


# ENGINEERING INVESTIGATIONS AT INACTIVE HAZARDOUS WASTE SITES

## PRELIMINARY SITE ASSESSMENT

**VALENITE**
**DEWITT (T)**

**SITE NO. 734023**
**ONONDAGA (C)**

Prepared for:

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
50 Wolf Road, Albany, New York

*Michael D. Zagata, Commissioner*

DIVISION OF HAZARDOUS WASTE REMEDIATION

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

**URS Consultants, Inc.**
282 Delaware Avenue
Buffalo, New York 14202

**July 1995**

G1917

# FINAL
# PRELIMINARY SITE ASSESSMENT

**VALENITE**

**SITE NO. 734023**

**DeWITT (T)/ONONDAGA (C)**

**JULY 1995**




**Performed Under**

**NYSDEC CONTRACT NO. D002340**

**NYSDEC WORK ASSIGNMENT NO. D002340-21**

**By**

**URS CONSULTANTS, INC.**

**For**

**DIVISION OF HAZARDOUS WASTE REMEDIATION**

**NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION**

## TABLE OF CONTENTS


| | | Page No. |
|---|---|---|
| 1.0 | EXECUTIVE SUMMARY | 1-1 |
| 1.1 | Site Description and Disposal History | 1-1 |
| 1.2 | Site Investigation | 1-1 |
| 1.3 | Presence of Hazardous Waste | 1-2 |
| 1.4 | Significant Threat | 1-2 |
| 1.5 | Recommendations | 1-3 |
| 2.0 | SITE HISTORY | 2-1 |
| 3.0 | TASK DISCUSSION | 3-1 |
| 3.1 | Task 1 - File Search and Site Reconnaissance | 3-1 |
| 3.2 | Task 2 - Site Work Plan | 3-2 |
| 3.3 | Task 3 - Preliminary Environmental Sampling | 3-2 |
| 3.3.1 | Environmental Sampling | 3-2 |
| 3.3.2 | Contamination Assessment | 3-3 |
| 3.3.2.1 | Volatile Organic Compounds | 3-4 |
| 3.3.2.2 | Semi-Volatile Organic Compounds | 3-4 |
| 3.3.2.3 | Pesticides/PCBs | 3-4 |
| 3.3.2.4 | Metals | 3-4 |
| 3.3.2.5 | EPTOX | 3-5 |
| 4.0 | CONCLUSIONS AND RECOMMENDATIONS | 4-1 |
| 4.1 | Summary and Conclusions | 4-1 |
| 4.2 | Recommendations | 4-2 |

REFERENCES

PSA SUMMARY SHEET

## LIST OF FIGURES


| | | After Page |
|---|---|---|
| 1-1 | Site Location Map | 1-1 |
| 1-2 | Site Plan | 1-1 |
| 2-1 | Historical Sample Locations | 2-1 |
| 3-1 | Detailed Site Map | 3-3 |


## LIST OF TABLES


| | | After Page |
|---|---|---|
| 3-1 | Analytical Summary Tables | 3-4 |


## LIST OF APPENDICES

(End of Report)


| | |
|---|---|
| A | SI Summary Forms |
| B | Data Usability Summary |
| C | References |
| D | PA--Score |
| E | Site Property Boundary Map (Tax Map) |

## 1.0 EXECUTIVE SUMMARY

### 1.1 Site Description and Disposal History

The former Valenite Metals Company facility is located at 315 Wavel Street in an urban/industrial area in the Town of DeWitt, Onondaga County, New York (Figure 1-1). The NYSDEC defines the site as the area around the former Valenite facility. The 0.5 acre site is located in the Syracuse Metropolitan area. The property is now owned by the Garey Machine Corp. operated by Mr. Michael Garey. The one-story concrete block building occupies the western half of the property. At the time of the site inspection, the majority of the property was covered with gravel and was used for parking. The eastern edge of the property, along Poznan Street, is covered in trees and brush and was previously used by residents of the adjacent mobile home park for vegetable gardens (Figure 1-2).

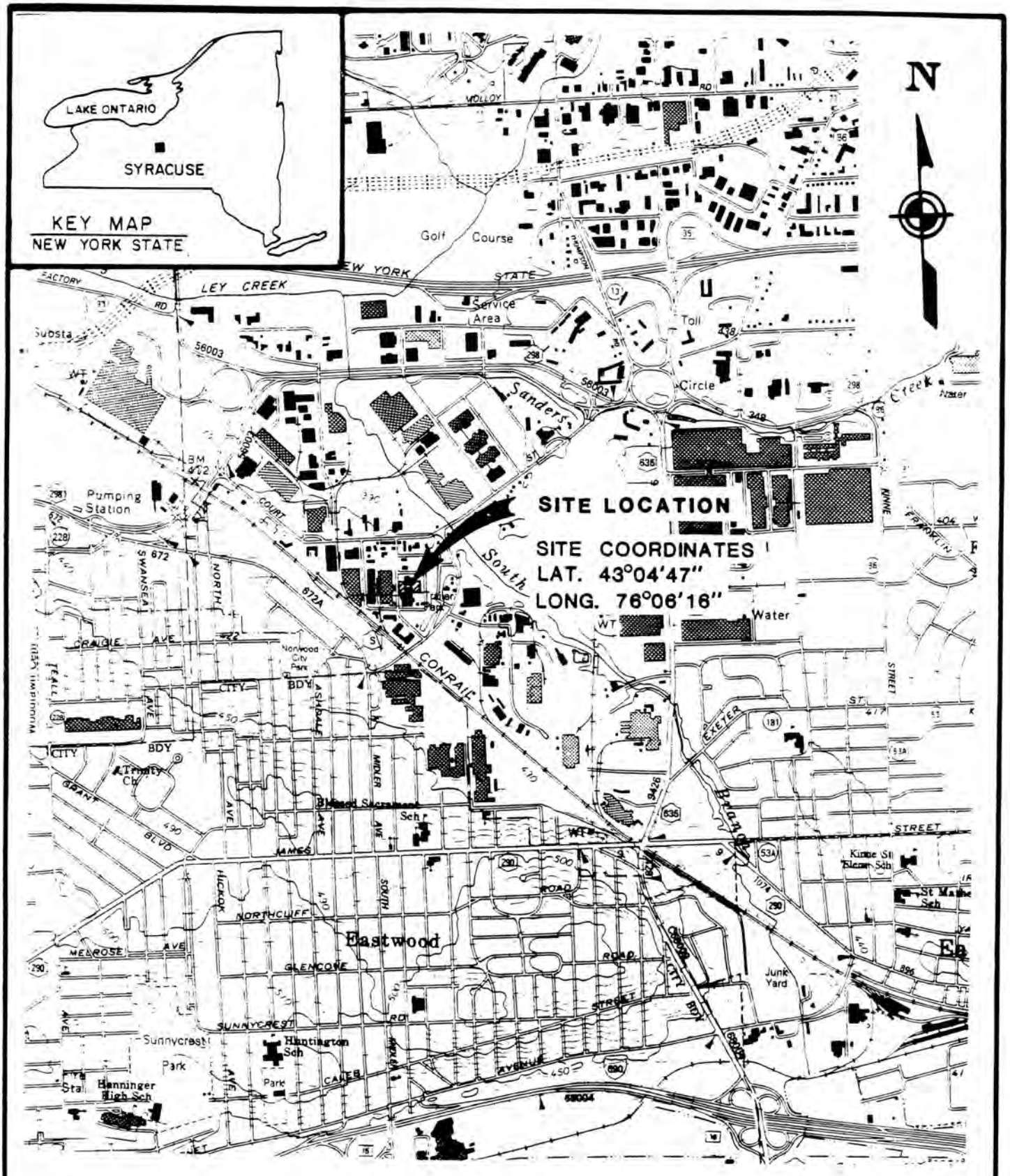
The surface water nearest to the site is the South Branch of Ley Creek which is located 1,200 feet east of the site. Former employees alleged that between 1961 and 1981 heavy metal contaminated dust was discharged to the atmosphere from the ventilation system of the building. During the same time period, used machine oil from vacuum pumps allegedly was dumped beside the building and into the drainage ditch at the rear of the building.

It is likely that between the time of the former employee allegations and 1982, when Mr. Garey leased the property, a new ventilation system was installed.

### 1.2 Site Investigation

Roy F. Weston, Inc., completed a Preliminary Assessment of the Valenite site for the USEPA in September 1984. The results of that report and of the 1985 NYSDEC study found cobalt and many semivolatile organic compounds in the soil at elevated levels.

On November 13, 1990, a site inspection for PSA Task 1 was conducted by Donald McCall (URS Consultants, Inc.) and Robert Kreuzer (URS Consultants, Inc.). During the site visit Mr. Michael E. Garey, who operates the Garey Machine Corp, was interviewed. Due to the alleged method of waste

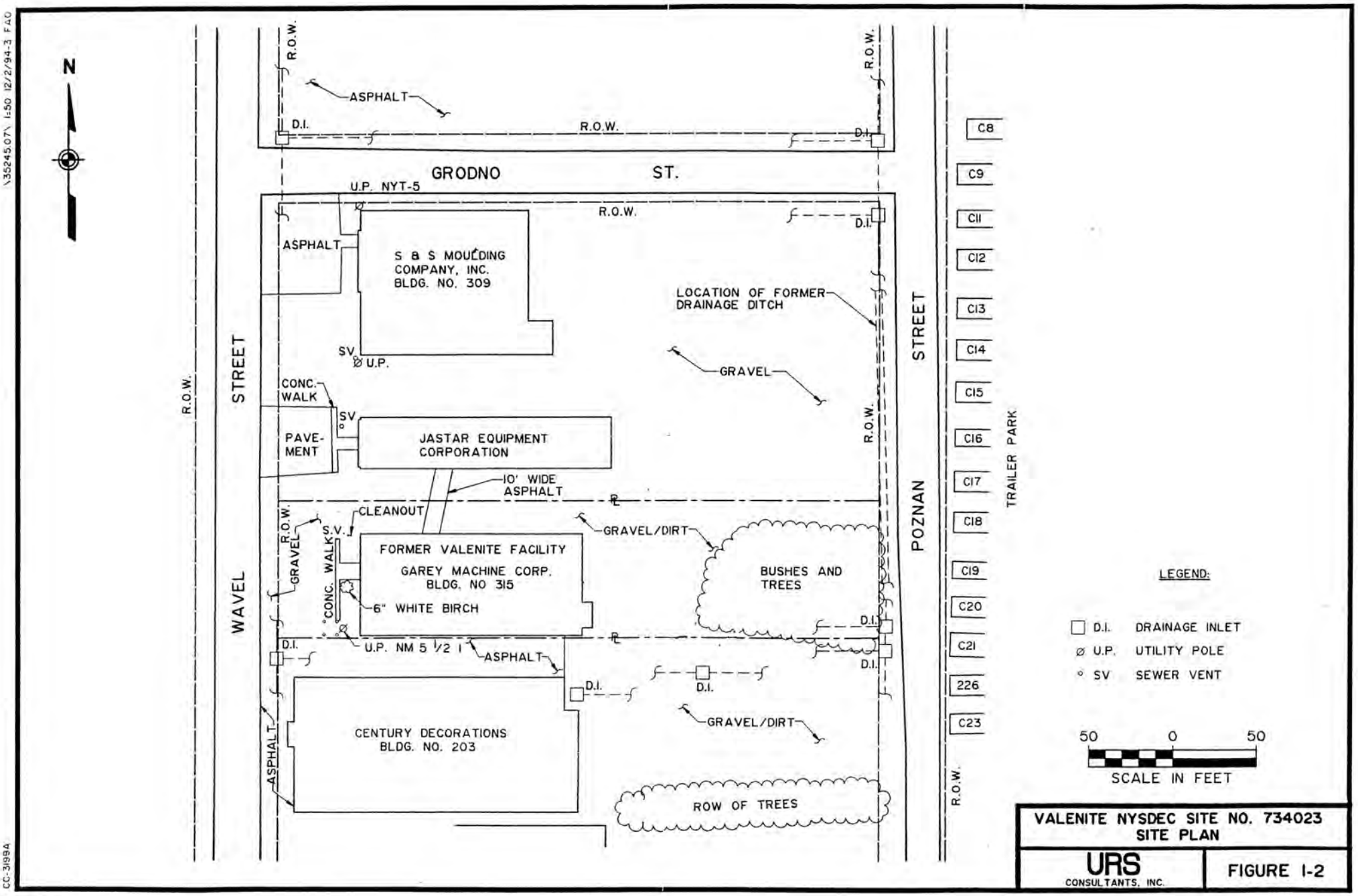



URS CONSULTANTS, INC.

VALENITE NYSDEC SITE # 734023
**SITE LOCATION MAP**

**FIGURE 1-1**

A-3553




VALENITE NYSDEC SITE NO. 734023
SITE PLAN

URS CONSULTANTS, INC.

FIGURE 1-2

\35245.07\ 1:50 12/2/94-3 FAO

CC-3994

disposal, no contamination was visible during the inspection. On August 8, 1994, a site inspection for PSA Task 3 was conducted by Andre LaPres of URS Consultants, Inc., Carl Hoffman of the NYSDEC, and Michael Garey. At that time it was noted that the drainage swale, depicted on the site sketch generated for the PSA Task 1 in 1991, had been filled in. Mr. Garey stated that the drainage swale had been replaced by a city storm sewer. Mr. Garey noted that refuse was present in the overgrown areas on the eastern portion of the site.

The swarf pile which had been identified in the NYSDEC work plan had been removed. The Valenite site is a suspected inactive hazardous waste site recognized by the NYSDEC. The site currently is classified as Class 2a because there is insufficient information to document hazardous waste disposal and/or assess the significance of potential risks to public health or the environment.

URS Consultants conducted a limited program of sampling in August 1994 during which six surficial soil samples were collected at the rear of the building. Standards, Criteria, and Guidance values (SCGs) were contravened for chrysene, benzo(b)fluoranthene, benzo(a)pyrene, dibenz(a,h)anthracene, arsenic, cadmium, calcium, chromium, cobalt, copper, magnesium, mercury, nickel, and cyanide in one or more of the samples. Maximum concentrations for toxicity characteristics were not exceeded. Table 3-1 gives a complete list of results and SCG exceedances.

## 1.3 Presence of Hazardous Waste

The site currently is listed in the Registry of Inactive Hazardous Waste Sites in New York State as a Class 2a site. There is no documentation of disposal of hazardous waste as defined by 6 NYCRR Part 371 or 6 NYCRR Part 375 at the site.

## 1.4 Significant Threat

Significant threat to the public health or the environment must be proven in order for the NYSDEC to reclassify a site. Significant threat must be a direct result of hazardous waste disposal and can be in the form of contravention of federal or state standards, impact on fish, wildlife, or flora, or through a potential for direct human contact.

Prior to this investigation and based on limited sampling, the site had been classified as a Class 2a site by the NYSDEC since there was no documentation of hazardous waste disposal or significant threat to nearby residents or the environment. Based upon the results of this investigation in which no hazardous waste disposal or significant threat was documented, this site should be delisted from the NYSDEC Registry of Inactive Hazardous Waste Sites in New York State.

## 1.5 Recommendations

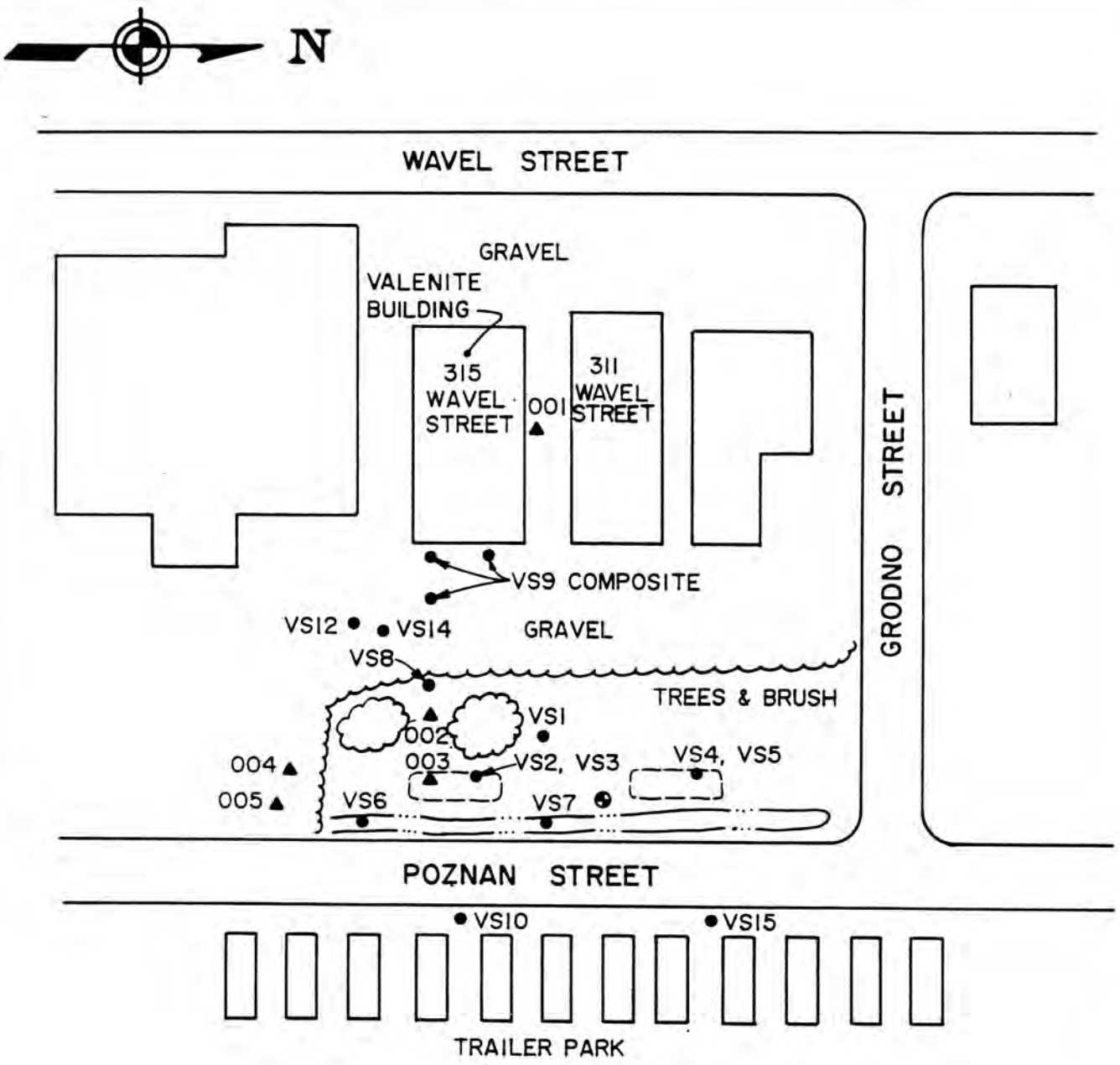
The results of this study have been adequate to conclude that the presence of consequential hazardous waste has not been substantiated from results of site sampling. As such, removal of the Valenite site from the Registry of Inactive Hazardous Waste Sites in New York State is appropriate.

