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PHASE II ENVIRONMENTAL SITE ASSESSMENT

FOR

INDEPENDENT POWER PLANT

ROME, NEW YORK

For

Atlantic Energy Systems

Job No. GTA-91-40B

September 1991

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ENVIRONMENTAL SITE ASSESSMENT MILL STREET CITY OF ROME, NEW YORK GTA-90-75

1.0 INTRODUCTION

Empire Soils Investigations, Inc. (ESI) was requested by Mr. William Glover of Atlantic Energy Systems, Inc. to perform an environmental site assessment at the location on Mill Street, City of Rome, Oneida County, New York (see Site Location Plan, Drawing No. 1, Appendix A). The investigation was authorized by Mr. William Glover of Atlantic Energy Systems, Inc. and was performed following generally accepted guidelines for conducting environmental site assessments.

Our conclusions regarding the site are based on the observations made and data collected during the study. Therefore, conclusions regarding the conditions of the site do not represent a warranty that all areas within the study area are of the same quality. Empire Soils Investigations, Inc. is not able to represent that the site is free of hazardous materials beyond that detected or observed by Empire Soils Investigations, Inc. during the site study.

1.1 Site Location

The site of the investigation is at Mill Street in the City of Rome, Oneida County, New York (see Drawing No. 1, Appendix A). The site is located immediately north of the New York State Barge Canal and to the east of Mill Street. The site is a portion of the property once used by the General Cable Corporation facility. The area surrounding the site is a general manufacturing (industrial) zone.

1.2 Objective and Methods

The objective of the environmental site assessment is to evaluate the potential that environmental degradation has occurred as a result of hazardous materials being used, stored, or disposed of at the site or at adjacent sites. In order to make this evaluation the following scope of work was performed:

- o An inspection of the site was performed which included both indoor and outdoor areas;
- o A historical review of the property and surrounding area was conducted. The review included a search of public documents pertaining to the site, investigating the regulatory history of the area, identifying prior site uses, reviewing the available geologic information on the site, and contacting public officials concerning the history of the site.

1.3 Site Inspection

A site inspection was performed by a geologist from Empire Soils Investigations, Inc. on July 26, 1990. Both the site and the adjacent property of the General Cable Corporation were inspected.

A Site Inspection Guide and Environmental Questionnaire were completed and photographs were taken. The photographs are included in Appendix B and the Site Inspection Guide and Environmental Questionnaire comprise Appendix C.

1.4 Historical Review

As part of the historical review of the property the following sources were consulted:

- New York State Department of Environmental Conservation (NYSDEC)
 Oneida County Department of Health
 City of Rome Historical Committee
 City of Rome Engineer
 City of Rome Fire Department
 Oneida County Clerk's Office
 List of Inactive Hazardous Waste Disposal Sites (includes CERCLA sites), (NYSDEC, 1990)
 United States Geologic Survey 7.5 Minute Topographic Series Maps, Rome, N.Y. Quadrangle
 Geologic Map of New York (Hudson- Mohawk Sheet)
 Aerial Photographs 1938, 1955, 1968, 1977
 USEPA National Priorities List, 1989

2.0 SITE BACKGROUND

Regional Hydrogeology

The City of Rome is located in the Hudson-Mohawk lowlands physiographic province of New York State. The area is characterized by sedimentary rock types which are erally gently dipping to the south. Local bedrock as the Lorraine, Trenton and Black River mapped These are composed primarily of groups shales siltstones of Middle to Upper Ordovician age. sedimentary strata are typically cut glacial by fluvial erosion forming deep valleys which are filled with sediments deposited during glacial recession and subsequent alluvial processes. The unconsolidated deposits mapped as recent alluvial deposits with a thickness generally ranging from 3 to 30 feet (Cadwell, These deposits are typically composed of fine sand to gravel and may be overlain by silt (Cadwell, 1987). The City of Rome Engineer reported that no major filling has in the area of the site and that the soils occurred are likely to be natural.

The City of Rome is situated in the Mohawk River Valley and drainage basin. The Mohawk River Basin is one of New York State's larger aquifer systems. The aquifer provides municipal and residential water supplies throughout the region. The aquifer in the vicinity of Rome is not classified as a primary aquifer by NYSDEC (NYSDEC, 1986). Local groundwater flow directions are generally toward the river except where it is influenced by large scale industrial pumping. Based on topography and surface water elevations the direction of groundwater flow at the site is assumed to be to the southeast towards the Mohawk River.

2.2 <u>Site Description</u>

The site was inspected on July 26, 1990 by a representative of Empire Soils Investigations, Inc. The property is trapezoidal in shape and is approximately 425 feet along its northern border, 205 feet wide along its western border, 380 feet along the New York State Barge Canal and 85 feet wide along its eastern border (see Drawing No. 2, Appendix A). The property has very little topographic relief.

majority of the site is covered with concrete (see Site Photographs) and was designed as a parking and area for the abandoned cable production facility Cable Corporation) adjacent to the site. tracks from the New York Central Railroad are ented along an east-west line across the center site (see Drawing No. 2, Appendix A and Site Photographs). railway served as a means of shipping materials the cable facility while it was in operation. One building currently exists on the site. This building is a pump house (see Site Photographs) and was used to supply the General Cable Corporation facility before closed. An approximately 50 foot wide strip of vegetated land extends along the southern border of the site adjacent to the New York State Barge Canal and is owned by New York State. Fill material was observed in this area during the site inspection. The fill appears to consist of construction and demolition material. Well developed vegetation in this area suggests that the fill material may not be of concern.

