investigation for this PSA, the following conclusions can be made:

- Subsurface sampling on the hill in the northwest corner of the Winsmith Site confirmed the existence of a waste pit and delineated its limits. The approximate dimensions of the waste pit were determined to be 15 feet x 10 feet and a minimum of eight feet deep.

- Test pits excavated within the waste pit (WIN-TP2 and WIN-TP3) revealed the presence of tree branches, stumps, various construction and demolition debris and one 55-gallon drum. A perched groundwater zone was encountered within the waste pit at a depth of approximately two feet. The soils encountered in the waste pit ranged from gravelly silt and clays to a black, fine, sandy "sludge" which appears to characterize the waste materials placed in the pit.

- Test pit samples WIN-TP2 and WIN-TP3 were both located within the waste pit. However, based on the physical characteristics of the samples and the associated analytical results, WIN-TP3 is the most representative sample of the waste sludge within the pit.

- Analytical results of the samples indicate the presence of volatile organic compounds, semi-volatile organic compounds and PCBs above the Recommended Soil Clean-up Objectives (RSCOs). However, the compounds identified and the concentrations detected do not indicate the presence of hazardous waste as defined by 6 NYCRR Part 371.

6.0 RECOMMENDATION

Based on the conclusions presented herein, DUNN recommends that the Winsmith Division, UMC Corporation site (NYS Site Number 915058) be delisted from the Registry of Inactive Hazardous Waste Disposal Sites in New York State. This recommendation may be subject to modification if new information becomes available.

However, while it appears that hazardous waste as defined by New York State law has not been identified at the site, the waste that was found contained elevated levels of several organic compounds which are a concern in that they could potentially impact a primary drinking water aquifer that services the Village of Springville. Therefore, it is recommended that the Division of Water or the Division of Solid Waste address the wastes disposed at the site.

Appendix A

List of References

LIST OF REFERENCES

A-1 Phase I Investigation, Winsmith Division-UMC Corp., Site No. 915058 Village of Springville, Erie County, Engineering Science, January, 1989.

A-2 Buchler, Edward J., and Irving H. Tesmer, *Geology of Erie County,* Buffalo Society of Natural Sciences, Vol. 21, No. 3, 1963.

A-3 LaSala, A.M., Jr., *Groundwater Resources of the Erie-Niagara Basin, New York,* New York State Department of Conservation, Water Resources Commission, Albany, New York, 1968.

A-4 Donnely Marketing Information Services, September 6, 1990.

A-5 U.S. Department of Agriculture, Soil Conservation Survey, in Cooperation with Cornell University, *Soil Survey of Erie County, 1986.*

A-6 Federal Emergency Management Agency, (FEMA) Flood Insurance Rate Map, Village of Springville, New York, Erie County, Community Panel Number 360258 0001C, July 17, 1986.

A-7 NYS Dept. of Health, NYS Atlas of Community Water System Sources, 1982.

A-8 Rickard and Fisher, Geologic Map of New York, Niagara Sheet, 1970.

A-9 Site Inspection Report and Hazard Ranking System Model, UMC aka Peerless Winsmith, NUS Corporation, October 17, 1986.

A-10 Broughton, J.G., Fisher, D.W., Isachsen, Y.W., Rickard, L.V., Geology of New York State - A Short Account, Educational Leaflet 20. The University of the State of New York/The State Education Department, NYS Museum and Science Service, Albany, New York, 1976.

A-11 Cadwell, D.H., Surficial Geologic Map of New York - Niagara Sheet, 1988.

Appendix B

List of Documents Cited

LIST OF DOCUMENTS CITED

B-1 *Interagency Task Force on Hazardous Wastes,* Draft Report, March, 1979.

B-2 Process Waste and Landfill Investigations, Calspan Advanced Technology Center December 4, 1978.

B-3 Telephone interview of Mike McMurray, NYSDEC Region 9, by Engineering Science, January 3, 1980.

B-4 Telephone interview of Greg G. Ecker, NYSDEC Region 9, by Leslie Gracz, DUNN, March 6, 1991.

B-5 UMC Corporation, Winsmith Division, DEC #915058, Erie County Department of Environment and Planning, October, 1983.

Appendix C

Color Photographs

Test Pit excavation in disposal area reveals buried drum. Technician monitors VOC emissions.

View south from disposal area toward Winsmith Division main plant.

Covering test pit completed at disposal area.

View toward north of disposal area.

Appendix D

U.S. EPA Form 2070-13

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
NY	D002123552

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER				
Winsmith Division -UMC Corp	172 Eaton Street				
03 CITY	04 STATE	05 ZIP CODE	06 COUNTY	07 COUNTY CODE	08 CONG DIST
Springville	NY	14141	Erie	029	

09 COORDINATES		10 TYPE OF OWNERSHIP (Check one)				
LATITUDE	LONGITUDE	X A. PRIVATE	__B. FEDERAL__	__C. STATE	__D. COUNTY	__E. MUNICIPAL
42 30 33.6"N	78 40'21.6"W	__ F. OTHER_____			__G. UNKNOWN	

III. INSPECTION INFORMATION

01 DATE OF INSPECTION	02 SITE STATUS	03 YEARS OF OPERATION		
07 / 25 / 90	__ACTIVE	____1930____	___1988___	__UNKNOWN
MONTH DAY YEAR	X INACTIVE	BEGINNING YEAR	ENDING YEAR	

04 AGENCY PERFORMING INSPECTION (Check all that apply)

__ A. EPA
__ B. EPA CONTRACTOR (Name of firm)_____
__C. MUNICIPAL
__D. MUNICIPAL CONTRACTOR (Name of firm)_____
__ E. STATE
X_F. STATE CONTRACTOR Dunn Geoscience/TAMS Consultants
__G. OTHER_____ (Specify)

05 CHIEF INSPECTOR	06 TITLE	07 ORGANIZATION	08 TELEPHONE NO.
George Moretti	Environmental Scientist	Dunn Geoscience Engineering Co.	(716)691-3866
09 OTHER INSPECTORS	10 TITLE	11 ORGANIZATION	12 TELEPHONE NO.
Martin Derby	Hydrogeologist	TAMS Consultants, Inc.	(716)831-8084
			( )
			( )
			( )
			( )

13 SITE REPRESENTATIVES INTERVIEWED	14 TITLE	15 ADDRESS	16 TELEPHONE NO.
Dave Lang	QA Manager	Springville, NY 14141	(716)592-9311
George Mangiarelli	Manufacturing Mgr	172 Eaton Street Springville, NY 14141	(716)592-9311
			( )
			( )
			( )
			( )
			( )

17 ACCESS GAINED BY (Check one)	18 TIME OF INSPECTION	19 WEATHER CONDITIONS
X PERMISSION __ WARRANT	1500	Sunny, warm, 85 degrees Farenheit

IV. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)	03 TELEPHONE NO.
Mark Mateunas	NYSDEC	(518)457-0639

04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NO.	08 DATE
Ted Yen		TAMS Consultants	(201)338-6680	08 / 27 / 90 MO. DAY YR.