## 2.0 SITE HISTORY

The Valenite site (#734023) is a manufacturing facility located at 315 Wavel Street in the Town of DeWitt. The Valenite Metals Company rented this property from 1961 to 1981 from Jacob Hafner for the manufacture of carbide cutting tools, and the adjacent property at 311 Wavel for use as a warehouse. Former employees of Valenite have alleged that the company released metal contaminated dust into the air in addition to the dumping of used vacuum pump oil onto the ground. Dust released from operations inside the plant reportedly settled on everything around the building and covered cars parked around the building with black "soot." Blowers and a bag dust collection system were used to collect dust from the machine operations; however, the bags in the collector were often ripped or were otherwise inefficient. In addition, there was a secondary system that would sometimes discharge dust directly through stacks in the roof. A transformer explosion and fire also was reported to have occurred at the Valenite facility some time in the 1970s; subsequently, many of these transformers were replaced (Ref 1).

Valenite ceased operations at this site in 1981. In 1982, the Garey Machine Corp. leased the building and in 1988 bought the property. According to Mr. Garey, the Valenite building was extremely dirty inside prior to his occupancy. Mr. Garey also stated that at that time the ventilation system discharged inside the building.

Several previous investigations have been conducted at this site. Previous sample locations are shown on Figure 2-1. In June 1984, a Potential Hazardous Waste Site Preliminary Assessment was performed by Roy F. Weston, Inc. for the USEPA. In September of 1984, a Site Inspection for the USEPA, including soil sampling for cobalt, was conducted . In October 1985, the NYSDEC conducted their own sampling program at the site. Five soil samples were collected as part of this investigation (Ref. 1). URS Consultants, Inc. prepared a Preliminary Site Assessment, Task 1 in 1991.




LEGEND

- ▲ NYSDEC SOIL SAMPLES, OCT. 1985
- ● EPA REGION II FIELD INVESTIGATION TEAM, JUNE 1984
- GARDEN
- DRAINAGE DITCH

NOT TO SCALE

| URS CONSULTANTS, INC. | HISTORICAL SAMPLE LOCATIONS | FIGURE 2-1 |
|---|---|---|

AH – 6613

## 3.0 TASK DISCUSSION

### 3.1 Task 1 - File Search and Site Reconnaissance

An extensive data search was conducted, utilizing both site-specific and regional sources. This information was compiled from existing data as well as new sources. These include:

- Visit to the NYSDEC Region 7 office (Charles Branagh) to conduct a file search, November 13, 1990. (315) 426-7531

- Phone Conversation with Onondaga County Health Department (Lisa Letteny) regarding file information, December 13, 1990. (315) 469-6955

- Phone Conversation with the New York State Department of Health (Henrietta Hamel) regarding file information, December 14, 1990. (315) 426-7612

- Visit to the NYSDEC office in Albany to conduct a file search June 14, 1990. (518) 457-9538

  Information gathered from the above sources, as well as from local public and university libraries, was used to prepare the PSA Task 1 report.

- Visit to the NYSDEC office in Albany to conduct a file search August, 1994. (518) 457-9538

In addition to the 1990 file review, NYSDEC Region 7 was contacted to identify file information added since that time. The Region 7 office did not identify any documents recently added to the files.

## 3.2 Task 2 - Site Work Plan

Results of Task 1 concluded that insufficient information was available to allow reclassification of the Valenite site. Recommendations for further investigation were presented with the PSA Task 1 report. Information required for reclassification included assessment of possible contamination of soil, surface water and sediment throughout the site vicinity.

The original Task 2 Technical Work Plan of April 1993 was developed by NYSDEC with consideration of the Task 1 recommendations. The work plan budget was developed by URS based on sample analysis, and level of labor effort as negotiated with the NYSDEC Project Manager. The final work plan detailed Task 3 Initial Environmental Sampling to include:

- collection of 13 surface soil samples from the site and surrounding area;
- collection of 2 surface water and 2 sediment samples from the drainage ditch at the rear of the property;
- collection of 4 wipe samples from the building exterior; and
- collection of 1 swarf sample from the pile near the rear of the property.

Task 4 Subsurface Environmental Sampling was not proposed for the Valenite site, however, additional requirements of the work plan included site survey and mapping and completion of the Hazard Ranking System PA-Score.

## 3.3 Task 3 - Preliminary Environmental Sampling

### 3.3.1 Environmental Sampling

On August 15, 1994, a limited program of environmental sampling was conducted. The NYSDEC work plan called for swarf samples, surface water/sediment samples from a drainage swale, wipe samples of the building, and surficial soil samples to be collected at the Valenite site. All changes

to the sampling program described below were directed by the NYSDEC Project Manager following the August 8, 1994 site inspection.

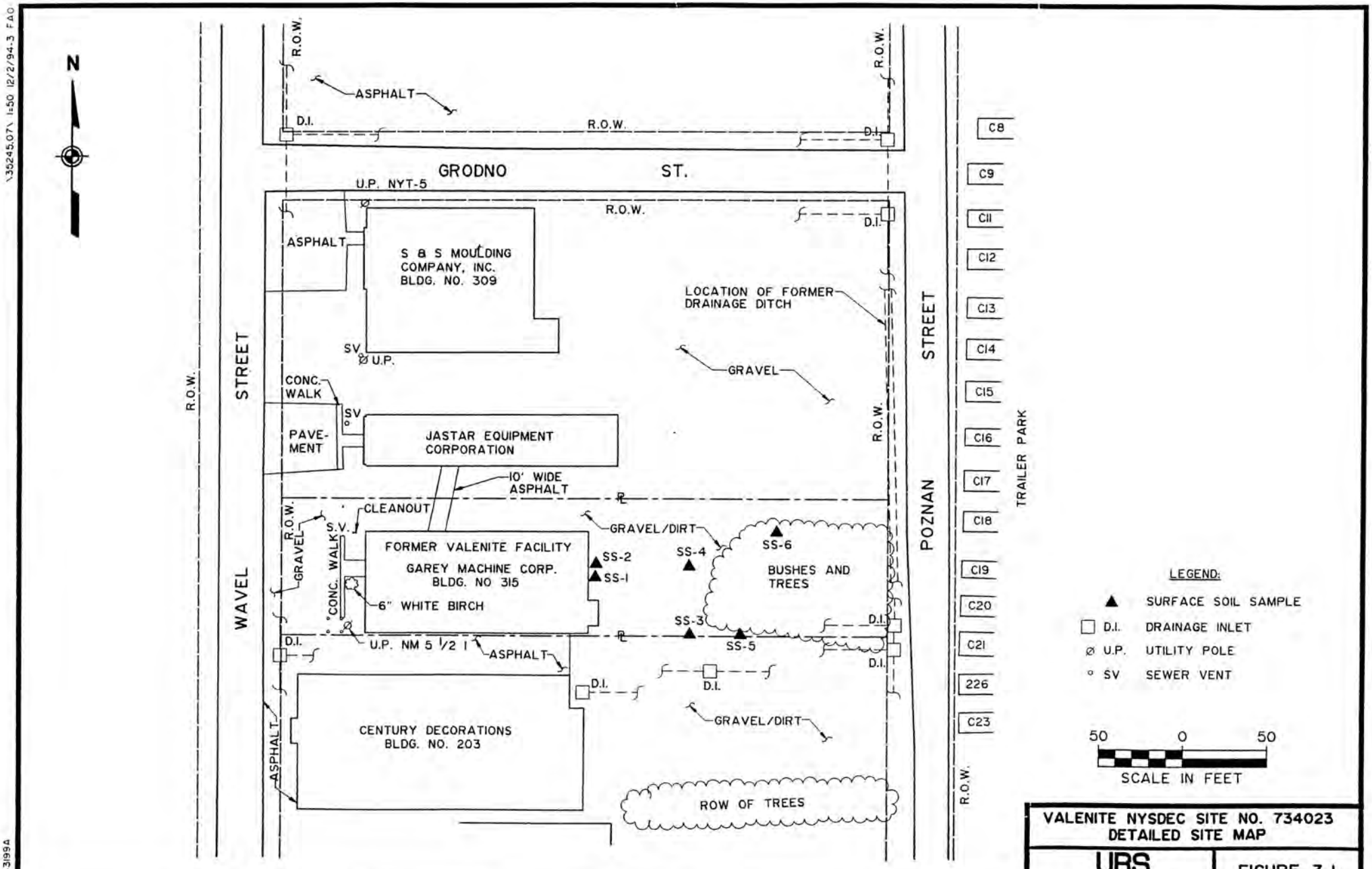
The URS sampling crew spoke with Mr. Garey, the current owner of the building, who stated that prior to his leasing of the building, the interior was washed and painted. As a result, the wipe samples were eliminated from the sampling program. In addition, the drainage swale had been replaced with a city storm sewer eliminating the need for a surface water/sediment sample. No swarf pile was evident, therefore, the swarf sample was eliminated.

Six surficial soil samples were collected from the 0 to 1 foot depth interval. The samples were collected at locations identified by the NYSDEC as shown on Figure 3-1. All samples were collected using a bucket auger. The VOA vials were filled and the remaining sample volume was placed in a stainless steel mixing bowl, composited, and the remainder of the sample jars filled. The surficial soils samples were placed on ice in a cooler and transported to E3I Laboratory of Somerville, Massachusetts. Samples SS-1, SS-4, and SS-5 were submitted for full TCL analysis, TAL metals, and cyanide, and EPTOX. Samples SS-2, SS-3, and SS-6 were submitted for TAL metals and EPTOX only.

### 3.3.2 Contamination Assessment

Soil sample results were compared against the levels in the NYSDEC document entitled, "Determination of Soil Cleanup Objectives and Cleanup Levels," revised January 24, 1994 (TAGM HWR-94-4046). This TAGM provides a basis and procedure to determine soil cleanup levels at Superfund and Responsible Party inactive hazardous waste sites. Use of this document at the Valenite site may not be directly applicable, but may be used for Standards Criteria and Guidance (SCG) comparison purposes. There is a lack of promulgated state or federal soil contamination or cleanup standards. The procedures presented in the TAGM are for guidance purposes only. Furthermore, the values presented in the table for organic parameters are based on an assumed total organic carbon (TOC) content of 1%. Site-specific TOC data were not collected.

The cleanup values for inorganic parameters (metals) are based on the median reported background concentrations from a survey of reference material.




VALENITE NYSDEC SITE NO. 734023
DETAILED SITE MAP

URS CONSULTANTS, INC.

FIGURE 3-1

\35245.07\ 1:50 12/2/94-3 FAO

CC-31994

### 3.3.2.1 Volatile Organic Compounds

Samples SS-1, SS-4, and SS-5 were analyzed for volatile organic compounds (VOCs). VOCs were not found above detection limits in any of these samples.

### 3.3.2.2 Semi-Volatile Organic Compounds

Samples SS-1, SS-4, and SS-5 were analyzed for semivolatile organic compounds (SVOCs). All three samples were found to contain SVOCs, particularly from the polynuclear aromatic hydrocarbon (PAH) class of compounds. Results are presented in Table 3-1. PAHs are found in coal tar materials, such as oil, and are products of combustion. They often are found in soils near industrial areas.

Most SVOCs detected were below SCGs. The seven PAHs detected above SCGs are benzo(a)anthracene, chrysene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene, and dibenz(a,h)anthracene in all three samples, and indeno(1,2,3-c,d)pyrene in SS-4 alone. The SCGs for these seven compounds are lower than for other PAHs based on evidence that they are probable human carcinogens. PAH levels detected in SS-1 and SS-5 are typical of those found in roadside samples. The levels detected in SS-4 were more elevated and exceed the SCGs by at least one order of magnitude. Sample SS-5 was collected adjacent to the property line, indicating that PAH contamination extends over the property line to the south.

### 3.3.2.3 Pesticide/PCBs

Samples SS-1, SS-4, and SS-5 were analyzed for pesticides and PCBs. Analytes detected are presented on Table 3-1. Pesticides were detected in all samples at levels below SCGs. Aroclors 1254 and 1260 were detected in SS-4 and SS-5 at levels below the SCG values.

### 3.3.2.4 Metals

All collected samples were analyzed for TAL metals and cyanide. Twenty out of twenty-three metals were detected in one or more of the collected samples. Metals results are presented in Table 3-1.

# TABLE 3-1
# VALENITE SITE
# PRELIMINARY SITE ASSESSMENT
# VOLATILE RESULTS

| Sample ID | | SS-1 | SS-4 | SS-5 |
|---|---|---|---|---|
| Date Collected | | 08/15/94 | 08/15/94 | 08/15/94 |
| Date Received | | 08/16/94 | 08/16/94 | 08/16/94 |
| Matrix | | Surface Soil | Surface Soil | Surface Soil |
| Parameters | SCG [1] | | | |
| Chloromethane | -- | | | |
| Bromomethane | -- | | | |
| Vinyl Chloride | 200 | | | |
| Chloroethane | 1,900 | | | |
| Methylene Chloride | 100 | | | |
| Acetone | 200 | | | |
| Carbon Disulfide | 2,700 | | | |
| 1,1-Dichloroethene | 400 | | | |
| 1,1-Dichloroethane | 200 | | | |
| 1,2-Dichloroethene (Total) | 300 | | | |
| Chloroform | 300 | | | |
| 1,2-Dichloroethane | 100 | | | |
| 2-Butanone | 300 | | | |
| 1,1,1-Trichloroethane | 800 | | | |
| Carbon Tetrachloride | 600 | | | |
| Bromodichloromethane | -- | | | |
| 1,2-Dichloropropane | -- | | | |
| cis-1,3-Dichloropropene | -- | | | |
| Trichloroethene | 700 | | | |
| Dibromochloromethane | -- | | | |
| 1,1,2-Trichloroethane | -- | | | |
| Benzene | 60 | | | |
| trans-1,3-Dichloropropene | -- | | | |
| Bromoform | -- | | | |
| 4-Methyl-2-Pentanone | 1,000 | | | |
| 2-Hexanone | -- | | | |
| Tetrachloroethene | 1,400 | | | |
| 1,1,2,2-Tetrachloroethane | 600 | | | |
| Toluene | 1,500 | | | |
| Chlorobenzene | 1,700 | | | |
| Ethylbenzene | 5,500 | | | |
| Styrene | -- | | | |
| Xylene (Total) | 1,200 | | | |

All results reported in ug/kg.

Only detected results reported.

-- - No SCG Value.

[1] - New York State Department of Environmental Conservation TAGM HWR-94-4046, January 24, 1994.

# TABLE 3-1
# VALENITE SITE
# PRELIMINARY SITE ASSESSMENT
# SEMIVOLATILE RESULTS

| Sample ID | | SS-1 | SS-4 | SS-5 | SS-5 RE |
|---|---|---|---|---|---|
| Date Collected | | 08/15/94 | 08/15/94 | 08/15/94 | 08/15/94 |
| Date Received | | 08/16/94 | 08/16/94 | 08/16/94 | 08/16/94 |
| Matrix | | Surface Soil | Surface Soil | Surface Soil | Surface Soil |
| **Parameters** | **SCG [1]** | | | | |
| Phenol | 30 or MDL | | | | |
| bis(2-Chloroethyl)ether | -- | | | | |
| 2-Chlorophenol | 800 | | | | |
| 1,3-Dichlorobenzene | 1,600 | | | | |
| 1,4-Dichlorobenzene | 8,500 | | | | |
| 1,2-Dichlorobenzene | 7,900 | | | | |
| 2-Methylphenol | 100 or MDL | | | | |
| 2,2'-oxybis(1-Chloropropane) | -- | | | | |
| 4-Methylphenol | 900 | | | | |
| N-nitroso-di-n-propylamine | -- | | | | |
| Hexachloroethane | -- | | | | |
| Nitrobenzene | 200 or MDL | | | | |
| Isophorone | 4,400 | | | | |
| 2-Nitrophenol | 330 or MDL | | | | |
| 2,4-Dimethylphenol | -- | | | | |
| bis(2-Chloroethoxy)methane | -- | | | | |
| 2,4-Dichlorophenol | 400 | | | | |
| 1,2,4-Trichlorobenzene | -- | | | | |
| Naphthalene | 13,000 | 100 | | 77 | 78 |
| 4-Chloroaniline | 220 or MDL | | | | |
| Hexachlorobutadiene | -- | | | | |
| 4-Chloro-3-Methyphenol | 240 or MDL | | | | |
| 2-Methylnaphthalene | 36,400 | | | 59 | 62 |
| Hexachlorocyclopentadiene | -- | | | | |
| 2,4,6-Trichlorophenol | -- | | | | |
| 2,4,5-Trichlorophenol | 100 | | | | |
| 2-Chloronaphthalene | -- | | | | |
| 2-Nitroaniline | 430 or MDL | | | | |
| Dimethylphthalate | 2,000 | | | | |
| Acenaphthylene | 41,000 | | | 33 | |
| 2,6-Dinitrotoluene | 1,000 | | | | |
| 3-Nitroaniline | 500 or MDL | | | | |
| Acenaphthene | 50,000 * | 420 | 560 | 330 | 340 |
| 2,4-Dinitrophenol | 200 or MDL | | | | |
| 4-Nitrophenol | 100 or MDL | | | | |
| Dibenzofuran | 6,200 | 160 | 410 | 160 | 170 |
| 2,4-Dinitrotoluene | -- | | | | |
| Diethylphthalate | 7,100 | | | | |
| 4-Chlorophenyl-phenylether | -- | | | | |
| Fluorene | 50,000 * | 290 | 850 | 260 | 280 |
| 4-Nitroaniline | -- | | | | |
| 4,6-Dinitro-2-Methyphenol | -- | | | | |
| N-Nitrosodiphenylamine | -- | | | | |
| 4-Bromophenyl-phenylether | -- | | | | |
| Hexachlorobenzene | 410 | | | | |

All results reported in ug/kg.

Only detected results reported.

— - No SCG Value.

* - Total semivolatiles < 500,000 ppb.

MDL - Method Detection Limit.

[1] - New York State Department of Environmental Conservation

TAGM HWR-94-4046, January 24, 1994.

# TABLE 3-1
# VALENITE SITE
# PRELIMINARY SITE ASSESSMENT
# SEMIVOLATILE RESULTS

| Sample ID | | SS-1 | SS-4 | SS-5 | SS-5 RE |
|---|---|---|---|---|---|
| Date Collected | | 08/15/94 | 08/15/94 | 08/15/94 | 08/15/94 |
| Date Received | | 08/16/94 | 08/16/94 | 08/16/94 | 08/16/94 |
| Matrix | | Surface Soil | Surface Soil | Surface Soil | Surface Soil |
| Parameters | SCG | | | | |
| Pentachlorophenol | 1,000 or MDL | | | | |
| Phenanthrene | 50,000 * | 3100 | 14000 | 2900 | 2600 |
| Anthracene | 50,000 * | 690 | 2400 | 270 | 350 |
| Carbazole | -- | 480 | 2500 | 490 | 470 |
| Di-n-butylphthalate | 8,100 | 250 | | 89 | 89 |
| Fluoranthene | 50,000 * | 3400 | 28000 | 3000 | 2900 |
| Pyrene | 50,000 * | 5000 | 23000 | 3200 | 3600 |
| Butylbenzylphthalate | 50,000 * | | | 59 | 35 |
| 3,3'-Dichlorobenzidine | -- | | | | |
| Benzo(a)anthracene | 224 or MDL | 4500 | 13000 | 1800 | 1500 |
| Chrysene | 400 | 4400 | 14000 | 950 | 1100 |
| bis(2-Ethylhexyl)phthalate | 50,000 * | 290 | 440 | 740 | 690 |
| Di-n-octylphthalate | 50,000 * | | | | |
| Benzo(b)fluoranthene | 1,100 | 2000 | 16000 | 2100 | 2200 |
| Benzo(k)fluoranthene | 1,100 | 1900 | 17000 | 1500 | 1200 |
| Benzo(a)pyrene | 61 or MDL | 3600 | 13000 | 1000 | 930 |
| Indeno(1,2,3-cd)pyrene | 3,200 | 840 | 3300 | 320 | 480 |
| Dibenz(a,h)anthracene | 14 or MDL | 160 | 1300 | 110 | 190 |
| Benzo(g,h,i)perylene | 50,000 * | 680 | 3100 | 280 | 510 |

All results reported in ug/kg.