The pump house is situated adjacent to the barge nal New York State land (see Drawing No. Appendix A). The pump house is currently owned by Charles The building is constructed with a concrete floor, brick walls and wooden roof. Water was pumped from the barge canal to the cable facility for cooling purposes prior to 1972. One twelve-inch and three ten-inch supply pipes exit the pump house. Three centrifugal pumps were driven by electric motors to supply the cooling ter. Electric supply controls are still present the pump house. The supply equipment is of concern because of the use of asbestos as an insulating material in electrical equipment. The electrical equipment is also of cern because of the use of polychlorinated biphenyls (PCBs) as a cooling medium. Two ceiling mounted electric heaters were observed in the pump house. Drop tiles are located within the pump house and appear to in poor condition. The ceiling tiles are of concern cause they may contain asbestos minerals. The overall condition of the pump house appears to be poor because Several holes were observed in the roof of the pump house subjecting the interior to extreme weather conditions.

Several steel plates were observed (see Site Photographs) on the site along a north-south line connecting the pump house to the cable facility (see Drawing No. 2, Appendix A). These steel plates serve as access points to

the water supply pipes for the cable facility. catch basins were observed on the site (see Site graphs) which drain surface water from the site to an outflow pipe discharging to the canal (see Drawing No. 2, Ap-Runoff from the cable company facility is also pendix A). directed to this outflow (Personal Communication). formers were observed on a utility pole in the northwest corner of the site. These transformers are clearly beled as containing no PCB oils. Wooden platforms observed in the north central portion of the site. No origin or purpose for these platforms was determined. The wood is not stained and the platforms do not appear to be of any environmental significance.

2.3 Site History

The property abstract for the site was not available for review. A search of the property deeds was not formed. The site history is based on information personal communication with city officials, former General Cable Corporation employees and a review of aerial graphs. The property has been owned primarily by companies and used for industrial purposes. The Rome City Planner (Thomas Larrabee) indicated that the cable facility was constructed sometime between 1910 and 1917. Aerial photofrom 1938 show the property developed as rently exists. The General Cable Corporation property was sold to William Gaetano and Thomas Demar in 1971. Gaetano purchased the property encompassing the cable facility in 1975. The site of concern is a portion of this entire lot.

Aerial photographs for 1938, 1955, 1968, and 1977 were reviewed. The aerial photographs indicate that the area of the site was developed prior to 1938. The New

York Central Railroad is present in all photographs. A large stockpile of material believed to be coal is present in the 1955 photograph. Aerial photographs indicate that materials were not stockpiled during other periods. No structural changes appear to have been made to the General Cable Corporation building throughout its history. In the 1977 photograph there appears to be no activity at the site.

3.0 SITE SPECIFIC CONCERNS

3.1 Records Search

Requests for information from regulatory agencies for knowledge or information concerning previous or current releases of hazardous materials at or adjacent to the site included in Appendix D. These agencies include Oneida County Department of Health and the New York State Department of Environmental Conservation. Responses requests for information from these agencies had been received as of the preparation of this report. When the information becomes available it will be forwarded an addendum to the report. According to telephone conversations with City of Rome officials there are no contamination in the vicinity of sources of the There have been no documented or reported instances οf hazardous materials being produced or disposed of at site.

3.2 <u>Hazardous Waste Sites</u>

There are no hazardous waste sites listed on the USEPA National Priorities List (NPL) (1989) within a one mile radius of the site. There are no inactive hazardous waste sites listed by the NYSDEC (1990) within a one mile radius of the site.

3.3 <u>Surrounding Properties</u>

The facility located to the north of site was used to produce wire prior to 1972. Several types of wire generated at the plant including enameled wires. were used during the processing of the wire tanks Two underground storage tanks are reported to have ucts. been located within the building for the storage of petroleum products. No information could be obtained regarding the current state of these tanks. The presence of is of concern because of the potential taminant migration to the southeast toward the site. site inspection the General Cable Corporation building was inspected. The underground storage located during this inspection nor was presence confirmed. Two empty 55 gallon drums labeled as degreaser were observed within the building. The general condition of the structure appears to be poor because vandalism. To the southeast of the site is an above-ground oil storage tank (see Drawing No. 2, Appendix Photographs) that was used by the cable manufacturing company. This tank is currently empty the flow lines are disconnected. A mound of fill is 10cated adjacent to the south wall of the cable Vegetation growing upon the fill suggests that the fill is not of concern. Mosca Brothers Moving and Storage is cated to the northeast of the site (see Site Photographs). Potential for contamination from this facility would be minimal due to the nature of this business.

3.4 Asbestos

Building materials and equipment possibly containing asbestos minerals were observed within the pump house.

The exact content of the materials cannot be determined without conducting an asbestos survey. The asbestos survey would determine the nature and extent of any asbestos containing materials which may be present in the building. If asbestos containing building materials were identified a management plan would need to be implemented.