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	D002123552

II. WASTE STATE, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

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

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

TONS _____

CUBIC FEET ___3,000____

NO. OF DRUMS _____

03 WASTE CHARACTERISTICS (Check all that apply)

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

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE	3,000	cubic feet	Heat treated wastes
OLW	OILY WASTE			
SOL	SOLVENTS			
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS	Unknown		
IOC	INORGANIC CHEMICALS			
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS	Unknown		

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 CONC.
SLU	Cyanide	Unknown	Open dump	<0.02	ppm
SLU	Chlorinated Hydrocarbons	Unknown	Open dump	<1.0	ppb
SLU	Oil and Grease	Unknown	Open dump	13-1500	ppm

V. FEEDSTOCKS (See Appendix for CAS Numbers)

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS	Not Applicable		FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

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

Calspan Advanced Technology Center, 12/4/78

USEPA Site Inspection report prepared by USEPA-NUS Corp. FIT 2 - 10/17/86

EPA FORM 2070-13 (7-81)

EPA	POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS	I. IDENTIFICATION 01 STATE: NY 02 SITE NUMBER: D002123552

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 X_ A. GROUNDWATER CONTAMINATION — 02 __ OBSERVED (DATE: _____) — X_ POTENTIAL — __ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: __7000__ — 04 NARRATIVE DESCRIPTION
The potential for groundwater contamination exists. In 1978, samples were analyzed by Calspan Advanced Technology Center. Elevated cyanide levels were found in the process wastewater and elevated levels of chlorinated hydrocarbons were found in the waste oil.

01 X_ B. SURFACE WATER CONTAMINATION — 02 __ OBSERVED (DATE: _____) — X_ POTENTIAL — __ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: __7000__ — 04 NARRATIVE DESCRIPTION
Surface water were collected and was analyzed by Calspan Technology for cyanide, chlorinated hydrocarbons, oils, and grease. The concentrations of each did not exceed New York State Class D surface water or drinking water standards.

01 X_ C. CONTAMINATION OF AIR — 02 __ OBSERVED (DATE: _____) — X_ POTENTIAL — __ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: __7000__ — 04 NARRATIVE DESCRIPTION
HNu-PID readings during the site visit did not indicate any readings above background levels. However, a previous site inspection conducted by USEPA-NUS Corp. FIT 2 found elevated OVA readings in a 1-foot auger hole on the landfill. The potential exists for air contamination.

01 __ D. FIRE/EXPLOSIVE CONDITIONS — 02 __ OBSERVED (DATE: _____) — __ POTENTIAL — __ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: __5000__ — 04 NARRATIVE DESCRIPTION
No potential exists for fire/explosive conditions.

01 X_ E. DIRECT CONTACT — 02 __ OBSERVED (DATE: _____) — X_ POTENTIAL — __ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: __4600__ — 04 NARRATIVE DESCRIPTION
Direct contact is possible because the site is used as dirtbike trail.

01 X_ F. CONTAMINATION OF SOIL — 02 __ OBSERVED (DATE: _____) — X_ POTENTIAL — __ ALLEGED
03 AREA POTENTIALLY AFFECTED: __16.1__(acres) — 04 NARRATIVE DESCRIPTION
Elevated cyanide levels were found in the process wastewater and elevated levels of chlorinated hydrocarbons were found in the waste oil. However, the soil samples did not indicate any form of contamination.

01 X_ G. DRINKING WATER CONTAMINATION — 02 __ OBSERVED (DATE: _____) — X_ POTENTIAL — __ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: __7000__ — 04 NARRATIVE DESCRIPTION
The potential for drinking water contamination exists as groundwater is used for drinking purposes. In 1978, samples were analyzed by Calspan Advanced Technology Center. Elevated cyanide levels were found in the process wastewater and elevated levels of chlorinated hydrocarbons were found in the waste oil.

01 __ H. WORKER EXPOSURE/INJURY — 02 __ OBSERVED (DATE: _____) — __ POTENTIAL — __ ALLEGED
03 WORKERS POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION
No potential for worker exposure exists since the landfill is not active and workers do not enter the landfill.

01 X_ I. POPULATION EXPOSURE/INJURY — 02 __ OBSERVED (DATE: _____) — X_ POTENTIAL — __ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: __7000__ — 04 NARRATIVE DESCRIPTION
The potential for population exposure exists because area residents use the site as a dirtbike trail, and groundwater is Springville's only source of drinking water.

EPA

POTENTIAL HAZARDOUS WASTE SITE

SITE INSPECTION REPORT

PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
NY	D002123552

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 X J. DAMAGE TO FLORA — 02 __ OBSERVED (DATE: _____) — X POTENTIAL — __ ALLEGED

The potential exists because the area is considered a significant habitat by NYSDEC.

01 X K. DAMAGE TO FAUNA — 02 __ OBSERVED (DATE: _____) — X POTENTIAL — __ ALLEGED

04 NARRATIVE DESCRIPTION (Include name(s) of species)

The potential exists because the area is considered a significant habitat by NYSDEC.

01 X L. CONTAMINATION OF FOOD CHAIN — 02 __ OBSERVED (DATE: _____) — X POTENTIAL — __ ALLEGED

04 NARRATIVE DESCRIPTION

The potential for food chain contamination exists if herbivores and predators consume flora ant fauna.

01 X M. UNSTABLE CONTAINMENT OF WASTES (Spills/Runoff/Standing liquids, Leaking drums) — 02 X OBSERVED (DATE: 1985___) — X POTENTIAL — __ ALLEGED

03 POPULATION POTENTIALLY AFFECTED: 4800 — 04 NARRATIVE DESCRIPTION

The landfill was inadequately graded according to a preliminary report filed by the NYSDEC. Inadequate grading led to ponding of water at the landfill.

01 X N. DAMAGE TO OFFSITE PROPERTY — 02 __ OBSERVED (DATE: _____) — X POTENTIAL — __ ALLEGED

04 NARRATIVE DESCRIPTION

There is a potential for damage to the off-site municipal well located approximately 0.12 mile from the site.

01 X O. CONTAMINATION OF SEWERS, STORM DRAINS, OR WWTPs — 02 __ OBSERVED (DATE: _____) — X POTENTIAL — __ ALLEGED

04 NARRATIVE DESCRIPTION

The potential exists since the parking area around the landfill drains to the Village of Springville storm sewer.

01 X P. ILLEGAL/UNAUTHORIZED DUMPING — 02 __ OBSERVED (DATE: _____) — X POTENTIAL — __ ALLEGED

04 NARRATIVE DESCRIPTION

The potential for illegal dumping exists since the site is not fenced to prevent access.

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

None known

III. TOTAL POPULATION POTENTIALLY AFFECTED: 7,000

IV. COMMENTS

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

USEPA Site Inspection report prepared by USEPA-NUS Corp. FIT 2 - 10/17/86

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
X A. NPDES	Unknown	Unknown	Unknown	
_B. UIC				
_C. AIR				
X D. RCRA	NYD002123552	Unknown	Unknown	
_E. RCRA INTERIM STATUS				
_F. SPCC PLAN				
X G. STATE(Specify) SPDES	Unknown	Unknown	Unknown	
_H. LOCAL(Specify)				
_I. OTHER(Specify)				
_J. NONE				

III. SITE DESCRIPTION

01 STORAGE/DISPOSAL (Check all that apply)	02 AMOUNT	03 UNIT OF MEASURE	04 TREATMENT (Check all that apply)	05 OTHER
_ A. SURFACE IMPOUNDMENT			_A. INCINERATION	X A. BUILDINGS ON SITE
_ B. PILES			_B. UNDERGROUND INJECTION	
_ C. DRUMS,ABOVE GROUND			_C. CHEMICAL/PHYSICAL	
_ D. TANK,ABOVE GROUND			_D. BIOLOGICAL	06 AREA OF SITE
_ E. TANK,BELOW GROUND			_E. WASTE OIL PROCESSING	
X F. LANDFILL	3,000	cubic feet	_F. SOLVENT RECOVERY	16.1 (Acres)
_ G. LANDFARM			_G. OTHER RECYCLING/RECOVERY	
_ H. OPEN DUMP			_H. OTHER	
_ OTHER (Specify)			(Specify)	

07 COMMENTS

Cyanide sludges, acids, and metal scraps were disposed on the site between 1930 and 1968.
This waste is a result of Winsmith's kolene process and heat treating facility.
The waste oil and wastewater indicated elevated levels of cyanide and chlorinated hydrocarbons.
Soil and groundwater samples have been taken but do not indicate elevated levels of
cyanide or chlorinated hydrocarbons.