Only detected results reported.

-- - No SCG Value.

* - Total semivolatiles <500,000 ppb.

MDL - Method Detection Limit.

[1] - New York State Department of Environmental Conservation

TAGM HWR-94-4046, January 24, 1994.

- Exceeds SCG value

# TABLE 3-1
# VALENITE SITE
# PRELIMINARY SITE ASSESSMENT
# PESTICIDE/PCB RESULTS

| Sample ID | | SS-1 | SS-4 | SS-5 |
|---|---|---|---|---|
| Date Collected | | 08/15/94 | 08/15/94 | 08/15/94 |
| Date Received | | 08/16/94 | 08/16/94 | 08/16/94 |
| Matrix | | Surface Soil | Surface Soil | Surface Soil |
| Parameters | SCG [1] | | | |
| alpha-BHC | 110 | | | |
| beta-BHC | 200 | | | |
| delta-BHC | 300 | 2 | | |
| gamma-BHC (Lindane) | 60 | 0.96 | 1.6 | |
| Heptachlor | 100 | | 2.9 | 0.93 |
| Aldrin | 41 | | | |
| Heptachlor epoxide | 20 | | 1.7 | |
| Endosulfan I | 900 | 3.4 | 1.2 | 1.1 |
| Dieldrin | 44 | 19 | 15 | 24 |
| 4,4'-DDE | 2,100 | 18 | 3.1 | 4.4 |
| Endrin | 100 | 24 | 28 | 30 |
| Endosulfan II | 900 | 18 | 31 | 19 |
| 4,4'-DDD | 2,900 | 11 | | |
| Endosulfan sulfate | 1,000 | | | |
| 4,4'-DDT | 2,100 | 26 | 16 | |
| Methoxychlor | 10,000 | | | |
| Endrin ketone | -- | | | |
| Endrin Aldehyde | -- | 17 | | 33 |
| alpha-Chlordane | 540 | 14 | 1.2 | 5.9 |
| gamma-Chlordane | 540 | 6.1 | | 4.3 |
| Toxaphene | -- | | | |
| Aroclor-1016 | 1000 * | | | |
| Aroclor-1221 | 1000 * | | | |
| Aroclor-1232 | 1000 * | | | |
| Aroclor-1242 | 1000 * | | | |
| Aroclor-1248 | 1000 * | | | |
| Aroclor-1254 | 1000 * | | 83 | 370 |
| Aroclor-1260 | 1000 * | | 81 | 280 |

All results reported in ug/kg.

Only detected results reported.

-- - No SCG Value.

* - Total PCBs in surface soil = 1,000.

[1] - New York State Department of Environmental Conservation

TAGM HWR-94-4046, January 24, 1994.

# TABLE 3-1
# VALENITE SITE
# PRELIMINARY SITE ASSESSMENT
# INORGANIC RESULTS

| Sample ID | | SS-1 | SS-2 | SS-3 | SS-4 | SS-5 | SS-6 |
|---|---|---|---|---|---|---|---|
| Date Collected | | 08/15/94 | 08/15/94 | 08/15/94 | 08/15/94 | 08/15/94 | 08/15/94 |
| Date Received | | 08/16/94 | 08/16/94 | 08/16/94 | 08/16/94 | 08/16/94 | 08/16/94 |
| Matrix | | Surface Soil | Surface Soil | Surface Soil | Surface Soil | Surface Soil | Surface Soil |
| Parameters | SCG [1] | | | | | | |
| Aluminum | – | 4230 | 5060 | 3590 | 3600 | 9080 | 10100 |
| Antimony | – | | | | | 12.80 | |
| Arsenic | 7.5 | 1.70 | 2.40 | 2.90 | 39.90 | 49 | 3.80 |
| Barium | 300 | 77.90 | 123 | 69.50 | 54.30 | 71 | 42.80 |
| Beryllium | 0.16 | | 0.29 | 0.25 | 0.23 | 0.35 | 0.36 |
| Cadmium | 1 | | | | | | |
| Calcium | – | 76500 | 84400 | 77200 | 174000 | 60400 | 26200 |
| Chromium | 10 | 40.90 | 51.50 | 57.90 | 30.20 | 55.20 | 15.40 |
| Cobalt | 30 | 6670 | 5200 | 137 | 216 | 171 | 16.20 |
| Copper | 25 | 44.50 | 99.20 | 266 | 50.40 | 2120 | 52.20 |
| Iron | 2,000 | 10,000 | 12700 | 14400 | 20400 | 25200 | 15000 |
| Lead | 500 * | 108 | 77.70 | 61.80 | 44.20 | 126 | 32.10 |
| Magnesium | – | 38200 | 31600 | 37600 | 28800 | 29300 | 10900 |
| Manganese | – | 244 | 301.00 | 275 | 310 | 413 | 291 |
| Mercury | 0.1 | 0.74 | 0.67 | 0.38 | 0.28 | 0.59 | 0.35 |
| Nickel | 13 | 175 | 133 | 53.40 | 27.50 | 55.90 | 16.90 |
| Potassium | – | 879 | 1090 | 700 | 794 | 1270 | 952 |
| Selenium | 2 | | | | | | |
| Silver | – | | 1.50 | | | | |
| Sodium | – | | 214 | | 92.50 | | |
| Thallium | – | | | | | | |
| Vanadium | 150 | 13 | 15.90 | 13.10 | 11.70 | 22 | 15.90 |
| Zinc | 20 | 100 | 128 | 102 | 57.10 | 187 | 41.70 |
| Cyanide | * | | - | - | | | - |

All results reported in mg/kg.

Only detected results reported.

– - No SCG Value.

* - Varies widely.

[1] - New York State Department of Environmental Conservation

TAGM HWR-94-4046, January 24, 1994.

Shaded - Exceeds SCG value

# TABLE 3-1
# VALENITE SITE
# PRELIMINARY SITE ASSESSMENT
# EPTOX RESULTS

| Sample ID | | SS-1 | SS-2 | SS-3 | SS-4 | SS-5 | SS-6 |
|---|---|---|---|---|---|---|---|
| Date Collected | | 08/15/94 | 08/15/94 | 08/15/94 | 08/15/94 | 08/15/94 | 08/15/94 |
| Date Received | | 08/16/94 | 08/16/94 | 08/16/94 | 08/16/94 | 08/16/94 | 08/16/94 |
| Matrix | | Surface Soil | Surface Soil | Surface Soil | Surface Soil | Surface Soil | Surface Soil |
| Parameters | SCG[2] | | | | | | |
| Gamma-BHC (Lindane) | 400 | | 0.027 | | | | |
| Endrin | 20 | | | | | | |
| Methoxychlor | 10,000 | | | | | | |
| Toxaphene | 500 | | | | | | |
| 2,4-D | 10,000 | | | | | | |
| 2,3,5-TP (Silvex) | 1,000 | | | | | | |
| Arsenic | 5,000 | 131 | | 161 | | 191 | |
| Barium | 100,000 | 1200 | 818 | 696 | 545 | 699 | 455 |
| Cadmium | 1,000 | 31.7 | 14.9 | 9.4 | | 8.3 | |
| Chromium | 5,000 | | 6.70 | | | 15.6 | |
| Lead | 5,000 | | 58.2 | | | | |
| Mercury | 200 | 1.10 | 0.62 | 1.30 | 0.57 | 0.78 | 0.62 |
| Selenium | 1,000 | 89.2 | 104 | | | | 82.1 |
| Silver | 5,000 | | | | 17.90 | | |

All results reported in $\mu g/l$.

Only detected results reported.

[2]- Maximum concentration of contaminants for toxicity characteristics.

All six samples contained from seven to nine metals at levels exceeding the SCG value; however, comparison to background levels is another component of the metals SCGs. Since site background data were not collected, the upper limit, rather than the median, of the range of New York State and eastern United States background should be used for comparison. By this criteria, the samples collected from SS-6 had two SCG exceedances while SS-4 had seven. Metals detected above upper limit SCGs are arsenic, chromium, cobalt, copper, mercury, nickel, and zinc. Mercury is the only metal detected above the upper limit of the range (SCGs) in all six samples. Furthermore, only cobalt (SS-1, SS-2) and copper (SS-5) were detected at levels greater than the upper limit SCGs by one order of magnitude.

### 3.3.2.5 EPTOX

All samples collected were submitted for EPTOX analysis. The analytical results are presented in Table 3-1. For all samples, values detected did not exceed EPTOX criteria.

## 4.0 CONCLUSIONS AND RECOMMENDATIONS

### 4.1 Summary and Conclusions

Based on this PSA Task 3 Investigation of the Valenite Site and a further review of the PSA Task 1 file search, the following summary and conclusions may be made:

- Disposal of hazardous wastes as defined by 6 NYCRR Part 371 has not been documented at the Valenite site.

- The site does not represent a significant threat to human health or the environment relative to the criteria defined in 6 NYCRR Part 375.

- Some levels of PAHs and metals detected in the surficial soils exceed SCGs.

- Detection of PAHs corroborates reports by former employees' that waste vacuum pump oil was dumped behind the building. This evidence cannot pinpoint either the time frame or volume of the waste dumped.

- Metals detected in excess of SCGs confirms former employees allegations that metal dust was released into the atmosphere during Valenite's period of operation at the site. This evidence cannot pinpoint either the time frame or volume of dust released into the atmosphere.

- Elevated but highly localized levels of cobalt were detected at sample locations SS-1 and SS-2. Detection of these elevated levels in samples near the rear of the building may be due to floor sweepings discharged out the rear door.

- The HRS score calculated for the PSA Task 1 is $S_M$=12.03, $S_{DC}$=37.50. The PA-Score calculated for this site is 22.

- Groundwater should be found near the surface at depths of less than ten feet. Groundwater flow is presumed to be to the east. The location of the nearest groundwater supply is unknown and presumed to be to the southeast. The nearest surface water supply is Skaneateles Lake to the southwest of the site and upgradient from the site.

## 4.2 Recommendations

Although levels of semivolatiles and metals do exceed soil cleanup objectives of TAGM HWR-94-4046, and soil contamination may extend off site beyond the property line, there is no documentation of the deposition of hazardous waste at the Valenite site. As such, URS Consultants, Inc. recommends that the site be delisted from the NYSDEC Registry of Inactive Hazardous Waste Sites in New York State.

Paving, fencing, landscaping the site with clean topsoil, or a combination of one or more of these may be useful to prevent future human exposure to contaminants in the soils.

# REFERENCES


NYSDEC. 1986. Freshwater Wetlands Map, Onondaga County, Map 10 of 21.

NYSDEC. 1994. "Determination of Soil Cleanup Objectives and Cleanup Levels.", TAGM HWR-94-4046, Revised January 24, 1994.

NYSDEC. 1989. Water Resources Data: New York Water Year 1989. Volume 3. Western NewYork.

NYSDEC. 1994. New York Natural Heritage Program Evaluation of the Valenite Site.

NYSDOH. 1982. New York State Atlas of Community Water Systems.

NYSDOT. 1990. Topographic map of the Syracuse East Quadrangle, 7.5 minute series.

Robbino, D. 1994. Personal communication with Phyllis Rettke of URS Consultants RE: Source of Water for the City of Syracuse.

USGS. 1973. Photorevised 1978, of the Syracuse West Quadrangle, 7.5 minute series.

USGS. 1989. Water Data Report 89-3.

URS Consultants, Inc. 1991. Preliminary Site Assessment, Task 1: Data Records Search and Assessment at the Valenite Site, Site No. 734023 DeWitt (t), Onondaga (c), New York

# PSA Summary Sheet

1. **SITE NAME** Valenite

2. **SITE NUMBER** 734023

3. **TOWN/CITY/VILLAGE**
   a. Name of Town Supervisor or Mayor - James Fischer
   b. Address of Village, City, or Town Hall - 5400 Butternut Drive, Syracuse
   c. Telephone Number - 315-446-3716

4. **COUNTY** Onondaga

5. **REGION** 7

6. **CLASSIFICATION** 2a
   CURRENT

7. **LOCATION OF SITE**
   a. Quadrangle Syracuse East, NY, 1990
   b. Site Latitude 43° 04′47″ Site Longitude 76° 06′ 16″
   c. Tax Map Numbers 31-04-08.2
   d. Site Street Address 315 Wavel Street, Syracuse, New York 13206

8. **BRIEFLY DESCRIBE THE SITE**

   The 0.5 acre site is located in an urban industrial area of the Town of Dewitt in Onondaga County. The western half of the site is covered by a concrete block building. Most of the remainder of the property is covered with gravel and used for parking. A small area remains in trees and brush. Former employees allege that heavy metal dust was discharged to the atmosphere and that used machine oil was dumped on the ground.

a. Area 0.5 acres b. EPA ID Number NYD980780365
c. Completed ( ) Phase I ( ) Phase II (X) PSA ( ) RI/FS ( ) PA/SI ( ) Other

9. **HAZARDOUS WASTE DISPOSED (Include EPA Hazardous Waste Numbers)**

   None documented.

10. **ANALYTICAL DATA AVAILABLE**

a. ( ) Air ( ) Groundwater ( ) Surface Water ( ) Sediment (X) Soil ( ) Waste ( ) Leachate ( ) EPTox ( ) TCLP

b. Contravention of Standards or Guidance Values

| | | | | |
|---|---|---|---|---|
| Benzo(a)anthracene | Benzo(b)fluoranthene | Benzo(a)pyrene | Arsenic | Copper |
| Chrysene | Benzo(k)fluoranthene | Indeno(1,2,3-cd)pyrene | Beryllium | Iron |
| Dibenzo(a,h)anthracene | Chromium | Mercury | Cobalt | Nickel |
| Zinc | | | | |

11. **SITE DATA**

a. Nearest Surface Water: Distance 1200 ft. Direction east Classification C

b. Nearest Groundwater: Depth ≈ 10′ ft Flow Direction east ( ) Sole Source ( ) Primary ( ) Principal

c. Nearest Water Supply: Distance > 3 miles mi. Direction southwest Active (x) Yes ( ) No

d. Nearest Building: Distance onsite ft Direction west Use Machine Shop

| | | | | | |
|---|---|---|---|---|---|
| e. In State Economic Development Zone? | ( ) Y | (x) N | i. Controlled Site Access? | ( ) Y | (X) N |
| f. Crops or livestock on site? | ( ) Y | (x) N | j. Exposed hazardous waste? | ( ) Y | (X) N |
| g. Documented fish or wildlife mortality? | ( ) Y | (x) N | k. HRS Score (PA-Score) = 22 | | |

| 12. SITE OWNER'S NAME(S) | 13. ADDRESS(ES) | 14. TELEPHONE NUMBER(S) |
|---|---|---|
| Garey Machine Corp. | 315 Wavel Street | (315) 463-0210 |

J/35245.07/wp/psarep/cp)(dr)
07-13-95;10:01(ta(cp)

# SI SUMMARY FORMS

**SI Data Summary** **Site Name** Valenite

Site Name Valenite EPA Region II **Date** 10/12/94

**Contractor Name or State Office and Address** URS Consultants, Inc.

## GENERAL SITE INFORMATION

1. **CERCLIS ID No.** NYD980730365

   Address 315 Wavel Street City DeWitt
   County Onondaga State NY Zip Code 13206 Congressional District ____

2. **Owner Name** Michael E. Garey **Operator Name** Valenite
   Owner address 315 Wavel Street Operator address 315 Wavel Street
   City Syracuse State NY City Syracuse State NY
3. **Type of ownership** (check all that apply):
   ■ Private ☐ Federal Agency ____ ☐ State ☐ County ☐ Municipal
   ☐ Other ____ References(s) 1

4. **Approximate size of property:** 0.5 acres References(s) 1

5. **Latitude** 43.5° 4 ′ 47.2 ″ **Longtitude** 76.5 ° 6 ′ 16.0 ″ References(s) 1

6. **Site status:** ☐ Active ■ Inactive ☐ Unknown References(s) 1

7. **Years of operation:** From: 1961 to: 1981 ☐ Unknown References(s) 1

8. **Previous Investigations:**

| Type | Agency/State/Contractor | Date | |
|---|---|---|---|
| PA | NUS /USEPA | 1984 | References(s) 1 |
| PSA | URS/NYSDEC | 1991 | References(s) 1 |
| | | | References(s) |
| | | | References(s) |

J:\35245.07\WP\valform\psr
10/31/94:16:04

## WASTE SOURCE INFORMATION

1. **Waste source types** (check all that apply)

- ☐ Constituent
- ☐ Wastestream (type) _____
- ☐ Landfill
- ☐ Drums
- ■ Contaminated soil
- ☐ Land Treatment
- ☐ Tanks or non-drum containers (type) _____
- ☐ Pile (type) _____
- ☐ Surface impoundment (buried)
- ☐ Surface impoundment (backfilled)
- ☐ Other _____

Reference(s) 1

2. **Types of wastes** (check all that apply)

- ■ Organic chemicals
- ☐ Inorganic chemicals
- ☐ Municipal wastes
- ☐ Radionuclides
- ■ Metals
- ☐ Pesticides/Herbicides
- ☐ Solvents
- ☐ Other _____

Reference(s) 1

3. **Summarize history of waste disposal operations:**

Valenite Metals Corp. operated a machine shop on the property from 1961 to 1981. During that time it was alleged that metal grinding dust containing heavy metals was discharged into the atmosphere. It was also reported that used vacuum pump oil was dumped along the side of the building. The Garey Machine Company has been located on the property since 1982. Much of the evidence of previous onsite activities has been removed.

Reference(s) 1

## CONTINUATION PAGE FOR SOURCE CHARACTERIZATION

Source # 1 Name _____ Source type _____

Describe source: Metal grinding dust

Ground water migration containment: NA

Surface water migration containment: NA

Air migration (gas and migration) containment: NA

Physical state of wastes: ☐ Liquid ■ Solid ☐ Sludge/Slurry ☐ Gas ☐ Unknown

Constituent quantity of hazardous substances: _____ (specify units)

Wastestream quantity containing hazardous substances: 10 tons (specify units)

Hazardous substances associated with source #: 1 :

cobalt copper _____

_____ _____ _____

Reference(s) 2

---

Source # 2 Name _____ Source type _____

Describe source: Used vacuum pump oil

Groundwater migration containment: NA

Surface water migration containment: NA

Air migration (gas and migration) containment: NA

Physical state of wastes: ■ Liquid ☐ Solid ☐ Sludge/Slurry ☐ Gas ☐ Unknown

Consitutuent quantity of hazardous substances: _____ (specify units)

Wastestream quantity containing hazardous substances: 3,360 gallons (specify units)

Volume of source ($yd^3$): _____ Area of source ($ft^2$): _____

Hazardous substances associated with source# 2 :

Benzo(a)pyrene benzo(b)fluoranthene benzo(a)anthracene

Indeno(1,2,3-cd)pyrene _____ _____

Reference(s) 2

**5. Description of removal or remedial activities**

If a removal has occurred, identify the removal authority and describe the activities. Specify the date(s) of the removal.