3.5 Polychlorinated Biphenyls

Transformers located adjacent to the site are labeled as non-PCB containing types. Electrical equipment located in the pump house may contain PCB oils. No indication of leakage from the electrical equipment was observed during the site inspection.

4.0 CONCLUSIONS

Based on the data gathered during this investigation and the scope of services, it does not appear that activities on-site have jeopardized the environmental integrity of the site. There is a possibility that tanks and activities associated with the cable may impact the groundwater quality at the site. Ιt likely that groundwater would be encountered tions at the site, therefore it should be determined any groundwater contamination exits beneath site before construction begins. It is recommended that one or more groundwater monitoring wells be on-site in the borings for the proposed cogeneration cility. Water samples should be obtained and analyzed for compounds likely to have been used at the General Cable Corporation facility (solvents, petroleum compounds, PCBs, acids).

No asbestos containing materials were documented at the site. An asbestos survey should be implemented in or-

der to confirm the absence or presence of asbestos containing materials in the pump house.

5.0 REFERENCES

- Fisher, D. W. and C. V. Rickard, 1970. Geologic Map of New York Hudson-Mohawk Sheet, New York State Museum and Science Service Map and Chart Series No. 15.
- ller, E. H. and D. H. Cadwell. 1986. <u>Surficial Geologic Map of New York, Hudson-Mohawk Sheet</u>. University of New York State Education Department.
- NYSDEC, 1986. Primary and Principal Aquifer Determinations. Division of Water Technical and Operational Guidance Series (86-W-57). December, 1986.
- NYSDEC, 1990. <u>Inactive Hazardous Waste Disposal Sites in New York State</u>.
- USEPA, (1989). <u>National Priorities List</u>, <u>Supplementary Lists and Supporting Materials</u>.
- USGS, 1988. Water REsources Investigations Report 87-4275, Potential Yields of Wells in Unconsolidated Aquifers in Upstate New York Hudson-Mohawk Sheet.

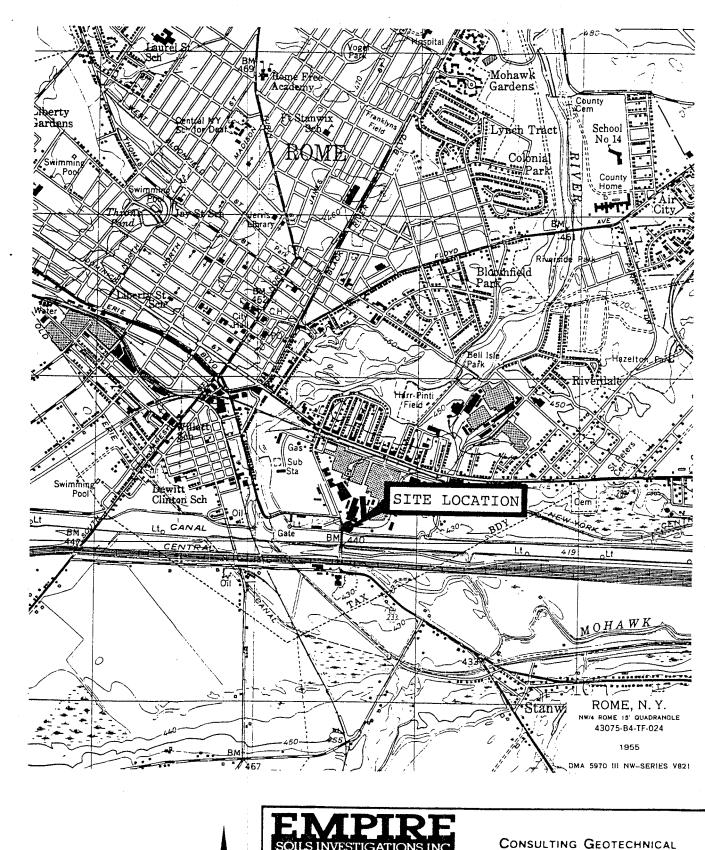
Respectfully submitted

EMPIRE SOILS INVESTIGATIONS, INC.