IV. CONTAINMENT

01 CONTAINMENT OF WASTES(Check one)

_A. ADEQUATE,SECURE _B. MODERATE X C. INADEQUATE,POOR _D. INSECURE,UNSOUND,DANGEROUS

02 DESCRIPTION OF DRUMS, DIKING, LINER, BARRIERS, ETC.

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

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE: X YES _ NO

02 COMMENTS

The site has partial fencing; however, it is accessible and is used by area residents
for dirt biking. Waste is covered with an undetermined amount of soil.

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

Dunn Geoscience Engineering Co./TAMS Consultants, Inc. site reconnaissance - 7/25/90
USEPA-NUS Corp. FIT 2 site inspection - 6/10/86
Interviews with Dave Lang and George Mangiarelli during the site inspection.

EPA

POTENTIAL HAZARDOUS WASTE SITE

SITE INSPECTION REPORT

PART 5-WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NY	D002123552

II. DRINKING WATER SUPPLY

01 TYPE OF DRINKING SUPPLY (Check as applicable)			02 STATUS			03 DISTANCE TO SITE
	SURFACE	WELL	ENDANGERED	AFFECTED	MONITORED	
COMMUNITY	A.____	B. X__	A.____	B.____	C.____	A._1/8_(mi)
NON-COMMUNITY	C.____	D. X__	D.____	E.____	F.____	B._1.5_(mi)

III. GROUNDWATER

01 GROUNDWATER USE IN VICINITY (Check one)

_X_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 POPULATON SERVED BY GROUNDWATER _2500____ 03 DISTANCE TO NEAREST DRINKING WATER WELL __0.5___(mi)

04 DEPTH TO GROUNDWATER	05 DIRECTION OF GROUNDWATER FLOW	06 DEPTH TO AQUIFER OF CONCERN	07 POTENTIAL YIELD OF AQUIFER	08 SOLE SOURCE AQUIFER
__16-37__(ft)	____South____	___85____(ft)	50,000,000(gpd)	__YES X NO

09 DESCRIPTION OF WELLS (Including useage, depth, and location relative to population and buildings)
Municipal wells are screened in a sand and gravel aquifer at a depth of 150 feet.
Other private wells vary in depth from 20 feet to 200 feet in the sand and gravel aquifer.

10 RECHARGE AREA		11 DISCHARGE AREA	
_X_ YES	COMMENTS: Into the sand	__ YES	COMMENTS
__ NO	and gravel above the Gowanda Shale	__ NO	Unknown

IV. SURFACE WATER

01 SURFACE WATER USE (Check one)

_X_A. RESERVOIR, RECREATION DRINKING WATER SOURCE

__B. IRRIGATION, ECONOMICALLY IMPORTANT RESOURCES

_X_C. COMMERCIAL,INDUSTRIAL

__D. NOT CURRENTLY USED

02 AFFECTED/POTENTIALLY AFFECTED BODIES OF WATER

NAME:	AFFECTED: (Y/N)	DISTANCE TO SITE
Buffalo Brook/Spring Brook	__N_____	___0.2___(mi)
_____	_____	_____(mi)
_____	_____	_____(mi)

V. DEMOGRAPHIC AND PROPERTY INFORMATION

01 TOTAL POPULATION WITHIN			02 DISTANCE TO NEAREST POPULATION
ONE (1) MILE OF SITE	TWO (2) MILES OF SITE	THREE (3) MILES OF SITE	
A.__4600__	B.__5000__	C. __7000__	__0.01___(mi)
NO. OF PERSONS	NO. OF PERSONS	NO. OF PERSONS	

03 NUMBER OF BUILDING WITHIN TWO(2)MILES OF SITE	04 DISTANCE TO NEAREST OFF-SITE BUILDING
_____	____0.01_____(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)
The site is surrounded by a rural community with a small commercial and industrial center at Springville.

EPA

POTENTIAL HAZARDOUS WASTE SITE

SITE INSPECTION REPORT

PART 5-WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE: NY

02 SITE NUMBER: D002123552

VI. ENVIRONMENTAL INFORMATION

01 PERMEABILITY OF UNSATURATED ZONE (Check one)

__A. 10-6 to 10-8 cm/sec __B. 10-4 to 10-6 cm/sec _X_C. 10-4 to 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) _X_B. RELATIVELY IMPERMEABLE (10-4 to 10-6 cm/sec) __C. RELATIVELY PERMEABLE (10-2 to 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	
400 (ft)	7-10 (ft)	Unknown	

06 NET PRECIPITATION	07 ONE YEAR 24 HOUR RAINFALL	08 SLOPE SITE SLOPE	DIRECTION OF SITE SLOPE	TERRAIN AVERAGE SLOPE
5.0 (in)	2.1 (in)	13 %	South	0-3 %

09 FLOOD POTENTIAL

SITE IS IN 500 YEAR FLOODPLAIN

10

N/A SITE IS ON BARRIER ISLAND, COASTAL HIGH HAZARD AREA, RIVERINE FLOODWAY

11 DISTANCE TO WETLANDS (5 acre minimum)

ESTUARINE: A. >3 (mi)

OTHER: B. 0.6 (mi)

12 DISTANCE TO CRITICAL HABITAT (of endangered species)

>3 (mi)

ENDANGERED SPECIES: Not Applicable

13 LAND USE IN VICINITY

DISTANCE TO:

COMMERCIAL/INDUSTRIAL	RESIDENTIAL AREAS; NATIONAL/STATE PARKS, FOREST, OR WILDLIFE RESERVES	AGRICULTURAL LANDS PRIME AG LAND	AG LAND
A. On-site (mi)	B. 0.05 (mi)	C. >3 (mi)	D. 0.02 (mi)

14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY

The disposal area is on a small hill in the northwest section of the Winsmith property. The surrounding area is relatively flat, slightly sloping to the northeast of the site. The site is bordered by farm lands to the north, B&O railroad to the east, 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)

NYSDEC Phase I report and Region 9 files on the Winsmith site.
Interview with Dave Denk of NYSDEC Regulations, 7/18/90.
Interview with Mark Kandel of NYSDEC Fish and Wildlife, 7/20/90.
Heritage Maps, Coastal Fish and Wildlife Maps, and DEC Wetlands Maps supplied by the NYSDEC Region 9 Office.
ES site inspection report on the UMC site - 1985.
NYS Atlas of Community Water System Sources, 1982.
USEPA-NUS Corp. FIT 2 site inspection report - 10/17/86
US Dept. of the Interior, Geological Survey Map, 7.5 minute series, "Springville, NY", photorevised 1980

EPA FORM 2070-13(7-81)

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		
SURFACE WATER	None		
WASTE	None		
AIR	None		
RUNOFF	None		
SPILL	None		
SOIL	None		
VEGETATION	None		
OTHER	None		

III. FIELD MEASUREMENTS TAKEN

01 TYPE	02 COMMENTS
Air Monitoring	HNu-PID readings not above background.
Radiation Monitoring	Monitor 4 mini-rad readings not above background.

IV. PHOTOGRAPHS AND MAPS

01 TYPE __X_GROUND __X_AERIAL	02 IN CUSTODY OF: Dunn Geoscience Engineering Co./ SUNY Buffalo at Amherst Undergraduate Library (Name of organization or individual)
03 MAPS X YES __NO	04 LOCATION OF MAPS Dunn Geoscience Engineering Co./TAMS Consultants, Inc.

V. OTHER FIELD DATA COLLECTED (provide narrative description)

Field notes in custody of Dunn Geoscience Engineering Co.