Mr. Michael Garey, current owneer of the building, stated that before he bought it the entire building was washed .

It was noted during the site reconnaissance that he swarf pile previously identified by the NYSDEC and NUS was no longer visible. No information was available concerning the removal of the swarf pile.

Reference(s) Site Inspection

## GROUND WATER INFORMATION

1. **Groundwater drinking water use within 4 miles of site sources:**
   ☐ Municipal ■ Private ☐ Both ☐ No Drinking Water Use

   Reference(s) 1

2. **Is groundwater contaminated?**
   ☐ Yes ☐ No ☐ Uncertain but likely ■ Uncertain but not likely
   ☐ Additional sampling required
   Is analytical evidence available? ☐ Yes ■ No Reference(s) 1

3. **Is groundwater contamination attributable to the site?**
   ☐ Yes ■ No ☐ Additional sampling required Reference(s) 1

4. **Are drinking water wells contaminated?**
   ☐ Yes ☐ No ☐ Uncertain but likely ■ Uncertain but not likely
   ☐ Additional sampling required
   Is analytical evidence available? ☐ Yes ■ No Reference(s)

5.* **Net Precipitation** (HRS Section 3.1.2.2): _____ inches Reference(s)

6. **County average number of persons per residence:** _____ Reference(s)

7. **Discuss general stratigraphy underlying the site.** Attach sketch of stratigraphic column.

The site is underlain by glacial overburden which overlays the Silurian Age Vernon shale. A stratigraphic column is attached.

Reference(s)

8. **Using Table GW-1 (next page), summarize geology underlying the site** (starting with formation #1 as closest to ground surface). Indicate if formation is interconnected with overlying formation.

# Table 7.7
# Rocks of Package Three
# Upper Silurian

| Rock and Description | | Age | Environment | Fossils | Thickness |
|---|---|---|---|---|---|
| Bondout Formation<br>dolostone rich in clay | | Late Silurian | shallow, highly salty water | stromatolites, rare ostracodes | |
| Bertie & Glasco Limestones | | Late Silurian | seas of normal salinity | brachiopods, ornamented ostracodes, corals, bryozoans | |
| Salina Group | Camillus & Bertie Formations<br>shale rich in anhydrite; dolostone rich in clay | Late Silurian | shallow shelf, very salty water | sparse life including eurypterids, scorpions, ostracodes, brachiopods, a few snails, & worms | 300 m<br>some salt layers in Syracuse thicker than 30 m<br>salt layers in Vernon 3-4 m |
| | Syracuse Formation<br>green or gray shale rich in anhydrite; dolostone; numerous salt layers | | | fossils rare | |
| Uppermost Bedrock Layer Beneath the Site → | Vernon Formation<br>red & green silty shale that changes to gray shale, dolostone, & evaporites (including several salt layers) in the west | | red Vernon: coastal plain<br>gray Vernon: shallow shelf<br>During deposition of middle part of Vernon, seas evaporated nearly to dryness from time to time | | |
| Lockport Group | Illion Formation*<br>dark gray shale | Late Silurian | shallow shelf | | 60 m |
| | several formations<br>mostly dolostone with some chert; contain a variety of minerals | | probably very shallow shelf to carbonate flats | fossils rare; mostly mollusks, especially snails, nautiloids, & clams | |
| | Gasport Formation<br>limestone & dolostone; contains reefs built by corals | | shallow shelf, warm, clear water | honeycomb corals (Favosites) chain corals (Halysites), tube corals (Syringopora), solitary horn corals (Cystiphyllum), bryozoans, broken crinoids | |

*In central New York, the Lockport carbonate layers pass eastward into the Illion Formation.

than the older parts beneath; therefore, much of it lies directly on the basement rock. Pebbly conglomerate layers are common near the unconformity. Bedding in this upper Potsdam is uniform and well defined, although cross-bedding is common within individual beds. The sand grains are nearly all quartz, in contrast to the feldspar-rich sandstone below. We can see spectacular exposures of the upper Potsdam Formation in Ausable Chasm (Figure 7.2) and at the falls of the Chateaugay River in Franklin County.

The Potsdam Sandstone becomes thicker from west to east in the St. Lawrence Valley. This trend continues farther east into the Champlain Valley. What do you suppose this arrangement might tell us about the geography when the Potsdam Sandstone was deposited?

Above the Potsdam, the rock sequence includes dolostone, limestone, sandstone, and shale (described in Tables 7.1 and 7.2). We will refer to this rock as a *carbonate sequence* because it is dominated by carbonate rocks—dolostone and limestone. Chemically, these carbonate

13. **Is groundwater blended with surface water?**

☐ Yes ■ No Reference(s)

Briefly describe:

14. **Distance from any incompletely contained source available to groundwater to nearest drinking water** (HRS Section 3.3.1): NA feet Reference(s)

15. **Briefly describe standby drinking water wells within 4 miles of sources at the site:**

During the file search for the PSA Task I Investigation in 1990, it was reported that there may be some use of wells in the Town of DeWitt, but that they would be in the southeast corner of the town, upgradient from the site. Reference(s) 1

16. **Using Table GW-2, summarize groundwater analytical results for all sampling investigations.** Include and identify background water sample results.

17.* **Groundwater resources within 4 miles of site sources** (HRS Section 3.3.3):

- ☐ Irrigation (5-acre minimum) of commercial food or commercial forage crops
- ☐ Commercial livestock watering
- ☐ Ingredient in commercial food preparation
- ☐ Supply for commercial aquaculture
- ☐ Supply for major or designated water recreation area, excluding drinking water use
- ■ Water usable for drinking water but no drinking water wells are within 4 miles
- ☐ None of the above

Reference(s) 1

18. **Wellhead protection area (WHPA) within 4 miles of site sources** (HRA Section 3.3.4):

- ☐ Source with non-zero containment factor value lies within or above WHPA
- ☐ Observed groundwater contamination attributable to site source(s) lies within WHPA
- ☐ WHPA lies within 4 miles of site sources
- ■ None

References(s) 1

**Additional groundwater pathway description:**

Reference(s) 3

## TABLE GW-2: ANALYTICAL RESULTS FOR GROUNDWATER PATHWAY

| SAMPLE ID & DATE | TYPE OF WELL | SCREENED INTERVAL | HAZARDOUS SUBSTANCE | CONCENTRATION (SPECIFY UNITS) | DETECTION LIMIT | REFERENCES |
|---|---|---|---|---|---|---|
| NA | Irrigation □ Monitoring<br>□ Drinking water<br>People served _____<br>□ Other _____ | | | | | |
| | □ Irrigation □ Monitoring<br>□ Drinking water<br>People served _____<br>□ Other _____ | | | | | |
| | Irrigation □ Monitoring<br>□ Drinking water<br>People served _____<br>□ Other _____ | | | | | |
| | Irrigation □ Monitoring<br>□ Drinking water<br>People served _____<br>□ Other _____ | | | | | |
| | Irrigation □ Monitoring<br>□ Drinking water<br>People served _____<br>□ Other _____ | | | | | |
| | Irrigation □ Monitoring<br>□ Drinking water<br>People served _____<br>□ Other _____ | | | | | |
| | Irrigation □ Monitoring<br>□ Drinking water<br>People served _____<br>□ Other _____ | | | | | |
| | Irrigation □ Monitoring<br>□ Drinking water<br>People served _____<br>□ Other _____ | | | | | |

# SURFACE WATER INFORMATION

**Complete this section of the data summary for each watershed if there are multiple watersheds. Photocopy this page if necessary.**

1. **Describe surface water migration path from site sources to at least 15 miles downstream.** Attach a sketch of the surface water migration route.

Surface water runoff from the site which is not intercepted by storm sewers enters the South Branch of Ley Creek to the east of the site. The S.Branch of Ley Creek joins the North branch north of the site. Ley Creek then flows to the west where it enters Onondaga Lake. Water from Onondaga Lake leaves through the Onondaga Lake Outlet and enters the Seneca River which flows north into the Oswego River which in turn flows north into Lake Ontario. Reference(s) USGS Topographic Maps

2. **Is surface water contaminated?**
   ☐ Yes ☐ No ☐ Uncertain but likely ■ Uncertain but not likely ☐ Additional sampling required
   Is analytical evidence available? ☐ Yes ■ No Reference(s)_____

3. **Is surface water contamination attributable to the site?**
   ☐ Yes ■ No ☐ Additional sampling required Reference(s)_____

4. **Floodplain category in which site sources are located** (check all that apply):
   ☐ 1-year ■ 10-year ■ 100-year ☐ 500-year ☐ None Reference(s)_____

5. **Describe flood containment for each source** (HRS Section 4.1.2.1.2.2):

| | | | |
|---|---|---|---|
| Source #1 | NA | Flood containment | |
| Source #2 | | Flood containment | |
| Source #3 | | Flood containment | |
| Source # | | Flood containment | |
| Source # | | Flood containment | |
| Source # | | Flood containment | |

Reference(s) _____

6. **Shortest overland distance to surface water from any source** (HRS Section 4.1.2.1.2.1.3):
   1,000 feet Reference(s)_____

7. **Size of drainage area** (HRS Section 4.4.3): ____ Acres Reference(s)_____

SI Data Summary Site Name Valenite

**8.* Describe predominant soil group within the drainage area** (HRS Section 4.1.2.1.2.1.2).

Reference(s)

**9. *2-year 24-hour rainfall** (HRS Section 4.1.2.1.2.1.2)

_____ inches Reference(s)

**10. *Elevation of the bottom of nearest surface water body:**

390 feet above sea level Reference(s)

**11. *Elevation of top of uppermost aquifer:**

unknown feet above sea level Reference(s)

**12. Predominant type of water body between probable point of entry to surface water and nearest drinking water intake:**

■ River □ Lake Reference(s)

**13. Identify all drinking water intakes, fisheries, and sensitive environments within 15 miles downstream.**

| TARGET NAME/TYPE | WATER BODY TYPE | DISTANCE FROM PPE | FLOW (CFS) | TARGET CHARACTERISTICS[1] | TARGET SAMPLED? |
|---|---|---|---|---|---|
| Wetland SYE 29 | Wetland | 1,000' | <10 | 1,000' | No |
| Wetland SYE 6 | Wetland | 2,000' | <10 | 2,000' | No |
| Wetland SYW 12 | Wetland | 3 miles | <10 | 5,500' | No |
| | | | | | |
| | | | | | |
| | | | | | |

[1] If target is a drinking water intake, provide number of people served by intake.
If target is a fishery, provide species and annual production of human food chain organisms (pounds per year).
If target is a wetland, specify wetland frontage (in miles). Attach calculation pages.

Reference(s) 4

**14. Is surface water drinking water blended prior to distribution?**

□ Yes ■ No Reference(s) 8

The Syracuse water Department reports that the water supply for the area is either from Skaneateles Lake or from Lake Ontario.

J:\35245.07\WP\valform\psr
11/16/94:11:17

15. **Describe any standby drinking water intakes within 15 miles downstream.**

NA

Reference(s)

16. ***Surface water resources within 15 miles downstream** (HRS Section 4.1.2.3.3):

- ☐ Irrigation (5-acre minimum) of commercial food or commercial storage crops
- ☐ Commercial livestock watering
- ☐ Ingredient in commercial food preparation
- ■ Major or designated water recreation area, excluding drinking water use
- ☐ Water designated by the state for drinking water use but is not currently used.
- ■ Water usable for drinking water but no drinking water intakes within 15 miles downstream
- ☐ None of the above

Reference(s)

17. **Using Table SW-1, summarize surface water analytical results for all sampling investigations.** Include and identify background sample results.

## TABLE SW-1: SUMMARY OF ANALYTICAL RESULTS FOR SURFACE WATER PATHWAY

| SAMPLE ID & DATE | SAMPLE TYPE | SAMPLE OBJECTIVE | TARGET DATE | HAZARDOUS SUBSTANCE | CONCENTRATION (SPECIFY UNITS) | DETECTION LIMIT | REFERENCES |
|---|---|---|---|---|---|---|---|
| NA | ☐ Aqueous<br>☐ Sediment<br>☐ Other | ☐ Release ☐ Fishery<br>☐ Drinking water<br>☐ Sensitive environment<br>Distance from PPE | | | | | |
| | ☐ Aqueous<br>☐ Sediment<br>☐ Other | ☐ Release ☐ Fishery<br>☐ Drinking water<br>☐ Sensitive environment<br>Distance from PPE | | | | | |
| | ☐ Aqueous<br>☐ Sediment<br>☐ Other | ☐ Release ☐ Fishery<br>☐ Drinking water<br>☐ Sensitive environment<br>Distance from PPE | | | | | |
| | ☐ Aqueous<br>☐ Sediment<br>☐ Other | ☐ Release ☐ Fishery<br>☐ Drinking water<br>☐ Sensitive environment<br>Distance from PPE | | | | | |
| | ☐ Aqueous<br>☐ Sediment<br>☐ Other | ☐ Release ☐ Fishery<br>☐ Drinking water<br>☐ Sensitive environment<br>Distance from PPE | | | | | |
| | ☐ Aqueous<br>☐ Sediment<br>☐ Other | ☐ Release ☐ Fishery<br>☐ Drinking water<br>☐ Sensitive environment<br>Distance from PPE | | | | | |
| | ☐ Aqueous<br>☐ Sediment<br>☐ Other | ☐ Release ☐ Fishery<br>☐ Drinking water<br>☐ Sensitive environment<br>Distance from PPE | | | | | |
| | ☐ Aqueous<br>☐ Sediment<br>☐ Other | ☐ Release ☐ Fishery<br>☐ Drinking water<br>☐ Sensitive environment<br>Distance from PPE | | | | | |
| | ☐ Aqueous<br>☐ Sediment<br>☐ Other | ☐ Release ☐ Fishery<br>☐ Drinking water<br>☐ Sensitive environment<br>Distance from PPE | | | | | |

# SOIL INFORMATION

1. **Is surficial soil or contamination present at the site?**
   ■ Yes □ No □ Uncertain but likely □ Unlikely but not likely
   □ Additional sampling required
   Is analytical evidence available? ■ Yes □ No Reference(s)_____

2. **Is surficial or soil contamination attributable to the site?**
   ■ Yes □ No □ Additional sampling required

3. **Is surficial contamination on the property and within 200 feet of a residence, school, daycare center, or workplace?**
   ■ Yes □ No □ Uncertain but likely □ Uncertain but not likely
   □ Additional sampling required
   Is analytical evidence available? □ Yes □ No Reference(s)_____

4. ***Total area of surficial contamination** (HRS Section 5.2.1.2)
   ±20,000 square feet Reference(s)_____

5. ***Attractiveness/accessibility of the areas of observed contamination** (HRS Section 5.2.1.1).
   Check all that apply:

   □ Designated recreational area
   □ Used regularly, or accessible and unique recreational area
   ■ Moderately accessible with some use
   □ Slightly accessible with some use
   □ Accessible with no use
   □ Inaccessible with some use
   □ Inaccessible with no use
   Reference(s) _____

6. **Using Table SE-1, summarize analytical results detecting surficial contamination within 200 feet of a residence, school daycare center, or workplace.** Include and identify background sample results.

7. **Using Table SE-2, summarize analytical results detecting surficial contamination within the boundary of a resource or a terrestrial sensitive environment.** Include and identify background sample results if not listed in Table SE-1.

8. **Population within 1-mile travel distance from site.** Do not include populations from Table SE-1.

| DISTANCE FROM SITE SOURCES | POPULATION |
|---|---|
| 1/4 mile or less | 162 |
| > 1/4 to 1/2 mile | 488 |
| > 1/2 to 1 mile | 1950 |

Reference(s) 1

## TABLE SE-1: ANALYTICAL RESULTS FOR SOIL EXPOSURE PATHWAY

| SAMPLE ID & DATE | SAMPLE DEPTH | TYPE OF PROPERTY | POPULATION | HAZARDOUS SUBSTANCE | CONCENTRATION (SPECIFY UNITS) | DETECTION LIMIT | REFERENCES |
|---|---|---|---|---|---|---|---|
| **SS-1** | **0-1'** | □ Residence □ School<br>□ Daycare center<br>■ Workplace | | See Table 3-1 in text | | | |
| SS-2 | **0-1'** | □ Residence □ School<br>□ Daycare center<br>■ Workplace | | See Table 3-1 in text | | | |
| SS-3 | **0-1'** | □ Residence □ School<br>□ Daycare center<br>■ Workplace | | See Table 3-1 in text | | | |
| SS-4 | 0-1' | □ Residence □ School<br>□ Daycare center<br>■ Workplace | | See Table 3-1 in text | | | |
| SS-5 | 0-1' | □ Residence □ School<br>□ Daycare center<br>■ Workplace | | See Table 3-1 in text | | | |
| SS-6 | 0-1' | □ Residence □ School<br>□ Daycare center<br>■ Workplace | | See Table 3-1 in text | | | |
| | | □ Residence □ School<br>□ Daycare center<br>□ Workplace | | | | | |
| | | □ Residence □ School<br>□ Daycare center<br>□ Workplace | | | | | |

## TABLE SE-2: ANALYTICAL RESULTS FOR SOIL EXPOSURE PATHWAY

| SAMPLE ID & DATE | SAMPLE DEPTH | TYPE OF TARGET | HAZARDOUS SUBSTANCE | CONCENTRATION (SPECIFY UNITS) | DETECTION LIMIT | REFERENCES |
|---|---|---|---|---|---|---|
| NA | | ☐ Terrestial sensitive environment<br>_____<br>☐ Resources*<br>☐ Commercial agriculture<br>☐ Commercial silviculture<br>☐ Commercial livestock production or grazing | | | | |
| | | ☐ Terrestial sensitive environment<br>_____<br>☐ Resources*<br>☐ Commercial agriculture<br>☐ Commercial silviculture<br>☐ Commercial livestock production or grazing | | | | |
| | | ☐ Terrestial sensitive environment<br>_____<br>☐ Resources*<br>☐ Commercial agriculture<br>☐ Commercial silviculture<br>☐ Commercial livestock production or grazing | | | | |
| | | ☐ Terrestial sensitive environment<br>_____<br>☐ Resources*<br>☐ Commercial agriculture<br>☐ Commercial silviculture<br>☐ Commercial livestock production or grazing | | | | |

# AIR INFORMATION

1. Is air contamination present at the site?
☐ Yes ■ No ☐ Uncertain but likely ☐ Uncertain but not likely

■ Additional sampling required
Is analytical evidence available? ☐ Yes ■ No Reference(s)_____

2. Is air contamination attributable to the site?
☐ Yes ■ No ☐ Addtional sampling required

3. Are populations, sensitive environments, or wetlands exposed to airborne hazardous substances released from the site?
☐ Yes ☐ No ☐ Uncertain but likely ■ Uncertain but not likely
☐ Additional sampling required
Is analytical evidence available? ☐ Yes ■ No Reference(s)__1_____

4. Evidence of biogas release from any of the following source types at the site:
☐ Below-ground containers or tanks ☐ Landfill ☐ Buried surface impoundment
Reference(s) _____

5.* Particulate migration potential factor value: NA____ (HRS Figure 6-2)

6.* Particulate mobility factor value: _NA_____ (HRS Figure 6-3)

7. Distance from any incompletely contained source to nearest residence or regularly occupied area:
_____ miles Reference(s) _____

8. Population within 4 miles of site sources.

| DISTANCE FROM SITE SOURCES | POPULATION |
|---|---|
| 0 (within site sources) | NA |
| 1/4 mile or less | |
| >1/4 to 1/2 mile | |
| >1/2 to 1 mile | |
| >1 to 2 miles | |
| >2 to 3 miles | |
| >3 to 4 miles | |

Reference(s)_____

9.* Resources within 1/2 mile of site sources (HRS Section 6.3.3):
☐ Commercial agriculture
☐ Commercial silviculture
☐ Major or designated recreation area
■ None of the above
Reference(s) ___1_____

**10. Sensitive environments and wetlands within 4 miles of the site.**

| NAME/DESCRIPTION/ LOCATION OF SENSITIVE ENVIRONMENT OR WETLAND | DISTANCE FROM SITE (MILES) | TYPE OF SENSITIVE ENVIRONMENT | WETLAND SIZE (ACRES) |
|---|---|---|---|
| Wetland SYE-6 | 0.5 | Wetland | NA |
| Wetland SYE-29 | 0.38 | Wetland | NA |
| Wetland SYW-12 | 3.0 | Wetland | NA |
| | | | |
| | | | |
| | | | |
| | | | |

References: NYSDEC Freshwater Wetlands Maps, Syracuse East and Syracuse West

**11. Using Table Air-1, summarize air analytical results for all sampling investigations.** Include and identify background sample results.