Sean Pepling Geolegist

Chrick

Patrick Mulligan Hydrogeologist Manager of Environmental Services





ENGINEERS & GEOLOGISTS

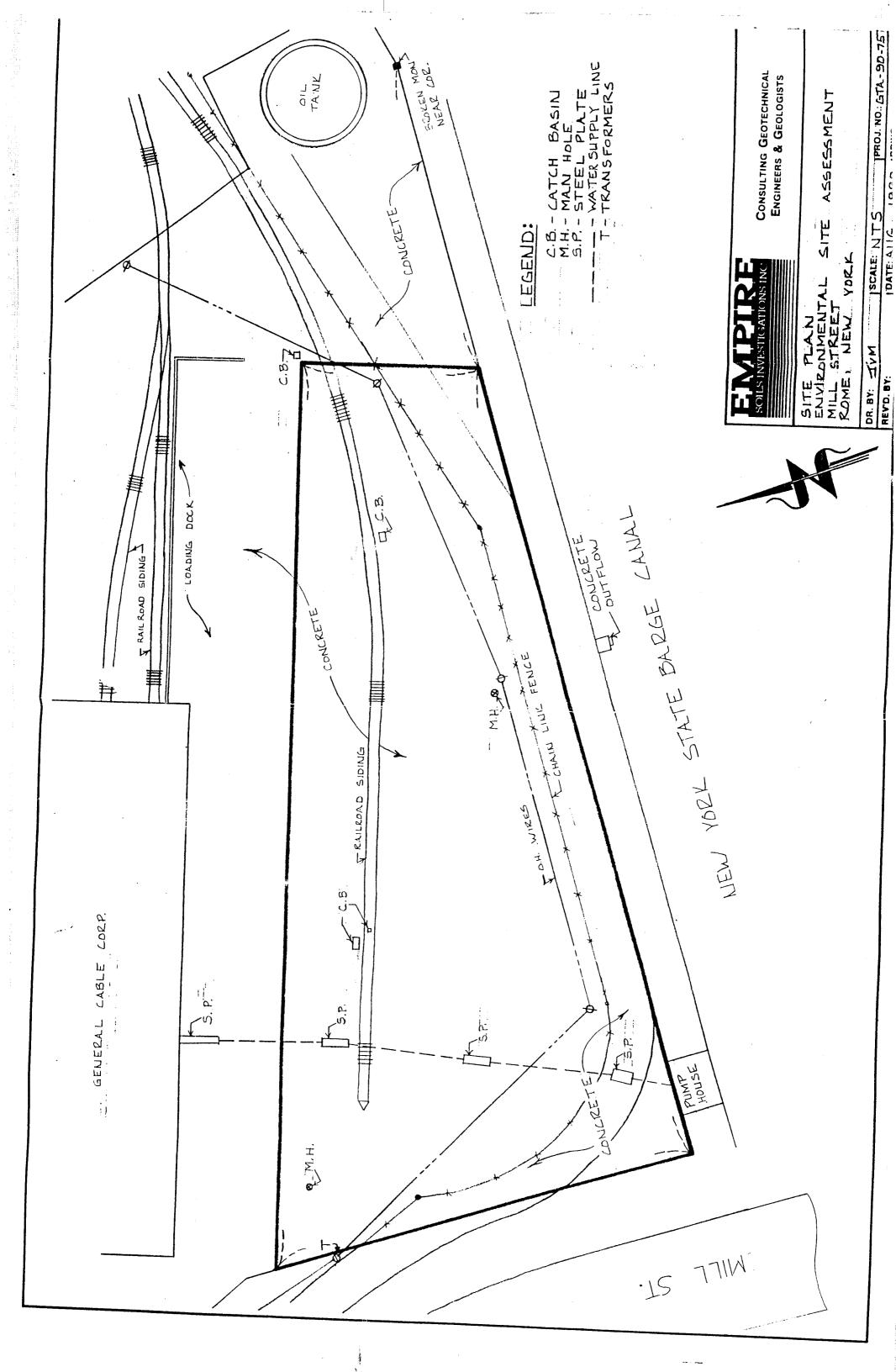
SITE LOCATION PLAN ENVIRONMENTAL SITE ASSESSMEINT MILL ST. ROME, NEW YORK

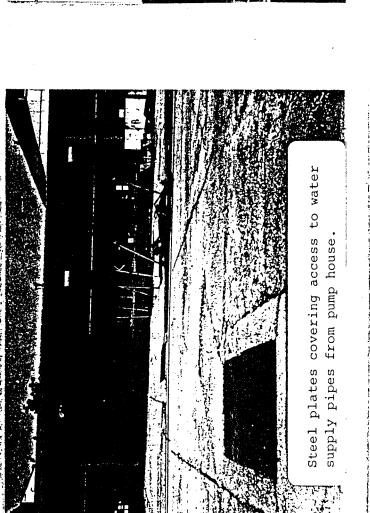
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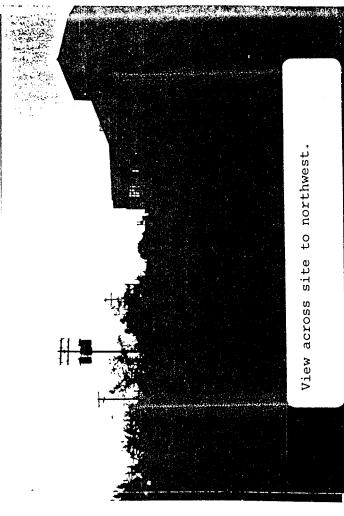
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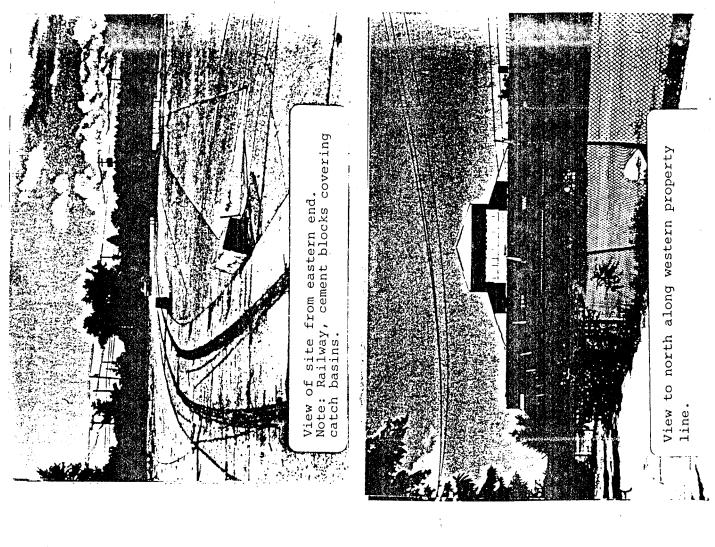