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

1966 aerial photographs from SUNY Buffalo
US Dept. of the Interior, Geological Survey Topographic Maps, 7.5 minute series - "Springville, NY" - photorevised 1980.
Site reconnaissance conducted by Dunn Geoscience Engineering Co./TAMS Consultants, Inc. on 7/25/90
Site inspection conducted by USEPA-NUS Corp. FIT 2 - 6/10/86

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
HK Porter Co. Inc.			HK Porter Co., Inc.		
03 STREET ADDRESS (P.O.Box, RFD#, etc.)		**04 SIC CODE**	**10 STREET ADDRESS (P.O.Box, RFD#, etc.)**		**11 SIC CODE**
Porter Building			757 Third Avenue		
05 CITY	**06 STATE**	**07 ZIP CODE**	**12 CITY**	**13 STATE**	**14 ZIP CODE**
Pittsburgh	PA	14150	NYC	NY	10017
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					
03 STREET ADDRESS (P.O.Box, RFD#, etc.)		**04 SIC CODE**	**03 STREET ADDRESS (P.O.Box, RFD#, etc.)**		**04 SIC CODE**
172 Eaton Street		2819			
05 CITY	**06 STATE**	**07 ZIP CODE**	**05 CITY**	**06 STATE**	**07 ZIP CODE**
Springville	NY	14141			
01 NAME		**02 D+B NUMBER**	**01 NAME**		**02 D+B NUMBER**
Winsmith-UMC Division, Inc.					
03 STREET ADDRESS (P.O.Box, RFD#, etc.)		**04 SIC CODE**	**03 STREET ADDRESS (P.O.Box, RFD#, etc.)**		**04 SIC CODE**
same as above					
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.					
03 STREET ADDRESS (P.O.Box, RFD#, etc.)		**04 SIC CODE**	**03 STREET ADDRESS (P.O.Box, RFD#, etc.)**		**04 SIC CODE**
same as above					
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)

Site inspection report prepared by USEPA-NUS Corp. FIT 2 - 10/17/86

EPA

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

I.IDENTIFICATION	
01 STATE	02 SITE NUMBER
NY	D002123552

II. CURRENT OPERATOR(Provide if different from owner) | **OPERATOR'S PARENT COMPANY(If applicable)**

01 NAME	02 D+B NUMBER	08 NAME	09 D+B NUMBER
Winsmith Division- UMC Corp.			
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	2819		

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

08 YEARS OF OPERATION	09 NAME OF OWNER
45+ years	HK Porter Co., Inc.

III. PREVIOUS OPERATOR(S)(List most recent first; provide only if different from owner) | **PREVIOUS OPERATORS' PARENT COMPANIES (If applicable)**

01 NAME	02 D+B NUMBER	08 NAME	09 D+B NUMBER
Unidynamics-Winsmith			
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

08 YEARS OF OPERATION	09 NAME OF OWNER
1984	Leo Burten - President

01 NAME	02 D+B NUMBER	08 NAME	09 D+B NUMBER
Winsmith-UMC Division, Inc.			
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

08 YEARS OF OPERATION	09 NAME OF OWNER
1963-1984	Willard MacFarland

01 NAME	02 D+B NUMBER	08 NAME	09 D+B NUMBER
Winsmith, Inc.			
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

08 YEARS OF OPERATION	09 NAME OF OWNER
1946-1963	Murray and McLeod

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

NYSDEC Region 9, Division of Hazardous Waste Remediation, Inactive Hazardous Waste Disposal Report
Interview with Dave Lang and George Mangiarelli during the site inspection.

EPA

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

I.IDENTIFICATION	
01 STATE	02 SITE NUMBER
NY	D002123552

II. ON-SITE GENERATOR

01 NAME		02 D+B NUMBER
Winsmith Division- UMC Corp.		
03 STREET ADDRESS(P.O.Box,RFD#,etc.)		04 SIC CODE
172 Eaton Street		2819
05 CITY	06 STATE	07 ZIP CODE
Springville	NY	14141

III. OFF-SITE GENERATOR(S)

01 NAME		02 D+B NUMBER	08 NAME		09 D+B NUMBER
None					
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

IV. TRANSPORTER(S)

01 NAME		02 D+B NUMBER	08 NAME		09 D+B NUMBER
None					
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	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)

NYSDEC Division of Hazardous Waste Remediation, Inactive Hazardous Waste Disposal Report.
Interview with Dave Lang during site inspection.

EPA	POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 10 - PAST RESPONSE ACTIVITIES	I. IDENTIFICATION 01 STATE NY	 02 SITE NUMBER D002123552

II. PAST RESPONSE ACTIVITIES

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

II. PAST RESPONSE ACTIVITIES(Continued)

01 _ R. BARRIER WALLS CONSTRUCTED | 02 DATE: _____ | 03 AGENCY_____
04 DESCRIPTION
No previous history

01 _ S. CAPPING/COVERING | 02 DATE: _____ | 03 AGENCY_____
04 DESCRIPTION
No previous history

01 _ T. BULK TANKAGE REPAIRED | 02 DATE: _____ | 03 AGENCY_____
04 DESCRIPTION
No previous history

01 _ U. GROUT CURTAIN CONSTRUCTED | 02 DATE: _____ | 03 AGENCY_____
04 DESCRIPTION
No previous history

01 _ V. BOTTOM SEALED | 02 DATE: _____ | 03 AGENCY_____
04 DESCRIPTION
No previous history

01 _ W. GAS CONTROL | 02 DATE: _____ | 03 AGENCY_____
04 DESCRIPTION
No previous history

01 _ X. FIRE CONTROL | 02 DATE: _____ | 03 AGENCY_____
04 DESCRIPTION
No previous history

01 _ Y. LEACHATE TREATMENT | 02 DATE: _____ | 03 AGENCY_____
04 DESCRIPTION
No previous history

01 _ Z. AREA EVACUATED | 02 DATE: _____ | 03 AGENCY_____
04 DESCRIPTION
No previous history

01 _ 1. ACCESS TO SITE RESTRICTED | 02 DATE: _____ | 03 AGENCY_____
04 DESCRIPTION
No previous history

01 _ 2. POPULATION RELOCATED | 02 DATE: _____ | 03 AGENCY_____
04 DESCRIPTION
No previous history

01 _ 3. OTHER REMEDIAL ACTIVITIES | 02 DATE: _____ | 03 AGENCY_____
04 DESCRIPTION
None

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

Dunn Geoscience Engineering Co./TAMS Consultants, Inc. site reconnaissance - 7/25/90.
NYSDEC Region 9, Hazardous Waste Division reports and files on the Winsmith site.