NA

## ADDITIONAL INFORMATION AND COMMENTS

Reference(s) _____

## 5. Description of removal or remedial activities

If a removal has occurred, identify the removal authority and describe the activities. Specify the date(s) of the removal.

Reference(s) _____

## TABLE AIR-1: SUMMARY OF ANALYTICAL RESULTS FOR AIR PATHWAY

| SAMPLE ID & DATE | SAMPLE TYPE | DISTANCE FROM SITE (MILES) | TARGET(S) WITHIN DISTANCE CATEGORY | HAZARDOUS SUBSTANCE | CONCENTRATION (SPECIFY UNITS) | DETECTION LIMIT | REFERENCES |
|---|---|---|---|---|---|---|---|
| NA | | | ☐Number of people___<br>☐Name of sens. environment_____<br>☐Wetland acreage_____ | | | | |
| | | | ☐Number of people___<br>☐Name of sens. environment_____<br>☐Wetland acreage_____ | | | | |
| | | | ☐Number of people___<br>☐Name of sens. environment_____<br>☐Wetland acreage_____ | | | | |
| | | | ☐Number of people___<br>☐Name of sens. environment_____<br>☐Wetland acreage_____ | | | | |
| | | | ☐Number of people___<br>☐Name of sens. environment_____<br>☐Wetland acreage_____ | | | | |

## SI Summary References


1. URS Consultants, Inc., 1991. Preliminary Site Assessment, Task 1: Data Records Search and Assessment at the Valenite Site, Site No. 734023, DeWitt (t), Onondaga (c), New York

2. URS Consultants, Inc., 1994. Analytical Results of Field Sampling Program at the Valenite Site. Appendix B.

3. NYSDOH, 1982. Atlas of Community Water Systems.

4. NYSDEC, 1986. Freshwater Wetlands Maps for the Syracuse East and Syracuse West Quadrangles.

# DATA USABILITY SUMMARY

## EXPLANATION OF VALIDATION QUALIFIERS

The following provide definitions of the validation qualifiers assigned to results during the data review process.

**U** - The analyte was analyzed for but was not detected.

**J** - Indicates an estimated concentration because results are either below the sample quantitation limit or quality control criteria was not met.

**N** - Indicates presumptive evidence at a compound.

**B** - The compound was detected in the associated method blank, but the concentration is either five or ten times greater than the concentration of the associated method blank. The ten times rule applies to common laboratory contaminants (i.e., methylene chloride, acetone, 2-butanone, toluene and phthalates). The five times rule applies to all other organic chemicals.

***** - The compound was detected, but was determined unusable due to contamination in the associated QC blank.

**+** - Correlation coefficient for the MSA is less than 0.995 .

**S** - The reported value was determined by the Method of Standard Additions (MSA).

**D** - The reported concentration was determined by a secondary dilution.

**[ ]** - The sample result is less than the contract required detection limit but greater than or equal to the instrument detection limit.

**E** - The reported result reported exceeds the linear range of calibration.

**RE** - The sample was reanalyzed due to quality control outliers.

# APPENDIX B
# VALENITE SITE
# PRELIMINARY SITE ASSESSMENT
# VALIDATION SUMMARY TABLE
# VOLATILE RESULTS

| Sample ID | | SS-1 | SS-4 | SS-5 |
|---|---|---|---|---|
| Date Collected | | 08/15/94 | 08/15/94 | 08/15/94 |
| Date Received | | 08/16/94 | 08/16/94 | 08/16/94 |
| Date Analyzed | | 08/19/94 | 08/19/94 | 08/19/94 |
| % Moisture | | 11 | 8 | 21 |
| Dilution Factor | | 1.0 | 1.0 | 1.0 |
| Matrix | | Surface Soil | Surface Soil | Surface Soil |
| Parameters | Type | | | |
| Chloromethane | VOA | 11 U | 11 U | 13 U |
| Bromomethane | VOA | 11 U | 11 U | 13 U |
| Vinyl Chloride | VOA | 11 U | 11 U | 13 U |
| Chloroethane | VOA | 11 U | 11 U | 13 U |
| Methylene Chloride | VOA | 11 U* | 15 U* | 81 U* |
| Acetone | VOA | 20 U* | 11 U | 9 U* |
| Carbon Disulfide | VOA | 11 U | 11 U | 13 U |
| 1,1-Dichloroethene | VOA | 11 U | 11 U | 13 U |
| 1,1-Dichloroethane | VOA | 11 U | 11 U | 13 U |
| 1,2-Dichloroethene (Total) | VOA | 11 U | 11 U | 13 U |
| Chloroform | VOA | 11 U | 11 U | 13 U |
| 1,2-Dichloroethane | VOA | 11 U | 11 U | 13 U |
| 2-Butanone | VOA | 11 U | 11 U | 13 U |
| 1,1,1-Trichloroethane | VOA | 11 U | 11 U | 13 U |
| Carbon Tetrachloride | VOA | 11 U | 11 U | 13 U |
| Bromodichloromethane | VOA | 11 U | 11 U | 13 U |
| 1,2-Dichloropropane | VOA | 11 U | 11 U | 13 U |
| cis-1,3-Dichloropropene | VOA | 11 U | 11 U | 13 U |
| Trichloroethene | VOA | 11 U | 11 U | 13 U |
| Dibromochloromethane | VOA | 11 U | 11 U | 13 U |
| 1,1,2-Trichloroethane | VOA | 11 U | 11 U | 13 U |
| Benzene | VOA | 11 U | 11 U | 13 U |
| trans-1,3-Dichloropropene | VOA | 11 U | 11 U | 13 U |
| Bromoform | VOA | 11 U | 11 U | 13 U |
| 4-Methyl-2-Pentanone | VOA | 11 U | 11 U | 13 U |
| 2-Hexanone | VOA | 11 U | 11 U | 13 U |
| Tetrachloroethene | VOA | 11 U | 11 U | 13 U |
| 1,1,2,2-Tetrachloroethane | VOA | 11 U | 11 U | 13 U |
| Toluene | VOA | 11 U | 11 U | 13 U |
| Chlorobenzene | VOA | 11 U | 11 U | 13 U |
| Ethylbenzene | VOA | 11 U | 11 U | 13 U |
| Styrene | VOA | 11 U | 11 U | 13 U |
| Xylene (Total) | VOA | 11 U | 11 U | 13 U |
| Associated Method Blank | VOA | VBLKS19A | VBLKS19A | VBLKS19A |

All results reported in ug/kg.

# APPENDIX B
# VALENITE SITE
# PRELIMINARY SITE ASSESSMENT
# VALIDATION SUMMARY TABLE
# SEMIVOLATILE RESULTS

| Sample ID | | SS-1 | SS-4 | SS-5 | SS-5 RE |
|---|---|---|---|---|---|
| Date Collected | | 08/15/94 | 08/15/94 | 08/15/94 | 08/15/94 |
| Date Received | | 08/16/94 | 08/16/94 | 08/16/94 | 08/16/94 |
| Date Analyzed | | 09/03/94 | 09/01/94 | 09/01/94 | 09/01/94 |
| % Moisture | | 11 | 8 | 21 | 21 |
| Dilution Factor | | 2.0 | 10.0 | 1.0 | 1.0 |
| Matrix | | Surface Soil | Surface Soil | Surface Soil | Surface Soil |
| Parameters | Type | | | | |
| Phenol | SVOA | 750 U | 3600 U | 420 U | 420 U |
| bis(2-Chloroethyl)ether | SVOA | 750 U | 3600 U | 420 U | 420 U |
| 2-Chlorophenol | SVOA | 750 U | 3600 U | 420 U | 420 U |
| 1,3-Dichlorobenzene | SVOA | 750 U | 3600 U | 420 U | 420 U |
| 1,4-Dichlorobenzene | SVOA | 750 U | 3600 U | 420 U | 420 U |
| 1,2-Dichlorobenzene | SVOA | 750 U | 3600 U | 420 U | 420 U |
| 2-Methylphenol | SVOA | 750 U | 3600 U | 420 U | 420 U |
| 2,2'-oxybis(1-Chloropropane) | SVOA | 750 U | 3600 U | 420 U | 420 U |
| 4-Methylphenol | SVOA | 750 U | 3600 U | 420 U | 420 U |
| N-nitroso-di-n-propylamine | SVOA | 750 U | 3600 U | 420 U | 420 U |
| Hexachloroethane | SVOA | 750 U | 3600 U | 420 U | 420 U |
| Nitrobenzene | SVOA | 750 U | 3600 U | 420 U | 420 U |
| Isophorone | SVOA | 750 U | 3600 U | 420 U | 420 U |
| 2-Nitrophenol | SVOA | 750 U | 3600 U | 420 U | 420 U |
| 2,4-Dimethylphenol | SVOA | 750 U | 3600 U | 420 U | 420 U |
| bis(2-Chloroethoxy)methane | SVOA | 750 U | 3600 U | 420 U | 420 U |
| 2,4-Dichlorophenol | SVOA | 750 U | 3600 U | 420 U | 420 U |
| 1,2,4-Trichlorobenzene | SVOA | 750 U | 3600 U | 420 U | 420 U |
| Naphthalene | SVOA | 100 J | 3600 U | 77 J | 78 J |
| 4-Chloroaniline | SVOA | 750 U | 3600 U | 420 U | 420 U |
| Hexachlorobutadiene | SVOA | 750 U | 3600 U | 420 U | 420 U |
| 4-Chloro-3-Methyphenol | SVOA | 750 U | 3600 U | 420 U | 420 U |
| 2-Methylnaphthalene | SVOA | 750 U | 3600 U | 59 J | 62 J |
| Hexachlorocyclopentadiene | SVOA | 750 U | 3600 U | 420 U | 420 U |
| 2,4,6-Trichlorophenol | SVOA | 750 U | 3600 U | 420 U | 420 U |
| 2,4,5-Trichlorophenol | SVOA | 1900 U | 9100 U | 1100 U | 1100 U |
| 2-Chloronaphthalene | SVOA | 750 U | 3600 U | 420 U | 420 U |
| 2-Nitroaniline | SVOA | 1900 U | 9100 U | 1100 U | 1100 U |
| Dimethylphthalate | SVOA | 750 U | 3600 U | 420 U | 420 U |
| Acenaphthylene | SVOA | 750 U | 3600 U | 33 J | 420 U |
| 2,6-Dinitrotoluene | SVOA | 750 U | 3600 U | 420 U | 420 U |
| 3-Nitroaniline | SVOA | 1900 U | 9100 U | 1100 U | 1100 U |
| Acenaphthene | SVOA | 420 J | 560 J | 330 J | 340 J |
| 2,4-Dinitrophenol | SVOA | 1900 U | 9100 U | 1100 U | 1100 U |
| 4-Nitrophenol | SVOA | 1900 U | 9100 U | 1100 U | 1100 U |
| Dibenzofuran | SVOA | 160 J | 410 J | 160 J | 170 J |
| 2,4-Dinitrotoluene | SVOA | 750 U | 3600 U | 420 U | 420 U |
| Diethylphthalate | SVOA | 750 U | 3600 U | 420 U | 420 U |
| 4-Chlorophenyl-phenylether | SVOA | 750 U | 3600 U | 420 U | 420 U |
| Fluorene | SVOA | 290 J | 850 J | 260 J | 280 J |
| 4-Nitroaniline | SVOA | 1900 U | 9100 U | 1100 U | 1100 U |
| 4,6-Dinitro-2-Methyphenol | SVOA | 1900 U | 9100 U | 1100 U | 1100 U |
| N-Nitrosodiphenylamine | SVOA | 750 U | 3600 U | 420 U | 420 U |
| 4-Bromophenyl-phenylether | SVOA | 750 U | 3600 U | 420 U | 420 U |
| Hexachlorobenzene | SVOA | 750 U | 3600 U | 420 U | 420 U |
| Associated Method Blank | SVOA | SBLKS173 | SBLKS173 | SBLKS173 | SBLKS173 |

All results reported in ug/kg.

# APPENDIX B
# VALENITE SITE
# PRELIMINARY SITE ASSESSMENT
# VALIDATION SUMMARY TABLE
# SEMIVOLATILE RESULTS

| Sample ID | | SS-1 | SS-4 | SS-5 | SS-5 RE |
|---|---|---|---|---|---|
| Date Collected | | 08/15/94 | 08/15/94 | 08/15/94 | 08/15/94 |
| Date Received | | 08/16/94 | 08/16/94 | 08/16/94 | 08/16/94 |
| Date Analyzed | | 09/03/94 | 09/01/94 | 09/01/94 | 09/01/94 |
| % Moisture | | 11 | 8 | 21 | 21 |
| Dilution Factor | | 2.0 | 10.0 | 1.0 | 1.0 |
| Matrix | | Surface Soil | Surface Soil | Surface Soil | Surface Soil |
| Parameters | Type | | | | |
| Pentachlorophenol | SVOA | 1900 U | 9100 U | 1100 U | 1100 U |
| Phenanthrene | SVOA | 3100 | 14000 | 2900 | 2600 |
| Anthracene | SVOA | 690 J | 2400 J | 270 J | 350 J |
| Carbazole | SVOA | 480 J | 2500 J | 490 | 470 |
| Di-n-butylphthalate | SVOA | 250 J | 3600 U | 89 J | 89 J |
| Fluoranthene | SVOA | 3400 | 28000 | 3000 | 2900 |
| Pyrene | SVOA | 5000 | 23000 | 3200 | 3600 E |
| Butylbenzylphthalate | SVOA | 750 U | 3600 U | 59 J | 35 J |
| 3,3'-Dichlorobenzidine | SVOA | 750 U | 3600 U | 420 U | 420 U |
| Benzo(a)anthracene | SVOA | 4500 | 13000 | 1800 | 1500 |
| Chrysene | SVOA | 4400 | 14000 | 950 | 1100 |
| bis(2-Ethylhexyl)phthalate | SVOA | 290 J | 440 J | 740 | 690 |
| Di-n-octylphthalate | SVOA | 750 U | 3600 U | 420 U | 420 U |
| Benzo(b)fluoranthene | SVOA | 2000 | 16000 | 2100 | 2200 |
| Benzo(k)fluoranthene | SVOA | 1900 | 17000 | 1500 | 1200 |
| Benzo(a)pyrene | SVOA | 3600 | 13000 | 1000 | 930 |
| Indeno(1,2,3-cd)pyrene | SVOA | 840 | 3300 J | 320 J | 480 |
| Dibenz(a,h)anthracene | SVOA | 160 J | 1300 J | 110 J | 190 J |
| Benzo(g,h,i)perylene | SVOA | 680 J | 3100 J | 280 J | 510 |
| Associated Method Blank | SVOA | SBLKS173 | SBLKS173 | SBLKS173 | SBLKS173 |

All results reported in ug/kg.

# APPENDIX B
# VALENITE SITE
# PRELIMINARY SITE ASSESSMENT
# VALIDATION SUMMARY TABLE
# PESTICIDE/PCB RESULTS

| Sample ID | | SS-1 | SS-4 | SS-5 |
|---|---|---|---|---|
| Date Collected | | 08/15/94 | 08/15/94 | 08/15/94 |
| Date Received | | 08/16/94 | 08/16/94 | 08/16/94 |
| Date Analyzed | | 08/19/94 | 08/19/94 | 08/19/94 |
| % Moisture | | 11 | 8 | 21 |
| Dilution Factor | | 1.0/3.0 | 1.0/1.0 | 1.0/1.0 |
| Matrix | | Surface Soil | Surface Soil | Surface Soil |
| **Parameters** | **Type** | | | |
| alpha-BHC | PEST | 1.9 UJ | 1.8 UJ | 2.1 UJ |
| beta-BHC | PEST | 1.9 UJ | 1.8 UJ | 2.1 UJ |
| delta-BHC | PEST | 2 JN | 1.8 UJ | 2.1 UJ |
| gamma-BHC (Lindane) | PEST | 0.96 JN | 1.6 JN | 2.1 UJ |
| Heptachlor | PEST | 1.9 UJ | 2.9 JN | 0.93 JN |
| Aldrin | PEST | 1.9 UJ | 1.8 UJ | 2.1 UJ |
| Heptachlor Epoxide | PEST | 1.9 UJ | 1.7 JN | 2.1 UJ |
| Endosulfan I | PEST | 3.4 JN | 1.2 JN | 1.1 JN |
| Dieldrin | PEST | 19 JN | 15 JN | 24 JN |
| 4,4'-DDE | PEST | 18 JN | 3.1 JN | 4.4 JN |
| Endrin | PEST | 24 JN | 28 JN | 30 JN |
| Endosulfan II | PEST | 18 JN | 31 JN | 19 JN |
| 4,4'-DDD | PEST | 11 JN | 3.6 UJ | 4.2 UJ |
| Endosulfan Sulfate | PEST | 3.7 UJ | 3.6 UJ | 4.2 UJ |
| 4,4'-DDT | PEST | 26 JN | 16 JN | 4.2 UJ |
| Methoxychlor | PEST | 19 UJ | 18 UJ | 21 UJ |
| Endrin Ketone | PEST | 3.7 UJ | 3.6 UJ | 4.2 UJ |
| Endrin Aldehyde | PEST | 17 JN | 3.6 UJ | 33 JN |
| alpha-Chlordane | PEST | 14 JN | 1.2 JN | 5.9 JN |
| gamma-Chlordane | PEST | 6.1 JN | 1.8 UJ | 4.3 JN |
| Toxaphene | PEST | 190 UJ | 180 UJ | 210 UJ |
| Aroclor-1016 | PCB | 110 UJ | 36 UJ | 42 UJ |
| Aroclor-1221 | PCB | 220 UJ | 71 UJ | 84 UJ |
| Aroclor-1232 | PCB | 110 UJ | 36 UJ | 42 UJ |
| Aroclor-1242 | PCB | 110 UJ | 36 UJ | 42 UJ |
| Aroclor-1248 | PCB | 110 UJ | 36 UJ | 42 UJ |
| Aroclor-1254 | PCB | 800 UJ | 83 JN | 370 J |
| Aroclor-1260 | PCB | 570 UJ | 81 JN | 280 JN |
| Associated Method Blank | | PBLK817 | PBLK817 | PBLK817 |

All results reported in ug/kg.