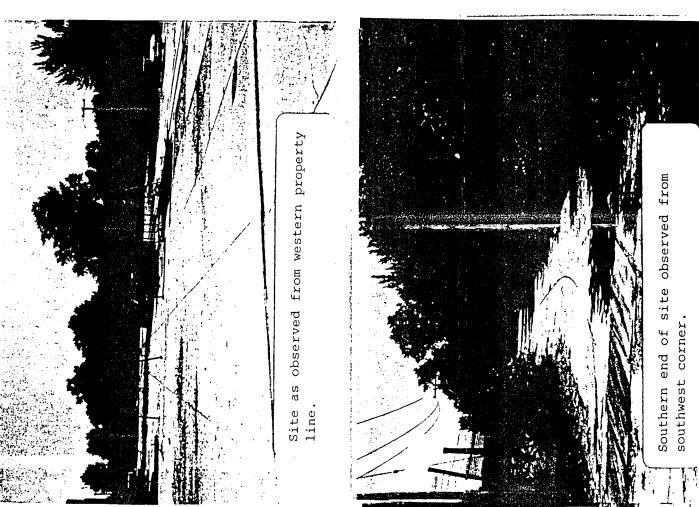
to northeast,

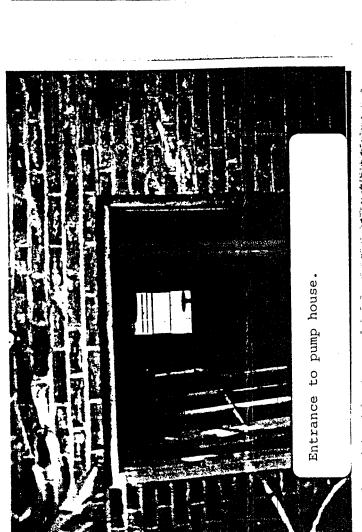
View across site

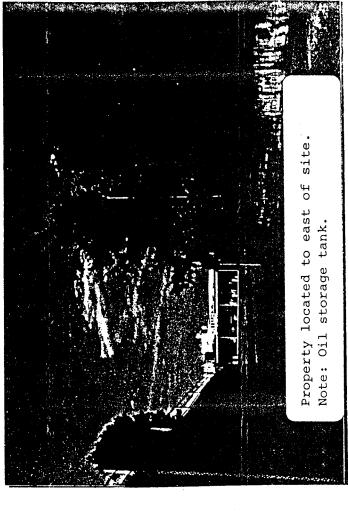


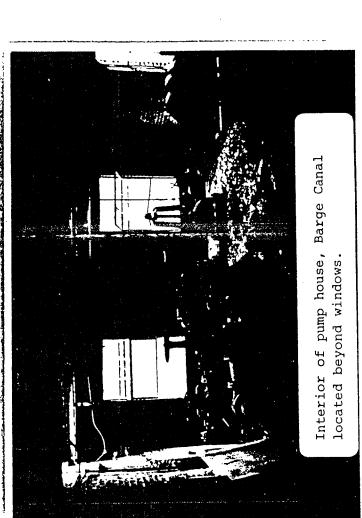






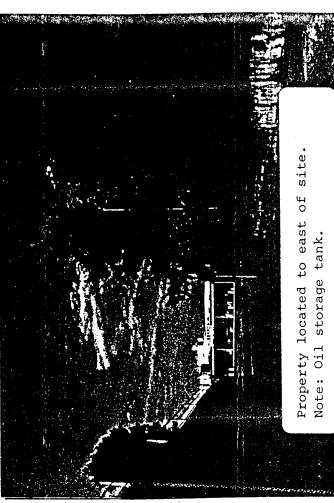


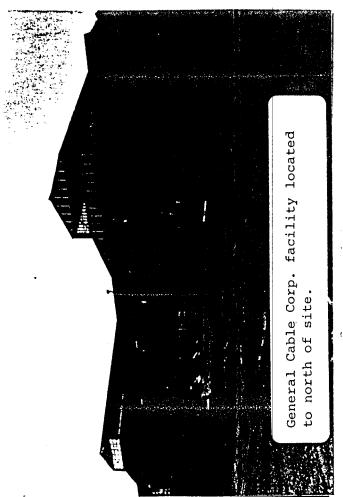




New York State Barge Canal, located

to south of site.







Mound of fill located adjacent to

General Cable Corp.