EPA	POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 11-ENFORCEMENT INFORMATION	I. IDENTIFICATION 01 STATE NY	 02 SITE NUMBER D002123552

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION __YES X NO

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

No previous history

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

USEPA-NUS Corp. FIT 2 site inspection report - 6/10/86

Appendix E

Test Pit Logs

DUNN GEOSCIENCE CORPORATION
495 Commerce Drive Amherst, New York 14150

TEST PIT / TRENCH LOG

Test Pit No.: 1
Sheet 1 of 1

Job No: 00296-02492
Date Started: 5/27/93
Date Finished: 5/27/93
Total Depth: 7.0'
Ground Elev.: —
S.W.L.: —
Container Size: 125 ml. VOA & 8 oz Amber

Project: Winsmith PSA
Client: NYSDEC
Purpose: Waste Sampling
Site Location: Winsmith Corp., Springville, NY
Sampling Point Location: WIN-TP1; Landfill mound

Excavation Contractor: Advanced Drilling Investigations
Operator Name:
Inspector: Paul Steck
General Description: Ford 550 Rubber-Tire Backhoe
Sample Equipment Used: Stainless Steel spoon | No. of Samples 1

Graphic Log	Depth Scale	Material Description (Include in order: MATERIAL TYPE, color, grain size, texture, bedding, moisture & minerals)	Remarks	Sample Number	Analysis Request
		Brown gravelly SAND - solvent odor, HNU = 10-15 ppm 2.0'	HNU = 70 ppm at surface Staining		
	2	Gray sandy GRAVEL - moist - wet - solvent odor	HNU = 50 ppm on sample HNU = 50 ppm in hole		
	4	Gray gravelly SAND, Silty - wet, solvent odor 5.0'	HNU = 100 ppm on Sample HNU = 45 ppm in hole @ 4.0' took environmental Sample (WIN-TP1-4.0') @ 10:00 a.m.	1	TCL VOA, semi VOA, Pest/PCB, TAL metals Cyanide, EP TOX; Reactivity.
	6	Brown, tan Sandy SILT, gravelly - moist; solvent odor, HNU = 10-15 ppm Brown tan SILT and CLAY, gravelly - moist, solvent odor; HNU = 10-15 ppm 7.0'	HNU = 10-15 ppm on sample		
	8	- End of Test Pit @ 7.0' - Test Pit 7' deep, 10' long, 2' wide - Took environmental Sample @ 4.0'			

DUNN GEOSCIENCE CORPORATION
495 Commerce Drive Amherst, New York 14150

TEST PIT / TRENCH LOG

Test Pit No.: 2
Sheet 1 of 1

Job No: 00296-02492
Date Started: 5/27/93
Date Finished: 5/27/93
Total Depth: 7.0'
Ground Elev.: —
S.W.L.: —
Container Size: 125 ml. VOA & 8 oz Amber

Project: Winsmith PSA
Client: NYSDEC
Purpose: Waste Sampling
Site Location: Winsmith Corp., Springville, NY
Sampling Point Location: WIN-TP2, Landfill mound

Excavation Contractor: Advanced Drilling Investigations
Operator Name:
Inspector: Paul Steck
General Description: Ford 550 Rubber-Tire Backhoe
Sample Equipment Used: Stainless Steel spoon | No. of Samples 1

Graphic Log	Depth Scale	Material Description (Include in order: MATERIAL TYPE, color, grain size, texture, bedding, moisture & minerals)	Remarks	Sample Number	Analysis Request
		Brown Sandy GRAVEL - wood debris, 5 gal. bail	HNU = BKG		
	2	water @ 2.0' - filled pit	HNU = BKG		
		3.0'			
	4	Gray Silty CLAY - wet - @ 4.0' encounter 55 gal drum - Solvent odor	HNU = 50 ppm HNU = 200 ppm inside drum		
	6	Same	HNU = 50-60 ppm sample @ 7.0' took environmental Sample (WIN-TP2-7.0') @ 11:00 a.m.	2	TCL VOA, semi VOA, Pest/PCB, TAL metal Cyanide, EP TOX, Reactivity
		7.0'			
	8	End of Test Pit @ 7.0' - Test Pit 8' long, 7' deep, 5' wide - Took environmental sample @ 7.0'			

DUNN GEOSCIENCE CORPORATION
495 Commerce Drive Amherst, New York 14150

TEST PIT / TRENCH LOG

Test Pit No.: 3
Sheet 1 of 1

Job No: 00296-02492
Date Started: 5/27/93
Date Finished: 5/27/93
Total Depth: 6'
Ground Elev.: —
S.W.L.: —
Container Size: 125 ml. VOA & 8 oz Amber

Project: Winsmith PSA
Client: NYSDEC
Purpose: Waste Sampling
Site Location: Winsmith Corp., Springville, NY
Sampling Point Location: WIN-TP3; Landfill mound

Excavation Contractor: Advanced Drilling Investigations
Operator Name:
Inspector: Paul Steck
General Description: Ford 550 Rubber-Tire Backhoe
Sample Equipment Used: Stainless Steel spoon | No. of Samples 1

Graphic Log	Depth Scale	Material Description (Include in order: MATERIAL TYPE, color, grain size, texture, bedding, moisture & minerals)	Remarks	Sample Number	Analysis Request
		Brown black sandy GRAVEL - Stained, wood debris, Stumps	HNU = 5 ppm		
	2	water @ 2.0 - filled pit - solvent odor	HNU = 10 ppm on sample HNU = 20 ppm headspace of water sample		
	4	Brown coarse gravelly SAND, silty - wet, solvent odor 5.0'	HNU = 10-20 ppm		
	6	Black silty fine SAND - wet; solvent odor 6.0'	HNU = 30-50 ppm on sample @ 5.0' took environmental sample (WIN-TP3-5.0)' @ 12:00 N	3	TCL VOA; Semi VOA; Pest/PCB; Tal metals cyanide; EP TOX; Reactivity. Also MS/MSD @ this location
	8	End of Test Pit @ 6.0' - Test Pit 6' deep, 8' long, 2' wide - Took environmental sample @ 5.0'			

DUNN GEOSCIENCE CORPORATION
495 Commerce Drive Amherst, New York 14150

TEST PIT / TRENCH LOG

Test Pit No.: 4
Sheet 1 of 1

Job No: 00296-02492
Date Started: 5/27/93
Date Finished: 5/27/93
Total Depth: 3.0'
Ground Elev.: —
S.W.L.: —
Container Size: 125 ml. VOA 8 oz Amber

Project: Winsmith PSA
Client: NYSDEC
Purpose: Waste Sampling
Site Location: Winsmith Corp., Springville, NY
Sampling Point Location: WIN-TP4, Landfill mound

Excavation Contractor: Advanced Drilling Investigations
Operator Name:
Inspector: Paul Steck
General Description: Ford 550 Rubber-Tire Backhoe
Sample Equipment Used: Stainless Steel spoon
No. of Samples: 1

Graphic Log	Depth Scale	Material Description (include in order: MATERIAL TYPE, color, grain size, texture, bedding, moisture & minerals)	Remarks	Sample Number	Analysis Request
		Brown Sandy GRAVEL, silty - dry	HNU = BKG		
	2	Brown coarse Gravelly SAND, silty - moist	HNU = BKG		
		3.0			
	4	Test Pit terminated @ 3.0 - No evidence of waste. Test Pit 3.0' deep, 12' long, 2' wide			
	6				
	8				

Appendix F

Data Summary Tables

DATA VALIDATION REPORT

ORGANIC and INORGANIC ANALYSES

Winsmith Site

Soil Samples

Laboratory Case No. 16959

Sampling Date of May 27, 1993

PREPARED FOR:

RUST Environment & Infrastructure, Inc.
12 Metro Park Road
Albany, New York 12205

October 1993

PREPARED BY:

ChemWorld Environmental, Inc.
14 Orchard Way North
Rockville, Maryland 20854
(301)294-6144

APPENDIX

DATA QUALIFIERS

ORGANIC DATA QUALIFIERS

U - Indicates that the compound was analyzed for but not detected at or above the Contract Required Quantitation Limit (CRQL), or the compound is not detected due to qualification through the method or field blank.

J - The associated numerical value is an estimated quantity.

JN - Tentatively identified with approximated concentrations.

UJ - The compound was analyzed for, but not detected. The sample quantitation limit is an estimated quantity due to variance in quality control limits.

C - Applies to pesticide results where the identification has been confirmed by GC/MS.

E - Reported value is estimated due to quantitation above the calibration range.

D - Reported result taken from diluted sample analysis.

A - Aldol condensation product.

R - Reported value is unusable and rejected due to variance from quality control limits.

NA - Not Analyzed.

INORGANIC DATA QUALIFIERS

U - Indicates analyte was not detected at or below the Contract Required Detection Limit (CRDL), or the compound is not detected due to qualification through the method or field blank.