# APPENDIX B
# VALENITE SITE
# PRELIMINARY SITE ASSESSMENT
# VALIDATION SUMMARY TABLE
# INORGANIC RESULTS

| Sample ID | | SS-1 | SS-2 | SS-3 | SS-4 | SS-5 | SS-6 |
|---|---|---|---|---|---|---|---|
| Date Collected | | 08/15/94 | 08/15/94 | 08/15/94 | 08/15/94 | 08/15/94 | 08/15/94 |
| Date Received | | 08/16/94 | 08/16/94 | 08/16/94 | 08/16/94 | 08/16/94 | 08/16/94 |
| Matrix | | Surface Soil | Surface Soil | Surface Soil | Surface Soil | Surface Soil | Surface Soil |
| Parameters | Type | | | | | | |
| Aluminum | Metal | 4230 | 5060 | 3590 | 3600 | 9080 | 10100 |
| Antimony | Metal | 10.30 UJ | 11.40 UJ | 10.50 UJ | 10.90 UJ | 12.80 J | 11.60 UJ |
| Arsenic | Metal | 1.70 □J | 2.40 J | 2.90 J | 39.90 +J | 49 SJ | 3.80 J |
| Barium | Metal | 77.90 | 123 | 69.50 | 54.30 | 71 | 42.80 |
| Beryllium | Metal | 0.19 U | 0.29 □ | 0.25 □ | 0.23 □ | 0.35 □ | 0.36 □ |
| Cadmium | Metal | 0.89 UJ | 0.98 UJ | 0.90 UJ | 0.94 UJ | 1.10 UJ | 1 UJ |
| Calcium | Metal | 76500 J | 84400 J | 77200 J | 174000 J | 60400 J | 26200 J |
| Chromium | Metal | 40.90 J | 51.50 J | 57.90 J | 30.20 J | 55.20 J | 15.40 J |
| Cobalt | Metal | 6670 J | 5200 J | 137 J | 216 J | 171 J | 16.20 J |
| Copper | Metal | 44.50 J | 99.20 J | 266 J | 50.40 J | 2120 J | 52.20 J |
| Iron | Metal | 10,000 | 12700 | 14400 | 20400 | 25200 | 15000 |
| Lead | Metal | 108 J | 77.70 J | 61.80 J | 44.20 J | 126 J | 32.10 J |
| Magnesium | Metal | 38200 J | 31600 J | 37600 J | 28800 J | 29300 J | 10900 J |
| Manganese | Metal | 244 | 301.00 | 275 J | 310 | 413 | 291 |
| Mercury | Metal | 0.74 | 0.67 | 0.38 | 0.28 | 0.59 | 0.35 |
| Nickel | Metal | 175 J | 133 J | 53.40 J | 27.50 J | 55.90 J | 16.90 J |
| Potassium | Metal | 879 □ | 1090 | 700 □ | 794 □ | 1270 | 952 □ |
| Selenium | Metal | 0.36 UJ | 0.39 UJ | 0.38 UJ | 0.38 UJ | 0.43 UJ | 0.39 UJ |
| Silver | Metal | 1.30 U | 1.50 □ | 1.30 U | 1.40 U | 1.60 U | 1.40 U |
| Sodium | Metal | 42.80 U | 214 □ | 43.60 U | 92.50 □ | 53.30 U | 48.30 U |
| Thallium | Metal | 0.40 UJ | 0.42 UJ | 0.42 UJ | 0.41 UJ | 0.47 UJ | 0.42 UJ |
| Vanadium | Metal | 13 | 15.90 | 13.10 | 11.70 | 22 | 15.90 |
| Zinc | Metal | 100 | 128 | 102 | 57.10 | 187 | 41.70 |
| Cyanide | Metal | 2.30 U | - | - | 2.30 U | 2.70 U | - |

All results reported in mg/kg.

# APPENDIX B
# VALENITE SITE
# PRELIMINARY SITE ASSESSMENT
# VALIDATION SUMMARY TABLE
# EPTOX RESULTS

| Sample ID | | SS-1 | SS-2 | SS-3 | SS-4 | SS-5 | SS-6 |
|---|---|---|---|---|---|---|---|
| Date Collected | | 08/15/94 | 08/15/94 | 08/15/94 | 08/15/94 | 08/15/94 | 08/15/94 |
| Date Received | | 08/16/94 | 08/16/94 | 08/16/94 | 08/16/94 | 08/16/94 | 08/16/94 |
| Matrix | | Surface Soils | Surface Soils | Surface Soils | Surface Soils | Surface Soils | Surface Soils |
| Parameters | Type | | | | | | |
| Gamma-BHC (Lindane) | PEST | 0.050 UJ | 0.027 JN | 0.050 UJ | 0.050 UJ | 0.050 UJ | 0.050 UJ |
| Endrin | PEST | 0.10 UJ | 0.10 UJ | 0.10 UJ | 0.10 UJ | 0.10 UJ | 0.10 UJ |
| Methoxychlor | PEST | 0.50 UJ | 0.50 UJ | 0.50 UJ | 0.50 UJ | 0.50 UJ | 0.50 UJ |
| Toxaphene | PEST | 5.0 UJ | 5.0 UJ | 5.0 UJ | 5.0 UJ | 5.0 UJ | 5.0 UJ |
| 2,4-D | HERB | 1.0 UJ | 1.0 UJ | 1.0 UJ | 1.0 UJ | 1.0 UJ | 1.0 UJ |
| 2,3,5-TP (Silvex) | HERB | 0.2 UJ | 0.2 UJ | 0.2 UJ | 0.2 UJ | 0.2 UJ | 0.2 UJ |
| Arsenic | Metal | 131 J | 97.3 UJ | 161 J | 97.3 UJ | 191 J | 97.3 UJ |
| Barium | Metal | 1200 | 818 | 696 | 545 | 699 | 455 |
| Cadmium | Metal | 31.7 J | 14.9 J | 9.4 J | 5 UJ | 8.3 J | 5 UJ |
| Chromium | Metal | 6.70 UJ | 6.70 J | 6.7 UJ | 6.70 UJ | 15.6 J | 6.70 UJ |
| Lead | Metal | 55.9 U | 58.2 | 55.9 U | 55.9 U | 55.9 U | 55.9 U |
| Mercury | Metal | 1.10 J | 0.62 J | 1.30 J | 0.57 J | 0.78 J | 0.62 J |
| Selenium | Metal | 89.2 J | 104 J | 51.8 UJ | 51.8 UJ | 51.8 UJ | 82.1 J |
| Silver | Metal | 7.20 U | 7.20 U | 7.20 U | 17.90 | 7.20 U | 7.20 U |

All results reported in µg/l.

# APPENDIX B
# VALENITE SITE
# PRELIMINARY SITE ASSESSMENT
# VALIDATION SUMMARY TABLE
# VOLATILE METHOD BLANK RESULTS

| Sample ID | | VBLKS19A |
|---|---|---|
| Date Analyzed | | 08/19/94 |
| Dilution Factor | | 1.0 |
| Matrix | | Soil |
| **Parameters** | **Type** | |
| Chloromethane | VOA | 10 U |
| Bromomethane | VOA | 10 U |
| Vinyl Chloride | VOA | 10 U |
| Chloroethane | VOA | 10 U |
| Methylene Chloride | VOA | 12 |
| Acetone | VOA | 41 |
| Carbon Disulfide | VOA | 10 U |
| 1,1-Dichloroethene | VOA | 10 U |
| 1,1-Dichloroethane | VOA | 10 U |
| 1,2-Dichloroethene (Total) | VOA | 10 U |
| Chloroform | VOA | 10 U |
| 1,2-Dichloroethane | VOA | 10 U |
| 2-Butanone | VOA | 7 J |
| 1,1,1-Trichloroethane | VOA | 10 U |
| Carbon Tetrachloride | VOA | 10 U |
| Bromodichloromethane | VOA | 10 U |
| 1,2-Dichloropropane | VOA | 10 U |
| cis-1,3-Dichloropropene | VOA | 10 U |
| Trichloroethene | VOA | 10 U |
| Dibromochloromethane | VOA | 10 U |
| 1,1,2-Trichloroethane | VOA | 10 U |
| Benzene | VOA | 10 U |
| trans-1,3-Dichloropropene | VOA | 10 U |
| Bromoform | VOA | 10 U |
| 4-Methyl-2-Pentanone | VOA | 10 U |
| 2-Hexanone | VOA | 8 J |
| Tetrachloroethene | VOA | 10 U |
| 1,1,2,2-Tetrachloroethane | VOA | 1 J |
| Toluene | VOA | 10 U |
| Chlorobenzene | VOA | 10 U |
| Ethylbenzene | VOA | 10 U |
| Styrene | VOA | 10 U |
| Xylene (Total) | VOA | 10 U |

All results reported in ug/kg.

# APPENDIX B
# VALENITE SITE
# PRELIMINARY SITE ASSESSMENT
# VALIDATION SUMMARY TABLE
# SEMIVOLATILE METHOD BLANK RESULTS

| Sample ID | | SBLKS173 |
|---|---|---|
| Date Extracted | | 08/17/94 |
| Date Analyzed | | 08/31/94 |
| Dilution Factor | | 1.0 |
| Matrix | | Soil |
| **Parameters** | **Type** | |
| Phenol | SVOA | 330 U |
| bis(2-Chloroethyl)ether | SVOA | 330 U |
| 2-Chlorophenol | SVOA | 330 U |
| 1,3-Dichlorobenzene | SVOA | 330 U |
| 1,4-Dichlorobenzene | SVOA | 330 U |
| 1,2-Dichlorobenzene | SVOA | 330 U |
| 2-Methylphenol | SVOA | 330 U |
| 2,2'-oxybis(1-Chloropropane) | SVOA | 330 U |
| 4-Methylphenol | SVOA | 330 U |
| N-nitroso-di-n-propylamine | SVOA | 330 U |
| Hexachloroethane | SVOA | 330 U |
| Nitrobenzene | SVOA | 330 U |
| Isophorone | SVOA | 330 U |
| 2-Nitrophenol | SVOA | 330 U |
| 2,4-Dimethylphenol | SVOA | 330 U |
| bis(2-Chloroethoxy)methane | SVOA | 330 U |
| 2,4-Dichlorophenol | SVOA | 330 U |
| 1,2,4-Trichlorobenzene | SVOA | 330 U |
| Naphthalene | SVOA | 330 U |
| 4-Chloroaniline | SVOA | 330 U |
| Hexachlorobutadiene | SVOA | 330 U |
| 4-Chloro-3-Methyphenol | SVOA | 330 U |
| 2-Methylnaphthalene | SVOA | 330 U |
| Hexachlorocyclopentadiene | SVOA | 330 U |
| 2,4,6-Trichlorophenol | SVOA | 330 U |
| 2,4,5-Trichlorophenol | SVOA | 830 U |
| 2-Chloronaphthalene | SVOA | 330 U |
| 2-Nitroaniline | SVOA | 830 U |
| Dimethylphthalate | SVOA | 330 U |
| Acenaphthylene | SVOA | 330 U |
| 2,6-Dinitrotoluene | SVOA | 330 U |
| 3-Nitroaniline | SVOA | 830 U |
| Acenaphthene | SVOA | 330 U |
| 2,4-Dinitrophenol | SVOA | 830 U |
| 4-Nitrophenol | SVOA | 830 U |
| Dibenzofuran | SVOA | 330 U |
| 2,4-Dinitrotoluene | SVOA | 330 U |
| Diethylphthalate | SVOA | 330 U |
| 4-Chlorophenyl-phenylether | SVOA | 330 U |
| Fluorene | SVOA | 330 U |
| 4-Nitroaniline | SVOA | 830 U |
| 4,6-Dinitro-2-Methyphenol | SVOA | 830 U |
| N-Nitrosodiphenylamine | SVOA | 330 U |
| 4-Bromophenyl-phenylether | SVOA | 330 U |
| Hexachlorobenzene | SVOA | 330 U |

All results reported in ug/kg.

# APPENDIX B
# VALENITE SITE
# PRELIMINARY SITE ASSESSMENT
# VALIDATION SUMMARY TABLE
# SEMIVOLATILE METHOD BLANK RESULTS

| Sample ID | | SBLKS173 |
|---|---|---|
| Date Extracted | | 08/17/94 |
| Date Analyzed | | 08/31/94 |
| Dilution Factor | | 1.0 |
| Matrix | | Soil |
| **Parameters** | **Type** | |
| Pentachlorophenol | SVOA | 830 U |
| Phenanthrene | SVOA | 330 U |
| Anthracene | SVOA | 330 U |
| Carbazole | SVOA | 330 U |
| Di-n-butylphthalate | SVOA | 330 U |
| Fluoranthene | SVOA | 330 U |
| Pyrene | SVOA | 330 U |
| Butylbenzylphthalate | SVOA | 330 U |
| 3,3'-Dichlorobenzidine | SVOA | 330 U |
| Benzo(a)anthracene | SVOA | 330 U |
| Chrysene | SVOA | 330 U |
| bis(2-Ethylhexyl)phthalate | SVOA | 330 U |
| Di-n-octylphthalate | SVOA | 330 U |
| Benzo(b)fluoranthene | SVOA | 330 U |
| Benzo(k)fluoranthene | SVOA | 330 U |
| Benzo(a)pyrene | SVOA | 330 U |
| Indeno(1,2,3-cd)pyrene | SVOA | 330 U |
| Dibenz(a,h)anthracene | SVOA | 330 U |
| Benzo(g,h,i)perylene | SVOA | 330 U |

All results reported in ug/kg.

# APPENDIX B
# VALENITE SITE
# PRELIMINARY SITE ASSESSMENT
# VALIDATION SUMMARY TABLE
# PESTICIDE/PCB METHOD BLANK RESULTS

| Sample ID | | PBLK817 |
|---|---|---|
| Date Extracted | | 08/17/94 |
| Date Analyzed | | 08/22/94 |
| Dilution Factor | | 1 |
| Matrix | | Soil |
| Parameters | Type | |
| alpha-BHC | PEST | 1.7 U |
| beta-BHC | PEST | 1.7 U |
| delta-BHC | PEST | 1.7 U |
| gamma-BHC (Lindane) | PEST | 1.7 U |
| Heptachlor | PEST | 1.7 U |
| Aldrin | PEST | 1.7 U |
| Heptachlor Epoxide | PEST | 1.7 U |
| Endosulfan I | PEST | 1.7 U |
| Dieldrin | PEST | 3.3 U |
| 4,4'-DDE | PEST | 3.3 U |
| Endrin | PEST | 3.3 U |
| Endosulfan II | PEST | 3.3 U |
| 4,4'-DDD | PEST | 3.3 U |
| Endosulfan Sulfate | PEST | 3.3 U |
| 4,4'-DDT | PEST | 3.3 U |
| Methoxychlor | PEST | 17 U |
| Endrin Ketone | PEST | 3.3 U |
| Endrin Aldehyde | PEST | 3.3 U |
| alpha-Chlordane | PEST | 1.7 U |
| gamma-Chlordane | PEST | 1.7 U |
| Toxaphene | PEST | 170 U |
| Aroclor-1016 | PCB | 33 U |
| Aroclor-1221 | PCB | 67 U |
| Aroclor-1232 | PCB | 33 U |
| Aroclor-1242 | PCB | 33 U |
| Aroclor-1248 | PCB | 33 U |
| Aroclor-1254 | PCB | 33 U |
| Aroclor-1260 | PCB | 33 U |

All results reported in ug/kg.

# VALENITE SITE
# SUMMARY OF SCGs

| SURFACE SOIL | |
|---|---|
| **PARAMETERS** | **SCG[1] (UG/KG )** |
| Chloromethane | -- |
| Bromomethane | -- |
| Vinyl Chloride | 200 |
| Chloroethane | 1,900 |
| Methylene Chloride | 100 |
| Acetone | 200 |
| Carbon Disulfide | 2,700 |
| 1,1-Dichloroethene | 400 |
| 1,1-Dichloroethane | 200 |
| 1,2-Dichloroethene (Total) | 300 |
| Chloroform | 300 |
| 1,2-Dichloroethane | 100 |
| 2-Butanone | 300 |
| 1,1,1-Trichloroethane | 800 |
| Carbon Tetrachloride | 600 |
| Bromodichloromethane | -- |
| 1,2-Dichloropropane | -- |
| cis-1,3-Dichloropropene | -- |
| Trichloroethene | 700 |
| Dibromochloromethane | -- |
| 1,1,2-Trichloroethane | -- |
| Benzene | 60 |
| trans-1,3-Dichloropropene | -- |
| Bromoform | -- |
| 4-Methyl-2-Pentanone | 1,000 |
| 2-Hexanone | -- |
| Tetrachloroethene | 1,400 |
| 1,1,2,2-Tetrachloroethane | 600 |
| Toluene | 1,500 |
| Chlorobenzene | 1,700 |
| Ethylbenzene | 5,500 |
| Styrene | -- |
| Xylene (Total) | 1,200 |

-- - No SCG Value.

[1] - New York State Department of Environmental Conservation TAGM HWR-94-4046, January 24, 1994.

# VALENITE SITE
# SUMMARY OF SCGs

| SURFACE SOIL | |
|---|---|
| **PARAMETERS** | **SCG[1] (UG/KG )** |
| Phenol | 30 or MDL |
| bis(2-Chloroethyl)ether | -- |
| 2-Chlorophenol | 800 |
| 1,3-Dichlorobenzene | 1,600 |
| 1,4-Dichlorobenzene | 8,500 |
| 1,2-Dichlorobenzene | 7,900 |
| 2-Methylphenol | 100 or MDL |
| 2,2'-oxybis(1-Chloropropane) | -- |
| 4-Methylphenol | 900 |
| N-nitroso-di-n-propylamine | -- |
| Hexachloroethane | -- |
| Nitrobenzene | 200 or MDL |
| Isophorone | 4,400 |
| 2-Nitrophenol | 330 or MDL |
| 2,4-Dimethylphenol | -- |
| bis(2-Chloroethoxy)methane | -- |
| 2,4-Dichlorophenol | 400 |
| 1,2,4-Trichlorobenzene | -- |
| Naphthalene | 13,000 |
| 4-Chloroaniline | 220 or MDL |
| Hexachlorobutadiene | -- |
| 4-Chloro-3-Methyphenol | 240 or MDL |
| 2-Methylnaphthalene | 36,400 |
| Hexachlorocyclopentadiene | -- |
| 2,4,6-Trichlorophenol | -- |
| 2,4,5-Trichlorophenol | 100 |
| 2-Chloronaphthalene | -- |
| 2-Nitroaniline | 430 or MDL |
| Dimethylphthalate | 2,000 |
| Acenaphthylene | 41,000 |
| 2,6-Dinitrotoluene | 1,000 |
| 3-Nitroaniline | 500 or MDL |
| Acenaphthene | 50,000 * |
| 2,4-Dinitrophenol | 200 or MDL |
| 4-Nitrophenol | 100 or MDL |
| Dibenzofuran | 6,200 |
| 2,4-Dinitrotoluene | -- |
| Diethylphthalate | 7,100 |
| 4-Chlorophenyl-phenylether | -- |
| Fluorene | 50,000 * |
| 4-Nitroaniline | -- |
| 4,6-Dinitro-2-Methyphenol | -- |
| N-Nitrosodiphenylamine | -- |
| 4-Bromophenyl-phenylether | -- |
| Hexachlorobenzene | 410 |

-- - No SCG Value.