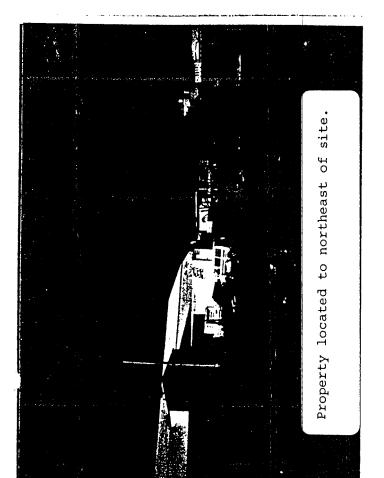


EXHIBIT A

PROPERTY INSPECTION GUIDE (To Be Completed For All Properties) (Privileged and Confidential)

SI	Rome Cogenerati Facility	on BORROWER NAME:	William Glover David Palmer
OTI	HERS PARTICIPATING IN SITE	E INSPECTION: William (Slover
PRO	OPERTY CONDITION	LOCATION	SIGNIFICANCE
UNI	DEVELOPED PROPERTY		
1)	Stained or discolored ground	N.O.	
2)	Absence of vegetation or dead vegetation	N.O.	
3)	Hills, mounds, depressions	Fill located adjacent to barge canal.	Possible source of buried contaminan
4)	Liquids (flowing, standing, ponded) - discolored, odorous	Water observed in catch basins clear.	Storm run-off
5)	Odors (solvent, petroleum, etc.)	N.O.	
6)	Containers (drums, pails, bags, boxes, barrels)	Wooden platforms on north side site.	Debris discarded on site.
7)	Fill pipes (pipes sticking out of ground)	N.O.	
8)	Roads, paths, trails, railroad tracks or railroad track bedding	Railway located through center of site.	Transport of materia on site
9)	Manholes, drainage ditches, culverts, gullies	Galley with water supply pipes from northwest corner to southwest (Barge Canal)	?
	4/1/88	N.O. = Not Observed N.R. = None Reported N.A. = Not Applicable	A-1

PRO	PERTY CONDITION	LOCATION	SIGNIFICANCE
10)	Discolored water, oil film, foaming, etc.	N.O.	
11)	Stock-piled materials (road salt, coal, etc.)	N.O	
12)	Buildings	Pump house on barge canal.	Ceiling tiles and electrical equipment
• 13)	Stained or discolored walls, floors, ceilings	N.O.	may contain asbestos
14)	Unpaved parking lots	N.O.	
15)	Pollution control equipment	N.O.	
16)	Raw material receiving and storage areas	N.O.	
17)	Sanitary, process waste and storm sewers and pump stations	N.O.	
18)	Electrical transformers	Northwest corner site	"Non-PCB labeled
19)	Fuel storage and transfer lines	N.O.	
20)	Process tanks, vats, pits, ponds, lagoons	N.O.	
21)	Waste disposal areas	N.O.	
22)	Indications of asbestos and other similar materials	Possible in pump house.	See site assessment
23)	Other (describe)		

ADJACENT PROPERTY

24)	Location (Sout	ons (in relati h) Barge Cana	ion to project): <u>(North) General Cable Corp.</u> l (Northeast) Mosca Brother Moving and Storage
25)	Physica area	al characteris are generally	stics (by property): Property and surrounding
26)	Apparen remai	nt property co	onditions: General Cable Corp fair/ is in realitively good condition.
27)	Signifi		perty conditions: Possible contamination from
28)	Other (describe):	
Atta	chments List:		nspection Guide: Yes X No
	7-30-		Empire Soils Investigations, Inc.
	Da	te	ENVIRONMENTAL CONSULTING FIRM
		:	By: Sean Pepling
		•	Title: <u>Geologist</u>

EXHIBIT B(1)

ENVIRONMENTAL QUESTIONNAIRE

(Used for any new development and all existing non-industrial or non-manufacturing facilities)

(Privileged and Confidential)

INSTRUCTIONS: Please complete the following questionnaire as completely as possible. If you have any questions about how to answer the question, answer to the best of your ability, and indicate your question. If additional pages are necessary to fully respond to the question, please mark each page "Privileged and Confidential" and attach them to this questionnaire. Also, please attach copies of any requested documents. If copies cannot be made, please indicate that, and have the originals available for review during our visit to your facility.

I. <u>GENERAL BACKGROUND</u>	INFORMATION:
------------------------------	--------------

1.	Address of Facilit	y: Rome Cogeneration Facility
		Mill Street
	m - 1	Rome, New York
	Telephone: County:	() Oneida

- Name and position of person responding to this questionnaire: <u>Sean Pepling, Geologist</u>
- Describe the general character of the facility site and the surrounding area (including terrain, location of wetlands, coastlines, rivers, streams, lakes, springs, drinking water wells, roads, water intake and discharge structures, landmarks, flood plains, etc.):

The site shows little topographic relief and is bordered to the south by the NYS Barge Canal.

4. Describe the facility (including the age and date of construction of the facility or its structures) and each of its operations or processes:

Presently abandoned concrete parking area for General Cable Corp. (adjacent) (1920-1974).

5. Describe all known former uses of the facility, whether carried out under the current ownership, or any prior ownership:

Parking, shipping, water pumpage from Barge Canal.

6. Does any person, firm or corporation other than the owner occupy the site or any part of it? If yes, identify them and describe their use of the property.

N.O.