B - Indicates analyte result is between Instrument Detection Limit (IDL) and CRDL.

J - Reported value is estimated due to variance from quality control limits.

UJ - The element was analyzed for, but not detected. The sample quantitation limit is an estimate due to variance in quality control limits.

E - Reported value is estimated because of the presence of interference.

R - Reported value is unusable and rejected due to variance from quality control limits.

N.A. Not Analyzed.

DATA SUMMARY TABLES

VOLATILE ORGANICS

WINSMITH SITE

VOLATILES/SOIL - DATA SUMMARY

CASE NO. 16959

All results reported in ug/Kg

Parameters - Volatiles	TP1-4-0	Q	TP2-7-0	Q	TP2-7-0DL	Q	TP3-5-0	Q	TP3-5-0DL	Q	VBLKD53	Q	VBLKD56	Q
Chloromethane		UJ		UJ		UJ		UJ				UJ		
Bromomethane						UJ								
Vinyl Chloride						UJ								
Chloroethane						UJ								
Methylene Chloride	1400	U	2900	U	15000	U	1800	U	9200	U	230	J	240	J
Acetone						UJ				UJ				UJ
Carbon Disulfide						UJ	410	J						
1,1-Dichloroethylene						UJ								
1,1-Dichloroethane						UJ								
Total 1,2-Dichloroethylene						UJ								
Chloroform						UJ								
1,2-Dichloroethane						UJ								
2-Butanone						UJ								
1,1,1-Trichloroethane						UJ								
Carbon Tetrachloride						UJ								
Bromodichloromethane						UJ								
1,2-Dichloropropane						UJ								
cis-1,3-Dichloropropene						UJ								
Trichloroethene						UJ								
Dibromochloromethane						UJ								
1,1,2-Trichlorethane						UJ								
Benzene						UJ								
trans-1,3-Dichloropropene						UJ								
Bromoform						UJ								
4-Methyl-2-pentanone						UJ								
2-Hexanone						UJ								
Tetrachloroethene						UJ								
1,1,2,2-Tetrachloroethane						UJ								
Toluene			1200	J	3900	DJ	1300	J	2000	DJ				
Chlorobenzene						UJ								
Ethylbenzene	2200		33000	J	53000	DJ	28000	J	38000	DJ				
Styrene						UJ								
Total Xylenes	7200		150000	E	240000	DJ	140000	E	180000	DJ				

WINSMITH SITE

VOLATILES/SOIL - DATA SUMMARY (cont.)

CASE NO. 16959

All results reported in ug/Kg

Parameters - Volatiles	MSB	Q	TP3-MS	Q	TP3-MSD	Q
Chloromethane				UJ		UJ
Bromomethane						
Vinyl Chloride						
Chloroethane						
Methylene Chloride	1200	U	1800	U	1800	U
Acetone		UJ				
Carbon Disulfide			340	J	460	J
1,1-Dichloroethylene	4900		7800	J	10000	J
1,1-Dichloroethane						
Total 1,2-Dichloroethylene						
Chloroform						
1,2-Dichloroethane						
2-Butanone						
1,1,1-Trichloroethane						
Carbon Tetrachloride						
Bromodichloromethane						
1,2-Dichloropropane						
cis-1,3-Dichloropropene						
Trichloroethene	5500		8600	J	10000	J
Dibromochloromethane						
1,1,2-Trichlorethane						
Benzene	5000		8600	J	11000	J
trans-1,3-Dichloropropene						
Bromoform						
4-Methyl-2-pentanone						
2-Hexanone						
Tetrachloroethene						
1,1,2,2-Tetrachloroethane						
Toluene	5500		9800	J	12000	J
Chlorobenzene	5800		9200	J	10000	J
Ethylbenzene			25000	J	29000	J
Styrene						
Total Xylenes			110000	E	140000	E

APPENDIX

DATA SUMMARY TABLES

SEMI-VOLATILE ORGANICS

WINSMITH SITE

SEMI-VOLATILES/SOIL - DATA SUMMARY

CASE NO. 16959

All results reported in ug/Kg

Parameters - SemiVolatiles	TP1-4-0	Q	TP1-4-0DL	Q	TP2-7-0	Q	TP2-7-0DL	Q	TP3-5-0	Q	TP3-5-0DL	Q
Phenol						UJ						UJ
bis (2-chloroethyl) ether						UJ						UJ
2-Chlorophenol						UJ						UJ
1,3-Dichlorobenzene						UJ						UJ
1,4-Dichlorobenzene						UJ						UJ
1,2-Dichlorobenzene						UJ						UJ
2-Methylphenol						UJ						UJ
2,2'-oxybis(1-Chloropropane)						UJ						UJ
4-methylphenol						UJ						UJ
N-Nitroso-di-n-propylamine						UJ						UJ
Hexachloroethane						UJ						UJ
Nitrobenzene						UJ				UJ		UJ
Isophorone						UJ				UJ		UJ
2-Nitrophenol						UJ				UJ		UJ
2,4-Dimethylphenol						UJ				UJ		UJ
bis(2-chloroethoxy)methane						UJ				UJ		UJ
2,4-Dichlorophenol						UJ				UJ		UJ
1,2,4-Trichlorobenzene						UJ				UJ		UJ
Naphthalene	180	J	160	DJ	760	J	720	DJ	3700	J	3200	DJ
4-chloroaniline						UJ				UJ		UJ
Hexachlorobutadiene						UJ				UJ		UJ
4-chloro-3-methylphenol						UJ				UJ		UJ
2-methylnaphthalene					87	J	81	DJ	910	J	1300	DJ
Hexachlorocyclopentadiene		UJ		UJ		UJ		UJ		UJ		UJ
2,4,6-Trichlorophenol						UJ				UJ		UJ
2,4,5-Trichlorophenol						UJ				UJ		UJ
2-Chloronaphthalene						UJ				UJ		UJ
2-Nitroaniline						UJ				UJ		UJ
Dimethylphthalate						UJ				UJ		UJ
Acenaphthylene						UJ				UJ		UJ
2,6-Dinitrotoluene						UJ				UJ		UJ
3-Nitroaniline						UJ				UJ		UJ

WINSMITH SITE

SEMI-VOLATILES/SOIL - DATA SUMMARY (cont.)

CASE NO. 16959

All results reported in ug/Kg

Parameters - SemiVolatiles	TP1-4-0	Q	TP1-4-0DL	Q	TP2-7-0	Q	TP2-7-0DL	Q	TP3-5-0	Q	TP3-5-0DL	Q
Acenaphthene						UJ				UJ		UJ
2,4-Dinitrophenol						UJ				UJ		UJ
4-Nitrophenol						UJ				UJ		UJ
Dibenzofuran						UJ				UJ		UJ
2,4-Dinitrotoluene						UJ				UJ		UJ
Diethylphthalate	830		740	DJ	1100	J	990	D	2300	J	2100	DJ
4-chlorophenyl-phenylether						UJ				UJ		UJ
Fluorene						UJ				UJ		UJ
4-Nitroaniline						UJ				UJ		UJ
4,6-Dinitro-2-methylphenol		UJ				UJ		UJ		R		UJ
N-Nitrosodiphenylamine		UJ				UJ		UJ	2200	J	770	DJ
4-Bromophenyl-phenylether		UJ				UJ		UJ		R		UJ
Hexachlorobenzene		UJ				UJ		UJ		R		UJ
Pentachlorophenol		UJ				UJ		UJ		R		UJ
Phenanthrene		UJ			150	J	150	DJ	2100	J	1900	DJ
Anthracene		UJ				UJ		UJ	210	J	2500	DJ
Carbazole		UJ				UJ		UJ	110	J	260	DJ
Di-n-butylphthalate		UJ		UJ		UJ		UJ	360	J		UJ
Fluoranthene		UJ				UJ		UJ	300	J	190	DJ
Pyrene						UJ			210	J	180	DJ
Butylbenzylphthalate	54	J				UJ				R		UJ
3,3'-Dichlorobenzidine		UJ		UJ		UJ		UJ		R	5300	DJ
Benzo(a)anthracene						UJ			600	J	240	DJ
Chrysene						UJ			1300	J	770	DJ
bis(2-ethylhexyl)phthalate	73	J	86	DJ		UJ		UJ	4100	E	2700	DJ
Di-n-octyl phthalate						UJ		UJ	110	J		UJ
Benzo(b)flouranthene						UJ		UJ		UJ		UJ
Benzo(k)flouranthene						UJ		UJ		UJ		UJ
Benzo(a)pyrene						UJ		UJ		UJ		UJ
Indeno(1,2,3-cd)pyrene						UJ		UJ		UJ		UJ
Dibenz(a,h)anthracene						UJ		UJ		UJ		UJ
Benzo(g,h,i)perylene						UJ		UJ		UJ		UJ