* - Total semivolatiles <500,000 ppb.

MDL - Method Detection Limit.

[1] - New York State Department of Environmental Conservation TAGM HWR-94-4046, January 24, 1994.

# VALENITE SITE
# SUMMARY OF SCGs

| SURFACE SOIL | |
|---|---|
| **PARAMETERS** | **SCG[1] (UG/KG )** |
| Pentachlorophenol | 1,000 or MDL |
| Phenanthrene | 50,000 * |
| Anthracene | 50,000 * |
| Carbazole | -- |
| Di-n-butylphthalate | 8,100 |
| Fluoranthene | 50,000 * |
| Pyrene | 50,000 * |
| Butylbenzylphthalate | 50,000 * |
| 3,3'-Dichlorobenzidine | -- |
| Benzo(a)anthracene | 224 or MDL |
| Chrysene | 400 |
| bis(2-Ethylhexyl)phthalate | 50,000 * |
| Di-n-octylphthalate | 50,000 * |
| Benzo(b)fluoranthene | 1,100 |
| Benzo(k)fluoranthene | 1,100 |
| Benzo(a)pyrene | 61 or MDL |
| Indeno(1,2,3-cd)pyrene | 3,200 |
| Dibenz(a,h)anthracene | 14 or MDL |
| Benzo(g,h,i)perylene | 50,000 * |

-- - No SCG Value.

* - Total semivolatiles <500,000 ppb.

MDL - Method Detection Limit.

[1] - New York State Department of Environmental Conservation TAGM HWR-94-4046, January 24, 1994.

# VALENITE SITE
# SUMMARY OF SCGs

| SURFACE SOIL | |
|---|---|
| **PARAMETERS** | **SCG[1] (UG/KG )** |
| alpha-BHC | 110 |
| beta-BHC | 200 |
| delta-BHC | 300 |
| gamma-BHC (Lindane) | 60 |
| Heptachlor | 100 |
| Aldrin | 41 |
| Heptachlor epoxide | 20 |
| Endosulfan I | 900 |
| Dieldrin | 44 |
| 4,4'-DDE | 2,100 |
| Endrin | 100 |
| Endosulfan II | 900 |
| 4,4'-DDD | 2,900 |
| Endosulfan sulfate | 1,000 |
| 4,4'-DDT | 2,100 |
| Methoxychlor | 10,000 |
| Endrin ketone | -- |
| Endrin Aldehyde | -- |
| alpha-Chlordane | 540 |
| gamma-Chlordane | 540 |
| Toxaphene | -- |
| Aroclor-1016 | 1000 * |
| Aroclor-1221 | 1000 * |
| Aroclor-1232 | 1000 * |
| Aroclor-1242 | 1000 * |
| Aroclor-1248 | 1000 * |
| Aroclor-1254 | 1000 * |
| Aroclor-1260 | 1000 * |

Only detected results reported.

-- - No SCG Value.

* - Total PCBs in surface soil = 1,000.

[1] - New York State Department of Environmental Conservation TAGM HWR-94-4046, January 24, 1994.

# VALENITE SITE
# SUMMARY OF SCGs

| SURFACE SOIL | |
|---|---|
| **PARAMETERS** | **SCG[1] (MG/KG )** |
| Aluminum | -- |
| Antimony | -- |
| Arsenic | 7.5 |
| Barium | 300 |
| Beryllium | 0.16 |
| Cadmium | 1 |
| Calcium | -- |
| Chromium | 10 |
| Cobalt | 30 |
| Copper | 25 |
| Iron | 2,000 |
| Lead | 500 * |
| Magnesium | -- |
| Manganese | -- |
| Mercury | 0.1 |
| Nickel | 13 |
| Potassium | -- |
| Selenium | 2 |
| Silver | -- |
| Sodium | -- |
| Thallium | -- |
| Vanadium | 150 |
| Zinc | 20 |
| Cyanide | * |

-- - No SCG Value.

* - Varies widely.

[1] - New York State Department of Environmental Conservation TAGM HWR-94-4046, January 24, 1994.

# REFERENCES

URS

AN INTERNATIONAL PROFESSIONAL SERVICES ORGANIZA

JOB NO. 35245.07 JOB NAME Valente

**MEMO OF TELECON**

DATE 10/11/94 TELEPHONE (315) 685-6486

PERSON CALLING Phyllis Rettke PERSON CALLED Dan Robbins

REPRESENTING URS REPRESENTING Water Division - City of Syracuse

PURPOSE OF TELECON AND/OR EQUIPMENT INVOLVED:

TEXT OF TELECON

Dan returned my call of this AM.

I asked him about the source of Water for the City of Syracuse.

He said they use Skaneateles Lake and serve 160,000 people. They supply a portion of the town of DeWitt.

He said the system is not blended, but a portion of DeWitt is served by City of Syracuse Water and the remainder by the Onondaga County Water Authority with intakes on Lake Ontario

CC:

**NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION**
Wildlife Resources Center
700 Troy-Schenectady Road (518) 783-3932
Latham, NY 12110-2400

Langdon Marsh
Commissioner

July 29, 1994

RECEIVED
URS CONSULTANTS INC
AUG 1 1994
DATE
JOB #

Phyllis Rettke
URS Consultants, Inc.
282 Delaware Ave.
Buffalo, NY 14202-1805

Dear Ms. Rettke:

We have reviewed the New York Heritage Program files with respect to your recent request for biological information concerning (6) Preliminary Site Assessments contracted by NYS DEC to you, sites as indicated on your enclosed maps, located throughout New York State. Only the Arcadia site contained a record of a plant element occurrence, according to our records nothing was found on the other five.

Enclosed is a computer printout covering the area you requested to be reviewed by our staff. The information contained in this report is considered sensitive and may not be released to the public without permission from the New York Natural Heritage Program.

Our files are continually growing as new habitats and occurrences of rare species and communities are discovered. In most cases, site-specific or comprehensive surveys for plant and animal occurrences have not been conducted. For these reasons, we can only provide data which have been assembled from our files. We cannot provide a definitive statement on the presence or absence of species, habitats or natural communities. This information should not be substituted for on-site surveys that may be required for environmental assessment.

This response applies only to known occurrences of rare animals, plants and natural communities and/or significant wildlife habitats. You should contact our regional office, Division of Regulatory Affairs, at the address enclosed for information regarding any regulated areas or permits that may be required (e.g., regulated wetlands) under State Law.

If this proposed project is still active one year from now we recommend that you contact us again so that we can update this response.

Sincerely,

Nicholas B Conrad

Nicholas B. Conrad
Information Data Assistant

Encs.
cc: Reg. 4, 7, & 8, Regional Mgrs.
Reg. 4, 7, & 8, Fisheries Mgrs.

# PA-SCORE

OMB Approval Number: 2050-0095
Approved for Use Through: 4/95

| POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT FORM | IDENTIFICATION | |
|---|---|---|
| | State: NY | CERCLIS Number: NYD980780365 |
| | CERCLIS Discovery Date: 5/1/84 | |

## 1. General Site Information

| Name: | | Street Address: | | | |
|---|---|---|---|---|---|
| Valenite | | 315 Wavel Street | | | |
| **City:** | **State:** | **Zip Code:** | **County:** | **Co. Code:** | **Cong. Dist:** |
| DeWitt | NY | 13206 | Onondaga | | |
| **Latitude:** | **Longitude:** | **Approx. Area of Site:** | **Status of Site:** | | |
| 43° 4' 47.2" | 76° 6' 16.0" | 20000 sq feet | Inactive | | |

## 2. Owner/Operator Information

| Owner: | | | Operator: | | |
|---|---|---|---|---|---|
| Michael E. Garey | | | Valenite Metals | | |
| Street Address: | | | Street Address: | | |
| 315 Wavel Street | | | 315 Wavel Street | | |
| City: | | | City: | | |
| Syracuse | | | Syracuse | | |
| State: | Zip Code: | Telephone: | State: | Zip Code: | Telephone: |
| NY | 13206 | | NY | 13206 | |
| Type of Ownership: | | | How Initially Identified: | | |
| Private | | | Citizen Complaint | | |

| POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT FORM | IDENTIFICATION | |
|---|---|---|
| | State: NY | CERCLIS Number: NYD980780365 |
| | CERCLIS Discovery Date: 5/1/84 | |

3. Site Evaluator Information

| Name of Evaluator: | Agency/Organization: | Date Prepared: |
|---|---|---|
| Phyllis Rettke | URS Consultants, Inc. | 8/23/94 |

| Street Address: | City: | State: |
|---|---|---|
| 282 Delaware Avenue | Buffalo | NY |

| Name of EPA or State Agency Contact: | Telephone: |
|---|---|
| Carl Hoffman | (518)457-9538 |

| Street Address: | City: | State: |
|---|---|---|
| 50 Wolf Road | Albany | NY |

4. Site Disposition (for EPA use only)

| Emergency Response/Removal Assessment Recommendation: No | CERCLIS Recommendation: Higher Priority SI | Signature: |
|---|---|---|
| Date: | Date: | Name: |
| | | Position: |

| POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT FORM | IDENTIFICATION | |
|---|---|---|
| | State: NY | CERCLIS Number: NYD980780365 |
| | CERCLIS Discovery Date: 5/1/84 | |

## 5. General Site Characteristics

| Predominant Land Uses Within 1 Mile of Site: | Site Setting: | Years of Operation: |
|---|---|---|
| Industrial<br>Residential | Urban | Beginning Year: 1961<br>Ending Year: 1981 |

| Type of Site Operations: | Waste Generated: |
|---|---|
| Manufacturing<br>Other Manufacturing | Onsite |
| | Waste Deposition Authorized By: Former Owner |
| | Waste Accessible to the Public: No |
| | Distance to Nearest Dwelling, School, or Workplace: 300 Feet |

## 6. Waste Characteristics Information

| Source Type | Quantity | Tier |
|---|---|---|
| Contaminated soil | 2.00e+04 lbs | W |
| Non-drum containers | 3.40e+03 gals | V |

Tier Legend
C = Constituent W = Wastestream
V = Volume A = Area

General Types of Waste:
Metals
Oily Waste

Physical State of Waste as Deposited
Liquid
Powder

| POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT FORM | IDENTIFICATION | |
|---|---|---|
| | State: NY | CERCLIS Number: NYD980780365 |
| | CERCLIS Discovery Date: 5/1/84 | |

7. Ground Water Pathway

| | | |
|---|---|---|
| Is Ground Water Used for Drinking Water Within 4 Miles: No<br><br>Type of Ground Water Wells Within 4 Miles: Private | Is There a Suspected Release to Ground Water: No<br><br>Have Primary Target Drinking Water Wells Been Identified: No | List Secondary Target Population Served by Ground Water Withdrawn From: |
| Depth to Shallowest Aquifer: 10 Feet<br><br>Karst Terrain/Aquifer Present: No | Nearest Designated Wellhead Protection Area: None within 4 Miles | 0 - 1/4 Mile 0<br>>1/4 - 1/2 Mile 0<br>>1/2 - 1 Mile 0<br>>1 - 2 Miles 68<br>>2 - 3 Miles 120<br>>3 - 4 Miles 250<br>Total 438 |

| POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT FORM | IDENTIFICATION | |
|---|---|---|
| | State: NY | CERCLIS Number: NYD980780365 |
| | CERCLIS Discovery Date: 5/1/84 | |

8. Surface Water Pathway — Part 1 of 4

| Type of Surface Water Draining Site and 15 Miles Downstream: | Shortest Overland Distance From Any Source to Surface Water: |
|---|---|
| Stream<br>River<br>Lake | 1200 Feet<br>0.2 Miles |
| Is there a Suspected Release to Surface Water: No | Site is Located in: Annual - 10 yr floodplain |

8. Surface Water Pathway — Part 2 of 4

Drinking Water Intakes Along the Surface Water Migration Path: Yes

Have Primary Target Drinking Water Intakes Been Identified: No

Secondary Target Drinking Water Intakes:

| Name | Water Body/Flow(cfs) | Population Served |
|---|---|---|
| Lake Ontario | Coastal,ocean,Gr.Lakes | 15000 |
| Skaneateles Lake | large stream/river/ >1000-10000 | 160000 |
| | Total Within 15 Miles: | 175000 |

| POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT FORM | IDENTIFICATION | |
|---|---|---|
| | State: NY | CERCLIS Number: NYD980780365 |
| | CERCLIS Discovery Date: 5/1/84 | |

8. Surface Water Pathway — Part 3 of 4

Fisheries Located Along the Surface Water Migration Path: Yes

Have Primary Target Fisheries Been Identified: No

Secondary Target Fisheries:

| Fishery Name | Water Body Type/Flow(cfs) |
|---|---|
| Ley Creek | moderate-large stream/ >100-1000 |
| Onondaga Lake | moderate-large stream/ >100-1000 |

8. Surface Water Pathway — Part 4 of 4

Wetlands Located Along the Surface Water Migration Path? (y/n) Yes

Have Primary Target Wetlands Been Identified? (y/n) No

Secondary Target Wetlands:
None

Other Sensitive Environments Along the Surface Water Migration Path: Yes

Have Primary Target Sensitive Environments Been Identified: No

Secondary Target Sensitive Environments:

| Water Body/Flow(cfs) | Sensitive Environment Type |
|---|---|
| small-moderate stream/ 10-100 | Sensitive Areas under parts of Clean Wate |
| moderate-large stream/ >100-1000 | Habitat for Federally designated endanger |

| POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT FORM | IDENTIFICATION | |
|---|---|---|
| | State: NY | CERCLIS Number: NYD980780365 |
| | CERCLIS Discovery Date: 5/1/84 | |

9. Soil Exposure Pathway

| | |
|---|---|
| Are People Occupying Residences or Attending School or Daycare on or Within 200 Feet of Areas of Known or Suspected Contamination: Yes<br>Total Resident Population: 30 | Number of Workers Onsite: None |

Have Terrestrial Sensitive Environments Been Identified on or Within 200 Feet of Areas of Known or Suspected Contamination: No

10. Air Pathway

| Total Population on or Within: | |
|---|---|
| Onsite | 0 |
| 0 - 1/4 Mile | 0 |
| >1/4 - 1/2 Mile | 0 |
| >1/2 - 1 Mile | 0 |
| >1 - 2 Miles | 0 |
| >2 - 3 Miles | 0 |
| >3 - 4 Miles | 0 |
| Total | 0 |

Is There a Suspected Release to Air: No

Wetlands Located Within 4 Miles of the Site: No

Other Sensitive Environments Located Within 4 Miles of the Site: No

Sensitive Environments Within 1/2 Mile of the Site:
None

OMB Approval Number: 2050-0095
Approved for Use Through: 4/95

# PA-Score

## PA Scoresheets

Site Name: Valenite
CERCLIS ID No.: NYD980780365
Street Address: 315 Wavel Street
City/State/Zip: DeWitt, NY 13206

Investigator: Phyllis Rettke
Agency/Organization: URS Consultants, Inc.
Street Address: 282 Delaware Avenue
City/State: Buffalo, NY

Date: 8/23/94

WASTE CHARACTERISTICS

Waste Characteristics (WC) Calculations:

| | | | | | |
|---|---|---|---|---|---|
| 1 Metal Grinding Dust | Contaminated soil | Ref: 1 | WQ value | maximum |
| Wastestream | 2.00E+04 lbs | | 4.00E+00 | 4.00E+00 |

Ten tons of dust containing cobalt and other heavy metals were reportedly released into the atmosphere during the 20 years that Valenite operated at the Syracuse property.
Ref: 1

| | | | | |
|---|---|---|---|---|
| 2 Waste Oil | Non-drum containers | Ref: 1 | WQ value | maximum |
| Volume | 3.40E+03 gals | | 6.80E+00 | 6.80E+00 |

It has been estimated by former Valenite employees that approximately 3,400 gallons of waste oil were dumped along side and behind the Valenite building.
Ref: 1

WQ total 1.08E+01

** Only First WC Page Is Printed **

Waste Characteristics Score: WC = 18

Ground Water Pathway Criteria List
Suspected Release

| | |
|---|---|
| Are sources poorly contained? (y/n/u) | Y |
| Is the source a type likely to contribute to ground water contamination (e.g., wet lagoon)? (y/n/u) | N |
| Is waste quantity particularly large? (y/n/u) | U |
| Is precipitation heavy? (y/n/u) | Y |
| Is the infiltration rate high? (y/n/u) | N |
| Is the site located in an area of karst terrain? (y/n) | N |
| Is the subsurface highly permeable or conductive? (y/n/u) | U |
| Is drinking water drawn from a shallow aquifer? (y/n/u) | N |
| Are suspected contaminants highly mobile in ground water? (y/n/u) | N |
| Does analytical or circumstantial evidence suggest ground water contamination? (y/n/u) | N |
| Other criteria? (y/n) | N |
| SUSPECTED RELEASE? (y/n) | N |

Summarize the rationale for Suspected Release:

Ground Water Pathway Criteria List
Primary Targets

Is any drinking water well nearby? (y/n/u)

Has any nearby drinking water well been closed? (y/n/u)

Has any nearby drinking water well user reported foul-testing or foul-smelling water? (y/n/u)

Does any nearby well have a large drawdown/high production rate? (y/n/u)

Is any drinking water well located between the site and other wells that are suspected to be exposed to a hazardous substance? (y/n/u)

Does analytical or circumstantial evidence suggest contamination at a drinking water well? (y/n/u)

Does any drinking water well warrant sampling? (y/n/u)

Other criteria? (y/n)

PRIMARY TARGET(S) IDENTIFIED? (y/n)

Summarize the rationale for Primary Targets:

## GROUND WATER PATHWAY SCORESHEETS

Pathway Characteristics

| | | Ref. |
|---|---|---|
| Do you suspect a release? (y/n) | No | |
| Is the site located in karst terrain? (y/n) | No | |
| Depth to aquifer (feet): | 10 | 4 |
| Distance to the nearest drinking water well (feet): | 5000 | 4 |

| LIKELIHOOD OF RELEASE | Suspected Release | No Suspected Release | References |
|---|---|---|---|
| 1. SUSPECTED RELEASE | 0 | | |
| 2. NO SUSPECTED RELEASE | | 500 | |
| LR = | 0 | 500 | |

Targets

| TARGETS | Suspected Release | No Suspected Release | References |
|---|---|---|---|
| 3. PRIMARY TARGET POPULATION 0 person(s) | 0 | | |
| 4. SECONDARY TARGET POPULATION Are any wells part of a blended system? (y/n) N | 0 | 4 | |
| 5. NEAREST WELL | 0 | 5 | |
| 6. WELLHEAD PROTECTION AREA None within 4 Miles | 0 | 0 | |
| 7. RESOURCES | 0 | 5 | |
| T = | 0 | 14 | |

WASTE CHARACTERISTICS

| | | |
|---|---|---|
| WC = | 0 | 18 |

| | |
|---|---|
| GROUND WATER PATHWAY SCORE: | 2 |

Ground Water Target Populations

| Primary Target Population Drinking Water Well ID | Dist. (miles) | Population Served | Reference | Value |
|---|---|---|---|---|
| None | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

*** Note : Maximum of 5 Wells Are Printed *** Total

| Secondary Target Population Distance Categories | Population Served | Reference | Value |
|---|---|---|---|
| 0 to 1/4 mile | 0 | 1 | 0 |
| Greater than 1/4 to 1/2 mile | 0 | 1 | 0 |
| Greater than 1/2 to 1 mile | 0 | 1 | 0 |
| Greater than 1 to 2 miles | 68 | 1 | 1 |
| Greater than 2 to 3 miles | 120 | 1 | 2 |
| Greater than 3 to 4 miles | 250 | 4 | 1 |
| | | Total | 4 |

Apportionment Documentation for a Blended System

Surface Water Pathway Criteria List
Suspected Release

| | |
|---|---|
| Is surface water nearby? (y/n/u) | N |
| Is waste quantity particularly large? (y/n/u) | N |
| Is the drainage area large? (y/n/u) | N |
| Is rainfall heavy? (y/n/u) | Y |
| Is the infiltration rate low? (y/n/u) | N |
| Are sources poorly contained or prone to runoff or flooding? (y/n/u) | Y |
| Is a runoff route well defined(e.g.ditch/channel to surf.water)? (y/n/u) | N |
| Is vegetation stressed along the probable runoff path? (y/n/u) | N |
| Are sediments or water unnaturally discolored? (y/n/u) | N |
| Is wildlife unnaturally absent? (y/n/u) | N |
| Has deposition of waste into surface water been observed? (y/n/u) | N |
| Is ground water discharge to surface water likely? (y/n/u) | N |
| Does analytical/circumstantial evidence suggest S.W. contam? (y/n/u) | N |
| Other criteria? (y/n) | N |
| SUSPECTED RELEASE? (y/n) | N |

Summarize the rationale for Suspected Release:

Surface Water Pathway Criteria List
Primary Targets

Is any target nearby? (y/n/u) If yes: Y
- N Drinking water intake
- N Fishery
- Y Sensitive environment

Has any intake, fishery, or recreational area been closed? (y/n/u) N

Does analytical or circumstantial evidence suggest surface water contamination at or downstream of a target? (y/n/u) N

Does any target warrant sampling? (y/n/u) If yes: N
- N Drinking water intake
- N Fishery
- N Sensitive environment

Other criteria? (y/n) N

PRIMARY INTAKE(S) IDENTIFIED? (y/n) N

Summarize the rationale for Primary Intakes:

continued -------

continued -------

Other criteria? (y/n) N

PRIMARY FISHERY(IES) IDENTIFIED? (y/n) N

Summarize the rationale for Primary Fisheries:

Other criteria? (y/n) N

PRIMARY SENSITIVE ENVIRONMENT(S) IDENTIFIED? (y/n) N

Summarize the rationale for Primary Sensitive Environments:

SURFACE WATER PATHWAY SCORESHEETS

| Pathway Characteristics | | Ref. |
|---|---|---|
| Do you suspect a release? (y/n) | No | |
| Distance to surface water (feet): | 1200 | 1,2 |
| Flood frequency (years): | 1-10 | 1 |
| What is the downstream distance (miles) to: | | |
| a. the nearest drinking water intake? | 3.0 | 2 |
| b. the nearest fishery? | 0.2 | 3 |
| c. the nearest sensitive environment? | 0.2 | 3 |

| LIKELIHOOD OF RELEASE | Suspected Release | No Suspected Release | References |
|---|---|---|---|
| 1. SUSPECTED RELEASE | 0 | | |
| 2. NO SUSPECTED RELEASE | | 500 | |
| LR = | 0 | 500 | |

Drinking Water Threat Targets

| TARGETS | Suspected Release | No Suspected Release | References |
|---|---|---|---|
| 3. Determine the water body type, flow (if applicable), and number of people served by each drinking water intake. | | | |
| 4. PRIMARY TARGET POPULATION 0 person(s) | 0 | | |
| 5. SECONDARY TARGET POPULATION Are any intakes part of a blended system? (y/n): Y | 0 | 17 | |
| 6. NEAREST INTAKE | 0 | 0 | |
| 7. RESOURCES | 0 | 5 | |
| T = | 0 | 22 | |

Drinking Water Threat Target Populations

| Intake Name | Primary (y/n) | Water Body Type/Flow | Population Served | Ref. | Value |
|---|---|---|---|---|---|
| 1 Lake Ontario | N | Coastal,ocean,Gr.Lake | 15000 | 7 | 0 |
| 2 Skaneateles Lak | N | >1000-10000 cfs | 160000 | 7 | 0 |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| | |
|---|---|
| Total Primary Target Population Value | 0 |
| Total Secondary Target Population Value | 0 |

*** Note : Maximum of 6 Intakes Are Printed ***

Apportionment Documentation for a Blended System

Human Food Chain Threat Targets

| TARGETS | Suspected Release | No Suspected Release | References |
|---|---|---|---|
| 8. Determine the water body type and flow for each fishery within the target limit. | | | |
| 9. PRIMARY FISHERIES | 0 | | |
| 10. SECONDARY FISHERIES | 0 | 12 | |
| T = | 0 | 12 | |

Human Food Chain Threat Targets

| Fishery Name | Primary (y/n) | Water Body Type/Flow | Ref. | Value |
|---|---|---|---|---|
| 1 Ley Creek | N | >100-1000 cfs | 1 | 12 |
| 2 Onondaga Lake | N | >100-1000 cfs | 1 | 12 |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

| | |
|---|---|
| Total Primary Fisheries Value | 0 |
| Total Secondary Fisheries Value | 0 |

*** Note : Maximum of 6 Fisheries Are Printed ***

Environmental Threat Targets

| TARGETS | Suspected Release | No Suspected Release | References |
|---|---|---|---|
| 11. Determine the water body type and flow (if applicable) for each sensitive environment. | | | |
| 12. PRIMARY SENSITIVE ENVIRONMENTS | 0 | | |
| 13. SECONDARY SENSITIVE ENVIRONS. | 0 | 10 | |
| T = | 0 | 10 | |

Environmental Threat Targets

| Sensitive Environment Name | Primary (y/n) | Water Body Type/Flow | Ref. | Value |
|---|---|---|---|---|
| 1 DEC WETLAND SYE 29 | N | 10-100 cfs | 2 | 10 |
| 2 DEC WETLAND SYE 6 | N | >100-1000 cfs | 5 | 0 |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Total Primary Sensitive Environments Value 0
Total Secondary Sensitive Environments Value 0
*** Note: Maximum of 6 Sensitive Environments Are Printed ***

Surface Water Pathway Threat Scores

| Threat | Likelihood of Release (LR) Score | Targets (T) Score | Pathway Waste Characteristics (WC) Score | Threat Score LR x T x WC / 82,500 |
|---|---|---|---|---|
| Drinking Water | 500 | 22 | 18 | 2 |
| Human Food Chain | 500 | 12 | 18 | 1 |
| Environmental | 500 | 10 | 18 | 1 |

SURFACE WATER PATHWAY SCORE: 5

Soil Exposure Pathway Criteria List
Resident Population

| | |
|---|---|
| Is any residence, school, or daycare facility on or within 200 feet of an area of suspected contamination? (y/n/u) | Y |
| Is any residence, school, or daycare facility located on adjacent land previously owned or leased by the site owner/operator? (y/n/u) | Y |
| Is there a migration route that might spread hazardous substances near residences, schools, or daycare facilities? (y/n/u) | Y |
| Have onsite or adjacent residents or students reported adverse health effects, exclusive of apparent drinking water or air contamination problems? (y/n/u) | Y |
| Does any neighboring property warrant sampling? (y/n/u) | Y |
| Other criteria? (y/n) | N |
| RESIDENT POPULATION IDENTIFIED? (y/n) | Y |

Summarize the rationale for Resident Population:

SOIL EXPOSURE PATHWAY SCORESHEETS

Pathway Characteristics

| | | Ref. |
|---|---|---|
| Do any people live on or within 200 ft of areas of suspected contamination? (y/n) | Yes | 1 |
| Do any people attend school or daycare on or within 200 ft of areas of suspected contamination? (y/n) | No | 1 |
| Is the facility active? (y/n): | No | 1 |

| LIKELIHOOD OF EXPOSURE | Suspected Contamination | References |
|---|---|---|
| 1. SUSPECTED CONTAMINATION LE = | 550 | |

Targets

| | | |
|---|---|---|
| 2. RESIDENT POPULATION<br>30 resident(s)<br>0 school/daycare student(s) | 300 | 1<br>1 |
| 3. RESIDENT INDIVIDUAL | 50 | |
| 4. WORKERS<br>None | 0 | |
| 5. TERRES. SENSITIVE ENVIRONMENTS | 0 | |
| 6. RESOURCES | 5 | |
| T = | 355 | |

WASTE CHARACTERISTICS

WC = 18

RESIDENT POPULATION THREAT SCORE: 43

NEARBY POPULATION THREAT SCORE: 1

Population Within 1 Mile: 1 - 10,000

SOIL EXPOSURE PATHWAY SCORE: 44

Soil Exposure Pathway Terrestrial Sensitive Environments

| Terrestrial Sensitive Environment Name | Reference | Value |
|---|---|---|
| None | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

Total Terrestrial Sensitive Environments Value

*** Note : Maximum of 7 Sensitive Environments Are Printed ***

Air Pathway Criteria List
Suspected Release

| | |
|---|---|
| Are odors currently reported? (y/n/u) | N |
| Has release of a hazardous substance to the air been directly observed? (y/n/u) | N |
| Are there reports of adverse health effects (e.g., headaches, nausea, dizziness) potentially resulting from migration of hazardous substances through the air? (y/n/u) | Y |
| Does analytical/circumstantial evidence suggest release to air? (y/n/u) | Y |
| Other criteria? (y/n) | N |
| SUSPECTED RELEASE? (y/n) | N |

Summarize the rationale for Suspected Release:

AIR PATHWAY SCORESHEETS

Pathway Characteristics

| | | Ref. |
|---|---|---|
| Do you suspect a release? (y/n) | No | |
| Distance to the nearest individual (feet): | 50 | 1 |

| LIKELIHOOD OF RELEASE | Suspected Release | No Suspected Release | References |
|---|---|---|---|
| 1. SUSPECTED RELEASE | 0 | | |
| 2. NO SUSPECTED RELEASE | | 500 | |
| LR = | 0 | 500 | |

Targets

| TARGETS | Suspected Release | No Suspected Release | References |
|---|---|---|---|
| 3. PRIMARY TARGET POPULATION 0 person(s) | 0 | | |
| 4. SECONDARY TARGET POPULATION | 0 | 0 | |
| 5. NEAREST INDIVIDUAL | 0 | 0 | |
| 6. PRIMARY SENSITIVE ENVIRONS. | 0 | | |
| 7. SECONDARY SENSITIVE ENVIRONS. | 0 | 0 | |
| 8. RESOURCES | 0 | 5 | |
| T = | 0 | 5 | |

WASTE CHARACTERISTICS

| | | |
|---|---|---|
| WC = | 0 | 18 |

| | |
|---|---|
| AIR PATHWAY SCORE: | 1 |

Air Pathway Secondary Target Populations

| Distance Categories | Population | References | Value |
|---|---|---|---|
| Onsite | 0 | | 0 |
| Greater than 0 to 1/4 mile | 0 | | 0 |
| Greater than 1/4 to 1/2 mile | 0 | | 0 |
| Greater than 1/2 to 1 mile | 0 | | 0 |
| Greater than 1 to 2 miles | 0 | | 0 |
| Greater than 2 to 3 miles | 0 | | 0 |
| Greater than 3 to 4 miles | 0 | | 0 |
| | | Total Secondary Population Value | 0 |

Air Pathway Primary Sensitive Environments

| Sensitive Environment Name | Reference | Value |
|---|---|---|
| None | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| Total Primary Sensitive Environments Value | | |

*** Note : Maximum of 7 Sensitive Environments Are Printed***

Air Pathway Secondary Sensitive Environments

| Sensitive Environment Name | Distance | Reference | Value |
|---|---|---|---|
| None | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| Total Secondary Sensitive Environments Value | | | |

| SITE SCORE CALCULATION | SCORE |
|---|---|
| GROUND WATER PATHWAY SCORE: | 2 |
| SURFACE WATER PATHWAY SCORE: | 5 |
| SOIL EXPOSURE PATHWAY SCORE: | 44 |
| AIR PATHWAY SCORE: | 1 |
| SITE SCORE: | 22 |

MARY

1. Is there a high possibility of a threat to any nearby drinking water well(s) by migration of a hazardous substance in ground water? Yes

   If yes, identify the well(s).

   If yes, how many people are served by the threatened well(s)? 0

2. Is there a high possibility of a threat to any of the following by hazardous substance migration in surface water?
   A. Drinking water intake No
   B. Fishery No
   C. Sensitive environment (wetland, critical habitat, others) No

   If yes, identity the target(s).

3. Is there a high possibility of an area of surficial contamination within 200 feet of any residence, school, or daycare facility? Yes

   If yes, identify the properties and estimate the associated population(s)
   A trailer park is located 300 feet east of the site, some of the residents have vegatable gardens in the brushy area east of parking lot.

4. Are there public health concerns at this site that are not addressed by PA scoring considerations? Yes

   If yes, explain:
   Injestion of vegatables from nearby gardens and former employees with health problems

REFERENCE LIST

1. URS Consultants, Inc., 1991. Preliminary Site Assessment, Task 1: Data Records Search and Assessment at the Valenite Site, Site No. 734023 DeWitt(t), Onondaga (c), New York

2. NYSDOH, 1982. New York State Atlas of Community Water Systems.

3. NYSDEC, 1986. Freshwater Wetlands Map, Onondaga County, Map 10 of 21.

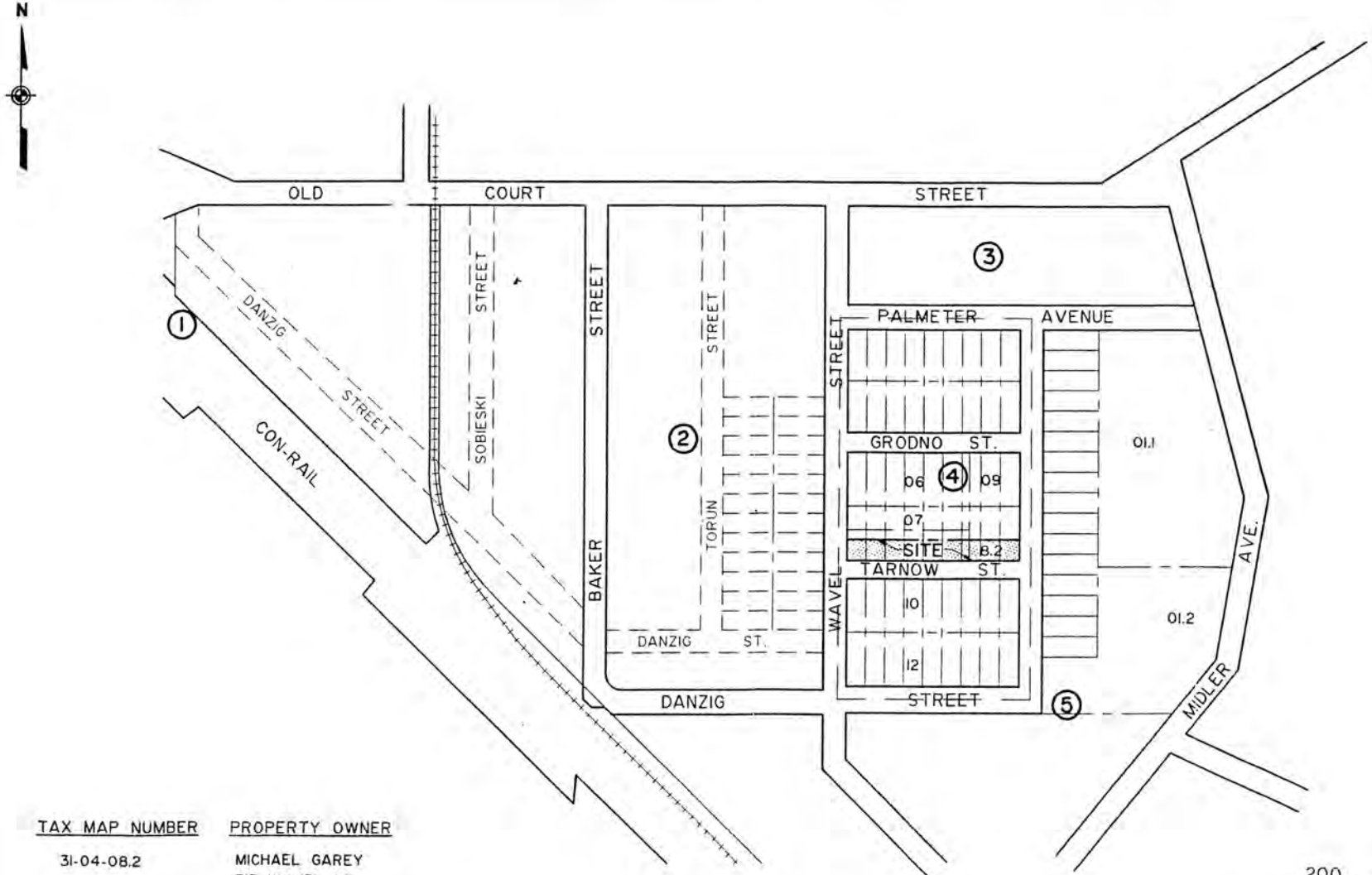
4. NYSDOT, 1990. Topographic map of the Syracuse East Quadrangle, 7.5 minute series.

5. USGS, 1989. Water Resources Data: New York Water Year 1989. Volume 3. Western New York. USGS Water Data Report 89-3.

6. USGS, 1973, photorevised 1978, of the Syracuse West Quadrangle, 7.5 minute series.

7. Robbino, Dan., 1994. Personal communication with Phyllis Rettke of URS Consultants RE:Source of Water for the City of Syracuse.

# SITE PROPERTY BOUNDARY MAP
# (TAX MAP)




| TAX MAP NUMBER | PROPERTY OWNER |
|---|---|
| 31-04-08.2 | MICHAEL GAREY<br>315 WAVEL ST.<br>SYRACUSE, N.Y. |
| 31-04-07 | CLIFTON DEVELOPMENT, IN..C<br>6388 WAVEL ST<br>SYRACUSE, N.Y. |

200 0 200
SCALE IN FEET

TOWN OF DEWITT
PORTION OF TAX MAP # 31

URS
CONSULTANTS, INC.

\35245.07\ 1:200 11/9/94-3 1 A

CC-3192