Have there been any spills, releases, or unpermitted discharges at or near the facility (including neighboring properties)? If so, describe; and attach any incident reports and the results of any investigations:

None Reported

8. Has the facility ever been the subject of any enforcement actions by any federal, state, or local government entities, or does the facility have knowledge of any contemplated enforcement actions? If so, state the results of the enforcement action (consent order, penalties, no action, etc.) and describe the circumstances:

None Reported

9. Is the facility now under any state, federal or local agency orders or consent decrees? If so, attach them to this response.

N.O.

10. Have there been any formal or informal citizen complaints regarding the facility? If so, did they result in the filing of a notice of citizen suit, or a civil complaint, or other administrative or criminal procedure? If so, describe in full detail:

None Reported

- II. SOLID AND HAZARDOUS WASTES:
- 11. Does the facility generate any solid or hazardous wastes? If so, provide the facility's EPA (or State) identification number: N.O.

- Does the facility have any RCRA Hazardous Waste Permits? please attach to this questionnaire.
 - Generator
 - b) Transporter
 - Treatment, Storage, Disposal Facility

None

· 13. of the facility's solid or hazardous wastes If so, attach the results of any analyses done on those analyzed? wastes.

N.A.

14. Identify the transporter of any hazardous wastes, and attach a copy of the transporter's permits and invoices from the last two years for the transport of wastes.

N.A.

Identify the solid or hazardous waste disposal or treatment fa-15. cilities which receive the facility's wastes, and attach a copy of the applicable permits and invoices from the last two years.

N.A.

Does the facility treat or dispose of any wastes on site (including without limitation incineration, reclamation, neutralization or recovery)? If so, describe in full, and attach any applicable permits.

N.A.

Attach copies of the hazardous waste manifests for the years and all annual/biennial reports on hazardous wastes.

N.A.

18. Does the facility transfer, incinerate, process, or store any non-hazardous solid wastes or hazardous wastes, other than refuse-derived fuel or waste oil, which is generated off-site? If so, describe:

N.A.

19. Does the facility accumulate and store any hazardous wastes on site for disposal for longer than 90 days? If so, identify the substance, the quantity and describe how it is stored:

N.A.

20. Identify all hazardous wastes generated at the facility, and as to each, state its hazardous characteristics (toxicity, reactivity, corrosivity, ignitability) and whether it is a listed hazardous waste:

N.A.

- III. SURFACE WATER/WATER QUALITY/DISCHARGE TO MUNICIPAL SEWAGE TREATMENT PLANT:
- 21. Identify and attach all permits at the facility relating to all facility discharges to water, including discharges of waste water, process water, contact or non-contact cooling water, storm water, as well as water from cafeterias and restrooms.

N.A.

22. Has the facility tested the groundwater at or around its facility? If so, attach all analytical results.

N.A.

23. If any questionnaires have been completed and submitted to any federal, state, or local agencies relating to water, including industrial pretreatment questionnaires, please attach them.

N.A. 4/1/88 24. Is any waste deposited in or near surface or groundwaters? If so, describe in detail, including not only the receiving water's classification, but a description of the type and quantity of the wastes.

N.R.

25. Attach copies of the facility's Discharge Monitoring Reports for the last two years, if the facility is required by regulation to complete such reports.

N.A.

- IV. AIR POLLUTION
- 26. Are there any air emission sources that emit contaminants from the facility? If so, describe each such source, including whether it is a stationary combustion installation, process source, exhaust or ventilation system, incinerator, or other source:

None

27. Are any of the sources permitted? If so, attach each such permit. N.A.

V. SPILLS AND UNDERGROUND STORAGE TANKS

28. List and describe all above and below ground storage tanks used to store petroleum or gasoline products, or other chemicals or wastes, including the contents and capacity of each tank:

N.R.

29. List <u>all</u> underground storage tanks on site, even if they are not now in service, and state whether any notification has been filed with the local, state or federal government concerning existence of those tanks.

N.R.

30. Have there been any leaks, spills, releases or other discharges (including loss of inventory) associated with any of these tanks? If so, give full details, including the response taken, all analytical results or reports developed through investigation (whether internal or external), and the agencies which may have become involved.

N.R.

- VI. POLYCHLORINATED BIPHENYLS (PCB's) AND ASBESTOS:
- 31. Provide any records the facility has concerning any on-site PCBs or PCB equipment, whether used or stored, and whether produced as a by-product of the manufacturing process or otherwise. (PCBs are generally associated with transformers or capacitors, circuit breakers, voltage regulators, switches or cables.)

N.R.

32. Have there been any PCB spills, discharges or other accidents? If so, relate all the circumstances:

N.R.

33. Does the facility have any asbestos containing materials, including materials used to construct the building? If so, list:

Building materials in pump house may contain asbestos minerals, see site assessment.

Submitted by:

Date: 7-30-90

Firm: Empire Soils Investigations, Inc.

By: Sean Pepling

Its: Geologist

Signature:



July 2, 1990

Ms. Patricia Dwyer Director, Oneida County Health Department 800 Park Avenue Utica, New York 13501

Reference: Environmental Record Search

Rome, New York

Dear Ms. Dwyer:

I am writing this letter to request a records search under FOIL of the Oneida County Health Department files for information pertaining to the following site (see attached map):

Mill Street Rome, New York

The information requested is part of an environmental site assessment being conducted by our firm. Specific information requested is, but is not limited to:

- Inactive Hazardous Waste Sites
- Permited Hazardous Waste Generators or Storage Facilities
- Landfills
- Spill Incidents
- Air Emissions
- Consent Orders
- SPDES Permits

which may be at or near (within a half-mile radius) the property.

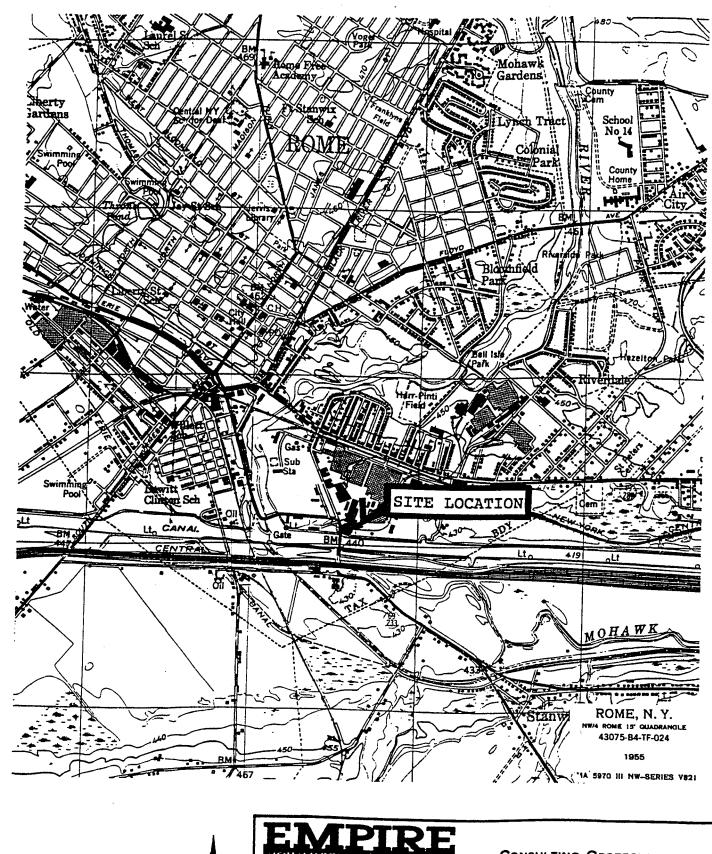
We thank you for your prompt attention. If you have any questions, please call me at 607-898-5881.

Sincerely,

EMPIRE SOILS INVESTIGATIONS, INC.

Ann K. Moore Geologist

Enc. Map





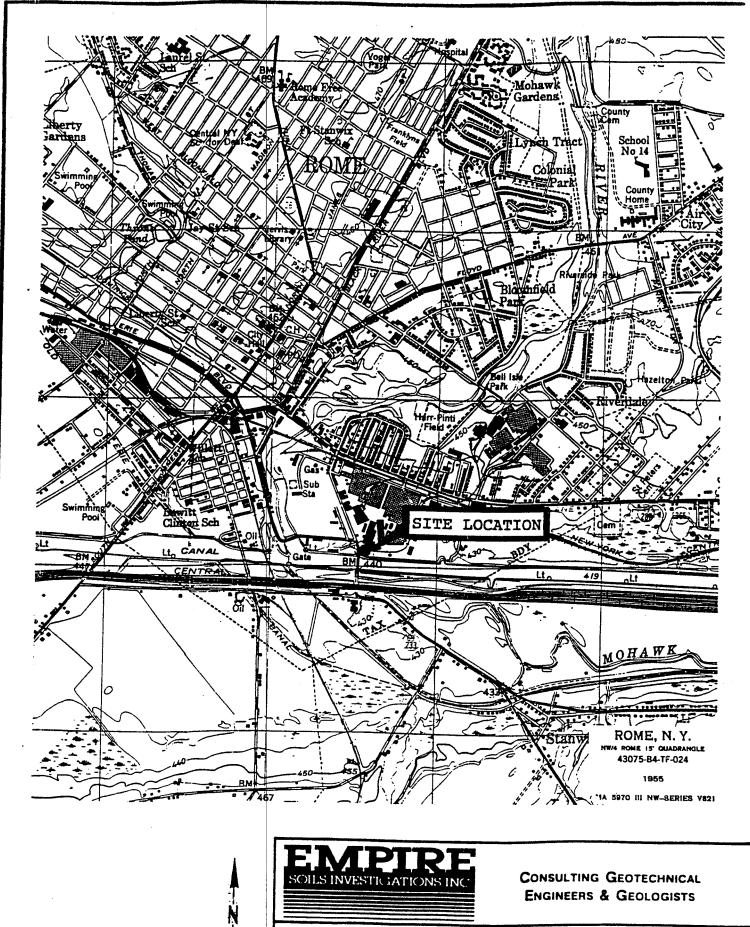
CONSULTING GEOTECHNICAL ENGINEERS & GEOLOGISTS

SITE LOCATION PLAN ENVIRONMENTAL SITE ASSESSMENT MILL ST. KONE, NEW YORK

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REV'D. BY:

IDATE TIME 1990 IDAWE NO



SITE LOCATION PLAN ENVIRONMENTAL SITE ASSESSMENT MILL ST.

ROME, NEW YORK

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REV'D. BY:

DATE TOUT 1990 IDAWG NO