WINSMITH SITE

SEMI-VOLATILES/SOIL - DATA SUMMARY (cont.)

CASE NO. 16959

All results reported in ug/Kg

Parameters - SemiVolatiles	SBLK67	Q	MSB	Q	TP3-MS	Q	TP3-MSD	Q
Phenol			2200		1900		1700	J
bis (2-chloroethyl) ether								UJ
2-Chlorophenol			2100		1800		1700	J
1,3-Dichlorobenzene								UJ
1,4-Dichlorobenzene			1400		840		800	J
1,2-Dichlorobenzene								UJ
2-Methylphenol								UJ
2,2'-oxybis(1-Chloropropane)								UJ
4-methylphenol								UJ
N-Nitroso-di-n-propylamine			1600		3100		3400	J
Hexachloroethane								UJ
Nitrobenzene						UJ		UJ
Isophorone						UJ		UJ
2-Nitrophenol						UJ		UJ
2,4-Dimethylphenol						UJ		UJ
bis(2-chloroethoxy)methane						UJ		UJ
2,4-Dichlorophenol						UJ		UJ
1,2,4-Trichlorobenzene			1400		1700	J	1400	J
Naphthalene					2800	J	3300	J
4-chloroaniline						UJ		UJ
Hexachlorobutadiene						UJ		UJ
4-chloro-3-methylphenol			2000		3300	J	2900	J
2-methylnaphthalene					810	J	1400	J
Hexachlorocyclopentadiene		UJ		UJ		UJ		UJ
2,4,6-Trichlorophenol						UJ		UJ
2,4,5-Trichlorophenol						UJ		UJ
2-Chloronaphthalene						UJ		UJ
2-Nitroaniline						UJ		UJ
Dimethylphthalate						UJ		UJ
Acenaphthylene					250	J	210	J
2,6-Dinitrotoluene			250	J		UJ		UJ
3-Nitroaniline						UJ		UJ

WINSMITH SITE

SEMI-VOLATILES/SOIL - DATA SUMMARY (cont.)

CASE NO. 16959

All results reported in ug/Kg

Parameters - SemiVolatiles	SBLK67	Q	MSB	Q	TP3-MS	Q	TP3-MSD	Q
Acenaphthene			1500		2100	J	1700	J
2,4-Dinitrophenol						UJ		UJ
4-Nitrophenol			2300		3200	J	2400	J
Dibenzofuran						UJ		UJ
2,4-Dinitrotoluene			1300		1400	J	570	J
Diethylphthalate					980	J	4100	J
4-chlorophenyl-phenylether						UJ		UJ
Fluorene					340	J	370	J
4-Nitroaniline						UJ		UJ
4,6-Dinitro-2-methylphenol						R		R
N-Nitrosodiphenylamine						R		R
4-Bromophenyl-phenylether						R		R
Hexachlorobenzene						R		R
Pentachlorophenol			1800		1600	J	1600	J
Phenanthrene					2300	J	2200	J
Anthracene					290	J	260	J
Carbazole					260	J	160	J
Di-n-butylphthalate		UJ			400	J	310	J
Fluoranthene					430	J	480	J
Pyrene			1800	J	650	J	700	J
Butylbenzylphthalate						UJ		UJ
3,3'-Dichlorobenzidine		UJ		UJ		UJ		UJ
Benzo(a)anthracene					160	J	230	J
Chrysene					640	J	820	J
bis(2-ethylhexyl)phthalate		UJ			800	J	1500	J
Di-n-octyl phthalate					230	J	210	J
Benzo(b)flouranthene						UJ		UJ
Benzo(k)flouranthene						UJ		UJ
Benzo(a)pyrene						UJ		UJ
Indeno(1,2,3-cd)pyrene						UJ		UJ
Dibenz(a,h)anthracene						UJ		UJ
Benzo(g,h,i)perylene						UJ		UJ

WINSMITH SITE

PESTICIDES and PCBs/SOIL - DATA SUMMARY

CASE NO. 16959

All results reported in ug/Kg

Parameters-Pesticides/PCBs	TP1-4-0	Q	TP2-7-0	Q	TP3-5-0	Q	TP3-5-0DL	Q	PBLK40	Q	MSB	Q	TP3-MS	Q	TP3-MSD	Q
alpha-BHC																
beta-BHC					20	J							24	J	16	J
delta-BHC																
gamma-BHC(Lindane)											16		19	J	15	J
Heptachlor											17		23	J	21	J
Aldrin											15		16	J	16	J
Heptachlor Epoxide																
Endosulfan I																
Dieldrin											36		39	J	32	J
4,4'-DDE																
Endrin											36		43	J	34	J
Endosulfan II																
4,4'-DDD																
Endosulfan Sulfate																
4,4'-DDT											39		45	J	41	J
Methoxychlor																
Endrin Ketone																
Endrin Aldehyde																
alpha-chlordane																
gamma-chlordane																
Toxaphene																
Aroclor-1016			12	J	230	J							230	J	140	J
Aroclor-1221																
Aroclor-1232																
Aroclor-1242																
Aroclor-1248																
Aroclor-1254																
Aroclor-1260	27	J	200	J	19000	J	21000	J					17000	J	11000	J

APPENDIX

DATA SUMMARY TABLES

INORGANICS

WINSMITH SITE

INORGANICS/SOIL - DATA SUMMARY

CASE NO. 16959
SDG NO. P1-4-0

All results reported in mg/Kg

Parameters - Inorganics	TP1-4-0	Q	TP2-7-0	Q	TP3-5-0	Q
Aluminum	10700		10300		6260	
Antimony		UJ		UJ		UJ
Arsenic	6.6	J	9.1	J	18.1	J
Barium	50.2		63.6		111	
Beryllium	0.63	B	0.61	B	0.56	B
Cadmium		R		R		R
Calcium	2210		13300		14300	
Chromium	12.9		72.7		398	
Cobalt	10.6	B	15.4		39.3	
Copper	35.0		83.8		381	
Iron	22900	J	46700	J	284000	J
Lead	13.0		50.5		126	
Magnesium	3540		6200		3570	
Manganese	703		1090		3810	
Mercury					0.37	J
Nickel	21.9	J	57.9	J	584	J
Potassium	928	B	1690		1320	B
Selenium						
Silver	2.5		4.8		14.2	
Sodium	231	B	408	B		
Thallium						
Vanadium	18.8		19.5		15.3	B
Zinc	144		141		145	
Cyanide		UJ		UJ	1.3	J

Questions refer to Paul Steck (DUNN) 716 691-3866

DUNN GEOSCIENCE CORPORATION

495 COMMERCE DRIVE
AMHERST, NEW YORK 14150
(716) 691-3060

CHAIN OF CUSTODY RECORD

PROJECT NAME: Winsmith PSA
PROJECT NUMBER: 00296-02492
SAMPLERS (SIGNATURE): Paul C. Steck, Jerry Jones (PRINT): Paul C. Steck, Jerry Jones

SAMPLE I.D.	DATE	TIME	No. of Bottles/Vials	MATRIX: Water (Soil)	GC/MS 624-8240	GC/MS 625-8270	GC/MS (TCL-VOA) 91-1 Clp	GC/MS (TCL-SVOA) 91-2 Clp	GC/MS Other:	GC 601-8010	GC 602-8020	GC 608-8080	GC 8150	GC (TCL PEST/PCB) 91-3 Clp	GC Herbicides	GC Other:	INORGANICS Metals	INORGANICS Cyanide CLP91	INORGANICS TAL Metals CLP91	INORGANICS Other:	OTHER Reactivity	OTHER EP TOXICITY	OTHER	OTHER	OTHER	OTHER	OTHER	REMARKS
WIN-TP1-4.0'	5/27/93	10:00a	4	S			X	X						X			X	X			X	X					As per P.O # 235087 ECF
WIN-TP2-7.0'		11:00a	4	S			X	X						X			X	X			X	X					
WIN-TP3-5.0'		12:00N	4	S			X	X						X			X	X			X	X					
WIN-TP3-MS		12:00N	4	S			X	X						X			X	X			[redacted]	[redacted]					
WIN-TP3-MSD		12:00N	4	S			X	X						X			X	X			[redacted]	[redacted]					

00011134

RELINQUISHED BY (SIGNATURE)	DATE/TIME	RECEIVED BY (SIGNATURE)	RELINQUISHED BY (SIGNATURE)	DATE/TIME	RECEIVED BY (SIGNATURE)
Paul C. Steck	5/27/93 4:00p				
COMPANY: Dunn Corp		COMPANY	COMPANY		COMPANY
RELINQUISHED BY (SIGNATURE)	DATE/TIME	RECEIVED BY (SIGNATURE)	Method of Shipment		Special Handling Requirements
	5/28/93 11:15	K. Schuth			
COMPANY		COMPANY NET			

Appendix G

Field Sampling Records

FIELD SAMPLING RECORD

PROJECT: Winsmith PSA DATE: 5/27/93
PROJECT NO.: 00296 - 02492 TIME: 10:00 a.m.
CLIENT: NYSDEC SITE ID: WIN - TP1 - 4.0'
SAMPLERS: Paul Steck of Dunn Corp
Jerry Jones Dunn Corp

Sample classification: Suface Water / Infiltration Water / Leachate / Sediment / (Soil / Waste) / Other

Sample From: Stream / River / Lake / Pond / Seep / Lagoon / Tank / Pipe Outfall / Drum /
(Excavation) / Boring / Embankment /

Surface: Residential / (Industrial) / Commerical / Other

Sampling Methods: Sampling Bottle: Direct Fill Container / Remote Fill / Dipper Jar/Can /
Peristaltic Pump / Bailer / Core Sampler / Standard Split Spoon/ Hand Auger /
(Stainless Spoon) / Trowel /

Sample Type: Point / (Grab) / Composite /

Atmospheric Trip Blank ID — **Field (wash) Blank ID** —
Containers Filled (primary) # 4 **List ID #s** WIN - TP1 - 4.0'
Containers Filled (replicates) # — **List ID #s** —
Test for TCL VOA; Semi VOA; PCB/Pest; TAL Metals, Cyanide, EP Toxicity, Reactivity
Physical Appearance and Odor Brown gravelly Sand, Silty; HNU = 100 ppm; solvent odor

Refrigerated: **Date:** 5/27/93 **Time:** 10:00 a.m. **Dry Ice:** Yes / (No)

Field Tests: N.A.	Meter ID #	Test Value
Temperature (C / F)		
pH		
Spec. Conductivity (umhos/cm)		
Dissolved Oxygen (mg/1)		
Other:		Units

Weather: Sunny; 65 °F
Comments:

FIELD SAMPLING RECORD

PROJECT: Winsmith PSA DATE: 5/27/93
PROJECT NO.: 00296 - 02492 TIME: 11:00 a.m.
CLIENT: NYSDEC SITE ID: WIN - TP2 - 7.0'
SAMPLERS: Paul Steck of Dunn Corp
Jerry Jones Dunn Corp

Sample classification: Suface Water / Infiltration Water / Leachate / Sediment / (Soil / Waste) Other

Sample From: Stream / River / Lake / Pond / Seep / Lagoon / Tank / Pipe Outfall / Drum / (Excavation) / Boring / Embankment /

Surface: Residential / (Industrial) / Commerical / Other

Sampling Methods: Sampling Bottle: Direct Fill Container / Remote Fill / Dipper Jar/Can / Peristaltic Pump / Bailer / Core Sampler / Standard Split Spoon/ Hand Auger / (Stainless Spoon) / Trowel /

Sample Type: Point / (Grab) / Composite /

Atmospheric Trip Blank ID — Field (wash) Blank ID —
Containers Filled (primary) # 4 List ID #s WIN - TP2 - 7.0'
Containers Filled (replicates) # — List ID #s —
Test for TCL VOA; Semi VOA; PCB/Pest; TAL Metals, Cyanide, EP Toxicity, Reactivity
Physical Appearance and Odor Gray Silty Clay; wet; HNU = 50 ppm; Solvent Odor

Refrigerated: Date: 5/27/93 Time: 11:00 a.m. Dry Ice: Yes / (No)

Field Tests: N.A.	Meter ID #	Test Value	
Temperature (C / F)			
pH			
Spec. Conductivity (umhos/cm)			
Dissolved Oxygen (mg/1)			
Other:			Units

Weather: Sunny; 65 °F
Comments:

FIELD SAMPLING RECORD

PROJECT: Winsmith PSA DATE: 5/27/93
PROJECT NO.: 00296 - 02492 TIME: 12:00 N
CLIENT: NYSDEC SITE ID: WIN - TP3 - 5.0'
SAMPLERS: Paul Steck of Dunn Corp
Jerry Jones Dunn Corp

Sample classification: Suface Water / Infiltration Water / Leachate / Sediment / (Soil / Waste) Other

Sample From: Stream / River / Lake / Pond / Seep / Lagoon / Tank / Pipe Outfall / Drum / (Excavation) / Boring / Embankment /

Surface: Residential (Industrial) Commerical / Other

Sampling Methods: Sampling Bottle: Direct Fill Container / Remote Fill / Dipper Jar/Can / Peristaltic Pump / Bailer / Core Sampler / Standard Split Spoon/ Hand Auger / (Stainless Spoon) Trowel /

Sample Type: Point (Grab) Composite /

Atmospheric Trip Blank ID — **Field (wash) Blank ID** —
Containers Filled (primary) # 4 **List ID #s** WIN - TP3 - 5.0'
Containers Filled (replicates) # 8 **List ID #s** WIN - TP3 - MS ; WIN - TP3 - MSD
Test for TCL VOA; Semi VOA; PCB/Pest ; TAL Metals , Cyanide , EP Toxicity , Reactivity
Physical Appearance and Odor Black fine Sand, sludge , HNU = 30 - 50 ppm ; Solvent Odor

Refrigerated: **Date:** 5/27/93 **Time:** 12:00 N **Dry Ice:** Yes (No)

Field Tests: N.A.

	Meter ID #	Test Value	
Temperature (C / F)			
pH			
Spec. Conductivity (umhos/cm)			
Dissolved Oxygen (mg/1)			
Other:			Units

Weather: Sunny ; 65 °F
Comments: