LITERATURE SEARCH
FOR THE
MALTA ROCKET FUEL AREA
SUPERFUND SITE
TOWNS OF MALTA AND STILLWATER
SARATOGA COUNTY, NEW YORK

Volume II

October 1991

RECEIVED
DEC 16 1991
DEPT. OF ENVIRONMENTAL CONSERVATION
REGIONAL ENGINEER REGION 5
RAY BROOK, NEW YORK 12977

Prepared by

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Plainview, New York 11803

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B. List of Pertinent Documents Reviewed in the Literature Search.

C. Summary of Analytical Results.

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E. Historical Photographs.

APPENDIX A

NEW YORK STATE 1A
CULTURAL RESOURCE SURVEY

REPORT FOR ARCHEOLOGICAL POTENTIAL
SEQR PARTS 1A & 3

MALTA ROCKET FUEL AREA
SUPERFUND SITE
TOWNS OF MALTA AND STILLWATER
SARATOGA COUNTY, NEW YORK

Submitted To:

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ENVIRONMENTAL PROGRAMS
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SEPTEMBER 1991

PART 1A: REPORT FOR ARCHEOLOGICAL POTENTIAL

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Date: September 27, 1991

A. PROJECT INFORMATION

Location of Proposed Action: The study area is located off Plains Road, east of the hamlet of Malta and south of Saratoga Lake in the Town of Malta, Saratoga County, New York (Map 1). A small portion of the study area crosses into the Town of Stillwater.

Description of Undertaking: The study area is a Superfund Site, where a remedial investigation will be conducted in compliance with an Environmental Protection Agency Administrative order.

Estimated Size of Impact Area: The Malta Rocket Fuel Area encompasses approximately 445 acres. The testing site consists of about 165 acres and the remainder of the property consists of 280 acres.

Description of Impact: Impacts to the study area will result from surface and subsurface testing including soil borings and test wells. Most activity will be in the 165 acre parcel while limited testing will be located in the 280 acre parcel. Further disturbance in the larger parcel may occur since some areas may need to be cleared of trees prior to testing.

B. ENVIRONMENTAL INFORMATION

Topography: Elevations north of the access road leading in to the study area range from about 330 feet above sea level to about 350 feet (Photo 1). Several depressions are scattered through this portion of the study area, possibly from mining activities. Elevations south of the access road are approximately 330 feet except for 2 ravines where elevations drop severely down to about 250 feet above sea level.

Geology: The study area is underlaid by Ordovician age Canajoharie shale of the Lorraine, Trenton and Black River groups (Fisher et al. 1970).

Soils: The soils of the study area are described as occupying Colonie, Plymouth and Windsor areas. The dominant soils of these areas are characterized as sandy soils with little gravel and low water-holding capacity (Cline and Marshall 1976).

Drainage: The soils of the study area are described as well drained.

Vegetation: The 165 acre test site has been developed and contains buildings, blacktop and some lawn areas while the 280 acre parcel is generally wooded.

Forest Zone: The study area lies within an area of transition between the Appalachian Oak and Northern Hardwood forest zones. White oak and northern red oak predominate in the former while maple, birch, beech and hemlock are predominant in the latter (Kuchler 1964).

Manmade Features and Alterations: The southeastern portion of the study area, the 165 acre parcel, was used for rocket engine research in the 1950s and 1960s. By 1968, the area was used predominantly for artillery test firing. This area has been extensively disturbed. Impacts have resulted from the construction of buildings and roadways and by the installation of water, sewer and electrical utilities. Also, based on a draft literature review of site activities prepared by Geraghty & Miller, much of the area has been disturbed by activities associated with the use of the site as a testing facility, such as dumping, burning and landscape modifications. According to Geraghty & Miller, the 280 acre parcel has undergone very little disturbance. The GE/Exxon Nuclear Building is located in the western end. Several unpaved roads run off the access road and traverse this parcel (Photo 2). Also, several areas of depression are indicated on the 1954 topographic map but not on the earlier topographic maps. These may represent mining activities associated with the test site.

C. DOCUMENTARY RESEARCH

1. Site Files (within 1 mile radius)

a. Office of Parks, Recreation and Historic Preservation (OPRHP)

- **State Inventory**

One archeological site is listed in the OPRHP files within one mile of the study area (Appendix 1). This site, the DiDonna Site (OPRHP #A091-11-0270) is located approximately one mile north of the study area near the southern end of Saratoga Lake. Although no information is given on the site form, given its location it is probably prehistoric. Two additional prehistoric sites, Brown's Beach and Post Office Creek Sites, are also located along Saratoga Lake just outside the one mile radius. The Brown's Beach site is described as a surface scatter of flakes and the Post Office Creek Site is simply described as "materials eroded down from above."

No historic archeological sites or historic structures are listed in the OPRHP files within one mile of the study area.

- **State Register**
- **National Register**

No sites listed on the State/National Register are located within one mile of the study area.

- **National Register eligible listing**

No known sites eligible for listing on the National Register are located within one mile of the study area.

- **State/National Register proposed**

No sites proposed for the State/National Register are located within one mile of the study area.

b. State Museum

Two prehistoric archeological sites are listed in the files of the New York State Museum (NYSM) within one mile of the study area (Map 1). These sites, ACP Sara-5 (NYSM #4699) and ACP Sara (NYSM #6481) are sites reported by Arthur C. Parker in the 1920s and are located along the shores of Saratoga Lake. Parker describes these sites as camps. Two additional prehistoric sites, the Post Office Creek Sites #3 and #4, are also located along Saratoga Lake just outside the one mile radius of the study area. The site findings of the Post Office Creek #3 site include scattered flakes while the Post Office Creek #4 is described as materials eroding from a small creek. [The Post Office Creek Sites appear to be the same sites as those listed in the OPRHP files (see above - Post Office Creek and Brown's Beach sites) although the Brown's Beach site filed at the OPRHP is called the Post Office Creek #3 in the NYSM.]

2. REFERENCES (Sources marked in the listing below have been examined for prehistoric sites in the vicinity of the project area. Page numbers are provided for references to within a mile of the project area.)

a. Texts

__X__ **Beauchamp, William**
1900 Aboriginal Occupation of New York. New York State Museum Bulletin No. 32. Albany, New York (p.).

__X__ **Funk, Robert E.**
1976 Recent Contributions to Hudson Valley Prehistory. New York State Memoir 22. Albany, New York (p.).

__X__ Parker, Arthur
1920 The Archeological History of New York. New York State Museum Bulletin NOs. 237, 238. Albany, New York (p.689).

__X__ Ritchie, William A.
1969 The Archaeology of New York State. Natural History Press. Garden City, New York (p.).

__X__ Ritchie, William A. and Robert E. Funk
1973 Aboriginal Settlement Patterns in the Northeast. New York State Museum and Science Service Memoir No. 20. Albany, New York (p.).

__X__ Other (see attached bibliography)

b. Maps

__X__ Beers, F.W.
1866 County Atlas of Saratoga.

__X__ Burr, D.H.
1829 Atlas of New York State. Stone and Clark, New York.

____ Library of Congress
1981 Fire Insurance Maps in Library of Congress.

____ Stone and Stewart, Publishers
18_ New Topographical Atlas of _____ County.

__X__ Other (see attached bibliography)

3. Previous Surveys

__X__ None recorded in OPRHP files

____ Survey(s) completed for project area

4. Sensitivity Assessment/Site Prediction

Prehistoric Sensitivity

Several prehistoric archeological sites are located within the vicinity of the study area, although they are located along the shores of Saratoga Lake. According to an evaluation of archeological sensitivity for prehistoric sites provided by the NYSM, the study area is considered to have an average probability of producing prehistoric archeological data (Appendix 2). This rating is based on the physiographic characteristics which suggest a medium probability of prehistoric occupation or use. The portions of the study area considered to be more sensitive include those areas near the small streams located south of the access road.

Historic Sensitivity

No historic archeological sites or structures are recorded in the files of the OPRHP within one mile of the study area.

Nine historic maps were examined for this report. These include one 18th century map (Map 2), four 19th century maps (Maps 3-6) and 3 USGS topographic maps (Maps 7-9). The general vicinity of the study area is indicated on the 1779 Sauthier map (Map 2) and the 1829 Burr map (Map 3). These maps do not show structures but do indicate that by the early 19th century many of the roads seen on the subsequent maps are already established. Examination of the mid to late 19th century maps indicates that several structures had been located within or immediately adjacent to the Malta Rocket Fuel Area. The 1856 Geil map (Map 4) shows six structures in or adjacent to the study area along the northern side of the roadway that runs between Plains Road and Cold Springs Road and one structure along the southern side. Names associated with these structures, from west to east, include B. Vail (opposite Plains Road), B. Harris, E.J. Bancker, B. Langsing (the only one shown on the south side within the study area) and R. Ross. One of the structures is not associated with a name but is located adjacent to the Bancker structure. All but the unnamed structure are also shown on the 1866 Beers map and the 1890 Silvernail map (Maps 5 and 6). The names on the 1866 map include B. Vail, L. Benedict, J. Higgins (on south side of road), N. Devin and J. Davey.

Maps 7, 8, and 9 are USGS topographic maps dating to 1898/1909, 1930, and 1954. The study area as shown on the 1898/1909 map greatly resembles that of the 19th century maps. The five structures are still shown in or immediately adjacent to the study area. However, the 1930 map shows the roadway as unimproved and all structures between Plains Road and the Malta/Stillwater town line are no longer indicated. The 1954 map shows the study area greatly resembling that of today and identifies it as a U.S. Military reservation - testing station.

Site Visit

Examination of historic maps indicates that several structures were located in or immediately adjacent to the study area along the road that runs from Plains Road to Cold Springs Road and which now serves as access to the test site. All of the structures were gone prior to construction of the Malta test site. A site visit conducted on September 27, 1991 located the remains of four of these structures (Map 10). A surface scatter of large rocks and trash typical of a household was noted in the vicinity of the Vail house, at the intersection of the access road and Plains Road. The house appears to have been located immediately outside the boundaries of the study area. A cellar hole was located in the vicinity of the Bancker/Devin structure (Photos 3 and 4). The cellar hole of the main chamber of the structure was approximately 30 feet by 20 feet with what might have been a cellar entrance located in the southern part of the east wall. A small chamber was located to the west of the cellar hole. The foundation consisted of large unmortared rocks. Some bricks were noted along the east wall and fragments of a large crock and some glass were located in the vicinity of the cellar hole.

For both the Harris/Benedict structure and the unnamed structure that is shown on the 1856 map, no cellar hole was found. However, a pile of large rocks, similar to those used in the foundation of the Bancker/Devin structure, was found in the vicinity of each of these structures (Photos 5 and 6).

No remains of the Langsing/Higgins structure were visible at the time of the site visit. The structure appears to have been located in an area that has been disturbed by construction of the testing facility and by bulldozing activities (Map 10). Access into the 165 acre test site was not available to search for any remains of the Ross structure. However, due to construction and testing activities, it is likely that any archeological remains that might have existed of the Ross structure are no longer intact.

The area identified as an ice pond on the study area map was located and photographed during the site visit. It is not associated with any of the structures shown on the historic maps. The pond appears to have been lined with plastic. A shed or garage type building is located south of the pond (Photo 7). A fire hydrant and piping were noted nearby. Several concrete platforms are located north of the pond, two had large anchoring pins.

5. Recommendations

Based on the location of known prehistoric archeological sites, the physiographic characteristics of the study area and an evaluation of prehistoric sensitivity provided by the NYSM, it is moderately possible that the study area contains prehistoric archeological material. The location of three historic structures indicated on historic maps was substantiated by a site visit. The remains of two of these structures, the Harris/Benedict structure and the 1856 unnamed structure, appear to have been disturbed. The cellar hole of the of the Bancker/Devin structure does not appear to have been disturbed. No testing is proposed in or immediately adjacent to this site. Also, since most of the testing associated with the remedial investigation will be conducted in areas already extensively disturbed, it is not likely that intact archeological deposits will be impacted. Therefore, no archeological testing is recommended at this time.

6. Attachment

__X__ Topographic map

____ Project map/site plan

____ Environmental Assessment Form

__X__ State Museum Correspondence

__X__ Site File Information

____ Previous survey information

__X__ Other (specify)

Historic maps

END OF PART 1A

PART 3: SUPPORTIVE DATA

Reports should include the items listed below. Bracketed information is optional. Put a check mark next to each item appended. Please note: Most attachments listed below often provide precise locational and compositional data on archeological sites. This information is confidential to protect the resource from vandalism. All attachments with specific information should be omitted from report copies which will be available to the general public.

- **X** qualifications of principal investigator(s)
- **X** topographic map with the project area noted
- **n/a** map(s) of test locations, field inspection, and areas of cultural material; [map(s) must have title, bar scale and directional arrow)
- **n/a** artifact catalog
- **n/a** record of soil stratigraphy in each test unit
- **X** copies of relevant, supplemental historic maps
- **X** site inventory forms (mark "Confidential: for Agency Use Only")

For reports on survey which include Site Evaluation and Definition (Part 2 above), the following items should also be included:

- ___ project area map with site boundaries delineated (mark "Confidential: for Agency Use Only.")
- ___ soil profiles
- ___ photographs, as appropriate, characterizing the project area and documenting salient cultural remains
- ___ recommendations

Certification: I certify that I directed the cultural resource investigation reported here, that my observations and methods are fully reported and that this report is complete and accurate to the best of my knowledge.

9/30/91
date

Karen S. Hartgen
signature of preparer

BIBLIOGRAPHY

Cline, M.G. and R.L. Marshall
1976 Soils of New York Landscapes.

Fisher, Donald, Yngvar W. Isachsen and Lawrence V. Rickard
1970 Geologic Map of New York, Hudson Mohawk Sheet. Albany: State University of New York, State Museum and Science Service.

Geil, Samuel
1856 Map of Saratoga County, New York.

Kuchler, August W.
1964 Potential Vegetation of the Coterminous United States. American Geographical Society.

New York State Department of Transportation
1974 Mechanicville 7.5' Topographic Quadrangle.

1974 Round Lake 7.5' Topographic Quadrangle.

Sauthier, Claude Joseph
1779 A Chorographical Map of the Province of New York in North America.

Silvernail
1890 Map of Saratoga County, New York.

United States Geological Survey
1898 Schenectady 15' Topographic Quadrangle. Reprinted 1909.

1930 Schenectady 15' Topographic Quadrangle.

1954 Round Lake 7.5' Topographic Quadrangle.

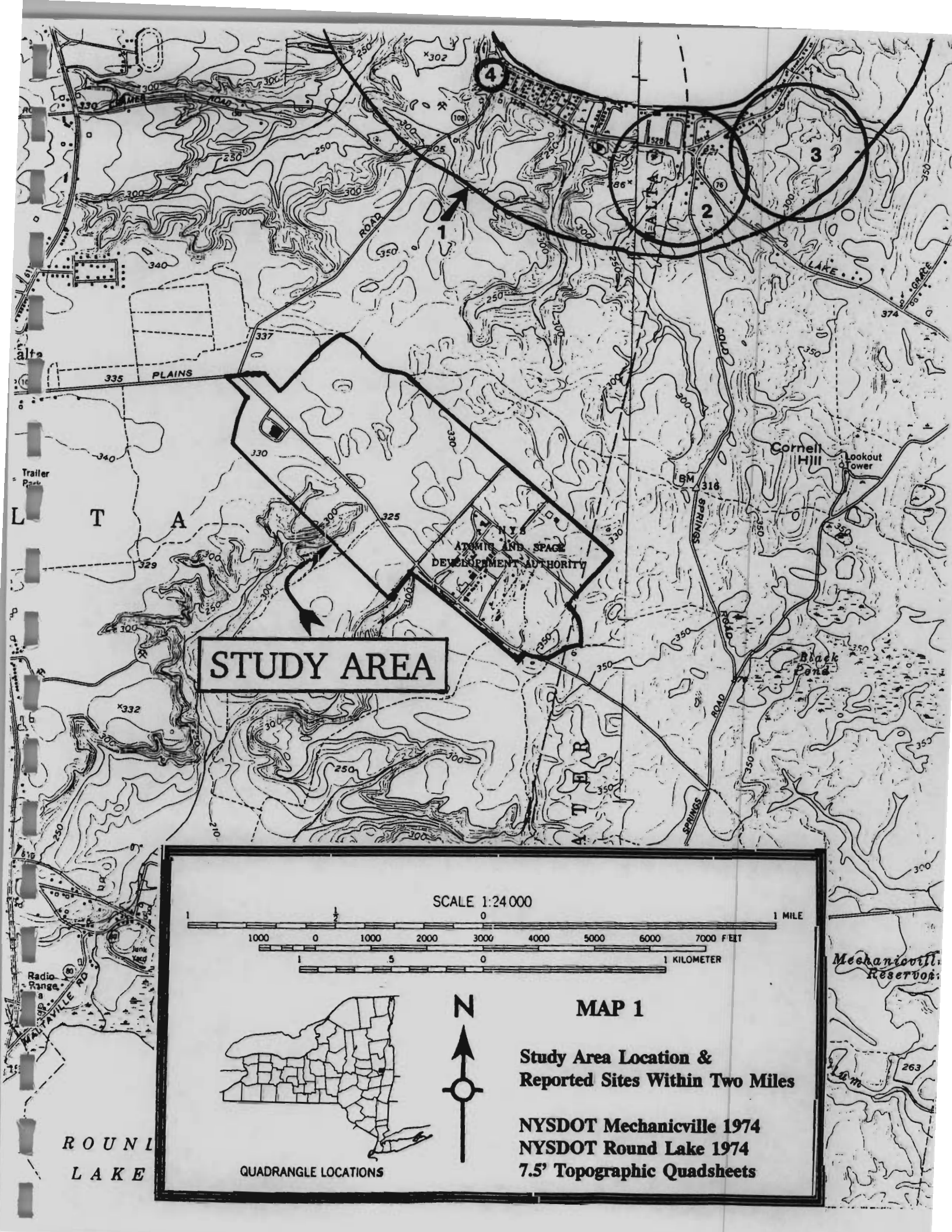
MAPS

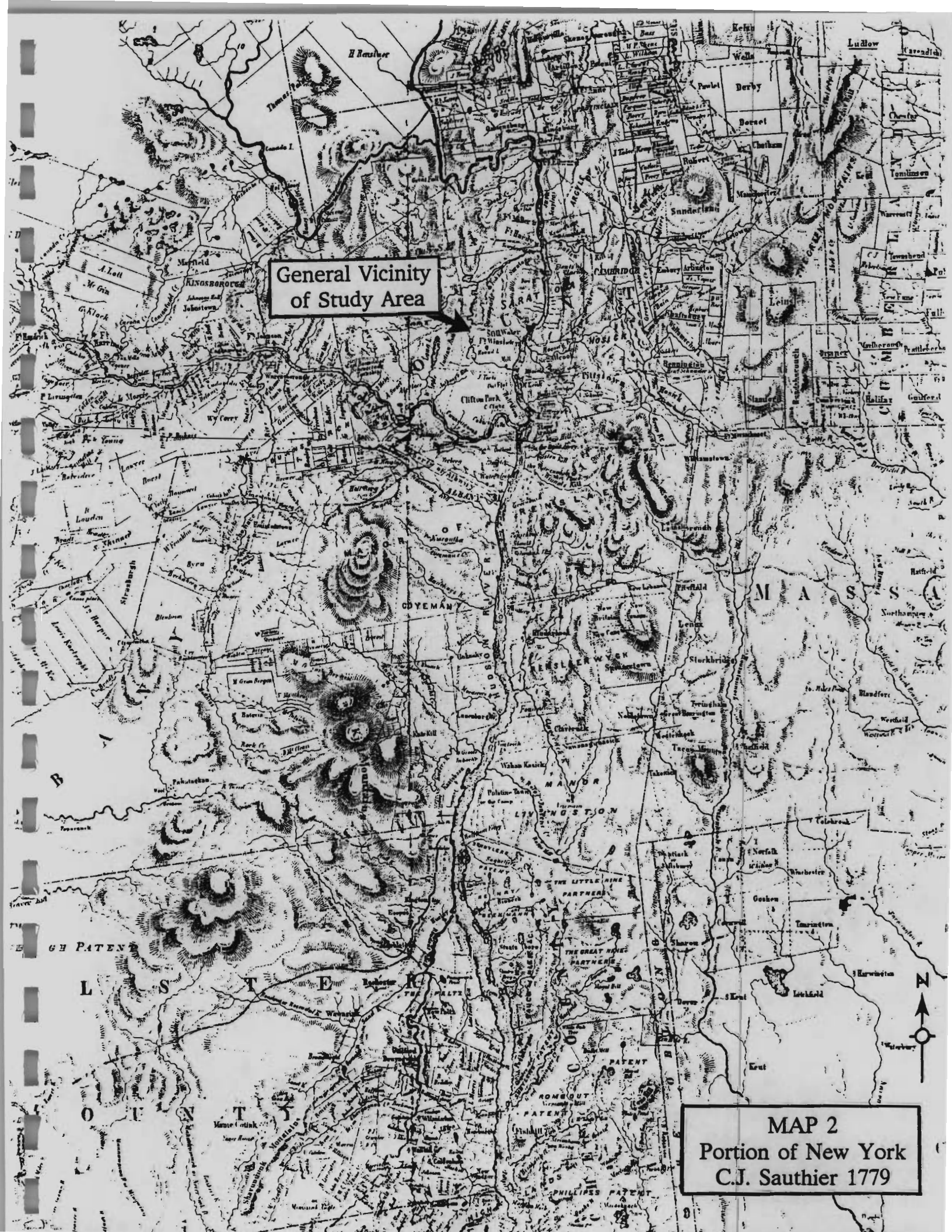
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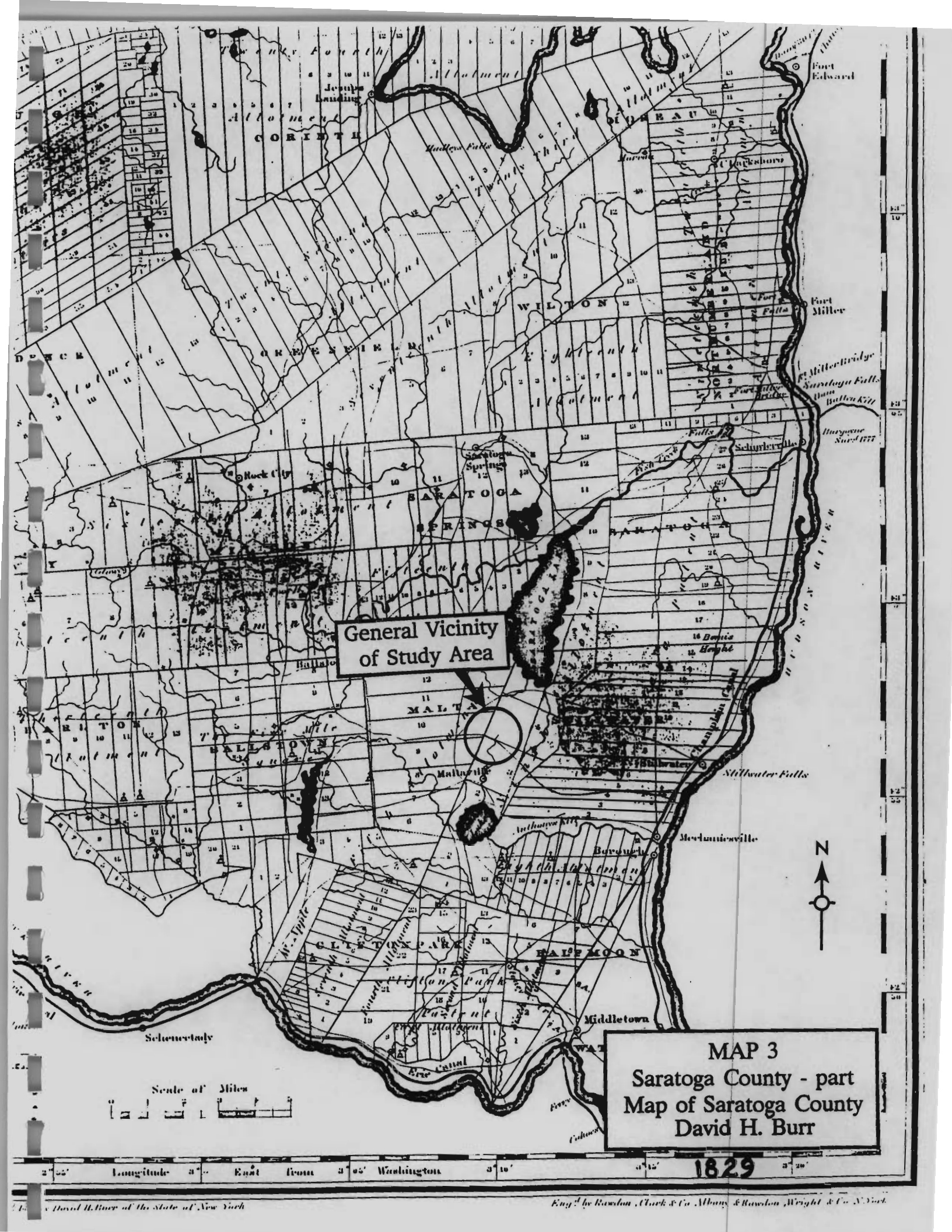
1. Study Area Location & Reported Sites Within Two Miles (NYSDOT Mechanicville 1974, NYSDOT Round Lake 1974)
2. New York (Sauthier 1779)
3. Saratoga County (Burr 1829)
4. Towns of Malta and Stillwater (Geil 1856)
5. Towns of Malta and Stillwater (Beers 1866)
6. Saratoga County (Silvernail 1890)
7. Study Area Location (USGS Schenectady 1898/1909)
8. Study Area Location (USGS Schenectady 1930)
9. Study Area Location (USGS Round Lake 1954)
10. Study Area with Approximate Locations of Structures Shown on Historic Maps (Base Map by Geraghty & Miller 1991)

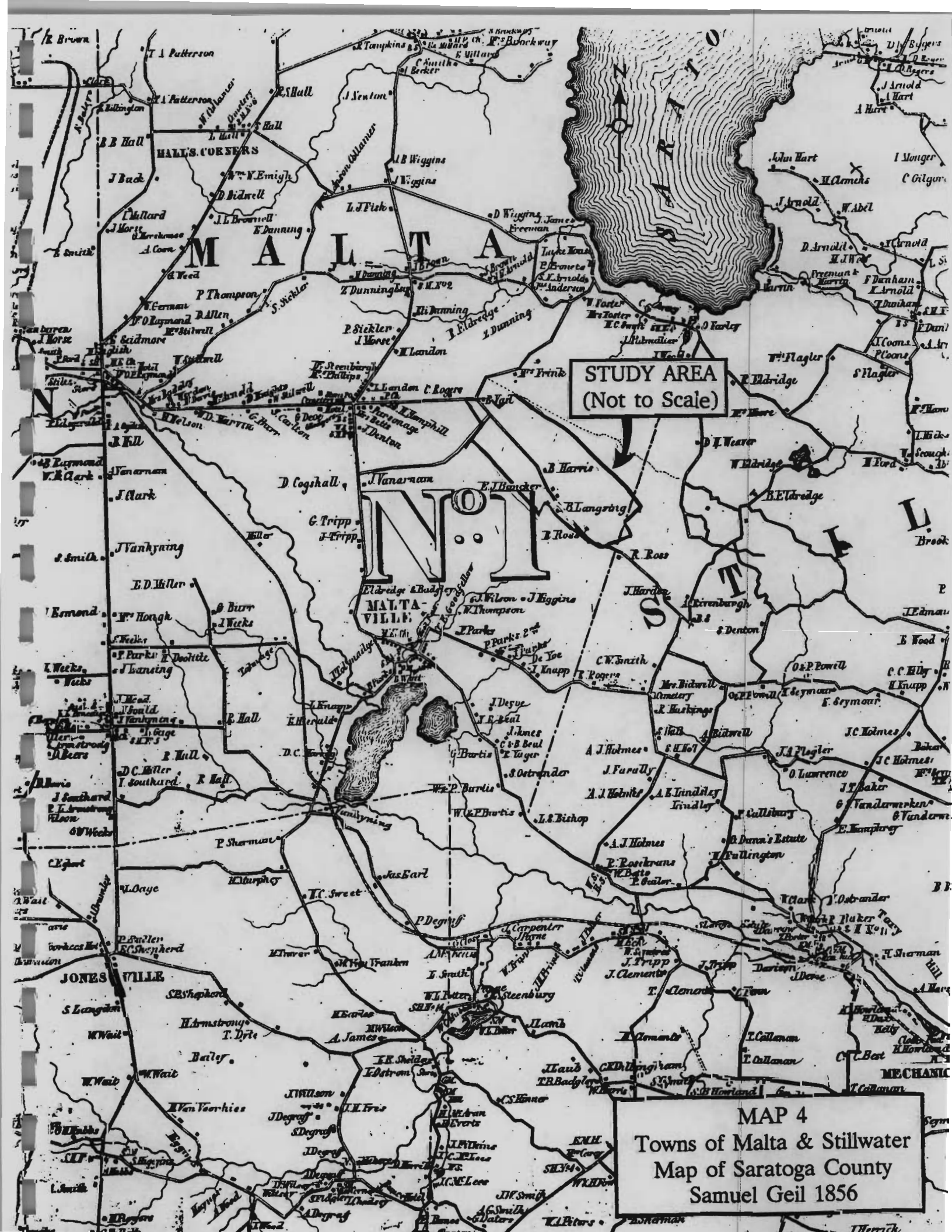
MAP 1 LEGEND: Reported Archeological Sites Within 2 Mile Radius

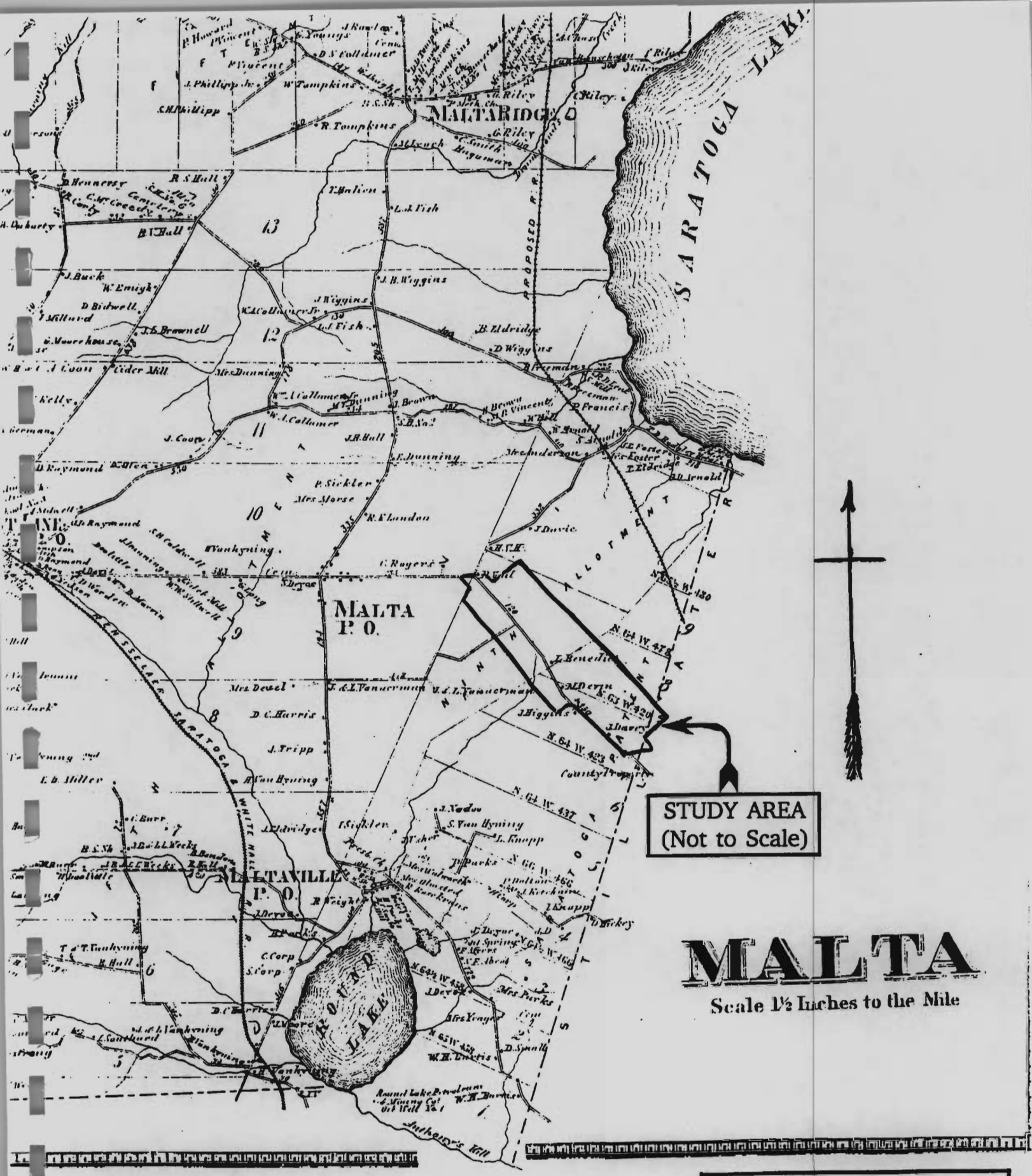
Map Ref#	OPRHP Site#	NYSM #	Site Identifier	Site Description
1		4699	ACP Sara-5	prehistoric; campsites
2		6481	ACP Sara no #	prehistoric; campsites
3	A091-17-0010	6486	Brown's Beach Site	prehistoric; flake scatter
	A091-17-0011	6487	Post Office Creek Site	prehistoric
4	A091-17-0270		DiDonna Site	prehistoric?;no information


STUDY AREA
N.Y.S. ATOMIC AND SPACE DEVELOPMENT AUTHORITY
SCALE 1:24 000
1 MILE
7000 FEET
1 KILOMETER
QUADRANGLE LOCATIONS
N
MAP 1
Study Area Location &
Reported Sites Within Two Miles
NYSDOT Mechanicville 1974
NYSDOT Round Lake 1974
7.5' Topographic Quadsheets

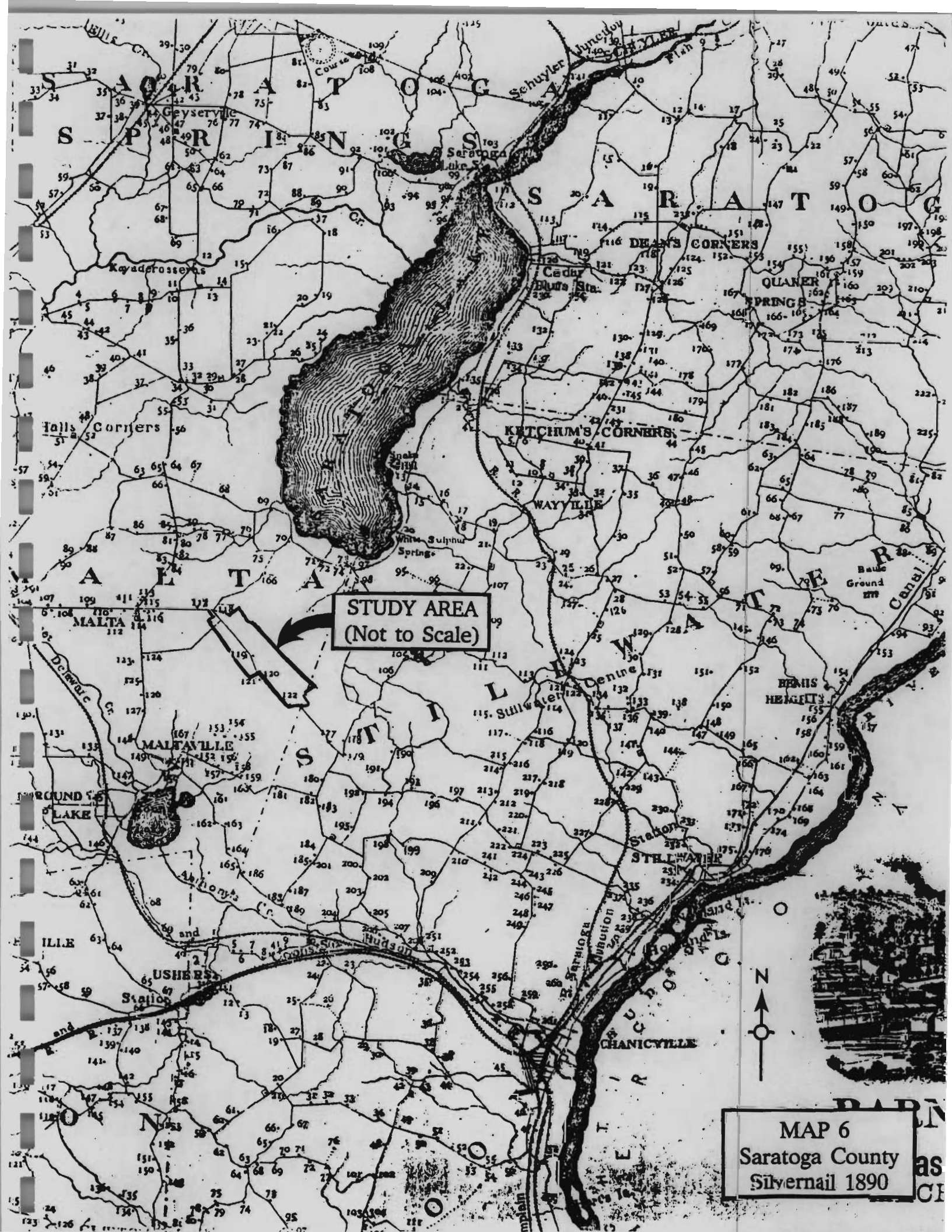

General Vicinity of Study Area
MAP 2
Portion of New York
C.J. Sauthier 1779

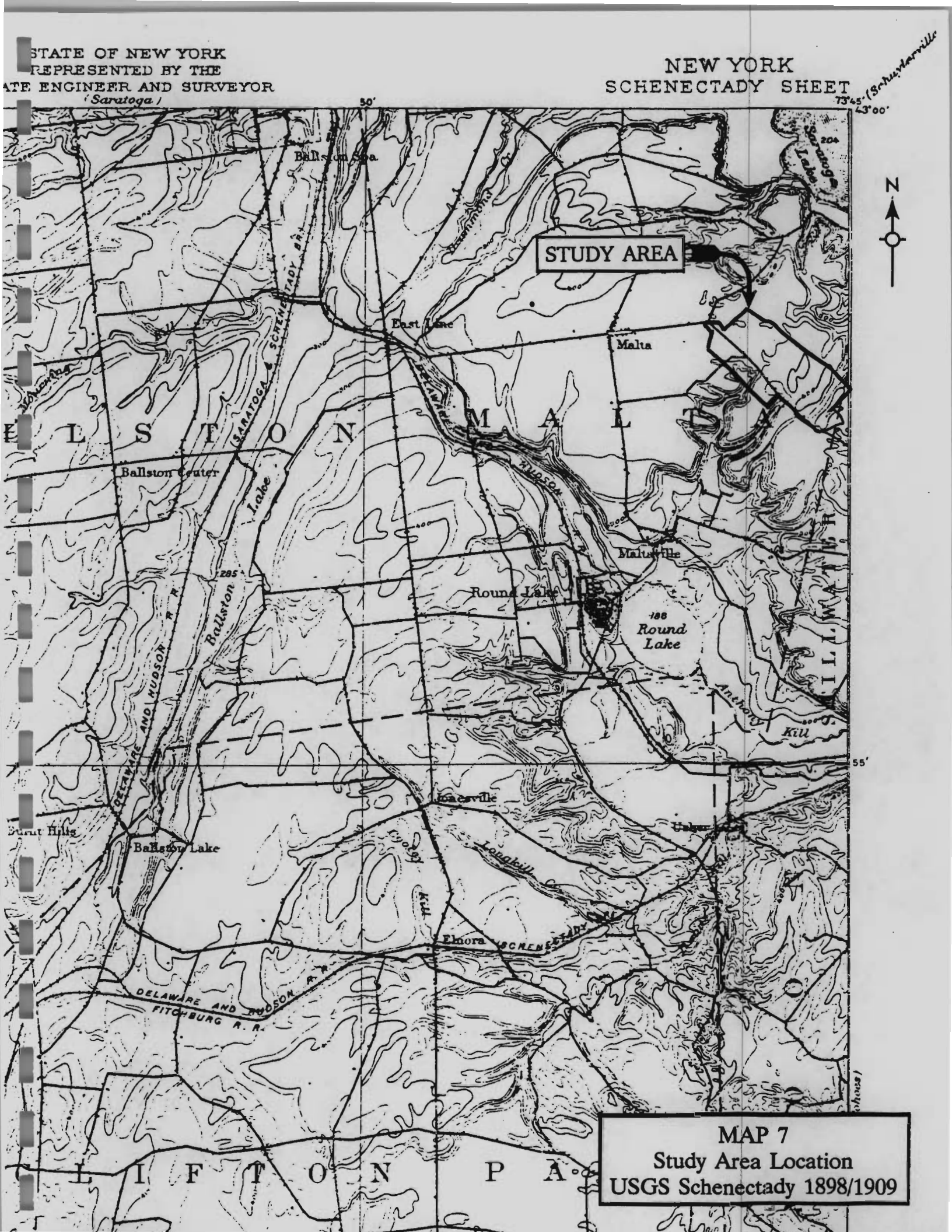

General Vicinity of Study Area
MAP 3
Saratoga County - part
Map of Saratoga County
David H. Burr
1829
Scale of Miles
N
CORINTH
WILTON
SARATOGA SPRINGS
MALTA
HALFMOON
CLIFTON PARK
Fort Edward
Fort Miller
Schuylerville
Stillwater
Mechanicsville
Middletown
Schenectady
Saratoga Springs
Rock City
Malta
Stillwater Falls
Fort Miller Bridge
Saratoga Falls
Batten Kill
Bemis Height
Hudson River
Champlain Canal
Erie Canal
Longitude East from Washington
Engd by Rawdon, Clark & Co. Albany & Rawdon, Wright & Co. N. York


STUDY AREA
(Not to Scale)
MALTA
N°1
STILL
HALLS CORNERS
MALTA-VILLE
JONESVILLE
MECHANIC
MAP 4
Towns of Malta & Stillwater
Map of Saratoga County
Samuel Geil 1856

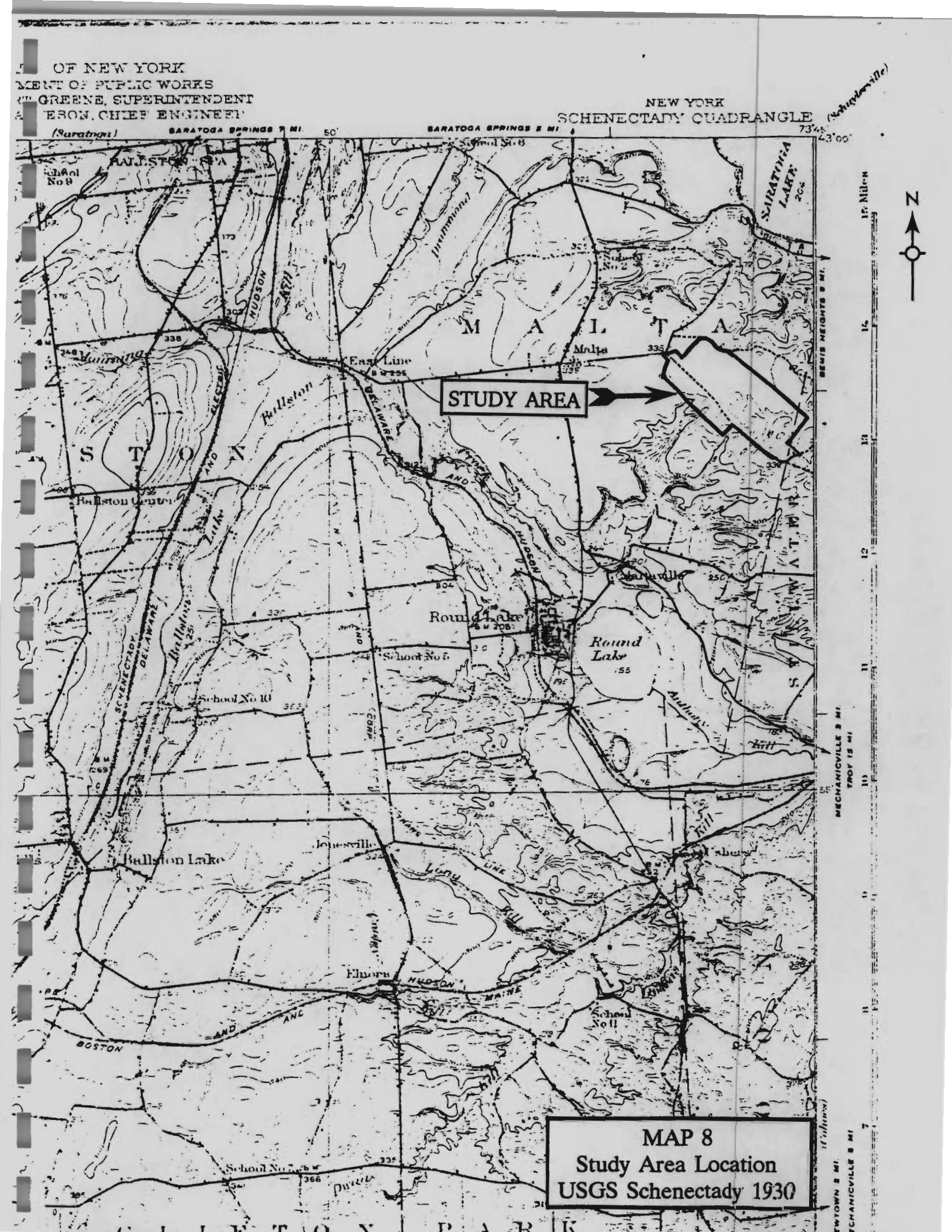


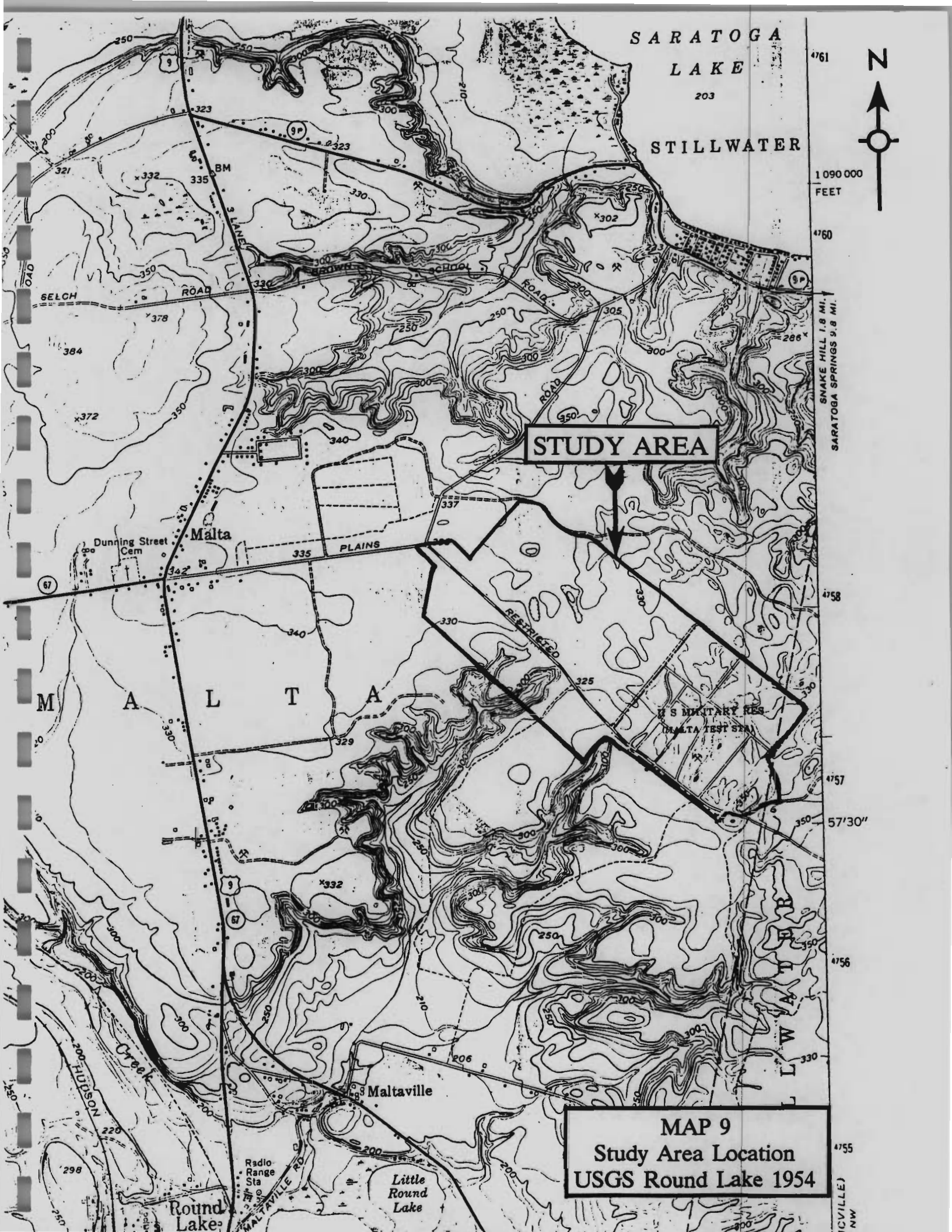
MAP 5
Town of Malta
Atlas of Saratoga County
S.N. & D.G. Beers 1866


STUDY AREA
(Not to Scale)
MAP 6
Saratoga County
Silvernail 1890
SARATOGA
SPRINGS
SARATOGA
MALTA
STILLWATER
WATERFORD
HALFMOON
CHANICVILLE
DEAN'S CORNERS
QUAKER SPRINGS
KETCHUM'S CORNERS
WAYVILLE
MALTAVILLE
BEMIS HEIGHTS
USHERS
Geyserville
Saratoga Lake
Cedar Bluffs Sta.
Halls Corners
White Sulphur Springs
Baute Ground
Hudson
Schuyler
Junction
N



MAP 7
Study Area Location
USGS Schenectady 1898/1909


OF NEW YORK
MENT OF PUBLIC WORKS
GREENE, SUPERINTENDENT
ERSON, CHIEF ENGINEER
NEW YORK
SCHENECTADY QUADRANGLE
STUDY AREA
MAP 8
Study Area Location
USGS Schenectady 1930


SARATOGA
LAKE
203
STILLWATER
N
1 090 000
FEET
4761
4760
4758
4757
4756
4755
57'30"
SNAKE HILL 1.8 MI.
SARATOGA SPRINGS 9.8 MI.
STUDY AREA
MALTA
Malta
Dunning Street Cem
PLAINS
ROAD
BROWN SCHOOL
3 LANE
RESTRICTED
U S MILITARY RES
(MALTA TEST STA)
Maltaville
Radio Range Sta
Round Lake
Little Round Lake
HUDSON
Creek
MAP 9
Study Area Location
USGS Round Lake 1954

Approximate Location of
Vail structure
surface scatter noted during site visit

280 ACRE PARCEL

GE/EXXON-NUCLEAR

WELL 4 (ABANDONED)

ICE POND

Approximate Location of
Harris/Benedict structure
pile of large rocks marks the area today

Approximate Location of
Bancker/Devin structure
cellar hole still exists

Approximate Location of
unnamed 1856 structure
pile of large rocks marks the area today

Approximate Location of
Langsing/Higgins structure
no surface remains noted during site visit

Approximate Location of
Ross/Davey structure
presumably destroyed by construction by testing site

165 ACRE TEST SITE

ROAD

N

0 1000 FT
SCALE

EXPLANATION

GERAGHTY & MILLER, INC.
Ground-Water Consultants

PREVIOUS SAMPLING LOCATIONS

- WATER SUPPLY WELL - LUTHER FOREST
- MONITORING WELL INSTALLED PRIOR TO JULY 1986 (G & M)
- MONITORING WELL INSTALLED JULY 1986 (B & B)
- WELL POINT SAMPLING LOCATION BY BLASLAND & BOUCK ENGINEERS
- N.Y.S.D.E.C. STREAM SAMPLING LOCATIONS
- BLASLAND & BOUCK STREAM SAMPLING LOCATION
- N.Y.S.D.O.H. STREAM SAMPLING LOCATION
- PRODUCTION WELL

- 6a RAVINE DESIGNATION
- APPROXIMATE PROPERTY LINE
- MALTA TEST FACILITY EASEMENT BOUNDARY
- APPROXIMATE GROUND-WATER FLOW DIRECTION
- DISPOSAL AREA
- DUNN GEOSCIENCE STREAM SAMPLING LOCATION (EARLY-WARNING SYSTEM)
- DUNN GEOSCIENCE MONITORING WELL (EARLY-WARNING SYSTEM)

PROPOSED SAMPLING LOCATIONS

- MONITORING WELL CLUSTER (2 WELLS)
- MONITORING WELL
- SOIL BORING
- STREAM AND SEDIMENT SAMPLING LOCATIONS
- SOIL SAMPLE LOCATION (BACKGROUND)

PHOTOGRAPHS



PHOTO 1: Typical topography and ground cover of the 280 acre portion of the study area north of the access road. View southeast.



PHOTO 2: One of several unpaved roads that traverse the 280 acre parcel of the study area. Other than the roads and some possible mining activities, this portion does not appear to have undergone extensive disturbance. View south from access road.



PHOTO 3: Cellar hole of the Bancker/Devin structure located on the north side of the access road. View northeast.



PHOTO 4: Southwest view of the Bancker/Devin structure looking towards the access road. The main chamber is in the foreground and the smaller chamber is shown in the right of the photo. What may have been an entry into the cellar is located behind the tree seen in the extreme left of the photo.

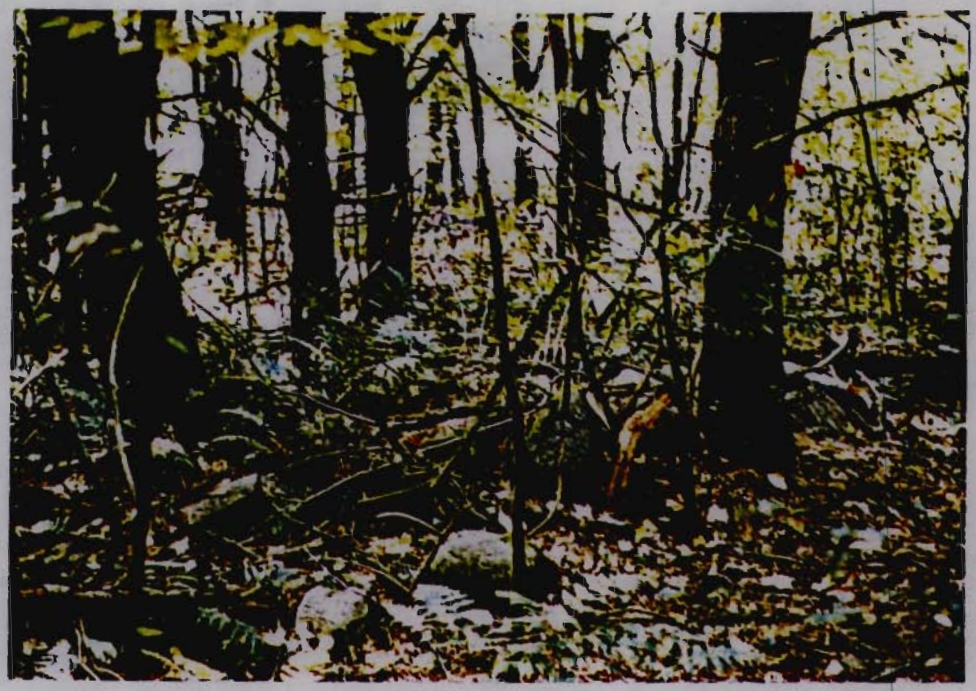


PHOTO 5: Pile of large rocks, similar to those used in the foundation of the Bancker/Devin structure, located in the vicinity of the structure associated with the names Harris and Benedict on the 19th century maps. View south.



PHOTO 6: Pile of large rocks located approximately 200 feet east of the Bancker/Devin cellar hole in the vicinity of the unnamed structure shown on the 1856 map. The archeologist is shown holding what may be part of a (wagon?) wheel. View southeast.



PHOTO 7: The ice pond and associated structure located in the 280 acre parcel just west of the northwest corner of the test site. The pond appears to have been lined with plastic (the blue material shown in the photo). Immediately to the east (left in the photo) of the shed-like building is a fire hydrant. Several concrete footings are located behind the photographer.

APPENDIX 1: OPRHP Site File Information

ARCHEOLOGICAL SITE INVENTORY FORM

DIVISION FOR HISTORIC PRESERVATION
NEW YORK STATE PARKS AND RECREATION
ALBANY, NEW YORK
518 474-0479

FOR OFFICE USE ONLY
UNIQUE SITE NO. A091-11-0270
QUAD.
SERIES
NEG. NO.

REPORTED BY: Stacy Berg

YOUR ADDRESS: _____ TELEPHONE: _____

ORGANIZATION (if any): Saratoga SD

DATE: July 1977

* *

1. SITE NAME: Site 2 - The DiDonna Site
2. COUNTY: Saratoga TOWN/~~CITY~~: Malta VILLAGE: _____
3. LOCATION: on the opposite side of Rte 9P from the DiDonna Property
4. PRESENT OWNER: _____
5. OWNER'S ADDRESS: _____
6. DESCRIPTION, CONDITION, EVIDENCE OF SITE:

- ☐ STANDING RUINS
- ☐ CELLAR HOLE WITH WALLS
- ☐ SURFACE TRACES VISIBLE
- ☐ WALLS WITHOUT CELLAR HOLE
- ☐ UNDER CULTIVATION
- ☐ EROSION
- ☐ UNDERWATER
- ☒ NO VISIBLE EVIDENCE
- ☐ OTHER _____

7. COLLECTION OF MATERIAL FROM SITE:

- ☐ SURFACE HUNTING BY WHOM _____ DATE _____
- ☒ TESTING BY WHOM Berg DATE June 1977
- ☐ EXCAVATION BY WHOM _____ DATE _____
- ☐ NONE

PRESENT REPOSITORY OF MATERIALS: _____

8. PREHISTORIC CULTURAL AFFILIATION OR DATE: _____

HISTORICAL DOCUMENTATION OF SITE:

POSSIBILITY OF SITE DESTRUCTION OR DISTURBANCE:

REMARKS:

MAP LOCATION

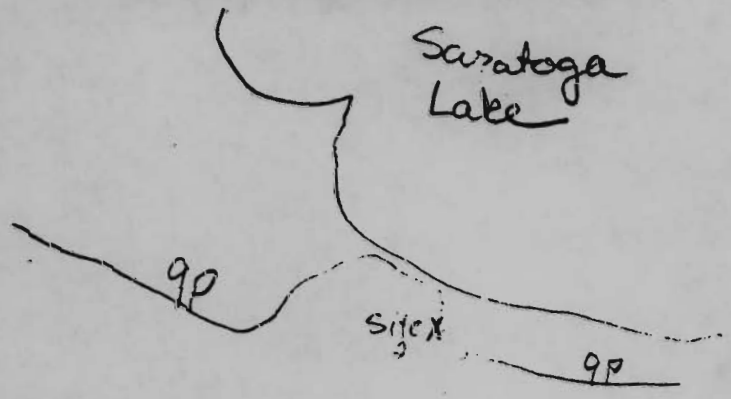
7 ½ MINUTE SERIES QUAD. NAME: Round Lake

15 MINUTE SERIES QUAD. NAME: _____

U.S.G.S. COORDINATES: _____

D.O.T. COORDINATES: (if known) _____

ATTACH SKETCH, TRACING OR COPY OF MAP



SOURCE OF MAP: 108

PHOTOGRAPHS (optional)

ARCHEOLOGICAL SITE INVENTORY FORM

DIVISION FOR HISTORIC PRESERVATION
NEW YORK STATE PARKS AND RECREATION
ALBANY, NEW YORK
518 474-0479

FOR OFFICE USE ONLY
UNIQUE SITE NO. A091-17-0011
QUAD.
SERIES
NEG. NO.

REPORTED BY: Gary Berg

YOUR ADDRESS: _____ TELEPHONE: _____

ORGANIZATION (if any): Saratoga SD

DATE: July 1977

* *

1. SITE NAME: Site 4 The Post Office Creek site
2. COUNTY: Saratoga TOWN/~~CITY~~: Stillwater VILLAGE: _____
3. LOCATION: East side of 9P at a point where a small feeder stream crosses highway
4. PRESENT OWNER: _____
5. OWNER'S ADDRESS: _____
6. DESCRIPTION, CONDITION, EVIDENCE OF SITE:

☐ STANDING RUINS ☐ CELLAR HOLE WITH WALLS
☐ SURFACE TRACES VISIBLE ☐ WALLS WITHOUT CELLAR HOLE
☐ UNDER CULTIVATION ☐ EROSION ☐ UNDERWATER
☒ NO VISIBLE EVIDENCE ☐ OTHER _____

7. COLLECTION OF MATERIAL FROM SITE:

☐ SURFACE HUNTING BY WHOM _____ DATE _____
☒ TESTING BY WHOM Berg DATE June 1977
☐ EXCAVATION BY WHOM _____ DATE _____
☐ NONE

PRESENT REPOSITORY OF MATERIALS: _____

8. PREHISTORIC CULTURAL AFFILIATION OR DATE: _____

HISTORICAL DOCUMENTATION OF SITE:

POSSIBILITY OF SITE DESTRUCTION OR DISTURBANCE:

REMARKS: materials believed to have eroded down from above

MAP LOCATION

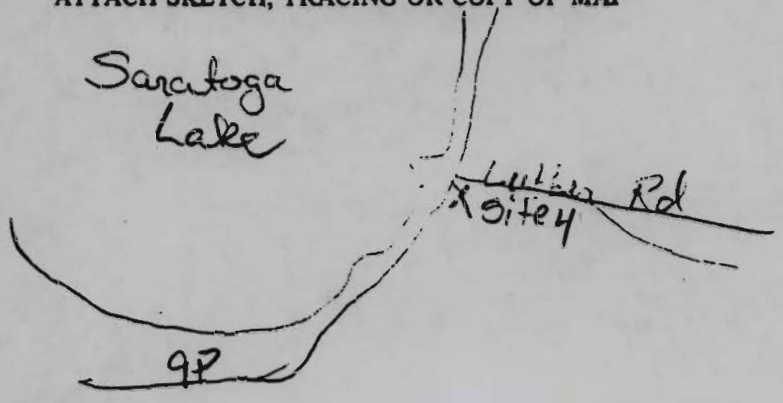
7 ½ MINUTE SERIES QUAD. NAME: Mechanicville

15 MINUTE SERIES QUAD. NAME: _____

U.S.G.S. COORDINATES: _____

D.O.T. COORDINATES: (if known) _____

ATTACH SKETCH, TRACING OR COPY OF MAP



SOURCE OF MAP:

PHOTOGRAPHS (optional)

(ATTACH)

ARCHEOLOGICAL SITE INVENTORY FORM

DIVISION FOR HISTORIC PRESERVATION
NEW YORK STATE PARKS AND RECREATION
ALBANY, NEW YORK
518 474-0479

FOR OFFICE USE ONLY

UNIQUE SITE NO. A091-17-0010
QUAD. _____
SERIES _____
NEG. NO. _____

REPORTED BY: Gary Berg

YOUR ADDRESS: _____ TELEPHONE: _____

ORGANIZATION (if any): Saratoga Sewer District

DATE: July 1977

* *

1. SITE NAME: Site 3 - The Brown's Beach Site
2. COUNTY: Saratoga TOWN/~~CITY~~: Stillwater VILLAGE: _____
3. LOCATION: east side of 9P adjacent Brown's Beach
4. PRESENT OWNER: _____
5. OWNER'S ADDRESS: _____
6. DESCRIPTION, CONDITION, EVIDENCE OF SITE:

☐ STANDING RUINS ☐ CELLAR HOLE WITH WALLS
☐ SURFACE TRACES VISIBLE ☐ WALLS WITHOUT CELLAR HOLE
☐ UNDER CULTIVATION ☐ EROSION ☐ UNDERWATER
☒ NO VISIBLE EVIDENCE ☐ OTHER _____

7. COLLECTION OF MATERIAL FROM SITE:

☐ SURFACE HUNTING BY WHOM _____ DATE _____
☒ TESTING BY WHOM Berg DATE June 1977
☐ EXCAVATION BY WHOM _____ DATE _____
☐ NONE

PRESENT REPOSITORY OF MATERIALS: _____

8. PREHISTORIC CULTURAL AFFILIATION OR DATE: _____

HISTORICAL DOCUMENTATION OF SITE:

POSSIBILITY OF SITE DESTRUCTION OR DISTURBANCE:

REMARKS: the material has eroded down from a site represented by a surface scatter of flakes along the ridge created by cutting operations associated with road construction

MAP LOCATION

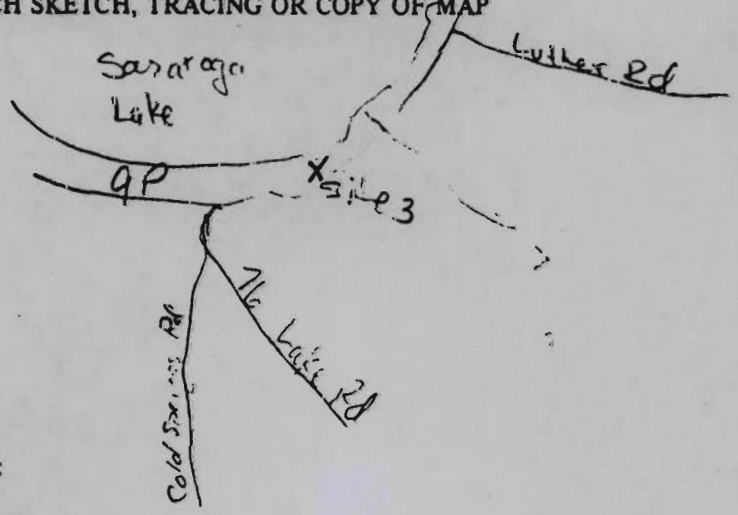
7 ½ MINUTE SERIES QUAD. NAME: Mechanicville

15 MINUTE SERIES QUAD. NAME: _____

U.S.G.S. COORDINATES: _____

D.O.T. COORDINATES: (if known) _____

ATTACH SKETCH, TRACING OR COPY OF MAP



SOURCE OF MAP:

PHOTOGRAPHS (optional)

(ATTACH)

APPENDIX 2: NYSM Correspondence

Project: Wilalta Rocket Track

NEW YORK STATE MUSEUM: OFFICE OF THE STATE ARCHEOLOGIST
PREHISTORIC SITE FILE: FILE USE REQUEST FORM
PROJECT SCREENING FILE

NAME Lori Blair

ADDRESS 27 Jordan Road Troy, N.Y. 12180

AC PHONE # 518 283-0534

AGENCY/COMPANY/INSTITUTION REPRESENTED Hartgen Archeological Assoc.

The screening file gives site locations within generalized .5 mile circles.

PURPOSE OF REQUEST: (Identify the proposed project and contractor, indicate the nature of the work, depth and extent of ground disturbance)

RI

EVENTUAL DISTRIBUTION OF DATA: (Specify range of data use and distribution, publication, reproduction, etc.).

Client, municipality use

REQUESTED APPOINTMENT:

1st Choice _____ (date) _____ (time (or any)) 2nd Choice _____ (date) _____ (time (or any))

(Appointments are on the hour between 9 a.m. and 12 noon on Wednesday of each week. Mail this request at least two weeks in advance of the appointment date. You will be notified by mail of your appointment date and time).

U.S.G.S. 7.5' MAPS REQUESTED: (indicate 15' maps)

Mechanicville Round Lake _____ _____

FOR THE FOLLOWING attach the project map, site data list and self-addressed envelope to this request. Responses will be mailed or provided on the following day.

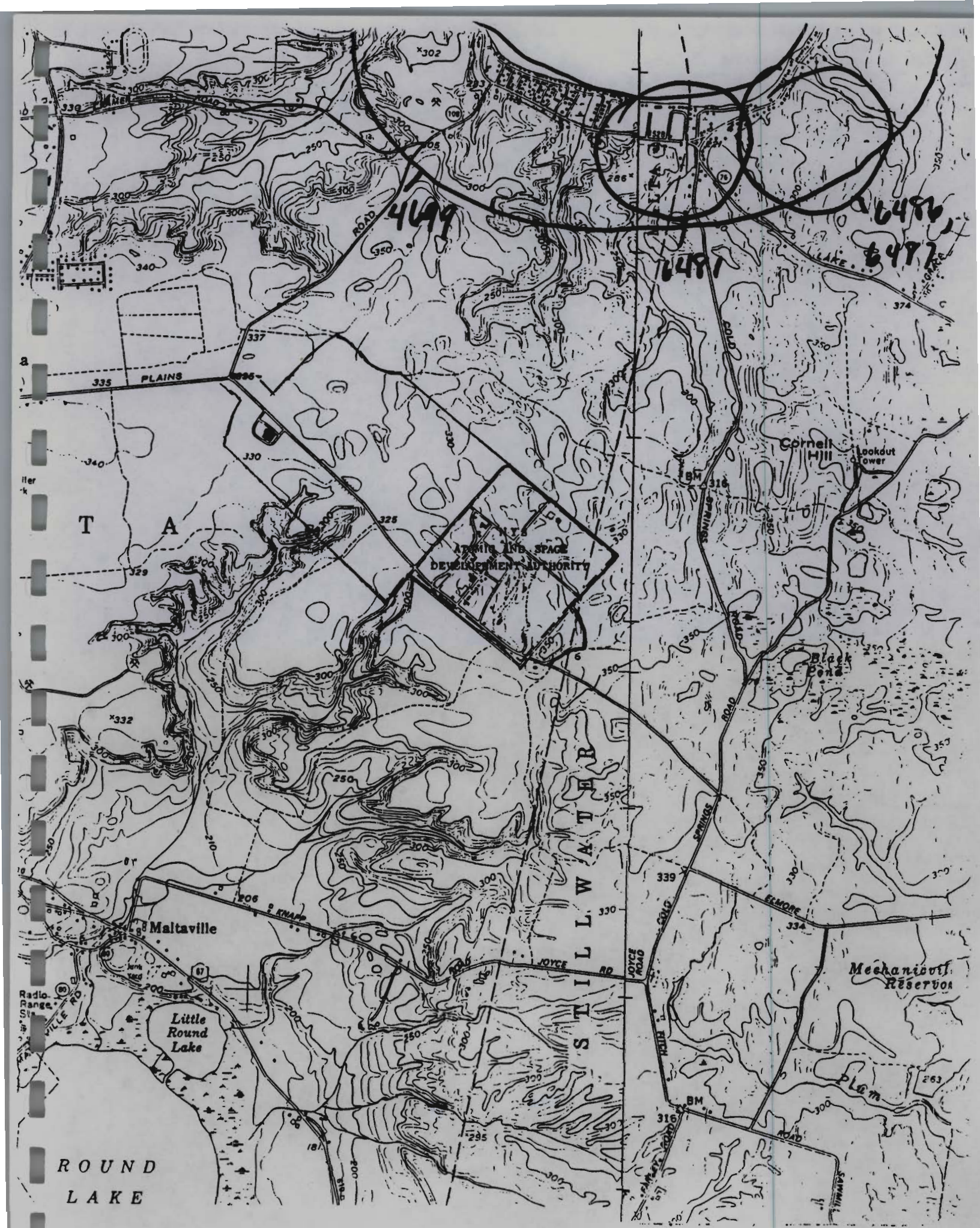
The following site(s) may be within or adjacent to the project area. If so, please provide the location of:

SITE #.	7.5" MAP
none	

✓ Please provide a sensitivity rating for the attached project area.

I understand that the information provided is to be used solely for the preparation of an environmental impact statement as required by State or Federal law.

Lori Blair (Signature) 5/8/91 (Date)


4499
4497
4491
PLAINS
ROAD
Cornell Hill
Lookout Tower
BM 316
SPRINGS
ROAD
Black Pond
ATOMIC AND SPACE DEVELOPMENT AUTHORITY
T A
STILLWATER
Maltaville
KNAPP
JOYCE RD
JOYCE ROAD
ELMORE
Mechanicville Reservoir
Little Round Lake
Radio Range Sta.
BM 315
ROUND LAKE
MECHANICVILLE
ROUND LAKE

S. Hartgen Historic on Mechanicville, Round late 7.5 BW 5/9/91

NEW YORK STATE MUSEUM PREHISTORIC ARCHAEOLOGICAL SITE FILES

EVALUATION OF ARCHAEOLOGICAL SENSITIVITY FOR PREHISTORIC (INDIAN) SITES

Examination of the data suggests that the location indicated has the following sensitivity rating:

[ ] HIGHER THAN AVERAGE PROBABILITY OF PRODUCING PREHISTORIC ARCHAEOLOGICAL DATA.

[✓] AVERAGE PROBABILITY OF PRODUCING PREHISTORIC ARCHAEOLOGICAL DATA.

[ ] LOWER THAN AVERAGE PROBABILITY OF PRODUCING PREHISTORIC ARCHAEOLOGICAL DATA.

[ ] MIXED PROBABILITY OF PRODUCING PREHISTORIC ARCHEOLOGICAL DATA.

The reasons for this finding are given below:

[ ] A RECORDED SITE IS INDICATED IN OR IMMEDIATELY ADJACENT TO THE LOCATION AND WE HAVE REASON TO BELIEVE IT COULD BE IMPACTED BY CONSTRUCTION.

[ ] A RECORDED SITE IS INDICATED SOME DISTANCE AWAY BUT DUE TO THE MARGIN OF ERROR IN THE LOCATION DATA IT IS POSSIBLE THE SITE ACTUALLY EXISTS IN OR IMMEDIATELY ADJACENT TO THE LOCATION.

[ ] THE TERRAIN IN THE LOCATION IS SIMILAR TO TERRAIN IN THE GENERAL VICINITY WHERE RECORDED ARCHAEOLOGICAL SITES ARE INDICATED.

[ ] THE PHYSIOGRAPHIC CHARACTERISTICS OF THE LOCATION SUGGEST A HIGH PROBABILITY OF PREHISTORIC OCCUPATION OR USE.

[✓] THE PHYSIOGRAPHIC CHARACTERISTICS OF THE LOCATION SUGGEST A MEDIUM PROBABILITY OF PREHISTORIC OCCUPATION OR USE.

[ ] THE PHYSIOGRAPHIC CHARACTERISTICS OF THE LOCATION ARE SUCH AS SUGGEST A LOW PROBABILITY OF PREHISTORIC OCCUPATION OR USE.

[ ] EVIDENCE OF PRIOR DESTRUCTIVE IMPACTS FROM CULTURAL OR NATURAL SOURCES SUGGESTS A LOSS OF ORIGINAL CULTURAL DEPOSITS IN THIS LOCATION.

[ ] THE PHYSIOGRAPHIC CHARACTERISTICS OF THE LOCATION ARE MIXED, A HIGHER THAN AVERAGE PROBABILITY OF PREHISTORIC OCCUPATION OR USE IS SUGGESTED FOR AREAS IN THE VICINITY OF STREAMS, SWAMPS AND WATERWAYS AS WELL AS FOR ROCK FACES WHICH AFFORD SHELTER. DISTINCTIVE HILLS OR LOW RIDGES HAVE AN AVERAGE PROBABILITY OF USE AS A BURYING GROUND. LOW PROBABILITY IS SUGGESTED FOR AREAS OF EROSIONAL STEEP SLOPE.

[ ] PROBABILITY RATING IS BASED ON THE ASSUMED PRESENCE OF INTACT ORIGINAL DEPOSITS, POSSIBILITY UNDER FILL, IN THE AREA. IF NEAR WATER OR IF DEEPLY BURIED, MATERIALS MAY OCCUR SUBMERGED BELOW THE WATER TABLE.

[ ] INFORMATION ON SITES NOT RECORDED IN THE N.Y.S. MUSEUM FILES MAY BE AVAILABLE IN A REGIONAL INVENTORY MAINTAINED AT THE FOLLOWING LOCATION(S). PLEASE CONTACT:

COMMENTS:

APPENDIX 3: Qualifications of Principal Investigator

KAREN S. HARTGEN

Experience:

March 1973 to Present

President and Principal Investigator
Hartgen Archeological Associates, Inc.

I have directed the cultural resource management firm since 1973, completing over 250 cultural resource projects. The firm currently has a full time staff of 6, and other specialists are available as needed. We provide services in historical documentation, site file searches, field reconnaissance, archeological survey and excavation, artifact preservation, collection management, cartography, historic structure survey, National Register nominations, Environmental Impact Evaluations as mandated under NEPA, NHPA, SHPA and SEQR. Archeological surveys include initial surveys to locate sites, development of research designs and field methodologies to identify sites and subsequently retrieve data as mitigating measures.

June 1974 to 1978

New York State Museum and Science Service
State Education Department, Albany
Assistant Highway Salvage Coordinator

Administration and coordination of the Highway Salvage Archeology Program for New York State during field seasons. Intermediary between various State agencies and cooperating institutions in the process of project evaluation and impact mitigation. Also prepared detailed financial reports for Federal reimbursement.

February 1974 to 1976

New York State Museum and Science Service
Anthropological Survey, State Education Department
Scientific Research Aide

Processing archeological materials from the State Archeologist's current research program. Includes drawing preliminary site maps and profiles, summarizing field notes, restoration and cataloging of artifacts.

Education:

State University of New York at Albany
Master of Arts, Anthropology, December 1988

State University of New York at Albany
Bachelor of Arts, Anthropology, January 1970

Professional Affiliations:

Society of Professional Archeologists, S.O.P.A.
President, New York Archaeological Council
Board Member, Federation of Historical Services
Board Member, North Greenbush Environmental Advisory Council
State Plan for Historic Resources Steering Committee Member, for Office of Parks, Recreation and Historic Preservation
North Greenbush Business and Professional Association
Historic Albany Foundation
American Society of Conservation Archaeology
Society of American Archaeology
Preservation League of New York State
Council for Northeast Historic Archaeology
Northeastern Anthropological Association
National Trust for Historic Preservation
Society for Industrial Archeology
Society of Architectural History
Eastern States Archeological Federation
Hudson-Mohawk Industrial Gateway

APPENDIX B

LIST OF DOCUMENTS REVIEWED IN THE LITERATURE SEARCH

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Bond, Schoeneck & King. 1987. Letter to B. Corman, Esq., US EPA, from T.R. Smith. RE: Analytical Results from Malta Test Site Sampling. Aug. 24, 1987.

Bond, Schoeneck & King. 1987. etter to F.V. Bifera of NYS DEC, from T.R. Smith. RE: Work Plan for Malta Site. Aug. 7, 1987.

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Century Environmental Testing Labs, Inc. 1979. Certificate of Analysis. April 16, 1979.

Century Environmental Testing Labs, Inc. 1979. Certificate of Analysis for Drummed Material in Storage Area S-4. April 16, 1979.

Clean Sites, Inc. 1989. Memo to Board of Directors from T.Grumbly RE: Remedy Project. April 20, 1989.

Coastal Pollution Control Services, Inc. 1979. Letter to E.M. Markell of NYS ERDA. RE: Malta Testing Facility Samples. Mar. 20, 1979.

Curtiss-Wright Corporation. 1960. Letter to U.S. Air Force from E.A. Wright. June 22, 1960.

Curtiss-Wright Corporation. 1962. Letter to Mr. Butler. RE: Cost Estimate for Malta Facility Preparation. May 23, 1962.

Curtiss-Wright Corporation. 1963. Letter to F.R. Ogle. RE: Extension of Test Station Agreement. Apr. 3, 1963.

Curtiss-Wright Corporation. 1964. Lease Agreement with New York State Atomic Research and Development Authority. May 11, 1964.

Curtiss-Wright Corporation. 1965. Letter to W.R. Eaton and others from E.A. Wright. Nov. 3, 1965.

Curtiss-Wright Corporation. 1966. Letter to D.H. Shafer of NYS ASDA from E.A. Wright. Nov. 22, 1966.

Curtiss-Wright Corporation. 1989. Letter to A.A. Hess of US EPA from D.M. Taylor. RE: Enclosures. April 10, 1989.

Curtiss-Wright Corporation. 1989. Letter to S.D. Luftig. RE: Request for Information Concerning the Release of Hazardous Waste at Malta. Mar. 20, 1989.

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Dunn Geoscience Corporation. 1977. Hydrogeologic Investigation and Testing for the Exploration and Development of a Water Supply for Luther Forest, Malta, New York. Jan. 5, 1977.

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Fitzpatrick, K.C. 1954. Ramjet Test Facilities. June 1954.

General Electric. 1954. Guided Missiles Department. May 1954.

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APPENDIX C

SUMMARY OF ANALYTICAL DATA

Table C-1. Well Construction Summary, Public Water Supply Wells, Malta Rocket Fuel Area Superfund Site, Towns of Malta and Stillwater, Saratoga County, New York.

Well Number	Diameter (inches)	Total Depth	Screen Setting	Screen Size	Notes
I. Luther Forest					
PW-1	6 x 12 GP	31 feet	26 - 31 feet	–	–
PW-2	8 x 16 GP	33 feet	27 - 32 feet	–	–
PW-3	8 x 16 GP	28.5 feet	23.5 - 28.5 feet	80 Slot	Completed 9/75
PW-4	–	–	–	–	–
PW-5	–	–	–	–	–
PW-6	–	–	–	–	–
II. Pine Crest Trailer Court					
Well-1	1 1/2	35 feet	–	–	Driver Well Point
Well-2	1 1/2	35 feet	–	–	Driver Well Point
III. Round Lake Mobile Court					
Well-1	__GP	30 feet	–	–	Completed 1968
Well-2	__GP	30 feet	–	–	–
IV. Didonna's Trailer Park					
	–	65 feet	–	–	Driven Well

GP Gravel packed well.
– Data not available.

Sources: NYSDEC, NYSDOH, and Dunn Geoscience files.

Table C-2. Water Quality Data for Fay's Mobile Home Park, Malta Rocket Fuel Area Superfund Site, Towns of Malta and Stillwater, Saratoga County, New York.

Parameter	Sample Location: / Sample Date:	Red Camp Kitchen Sink 7/18/73	Kitchen Tap Bar 7/18/73	Pink Trailer 7/18/73	White Trailer Brown Trim 8/2/74	Brown Camper KT 8/2/74	Kitchen Tap at Tavern 3/15/76	Kitchen Tap at Cottage 3/15/76
Total S.P. Count		62	32	560	<500	<1	<1	<1
Coliform		<1	<1	<1	<1	<1	<1	<1
Lab		St.	St.	St.	St.	St.	St.	St.

NA Not analyzed.
< Less than laboratory detection limit.
> Greater than laboratory detection limit.
Source: NYSDOH files.

Table C-2. Water Quality Data for Fay's Mobile Home Park, Malta Rocket Fuel Area Superfund Site, Towns of Malta and Stillwater, Saratoga County, New York.

Parameter	Sample Location: / Sample Date:	KT Van Schaick Trailer 3/15/76	Van Schaick Trailer KT 3/14/78	Mobile Home Route 9P 1/8/79	Trailer #3 7/65	South Trailer Tap 8/1/66	Rear Top of Trailer 8/11/67	White-Red Trailer 8/12/69	Pink White Trailer 7/25/70
Total S.P. Count		45	30	3	NA	NA	NA	NA	NA
Coliform		<1	30	32	NA	NA	NA	NA	NA
Total Count		NA	NA	NA	<500	>500	>500	<500	>500
MPN		NA	NA	NA	<2.2	<2.2	<2.2	<2	<1
Chlorides		NA	NA	NA	2.8	2.9	2.1	3.0	2.7
Nitrates		NA	NA	NA	0.05	<0.1	<0.1	<0.1	<0.1
Lab		St.	St.	St.	St.	St.	St.	St.	St.

NA Not analyzed.
< Less than laboratory detection limit.
> Greater than laboratory detection limit.
Source: NYSDOH files.

Table C-2. Water Quality Data for Fay's Mobile Home Park, Malta Rocket Fuel Area Superfund Site, Towns of Malta and Stillwater, Saratoga County, New York.

Parameter	Sample Location: / Sample Date:	Pink White Trailer 8/9/72	Pink White Trailer 8/22/72	Pink Trailer 7/18/73	Kitchen Tap Bar 7/18/73	Red Camp Kitchen Sink 7/18/73	Driven Well #2 7/9/65	Tavern Kitchen 8/1/66	Kitchen Bar Tap 8/11/67	Kitchen Tavern 8/12/69
Total S.P. Count		<500	<500	560	32	62	<500	<500	<500	<500
MPN		3	<1	<1	<1	<1	<2.2	<2.2	<2.2	2
Chlorides		NA	NA	NA	NA	NA	207	78.0	63.0	70.0
Nitrates		NA	NA	NA	NA	NA	0.8	6.9	5.5	5.6
Lab		St.	St.	St.	St.	St.	St.	St.	St.	St.

NA Not analyzed.
< Less than laboratory detection limit.
> Greater than laboratory detection limit.
Source: NYSDOH files.

Table C-2. Water Quality Data for Fay's Mobile Home Park, Malta Rocket Fuel Area Superfund Site, Towns of Malta and Stillwater, Saratoga County, New York.

Parameter	Sample Location: / Sample Date:	Kitchen Rest. 8/25/70	Tap at Bar 8/9/72	Kitchen at Tavern 8/22/72	Cottage Driven Well #3 7/13/65	Tap Rear Cottage 8/1/66	Rear of Cottage 8/11/67	Kitchen Cottage #1 8/12/69	Kitchen Cabin Balcony 8/25/70	Red Camp 8/9/72
Total S.P. Count		<500	>500	>500	<500	<500	<500	<500	<500	<500
MPN		<1	1	<1	<2.2	<2.2	<2.2	<2	<1	<1
Chlorides		23.0	NA	NA	4.9	2.5	1.0	18.0	23.0	NA
Nitrates		0.5	NA	NA	0.05	0.1	0.3	0.6	0.5	NA
Lab		St.	St.	St.	St.	St.	St.	St.	St.	St.

NA Not analyzed.
< Less than laboratory detection limit.
> Greater than laboratory detection limit.
Source: NYSDOH files.

Table C-2. Water Quality Data for Fay's Mobile Home Park, Malta Rocket Fuel Area Superfund Site, Towns of Malta and Stillwater, Saratoga County, New York.

Sample Location:	Bar Kitchen (1)	Lot #3 (1)
Sample Date:	11/27/89	12/16/85
Parameter (concentrations in ug/L except where noted)		
Fluoride, Free (mg/L)	0.1	<0.1
Nitrogen, Nitrate (+NO2) as N (mg/L)	0.06	0.13
Mercury	<0.2	<0.2
Arsenic	<10	<10
Selenium	<5	<5.0
Lead	<10	<10
Beryllium	<1	NA
Silver	<10	<0.02
Barium	29	<0.15
Cadmium	<5	1.0
Cobalt	<5	NA
Chromium	<5	NA
Copper	<5	0.05 (mg/L
Iron	<10	<0.05 (mg/L
Manganese	<5	<0.02 (mg/L
Nickel	<5	NA
Strontium	202	NA
Titanium	<5	NA
Vanadium	<5	NA
Zinc	16	1.4 (mg/L
Molybdenum	<20	NA
Antimony	<50	NA
Tin	<50	NA
Thallium	<30	NA
Aluminum	<100	NA
Calcium (mg/L)	69.7	86
Potassium (mg/L)	<1	NA
Magnesium (mg/L)	11.8	14
Sodium (mg/L)	4.7	14
pH		8.5
Alkalinity to pH 4.5 (mg/L)		206
Hardness, Total as CACO3 (mg/L)		272
Color, Apparent		2
Odor		None
Turbidity (NTU)		0.1
Solids, Total Dissolved (mg/L)		319
Chloride (mg/L)		18.5
Sulfate as SO4 (mg/L)		31.2
Alkalinity to pH 9.3 (mg/L)		32

(1) Analyzed by NYSODH Wadsworth Center for Laboratories and Research.
NA Not analyzed.
ug/L Micrograms per liter.
mg/L Milligrams per liter.
< Less than laboratory detection limit.
> Greater than laboratory detection limit.
Source: NYSDOH files.

Table C-3B. Metals and Physical Analyses for Malta Mobile Acres, Malta Rocket Fuel Area Superfund Site, Towns of Malta and Stillwater, Saratoga County New York.

Sample Location:	Malta Mobile Acres Lot #18	Malta Mobile Acres Office Tap
Sample Date:	6/7/88	5/8/84
Parameter (concentrations in ug/L except where noted)	Results (1) (2)	Results (1)
pH	8.1	7.5
Alkalinity to pH 4.5 (mg/L)	228	219
Color, Apparent	0	1
Odor, Cold	None	Cold
Turbidity (NTU)	0.1	0.1
Solids, Total Dissolved, 180 degrees C (mg/L)	301	303
Fluoride, Free (mg/L)	<0.1	<0.1
Chloride (mg/L)	40	21
Sulfate as SO4 (mg/L)	27	22
Nitrogen, Nitrate (+No2) as N (mg/L)	3.55	5.0
Sodium (mg/L)	21	13
Hardness, Total as CACO3 (mg/L)	290	258
Mercury	<0.2	<0.2
Arsenic	<10	<10
Selenium	<5	<5
Lead	<10	<10
Beryllium	<1	–
Silver	<10	<0.02
Barium	12	<0.5
Cadmium	<5	<2
Cobalt	<5	NA
Chromium	<5	20
Copper	22	<0.05
Iron	<10	<0.05
Manganese	<5	<0.02
Nickel	<5	NA
Strontium	351	NA
Titanium	<5	NA
Vanadium	<5	NA
Zinc	NA	0.33

(1) Analysis performed by NYSDOH Wadsworth Center for Laboratories and Research.
(2) Copy of analyses report not complete as received.
ug/L Micrograms per liter.
mg/L Milligrams per liter.
< Less than the laboratory detection limit.
– Information unavailable.

Source: NYSDOH files.

Table C-4. Water Quality Data for Mechanicville Well Field, Malta Rocket Fuel Area Superfund Site, Towns of Malta and Stillwater, Saratoga County, New York.

Sample Location:	City of Mechanicville 203 Saratoga Avenue (3)	City of Mechanicville 203 Saratoga Avenue (3)	City of Mechanicville 203 Saratoga Avenue (4)
Sample Date:	8/21/90	8/6/87	8/21/90
Parameter (concentrations in mg/L)			
Temperature degrees C	20.6	66	NA
Color, Units	2	<5	NA
Threshold Odor	None	1 Unit/Chlorine Odor	NA
pH Units	7.3	7.2	NA
Turbidity, NTU	NA	0.2	NA
Alkalinity	114	131	NA
Chloride	3.0	4	NA
Fluoride	<0.10	<0.20	NA
Total Dissolved Solids	179	219	NA
Sulfate	49	17	NA
Calcium Hardness	92	99	NA
Nitrate	0.27	0.3	NA
Arsenic	<0.020	<0.020	NA
Barium	<0.10	<0.10	NA
Cadmium	<0.002	<0.002	NA
Chromium	<0.010	<0.010	NA
Lead	<0.005	<0.010	NA
Mercury	<0.0004	<0.0004	NA
Selenium	<0.002	<0.002	NA
Silver	<0.005	<0.005	NA
Copper	<0.01	<0.05	NA
Iron	<0.01	<0.05	NA
Manganese	<0.01	0.01	NA
Zinc	<0.01	<0.05	NA
Sodium	1.33	4.9	NA
Langelier Index (corrosivity)	-0.53	-0.65	NA
Lindane		NA	<0.00004
Endrin		NA	<0.00002
Methoxychlor		NA	<0.0001
Toxaphene		NA	<0.0001
2,4-D		NA	<0.0005
2,4,5-TP (Silvex)		NA	<0.0001

(1) Name of Analytical lab not available.
(2) Analysis performed by NYS Lab # 10588.
(3) Analysis performed by NYS Lab # 10729.
(4) Analysis performed by NYS Lab # 11140.
NA Not analyzed.
< Less than the laboratory detection limit.
mg/L Milligrams per liter.

Source: NYSDOH files.

Table C-5. Water Analyses for Public Water Supply Wells, Didonna's Trailer Park, Malta Rocket Fuel Area Superfund Site, Towns of Malta and Stillwater, Saratoga County, New York.

Sample Location:	Didonna's T.P Kitchen Tap, McDougal Trailer	Didonna's T.P. Kitchen Tap, Fitzgerald Trailer	Didonna's T.P. Well Overflow	Didonna's T.P. Kitchen Tap, McDougal Trailer	Didonna's T.P Kitchen Tap	Didonna's T.P Bathroom Tap
Sample Date:	10/14/77	10/1/74	10/14/77	3/18/76	3/16/77	3/5/77
Parameter	Results (3)	Results (3)	Results (3)	Results (3)	Results (3)	Results (3)
STD PL Count	NA	NA	NA	NA	NA	NA
COLIF MF COL/100 ML	NA	NA	NA	NA	NA	NA
Nitrogen, Nitrate & Nitrite	NA	NA	NA	NA	NA	NA
Total Count	290	360	840	4	700	>2000
MPN	<1	NA	<1	<1	NA	<1

(1) Analysis performed by NYSDOH Division of Laboratories and Research, Environmental Health Center, Albany.
(2) Analysis performed by NYSDOH Division of Laboratories and Research, Environmental Health Center, Syracuse.
(3) Analytical lab given as "St.".
< Less than laboratory detection limit.
> Greater than laboratory detection limit.
mg/L Milligrams per liter.
NA Not analyzed.
T.P. Trailer Park.
Source: NYSDOH files.

Table C-5. Water Analyses for Public Water Supply Wells, Didonna's Trailer Park, Malta Rocket Fuel Area Superfund Site, Towns of Malta and Stillwater, Saratoga County, New York.

Sample Location:	Didonna's T.P. Bathroom Tap	Didonna's T.P. Mobile Home Kitchen Tap
Sample Date:	3/14/77	7/25/77
Parameter	Results (3)	Results (3)
STD PL Count	NA	NA
COLIF MF COL/100 ML	NA	NA
Nitrogen, Nitrate & Nitrite	NA	NA
Total Count	>2000	>500
MPN	<1	NA

(1) Analysis performed by NYSDOH Division of Laboratories and Research, Environmental Health Center, Albany.
(2) Analysis performed by NYSDOH Division of Laboratories and Research, Environmental Health Center, Syracuse.
(3) Analytical lab given as "St.".
< Less than laboratory detection limit.
> Greater than laboratory detection limit.
mg/L Milligrams per liter.
NA Not analyzed.
T.P. Trailer Park.
Source: NYSDOH files.

Table C-6. Water Quality Data for Pine Crest Trailer Court, Malta Rocket Fuel Area Superfund Site, Towns of Malta and Stillwater, Saratoga County, New York.

Parameter	Sample Location: / Sample Date:	Hose from Pump 7/10/67	Brown-White Trailer 7/29/68	Rhodes Trailer 7/25/69	Lot # 12 8/11/72	KT Stewart Trailer 9/20/73	KT Dugan 10/1/74	Not Given 2/24/76	Not Given 2/25/76	Offke Kit. Tap, Lot #1 8/4/86
Total Count		>500	<500	<500	<500	56	98	69		
MPN		<2.2	<2.2	<2	<1	<1	<1	<1		
Chlorides		53.0	56.0	29.0	NA					
Nitrate		0.7	0.8	2.2	NA					
Lab		St.	St.	St.	St.	St.	St.	St.	NYSDOH 30 Syracuse	NYSDOH Albany
STD Plate Count 48 Hour/ML		NA	NA	NA	NA	NA	NA	NA	69	NA
Colif. MF COL/100ML		NA	NA	NA	NA	NA	NA	NA	1	NA
Standard Plate Count Per ML/Water		NA	NA	NA	NA	NA	NA	NA	NA	77 SPC/ML
Coliform Total, MF Method Per 100ML		NA	NA	NA	NA	NA	NA	NA	NA	<1 CFU/100ML

NA Not analyzed.
< Less than laboratory detection limit.
> Greater than laboratory detection limit.
St. Analytical laboratory designation.

Source: NYSDOH files.

Table C-7A. Volatile Organic Compound Concentrations for Malta Garden Apartments, Malta Rocket Fuel Area Superfund Site, Towns of Malta and Stillwater, Saratoga County, New York.

Sample Location:	Transport Blank	Malta Gardens Office	Malta Gardens Rental	Malta Gardens
Sample Date:	9/21/90	9/24/90	12/4/91	3/4/91
Standard Methology Used:	Method 524.2 (1)	Method 524.2 (1)	Method 524.2 (1)	EPA 502.2
Parameter (concentrations in ug/L)				
Difluorodichloromethane	<0.5	<0.5	<0.5	<0.5
Chloromethane	<0.5	<0.5	<0.5	<0.5
Vinyl chloride	<0.5	<0.5	<0.5	<0.5
Bromomethane	<0.5	<0.5	<0.5	<0.5
Chloroethane	<0.5	<0.5	<0.5	<0.5
Trichlorofluoromethane	<0.5	<0.5	<0.5	<0.5
1,1-Dichloroethene	<0.5	<0.5	<0.5	<0.5
Methylene chloride	<0.5	<0.5	<0.5	<0.5
trans-1,2-Dichloroethene	<0.5	<0.5	<0.5	<0.5
1,1-Dichloroethane	<0.5	<0.5	<0.5	<0.5
2,2-Dichloropropane	<0.5	<0.5	<0.5	<0.5
cis-1,2-Dichloroethene	<0.5	<0.5	<0.5	<0.5
Chloroform	<0.5	**1.1**	**1.3**	**0.9**
Bromochloromethane	<0.5	<0.5	<0.5	<0.5
1,1,1-Trichloroethane	<0.5	<0.5	<0.5	<0.5
1,1-Dichloropropene	<0.5	<0.5	<0.5	<0.5
Carbon tetrachloride	<0.5	<0.5	<0.5	<0.5
1,2-Dichloroethane	<0.5	<0.5	<0.5	<0.5
Benzene	<0.5	<0.5	<0.5	<0.5
Trichloroethene	<0.5	<0.5	<0.5	<0.5
1,2-Dichloropropane	<0.5	<0.5	<0.5	<0.5
Bromodichloromethane	<0.5	**0.9**	**1.3**	**0.9**
Dibromomethane	<0.5	<0.5	<0.5	<0.5
trans-1,3-Dichloropropene	<0.5	<0.5	<0.5	<0.5
Toluene	<0.5	<0.5	<0.5	<0.5
cis-1,3-Dichloropropene	<0.5	<0.5	<0.5	<0.5
1,1,2-Trichloroethane	<0.5	<0.5	<0.5	<0.5
1,3-Dichloropropane	<0.5	<0.5	<0.5	<0.5
Tetrachloroethene	<0.5	<0.5	<0.5	<0.5
Dibromochloromethane	<0.5	**0.9**	<0.5	**0.6**
1,2-Dibromomethane	<0.5	<0.5	<0.5	<0.5
Chlorobenzene	<0.5	<0.5	<0.5	<0.5
1,1,1,2-Tetrachloroethane	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	<0.5	<0.5	<0.5	<0.5
m + p Xylenes	<0.5	<0.5	<0.5	<0.5
o-Xylenes	<0.5	<0.5	<0.5	<0.5
Styrene	<0.5	<0.5	<0.5	<0.5
Bromoform	<0.5	<0.5	<0.5	<0.5
Isopropylbenzene	<0.5	<0.5	<0.5	<0.5
1,1,2,2-Tetrachloroethane	<0.5	<0.5	<0.5	<0.5
1,2,3-Trichloropropane	<0.5	<0.5	<0.5	<0.5
Bromobenzene	<0.5	<0.5	<0.5	<0.5
N-Propylbenzene	<0.5	<0.5	<0.5	<0.5
O-Chlorotoluene	<0.5	<0.5	<0.5	<0.5
1,3,5-Trimethylbenzene	<0.5	<0.5	<0.5	<0.5
P-Chlorotoluene	<0.5	<0.5	<0.5	<0.5
T-Butylbenzene	<0.5	<0.5	<0.5	<0.5
1,2,4-Trimethylbenzene	<0.5	<0.5	<0.5	<0.5
Sec-Butylbenzene	<0.5	<0.5	<0.5	<0.5
P-Isopropyltoluene	<0.5	<0.5	<0.5	<0.5
1,3-Dichlorobenzene	<0.5	<0.5	<0.5	<0.5
1,4-Dichlorobenzene	<0.5	<0.5	<0.5	<0.5
N-Butylbenzene	<0.5	<0.5	<0.5	<0.5
1,2-Dichlorobenzene	<0.5	<0.5	<0.5	<0.5
1,2-Dibromo-3-chloropropane	<5	<5	<5	<0.5
1,2,3-Trichlorobenzene	<0.5	<0.5	<0.5	<0.5
Hexachlorobutadiene	<0.5	<0.5	<0.5	<0.5
1,2,4-Trichlorobenzene	<0.5	<0.5	<0.5	<0.5

(1) Analysis performed by CTM Analytical Labs, Inc.
(2) Analysis performed by Upstate Laboratories, Inc.
< Less than the laboratory detection limit.
ug/L Micrograms per liter.
EPA Environmental Protection Agency.
Source: NYSDOH files.

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Table C-10. Volatile Organic Compound Concentrations in Public Water Supply Wells, Luther Forest Well Field, Malta Rocket Fuel Area Superfund Site, Towns of Malta and Stillwater, Saratoga County, New York.

Sample Location:	Well #1, Spigot Off Main Line	Well #2, Spigot Off Side of Well	Well #4, Spigot Off Side of Well	Well #3, Spigot Off Side of Well	Well #6, Spigot Off Side of Well
Sample Date:	8/15/89	8/15/89	8/15/89	8/15/89	8/15/89
Parameter (concentrations in ug/L)	Results (1) (2)	Results (1) (2)	Results (1) (2)	Results (1) (2)	Results (1) (2)
Chloromethane	<0.5	<0.5	<0.5	<0.5	<0.5
Bromomethane	<0.5	<0.5	<0.5	<0.5	<0.5
Vinyl chloride	<0.5	<0.5	<0.5	<0.5	<0.5
Dichlorodifluoromethane (Freon-12)	<0.5	<0.5	<0.5	<0.5	<0.5
Chloroethane	<0.5	<0.5	<0.5	<0.5	<0.5
Methylene chloride (Dichloromethane)	<0.5	<0.5	<0.5	<0.5	<0.5
Trichlorofluoromethane (Freon-11)	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-Dichloroethene	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-Dichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5
trans-1,2-Dichloroethene	<0.5	<0.5	<0.5	<0.5	<0.5
cis-1,2-Dichloroethene	<0.5	<0.5	<0.5	<0.5	<0.5
Chloroform	<0.5	6.0	4.0	<0.5	<0.5
1,2-Dichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5
Dibromomethane	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,1-Trichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5
Carbon tetrachloride	<0.5	<0.5	<0.5	<0.5	<0.5
Bromodichloromethane	<0.5	<0.5	<0.5	<0.5	<0.5
2,3-Dichloropropene	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-Dichloropropane	<0.5	<0.5	<0.5	<0.5	<0.5
trans-1,3-Dichloropropene	<0.5	<0.5	<0.5	<0.5	<0.5
Trichloroethene	<0.5	<0.5	<0.5	<0.5	<0.5
1,3-Dichloropropane	<0.5	<0.5	<0.5	<0.5	<0.5
Dibromochloromethane	<0.5	<0.5	<0.5	<0.5	<0.5
cis-1,3-Dichloropropene	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,2-Trichloroethane	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-Dibromomethane (EDB)	<0.5	<0.5	<0.5	<0.5	<0.5
2-Chloroethylvinyl ether	<0.5	<0.5	<0.5	<0.5	<0.5
Bromoform	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,1,2-Tetrachloroethane	<0.5	<0.5	<0.5	<0.5	<0.5
1,2,3-Trichloropropane	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,2,2-Tetrachloroethane	<0.5	<0.5	<0.5	<0.5	<0.5
Tetrachloroethene	<0.5	<0.5	<0.5	<0.5	<0.5
Pentachloroethane	<0.5	<0.5	<0.5	<0.5	<0.5
1-Chlorocyclohexene-1	<0.5	<0.5	<0.5	<0.5	<0.5
Chlorobenzene	<0.5	<0.5	<0.5	<0.5	<0.5
bis(2-Chloroethyl)ether	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-Dibromo-3-chloropropane	<0.5	<0.5	<0.5	<0.5	<0.5
Bromobenzene	<0.5	<0.5	<0.5	<0.5	<0.5
O-Chlorotoluene	<0.5	<0.5	<0.5	<0.5	<0.5
bis(2-Chloroisopropyl)ether	<0.5	<0.5	<0.5	<0.5	<0.5
1,3-Dichlorobenzene	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-Dichlorobenzene	<0.5	<0.5	<0.5	<0.5	<0.5
1,4-Dichlorobenzene	<0.5	<0.5	<0.5	<0.5	<0.5

(1) Analysis performed by NYSDOH Wadsworth Center for Laboratories and Research.

(2) Test Pattern: VHO 5021.

NYSDOH New York State Department of Health.

< Less than laboratory detection limit.

ug/L Micrograms per liter.

Source: NYSDOH files.

TABLE C-11

Luther Forest Well Field
Early Groundwater Monitoring System - Malta, New York
Summary of Water Quality Analytical Results
June 1987 - June 1991

Wells/Compounds	Groundwater Standard	6/29-7/1/87	7/31/87	11/5/87	1/19-1/20/88	4/18-4/19/88	7/20-7/21/88	10/11-10/12/88	1/18-1/20/89	4/10/89	7/12/89	8/15/89	11/30/89	12/27/89	2/22/90	5/30/90	8/28/90	12/6/90	4/9-4/10/91	6/12-6/13/91
OC-1S																				
Benzene	0.7	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.3J
Lead	25	NA	NA	NA	NA	<0.005 mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	50	ND	NA	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	4
OC-1D																				
Benzene	0.7	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.5J	0.7/0.3J(dup)
Lead	25	NA	NA	NA	NA	<0.005 mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	50	ND	NA	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	NA	39V	2/0.6(dup)
OC-2S																				
Aluminum	-	0.17 mg/L	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	25	NA	NA	NA	NA	<0.005 mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	50	ND	NA	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	NA	16V	0.5
OC-2D																				
Aluminum	-	0.19/0.11 mg/L	NA	10 mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	0.7	ND, 3.5 (dup)	ND/ND (dup)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	0.2J	0.6
Lead	25	NA	NA	NA	NA	<0.005 mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	5	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	1.3	ND	NA	ND	ND	ND	ND	ND	ND
Carbon Disulfide	50	ND	NA	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	NA	7V	8
OC-3S																				
Aluminum	-	0.48	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	25	NA	NA	NA	NA	<0.005 mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	50	ND	NA	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	NA	8V/7V(dup)	4
OC-3D																				
Boron	1000	0.15 mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aluminum	-	0.37 mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	25	NA	NA	NA	NA	<0.005 mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromomethane	5	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	6.2	ND,ND(dup)	ND	ND	ND	ND	ND	ND
Chloromethane	5	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	27	ND,ND(dup)	ND, 0.92(dup)	ND	ND	ND	ND	ND
OC-4S																				
Carbon Disulfide	50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	ND/0.5V(dup)	ND
OC-4D		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	ND	ND
OC-6S																				
Carbon Disulfide	50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	ND	0.4J
-6																				
Benzene	0.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.4J	0.3J
Carbon Tetrachloride	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.8	5.5, 5 (dup)	3.2	1.6	1.5	1	3J
Carbon Disulfide	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	8	3
-D																				
Benzene	0.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	1
Carbon Disulfide	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4	4
-S																				
Benzene	0.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2	0.7/0.6J(dup)
Carbon Tetrachloride	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	16	8.4	18, 16 (dup)	6.4	4.4	8	24J/24J(dup)
Chloroform	7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.62	ND	ND	ND	ND	ND	0.8/0.9J(dup)
Carbon Disulfide	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	60D	0.6/ND(dup)
Chromium	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	336V	NA
-D																				
Benzene	0.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	0.3J
Carbon Disulfide	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2V	1
Chromium	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	225V	NA

TABLE C-11

Luther Forest Well Field
Early Groundwater Monitoring System - Malta, New York
Summary of Water Quality Analytical Results
June 1987 - June 1991

Wells/Compounds	Groundwater Standard	6/29-7/1/87	7/31/87	11/5/87	1/19-1/20/88	4/18-4/19/88	7/20-7/21/88	10/11-10/12/88	1/19-1/20/89	4/10/89	7/12/89	9/18/89	11/30/89	12/27/89	2/22/90	5/30/90	8/28/90	12/6/90	4/8-4/10/91	6/12-6/13/91
-A																				
Aluminum	-	0.12 mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	25	NA	NA	NA	NA	0.02 mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	50	ND	NA	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.5V	ND
-B																				
Trichloroethene	5	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.3J
Carbon Tetrachloride	5	ND	NA	ND	ND	ND	ND	ND	1.1,1.1(dup)	ND	ND	ND	0.9	NA	0.88	ND	ND	1	0.4J	0.6J
Aluminum	-	0.21 mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	25	NA	NA	NA	NA	<0.01 mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	50	ND	NA	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	0.2J
Chloroform	7	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.2J
-C																				
Tetrachloroethylene	5	2.0	ND/ND (dup)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND
Aluminum	-	0.18/0.43 mg/L	NA	0.13 mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	25	NA	NA	NA	NA	<0.005 mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
-D																				
Aluminum	-	0.50 mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	25	NA	NA	NA	NA	<0.005 mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromochloromethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.7, ND (dup)	NA	ND	ND	ND	ND	ND	ND
Carbon Disulfide	50	ND	NA	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	2
-1																				
Chloromethane	5											0.7								
-2																				
Chloroform	7											7.4, 6.0 (dup)								
-3																				
Chloroform	7											4.3								0.2J
-4												ND								
Chloroform	7																			0.2J
-6												ND								

Notes:
NA = Not analyzed.
ND = Not detected.
ug/L units unless otherwise stated.
GV = Guidance Value
J = Estimated concentration.
V = Estimated concentration: due to variance to quality control limits.
D = Concentration determined from a sample dilution.

- = A standard for this constituent has not been established.
- - Not sampled, wells installed in December, 1990.

[illegible]4-24-91
[illegible] 9/16/91: [illegible].xls run

Table C-12. NYSERDA Potable Water Supply Monitoring Program, 1987 to 1991, Malta Rocket Fuel Area Superfund Site, Towns of Malta and Stillwater, Saratoga County, New York.

Parameters (concentrations in ug/L)	Detected: 10/87	2/88	6/88	9/88	10/88	12/88	2/89	3/89	4/89	5/89	6/89	7/89	8/89	9/89	10/89	11/89	12/89	1/90	2/90	4/90	5/90
GE/Exxon Nuclear Building																					
1,1,1-Trichloroethane	4	NA	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene	2	NA	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	1	--	--
Carbon tetrachloride	--	NA	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2	2	3	--
Chloroform	--	NA	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2	2	2	--
Dibromochloromethane	--	NA	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.7	0.8	--	--
Bromodichloromethane	--	NA	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.8	1	--
Toluene	--	NA	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Building 20																					
1,1,1-Trichloroethane	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene	1	--	--	--	--	--	--	--	--	--	1	--	--	--	1	0.8	1	1	1	--	--
1,2-Dichloroethane	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--
Carbon tetrachloride	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.8	1	2	2	2	2	--
Chloroform	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.7	1	1	2	1	2	--
Dibromochloromethane	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.6	0.5	0.6	--	--
Bromodichloromethane	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.8	0.6	--	--	--
Building 25																					
Chloroform	--	7	--	--	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Air Stripper (Influent)																					
Carbon tetrachloride	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	108	NA
Trichloroethene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	49	NA
Chloroform	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	11	NA
Bromodichloromethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	--	NA
Tetrachloroethene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	--	NA
Dibromochloromethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	--	NA
Air Stripper (Effluent)																					
Carbon tetrachloride	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4	NA
Trichloroethene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	--	NA
Chloroform	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1	NA
Bromodichloromethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	--	NA
Dibromochloromethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	--	NA

NA Not analyzed.
-- Not detected.
Source NYSERDA files.

NYPOTALE.XLS

Table C-12. NYSERDA Potable Water Supply Monitoring Program, 1987 to 1991, Malta Rocket Fuel Area Superfund Site, Towns of Malta and Stillwater, Saratoga County, New York.

Parameters (concentrations in ug/L)	Detected:	6/90	7/90	8/90	9/90	10/90	11/90	12/90	2/91
GE/Exxon Nuclear Building									
1,1,1-Trichloroethane	--	--	--	--	--	--	--	--	--
Trichloroethene	2	2	--	1	0.6	0.9	0.9	1	
Carbon tetrachloride	1	1	0.9	1	1	1	2	2	
Chloroform	2	2	0.7	--	0.7	--	0.8	2	
Dibromochloromethane	1	1	0.5	--	0.7	--	--	--	
Bromodichloromethane	1	1	--	--	--	--	--	--	
Toluene	1	--	--	--	--	--	--	--	
Building 20									
1,1,1-Trichloroethane	--	--	--	--	--	--	--	--	
Trichloroethene	--	1	0.7	1	0.8	1	1	2	
1,2-Dichloroethane	--	--	--	--	--	--	--	--	
Carbon tetrachloride	0.7	0.9	1	2	1	2	2	2	
Chloroform	1	1	2	--	--	--	1	2	
Dibromochloromethane	0.7	0.7	0.7	--	0.7	--	--	--	
Bromodichloromethane	0.5	0.6	0.5	0.6	--	--	--	--	
Building 25									
Chloroform	NA	NA	NA	NA	NA	NA	NA	NA	
Air Stripper (Influent)									
Carbon tetrachloride	37	52	115	125	149	124	147	96	
Trichloroethene	29	30	17	39	37	42	34	49	
Chloroform	5	6	9	13	14	13	14	15	
Bromodichloromethane	0.6	0.6	--	0.6	0.6	--	--	--	
Tetrachloroethene	--	--	--	0.6	--	--	--	--	
Dibromochloromethane	--	--	--	--	0.6	0.7	--	--	
Air Stripper (Effluent)									
Carbon tetrachloride	0.8	0.6	1	1	2	3	4	2	
Trichloroethene	1	0.7	--	2	0.9	1	2	2	
Chloroform	1	4	--	--	0.9	--	2	1	
Bromodichloromethane	0.6	--	--	0.6	--	0.5	--	--	
Dibromochloromethane	0.6	--	--	--	--	0.6	--	--	

NA Not analyzed.
-- Not detected.
Source NYSERDA files.

NYPOTALE.XLS

Table C-13. NYSDOH Results for Wright-Malta Potable Water Supply, 1987, Malta Rocket Fuel Area Superfund Site, Towns of Malta and Stillwater, Saratoga County, New York.

Parameters Detected (concentrations in ug/L)	1/87	3/87	6/87
Wright-Malta Potable Water Supply - Air Stripper (Influent)			
Carbon tetrachloride	130	140	120
Trichloroethylene	50	63	74
Chloroform	9.8	12	13
Wright-Malta Potable Water Supply - Air Stripper (Effluent)			
Carbon tetrachloride	2.8	2.5	3.6
Trichloroethylene	--	2.8	1.3
Chloroform	--	--	0.11
Tetrachloroethylene	1.5	--	--

ug/L Micrograms per liter.
-- Not detected.

Source: NYSDOH files.

Table C-14. NYSERDA Septic Tank Sampling Program Conducted in 1989, Malta Rocket Fuel Area Superfund Site, Towns of Malta and Stillwater, Saratoga County, New York.

Sample Date: / Parameters Detected (concentrations in ug/L)	GE/Exxon Wastewater 2/89	Building 25 Wastewater 2/89	Building 14 Wastewater 2/89
Toluene	103	2,213	37
cis-1,2-Dichloroethene	--	1,140	--
1,3,5-Trimethylbenzene	--	28	--
1,2,4-Trimethylbenzene	--	45	--

ug/L Micrograms per liter.
-- Not detected.

Source: NYSERDA files.

ATTACHMENT C-A

NYSDOH
1985, 1986, AND 1987
POTABLE WATER SAMPLING
ON-SITE MONITORING WELLS
OFF-SITE SURFACE WATER

MALTA TEST STATION WATER SAMPLE RESULTS

TABLE 1

NYSDOH RESULTS - ON-SITE SUPPLY WELLS *

	Well #1	Well #2	Distribution System
4/22/85			
Chloroform	4	25	14
Carbon tetrachloride	25	220	220
Trichloroethene	13	120	59
3/17/86			
Chloroform	3	-**	3
Carbon tetrachloride	20	-	19
Trichloroethene	11	-	10
9/9/87			
Chloroform			2
Carbon tetrachloride			1
Bromodichloroethane			1

* All results in ug/L

** Well #2 was taken out of service

TABLE 2

ON-SITE MONITORING WELLS

8/25/86

Well #	11-D	11-5	13-D	13	4S
ORGANICS (in ug/L)					
Chloroform	26	2	1	2	2
Carbon tetrachloride	83	20	10	50	N.D.
Trichloroethene	N.D.	20	N.D.	N.D.	N.D.
INORGANICS (in mg/L)					
Aluminum		1.1		.6	3.8
Boron	.11	0.14	.10	.18	.29

MALTA TEST STATION WATER SAMPLE RESULTS

TABLE 3

NYSDOH RESULTS - OFF-SITE SURFACE WATER

	Upper South Central Ravine	South Branch South Ravine	North Ravine
6/5/86			
Chloroform	4	N.D.	N.D.
Carbon tetrachloride	36	N.D.	N.D.
Trichlorethene	27	N.D	N.D.

TABLE 4

NEW YORK STATE AND FEDERAL STANDARDS AND GUIDELINES (ug/l)

	NYS			US EPA
	GW	SW	DW	DW
Chloroform	100*	0.2	100*	100*
Carbon tetrachloride	5	0.4g	5	5
Trichloroethene	10	3g	5	5
Bromodichloromethane	50g	50g	100*	100*
Boron	125g	125g	-	-
Aluminum	-	100a	-	50ps

GW = groundwater
SW = surface water
DW = drinking water
g = guidance value
ps = proposed secondary MCL
a = aquatic life standard

*Total trihalomethanes applicable to drinking water as a result of disinfection; not appropriate for use in cases of other sources of contamination.

82230236

ATTACHMENT C-B

O'BRIEN & GERE ENGINEERS, INC., 1986
SUMMARY OF GROUND-WATER ANALYSIS

TABLE 1

WATER ANALYSES
SARATOGA RESEARCH AND DEVELOPMENT CENTER
AND
WRIGHT-MALTA SITE

(all concentrations in micrograms per liter)

Location	Source	Date	Carbon Tetra-chloride	Trichloro-ethylene	Chloroform	PCB
Tap	CT Male	3/28/85	440	130	51	1.3
Tap	NYSDOH	4/22/85	220	59	14	--
Tap	CT Male	4/12/85	630	100	31	<0.15
Well No. 1	CT Male	4/12/85	29	13	2.7	0.16
Well No. 1	NYSDOH	4/22/85	25	13	4	--
Well No. 2	CT Male	4/12/85	840	230	58	0.18
Well No. 2	NYSDOH	4/22/85	220	120	25	--
Well No. 3	CT Male	4/12/85	<2	3.6	1.3	0.7
Well No. 4	CT Male	4/12/85	2.0	1.0	1.0	<1

TABLE 2
HEAVY METAL ANALYSES
SARATOGA RESEARCH AND DEVELOPMENT CENTER
AND
WRIGHT-MALTA SITE

(all concentrations in milligrams per liter)

	Well No. 1		Well No. 2		Tap	
Metal	NYSDOH	C.T. Male	NYSDOH	C.T. Male	NYSDOH	C.T. Male
lead	0.025	--	ND	--	ND	LT 0.01
barium	ND*	--	ND	--	ND	LT 0.5
silver	ND	--	ND	--	ND	LT 0.01
mercury	0.085	--	ND	--	ND	
selenium	ND	--	ND	--	ND	LT 0.001
arsenic	ND	--	ND	--	ND	LT 0.005
chromium	ND	--	ND	--	0.018	LT 0.01
copper	0.09	--	ND	--	ND	
cadmium	ND	--	ND	--	ND	0.003
boron	--	0.020	--	0.099	--	0.082

ND - not detected

Note 1: values from the NYSDOH were received by telephone from Gary Litwin (NYSDOH) and should not be considered official until release by the department.

Note 2: Boron also was detected in samples collected by C. T. Male from Well No. 3 (0.048 mg/l) and Well No. 4 (0.140 mg/l). There is a possibility that boron could be present due to past disposal of boron-containing compounds on-site.

ATTACHMENT C-C

NYSERDA, 1979
DRUM SAMPLING IN STORAGE AREA S-4

Exhibit D

300003

CENTURY
Environmental Testing Labs, Inc.
P.O. Box 248/Jessup Road & Route I-295/Thorofare, N.J. 08086/609/848-3939

ANALYSIS REPORT
NO. 02079, 02080, 02081

CERTIFICATE OF ANALYSIS

CLIENT

Coastal Services Inc.
P.O. Box 140
Rensselaer, N.J. 12144
Attn: Tom Rogers

LOG NUMBER	SAMPLE IDENTIFICATION
02079	NYS Energy Sample #1
02080	NYS Energy Sample #2
02081	NYS Energy Sample #3

SAMPLE RECEIVED 3/30/79 ANALYSIS COMPLETED 4/16/79

COLLECTED BY

RESULTS (mg/L unless specified)

TEST PARAMETER				TEST PARAMETER		02079	02080	02081
BOD_5*				Chlorine Demand				
COD				Chlorine Residual				
TOC				Chloride (CL)				
Dissolved Oxygen				Silica				
Suspended Solids				Petroleum HYC.				
Total Solids				Hardness (as $CaCO_3$)				
Dissolved Solids				Flash Point (°C)		38.	30.	32.
Sett. Solids (ml/L)				Hydrazine		90.	105	115
pH				Beryllium	**	<0.2	<0.2	<0.2
Phenols				Aluminum				
Cyanide (Total)				Antimony				
Fluoride				Arsenic		0.030	0.040	0.034
Cyanide (Free)				Barium	**	<0.5	<0.5	<0.5
Surfactants (mg/L LAS)				Boron				
Oil & Grease (Freon)				Cadmium	**	<0.02	<0.02	<0.02
				Calcium (Ca)				
Nitrogen (KJD as N)				Chromium (Total)		**<0.2	0.2	**<0.2
Nitrogen (Ammonia as N)				Chromium (Hex)				
Nitrogen (Organic as N)				Cobalt				
Nitrite (N)				Iron				
Nitrate (N)				Lead		**<0.2	0.2	0.2
Phosphate (P) Total				Magnesium (Mg)				
Phosphate (P) - Ortho				Manganese				
Sulfate (SO_4)				Mercury		0.036	0.038	0.001
Sulfite (SO_3)				Nickel	**	<0.2	<0.2	<0.2
Sulfide				Potassium				
Color				Selenium				
Turbidity (NTU)				Silver	**	<0.02	<0.02	<0.02
Conductivity (Micromohs)				Sodium				
Alk (Total) as $CaCO_3$				Tin				
				Titanium				
Fecal Coliform				Zinc		1.9	4.0	4.0
Total Coliform								

* A minimum of 5 sample dilutions were used for this determination.

** Non-detectable, below the limit of detection

LAB COMMENT:

CENTURY
Environmental Testing Labs, Inc.
P.O. Box 248/Jessup Road & Route I-295/Thorofare, N.J 08086/609/848-3939

ANALYSIS REPORT

NO. 02082,08083,08084

CERTIFICATE OF ANALYSIS

NEW YORK STATE ENERGY RESEARCH & DEVELOPMENT AUTHORITY

JUN 2 8 1979

TREASURER'S OFFICE

CLIENT

COASTAL SERVICES INC.
P.O. Box 140
Rennsalear, N.Y. 12144

Attn: Mr. Tom Rogers

LOG NUMBER	SAMPLE IDENTIFICATION
02082	NYS Energy #4
02083	NYS Energy #5
02084	NYS Energy #6

SAMPLE RECEIVED 3/30/79 ANALYSIS COMPLETED 4/16/79

COLLECTED BY

RESULTS (mg/L unless specified)

TEST PARAMETER				TEST PARAMETER		02082	02083	020
BOD_5*				Chlorine Demand				
COD				Chlorine Residual				
TOC				Chloride (CL)				
Dissolved Oxygen				Silica				
Suspended Solids				Petroleum HYC.				
Total Solids				Hardness (as $CaCO_3$)				
Dissolved Solids				Flash Point(°C)		25.	23.	23
Sett. Solids (ml/L)				Hydrazine		90.	90.	90
pH				Beryllium	**	<0.2	<0.2	<0.
Phenols				Aluminum				
Cyanide (Total)				Antimony				
Fluoride				Arsenic		0.041	0.037	0.0
Cyanide (Free)				Barium	**	<0.5	<0.5	<0.
Surfactants (mg/L LAS)				Boron				
Oil & Grease (Freon)				Cadmium	**	<0.02	<0.02	<0.0
				Calcium (Ca)				
Nitrogen (KJD as N)				Chromium (Total)	**	<0.2	<0.2	<0.2
Nitrogen (Ammonia as N)				Chromium (Hexa)				
Nitrogen (Organic as N)				Copper				
Nitrite (N)				Iron				
Nitrate (N)				Lead		0.2	0.2	0.2
Phosphate (P) Total				Magnesium (Mg)				
Phosphate (P) - Ortho				Manganese				
Sulfate (SO_4)				Mercury		0.0012	0.0010	0.00
Sulfite (SO_3)				Nickel	**	<0.2	<0.2	<0.2
Sulfide				Potassium				
Color				Selenium				
Turbidity (NTU)				Silver	**	<0.02	<0.02	<0.0
Conductivity (Micromohs)				Sodium				
Alk (Total) as $CaCO_3$				Tin				
				Titanium				
Fecal Coliform				Zinc		3.8	0.2	0.0
Total Coliform								

* A minimum of 5 sample dilutions were used for this determination.

** Non-detectable, below the limit of detection.

LAB COMMENT:

CENTURY
Environmental Testing Labs, Inc.
P.O. Box 248/Jessup Road & Route I-295/Thorofare, N.J 08086/609/848-3939

ANALYSIS REPORT
NO. 02085, 02086, 02087

CERTIFICATE OF ANALYSIS

CLIENT

COASTAL SERVICES INC.
P.O. Box 140
Renssalear, N.Y. 12144

Attn: Mr. Tom Rogers

LOG NUMBER	SAMPLE IDENTIFICATION
02085	NYS Energy , Sx. #7
02086	NYS Energy , Sx. #8
02087	NYS Energy , Sx. #9

SAMPLE RECEIVED 3/30/79 ANALYSIS COMPLETED 4/16/79

COLLECTED BY

RESULTS (mg/L unless specified)

TEST PARAMETER				TEST PARAMETER	02085	02086	02087
BOD_5*				Chlorine Demand			
COD				Chlorine Residual			
TOC				Chloride (CL)			
Dissolved Oxygen				Silica			
Suspended Solids				Petroleum HYC.			
Total Solids				Hardness (as $CaCO_3$)			
Dissolved Solids				Flash Point (°C)	28.	23.	28
Sett. Solids (ml/L)				Gasoline	120	100	0
pH				Kerosene **	<0.2	<0.2	<0.2
Phenols				Aluminum			
Cyanide (Total)				Antimony			
Fluoride				Arsenic	0.043	0.031	0.0
Cyanide (Free)				Barium **	<0.5	<0.5	<0.
Surfactants (mg/L LAS)				Boron			
Oil & Grease (Freon)				Cadmium **	<0.02	<0.02	<0.
				Calcium (Ca)			
Nitrogen (KJD as N)				Chromium (Total)	**<0.2	0.2	0.
Nitrogen (Ammonia as N)				Chromium (Hexa)			
Nitrogen (Organic as N)				Copper			
Nitrite (N)				Iron			
Nitrate (N)				Lead	0.2	**<0.2	0.
Phosphate (P) Total				Magnesium (Mg)			
Phosphate (P) - Ortho				Manganese			
Sulfate (SO_4)				Mercury	0.0002	0.0002	0.0
Sulfite (SO_3)				Nickel	0.4	**<0.2	0
Sulfide				Potassium			
Color				Selenium			
Turbidity (FTU)				Silver **	<0.02	<0.02	<0.
Conductivity (Micromohs)				Sodium			
Alk (Total) as $CaCO_3$				Tin			
				Titanium			
Fecal Coliform				Zinc	0.0	0.0	0.0
Total Coliform							

* A minimum of 5 sample dilutions were used for this determination.
** Non-detectable, below the limit of detection.

LAB COMMENT:

LAB CERTIFICATION NO: 08153

Richard W. Tyner

CENTURY
Environmental Testing Labs, Inc.
P.O. Box 248/Jessup Road & Route I-295/Thorofare, N.J. 08086/609-848-3939

March 28, 1978

RECEIVED
MAY 4 1979

From: COASTAL SERVICES INC.
P.O. Box 140
Renssalear, N.Y. 12144

LABORATORY REPORT OF ANALYSIS

Sample Received: 3/30/79

Analysis Completed: 4/26/79

Sample Identification: Composite of N.Y.S. Energy Fuels(#1-10); and 4 Ashla Chemical Fuels

Log # : 02093

Lab Results:

Specific Gravity: 0.93

pH : 12.7

Suspended Solids: 16.ppm

Total Solids(% wt.) : 12,000 ppm

Total Solids(% vol.): 11,200 ppm

Vol. Total Solids(% wt.) : 92%

Boiling Point(sxs.1-10) : 93° C

Acidity: none

Iodine: <1 ppm

Chloride: 330ppm

Organic Chloride: 210ppm

Flouride: 1.4ppm

Cyanide: 1.2ppm

Phenol: 0.013 ppm

PCB : <0.001ppm

PBB : <0.001 ppm

% Moisture : sxs.1-10 only (31%) ; total comp. (22%)

% Solvent : sxs.1-10 only (69%) ; total comp. (78%)

ATTACHMENT C-D

ENVIRONMENTAL ONE CORPORATION, 1985
PTI TRANSFORMER OIL SAMPLING

TABLE 1

ANALYSIS OF TRANSFORMER OILS

[1] Oil Samples

Sample I.D.		E/One Log #	PCB, ppm	Arochlor Classification
West HPO	79316617	685018	< 1.2	1242
	79316618	685019	< 1	"
	79316619	685024	< 1	"
	79316620	685021	< 1	"
	79316621	685027	< 1.7	"
	79316622	685022	< 1	"
	79316623	685023	< 1	"
West Pad Mount	79JM115004	685026	1.3	"
Delta Star	EA 33399	685020	2.1	1254
	EA 33448	685030	< 1	"
	C 25239	685034	1.4	"
Central Transformer	4410-1	685037	2.4	1260
	4410-2	685035	< 1.3	1242
	4410-3	685033	< 1.8	"
Blue 55 Gal. Drum		685031	< 1.2	1242
Green 55 Gal. Drum		685048	< 14.5	"
Underground Tank Sun 4		685032	< 1	"

	Cl, %	S, %
Blue 55 Gal. Drum	0.05	0.015
Green 55 Gal. Drum	0.10	0.012
Underground Tank Sun 4	< 0.008	0.007

Sample I.D.		E/One Log #	PCB, ppm	Arochlor Classification
Ohio	7.2KV 5R 2162	685046	< 1	1242
	7.2KV 5R 2163	685038	< 1.5	"
	7.2KV 5R 2164	685044	998*	1260
	138KV 6162985	685028	76	"
	138KV 6162986	685025	360	"
	138KV 6162987	685029	608	"
GE	8479760	685036	85	1260
Spiro	8675285	685047	374	"
Kore	8675687	685040	129	"
	8675693*	685043	371*	"
	B411704	685041	189	"
	B411705	685045	196	"
	B411707	685039	187	"

Adirondack Environmental Services, Inc.

P.O. Box 265 298 Riverside Avenue Rensselaer, NY 12144 (518) 434-4546

CHAIN OF CUSTODY RECORD

CLIENT AND PROJECT NAME: NYSERTA MALTA NY

SAMPLERS: (Signature) Randy Hough

SAMPLE NUMBER	SAMPLE IDENTIFICATION & LOCATION	DATE	TIME A=a.m. P=p.m.	SAMPLE TYPE MATRIX	COMP	GRAB	NUMBER OF CONT'S	ANALYSIS REQUIRED
881117-501	S-2 Drum	11/17	1000 A P	liq	X		1	Waste Classification*
			A P					
			A P					
	*Exact Parameters to be determined		A P					
			A P					
			A P					
			A P					
			A P					
			A P					
			A P					
			A P					
			A P					

Relinquished by: (Signature)	Received by: (Signature) Randy S. Hough	Date/Time 11/17 1005
Relinquished by: (Signature)	Received by: (Signature)	Date/Time
Relinquished by: (Signature)	Received by: (Signature)	Date/Time
Relinquished by: (Signature)	Received by Mobile Laboratory for field analysis: (Signature)	Date/Time
Dispatched by: (Signature) / Date/Time	Received for Laboratory by:	Date/Time
Method of Shipment:		

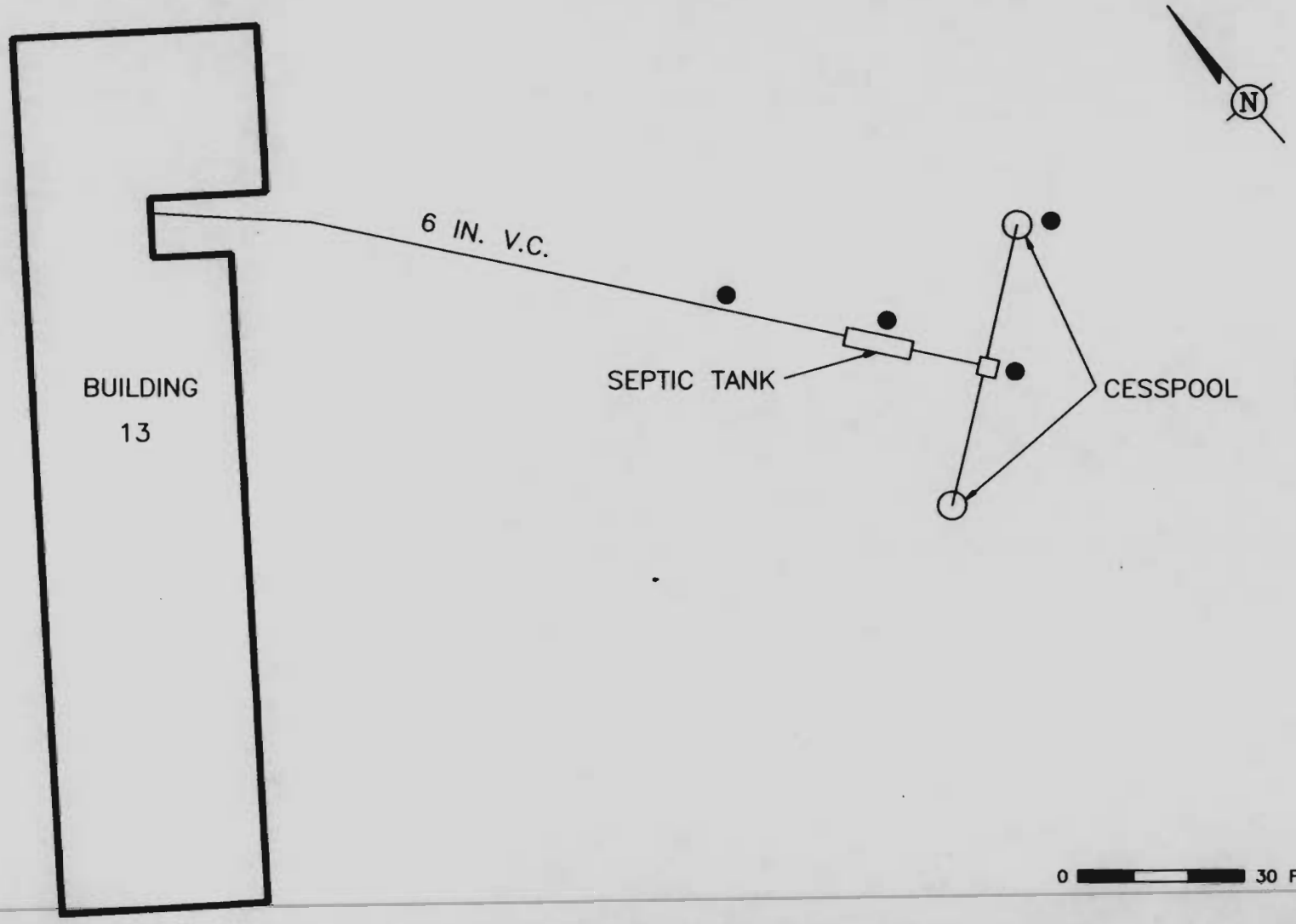
Specializing in Hazardous Waste and Petroleum Product Analyses

WHITE - Lab Copy YELLOW - Sampler Copy PINK - Generator Copy

APPENDIX D

ADDITIONAL SOIL-GAS SURVEY GRIDS

DWG DATE: 6-4-91	PRJCT NO.: NY04605	FILE NO.: 1208	DRAWING: BLDG13	CHECKED: DS	APPROVED: LV	DRAFTER: GS



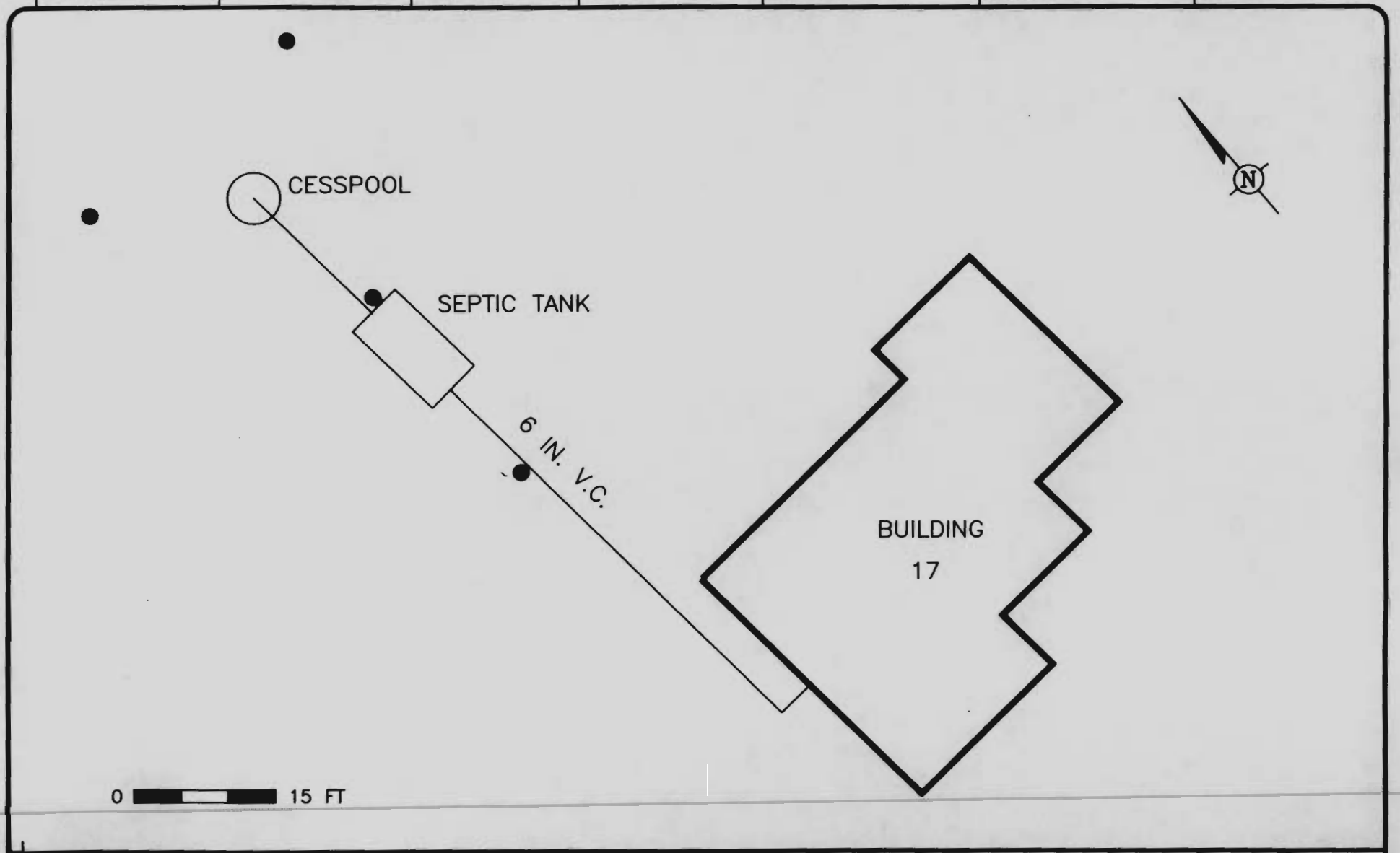
GERAGHTY & MILLER, INC.
Environmental Services

SOIL-GAS GRID: SEPTIC SYSTEM NEAR BUILDING 13

MALTA ROCKET FUEL AREA
SUPERFUND SITE
MALTA/STILLWATER, NEW YORK

FIGURE
D-1

DWG DATE: 6-5-91	PRJCT NO.: NY04605	FILE NO.: 1208	DRAWING: BLFG17	CHECKED: DS	APPROVED: LV	DRAFTER: GS



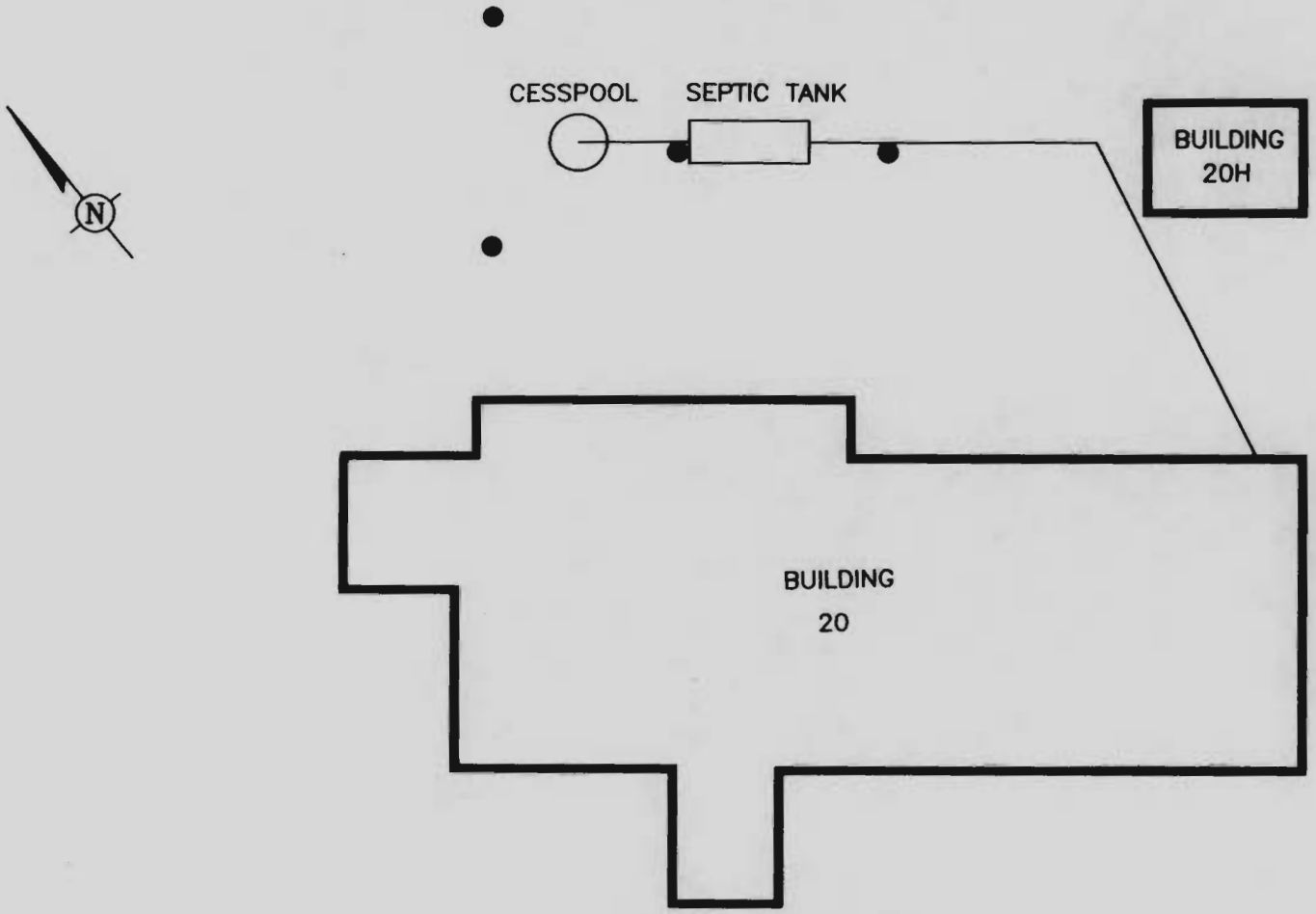
GERAGHTY & MILLER, INC.
Environmental Services

SOIL-GAS GRID: SEPTIC SYSTEM NEAR BUILDING 17

MALTA ROCKET FUEL AREA
SUPERFUND SITE
MALTA/STILLWATER, NEW YORK

FIGURE
D-2

DWG DATE: 6-5-91	PRJCT NO.: NY04605	FILE NO.: 1208	DRAWING: BLDG20	CHECKED: DS	APPROVED: LV	DRAFTER: GS



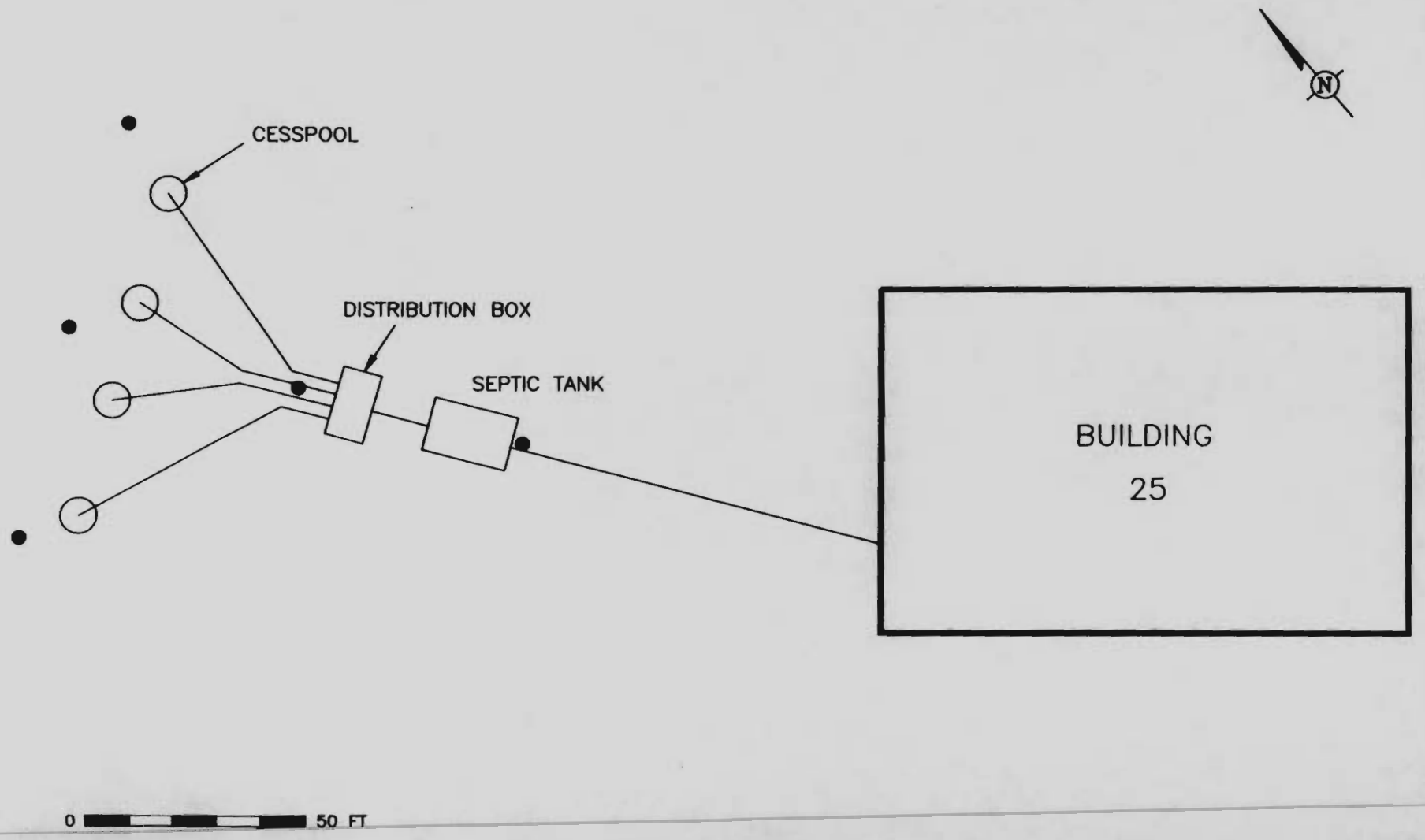
GERAGHTY & MILLER, INC.
Environmental Services

SOIL-GAS GRID: SEPTIC SYSTEM NEAR BUILDING 20

MALTA ROCKET FUEL AREA
SUPERFUND SITE
MALTA/STILLWATER, NEW YORK

FIGURE
D-3

DWG DATE: 6-5-91	PRJCT NO.: NY04605	FILE NO.: 1208	DRAWING: BLDG25	CHECKED: DS	APPROVED: LV	DRAFTER: GS



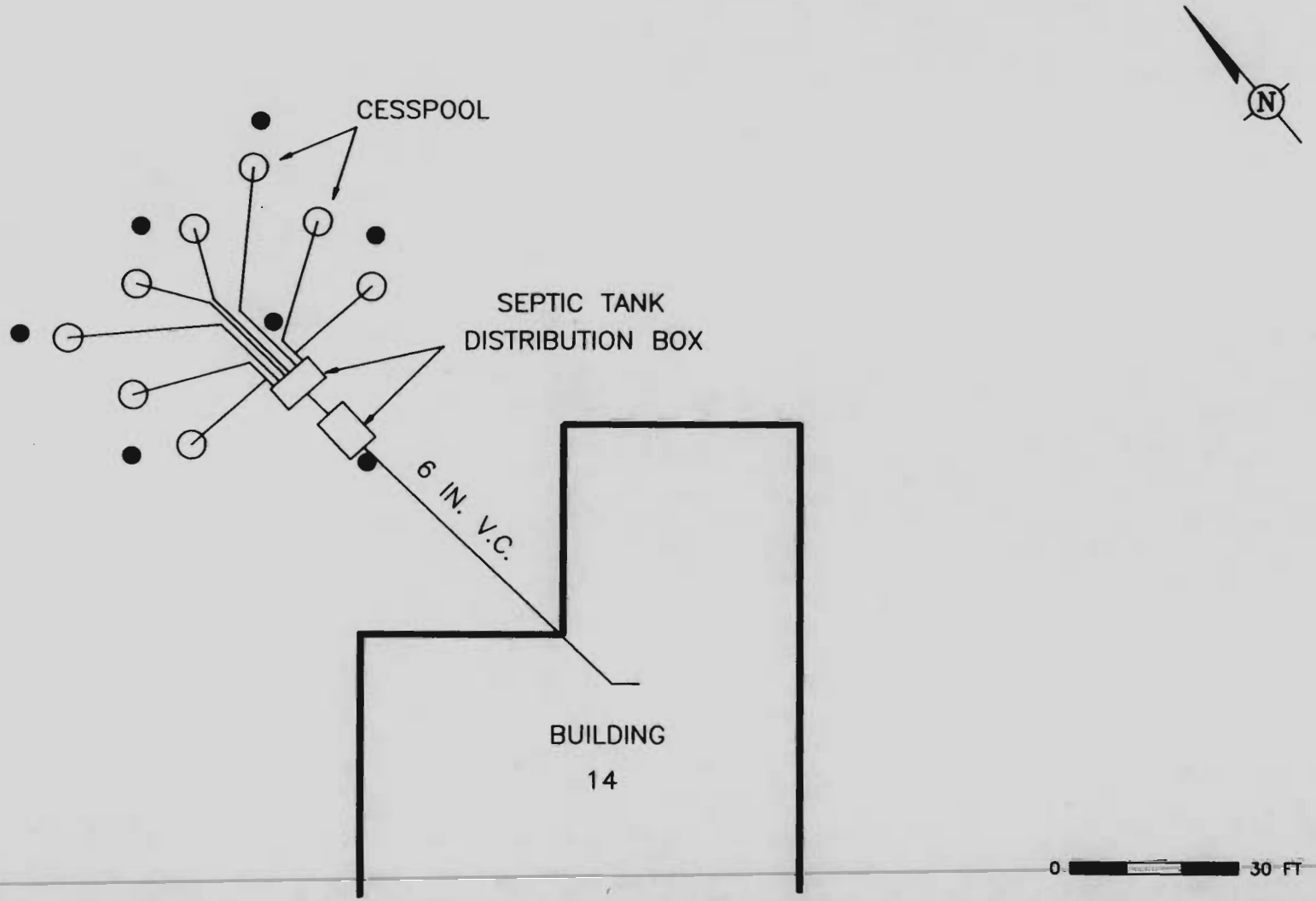
GERAGHTY & MILLER, INC.
Environmental Services

SOIL-GAS GRID: SEPTIC SYSTEM NEAR BUILDING 25

MALTA ROCKET FUEL AREA
SUPERFUND SITE
MALTA/STILLWATER, NEW YORK

FIGURE
D-4

DWG DATE: 6-5-91	PRJCT NO.: NY04605	FILE NO.: 1208	DRAWING: BLDG13	CHECKED: DS	APPROVED: LV	DRAFTER: GS



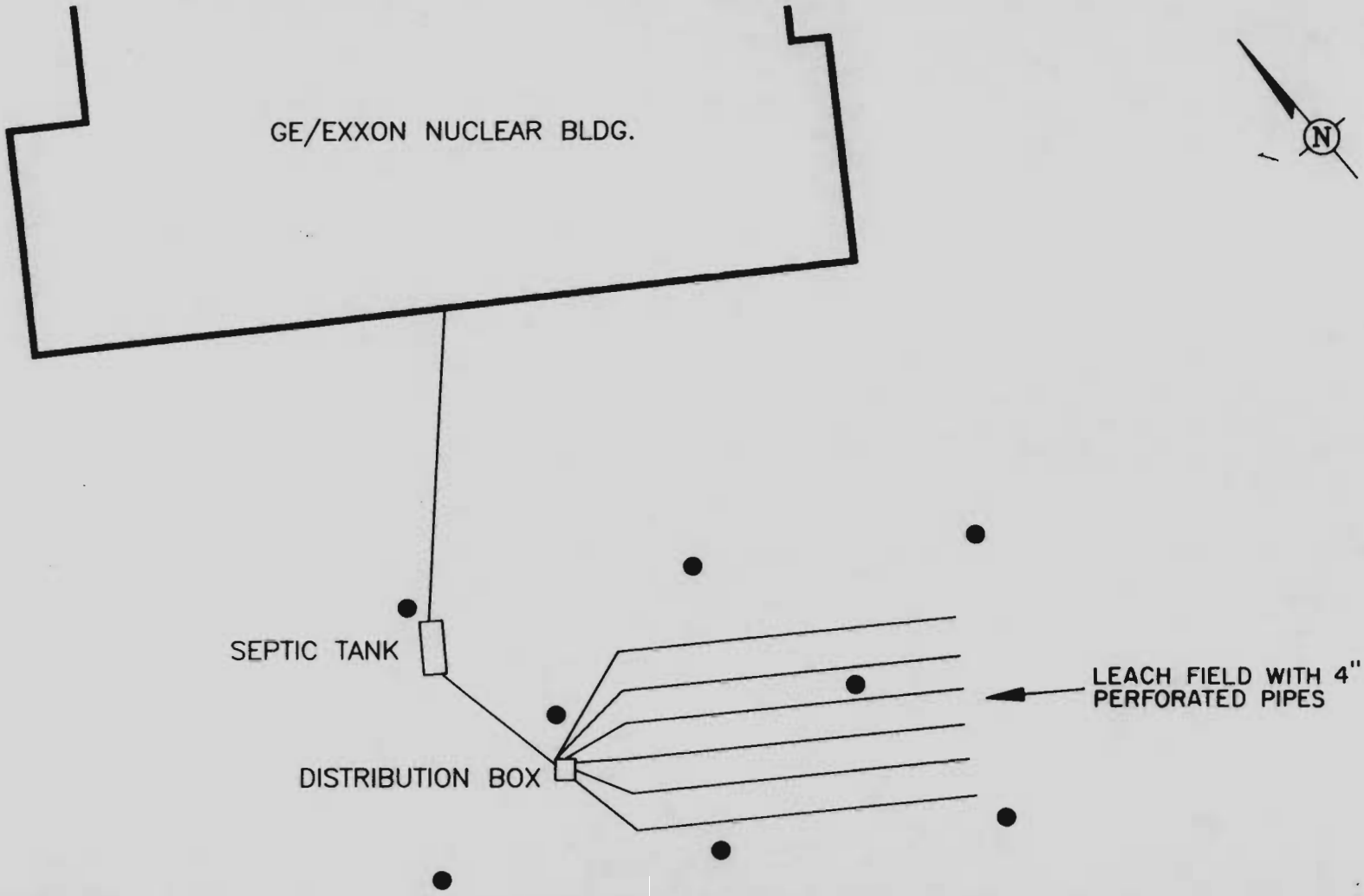
GERAGHTY & MILLER, INC.
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SOIL-GAS GRID: SEPTIC SYSTEM NEAR BUILDING 14

MALTA ROCKET FUEL AREA
SUPERFUND SITE
MALTA/STILLWATER, NEW YORK

FIGURE
D-5

DWG DATE: 6-5-91	PRJCT NO.: NY04605	FILE NO.: 1208	DRAWING: NUKEBLDG	CHECKED: DS	APPROVED: LV	DRAFTER: GS

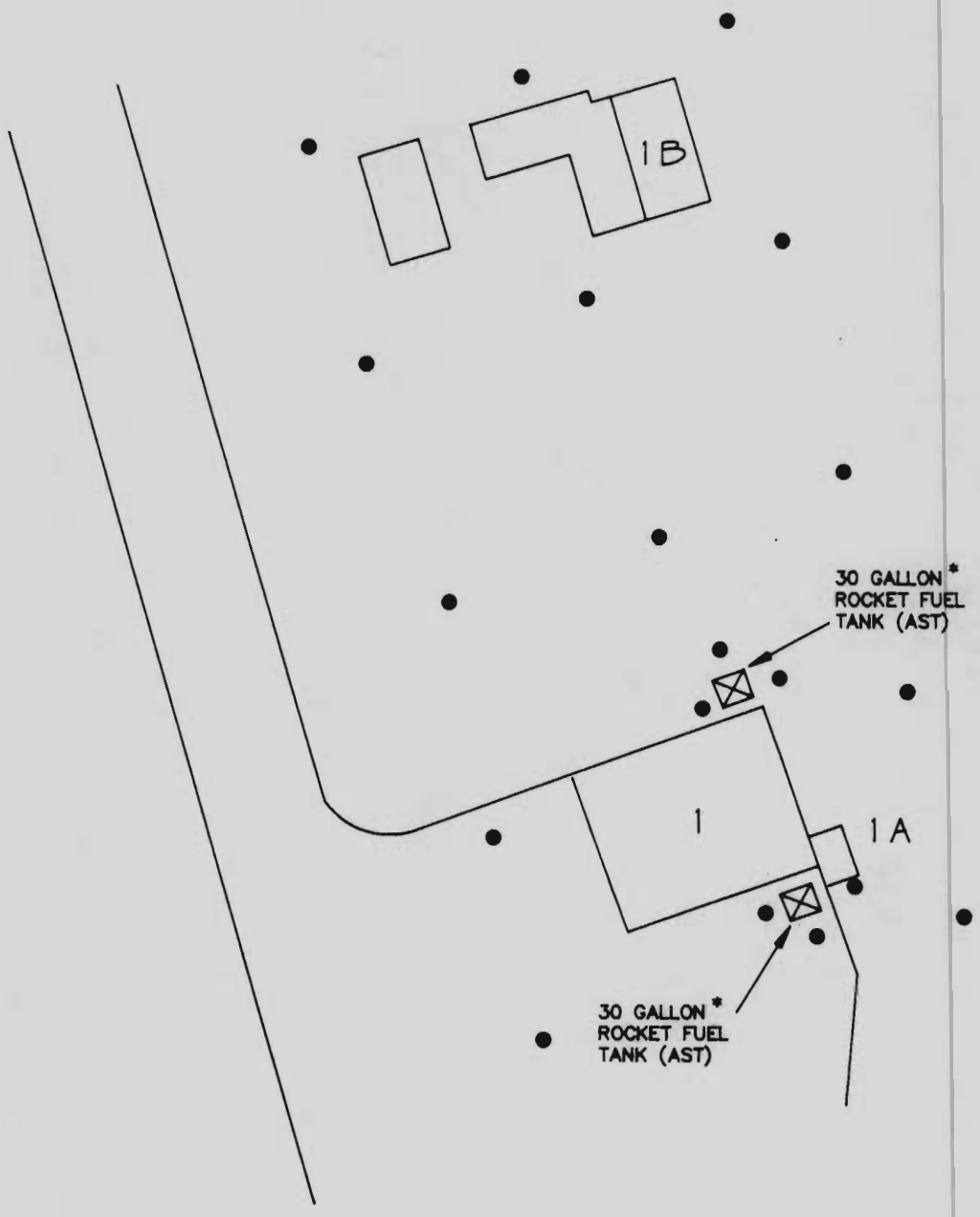


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SOIL-GAS GRID: SEPTIC SYSTEM NEAR GE/EXXON NUCLEAR BUILDING

MALTA ROCKET FUEL AREA
SUPERFUND SITE
MALTA/STILLWATER, NEW YORK

FIGURE
D-6



* ESTIMATED SIZE

THIS GRID REPLACES FIGURE G-II IN THE RI WORK PLAN

DRAFTER: V. CARUNCHO | APPROVED: D. COLTON | CHECKED: D.V.S. | CAD FILE: SG-TS1 | FILE NO.: 1453 | PRJCT. NO.: NY04605 | DWG. DATE: 10/91

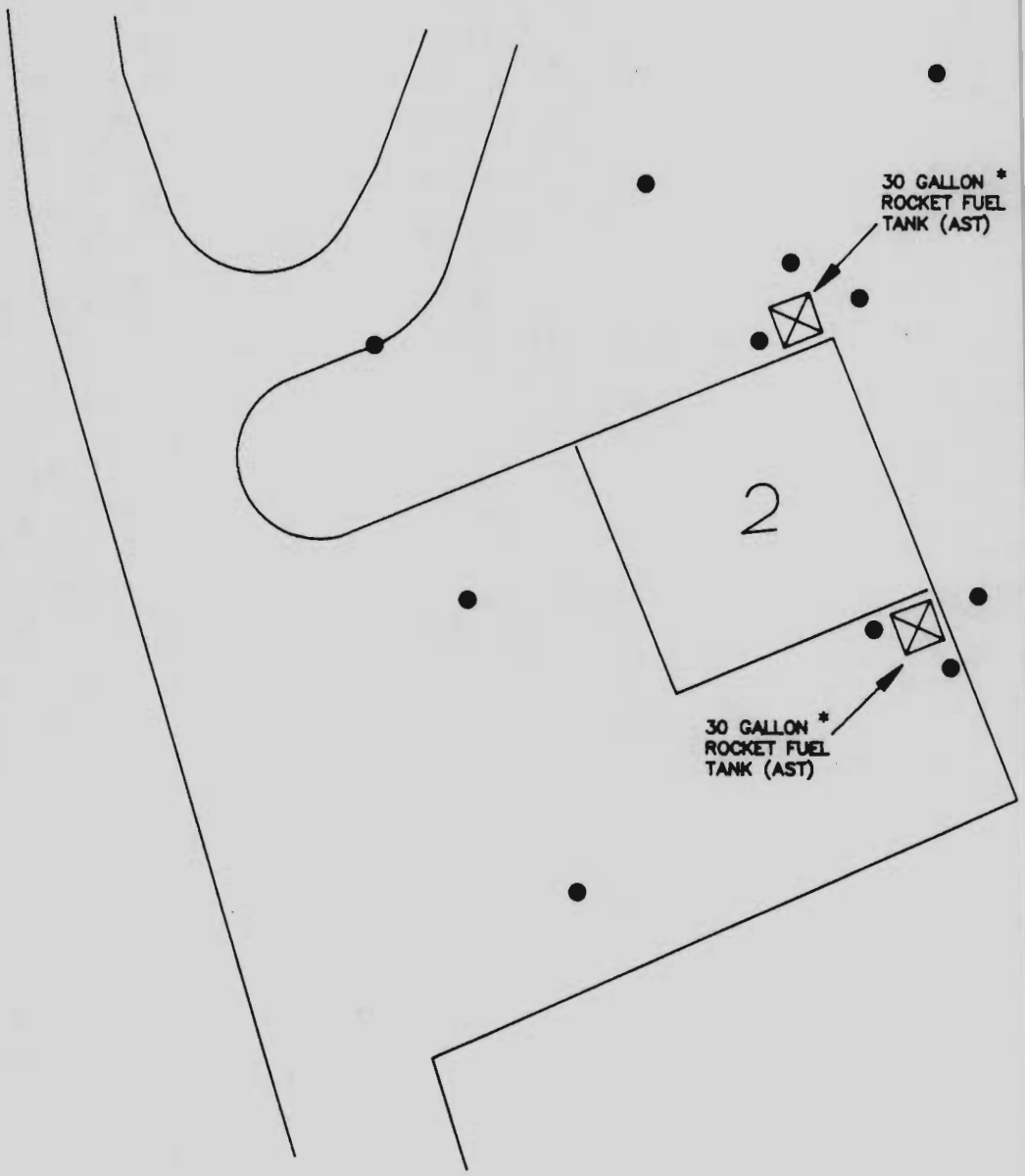
SCALE 0 40 FT

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SOIL-GAS GRID: TEST STRUCTURE 1

MALTA ROCKET FUEL AREA
SUPERFUND SITE

FIGURE
D-7



* ESTIMATED SIZE

THIS GRID REPLACES FIGURE G-12 IN THE RI WORK PLAN

DRAFTER: V. CARUNCHO | APPROVED: D. COLTON | CHECKED: D.V.S. | CAD FILE: SG-2 | FILE NO.: 1453 | PRJCT. NO.: NY04605 | DWG. DATE: 10/91

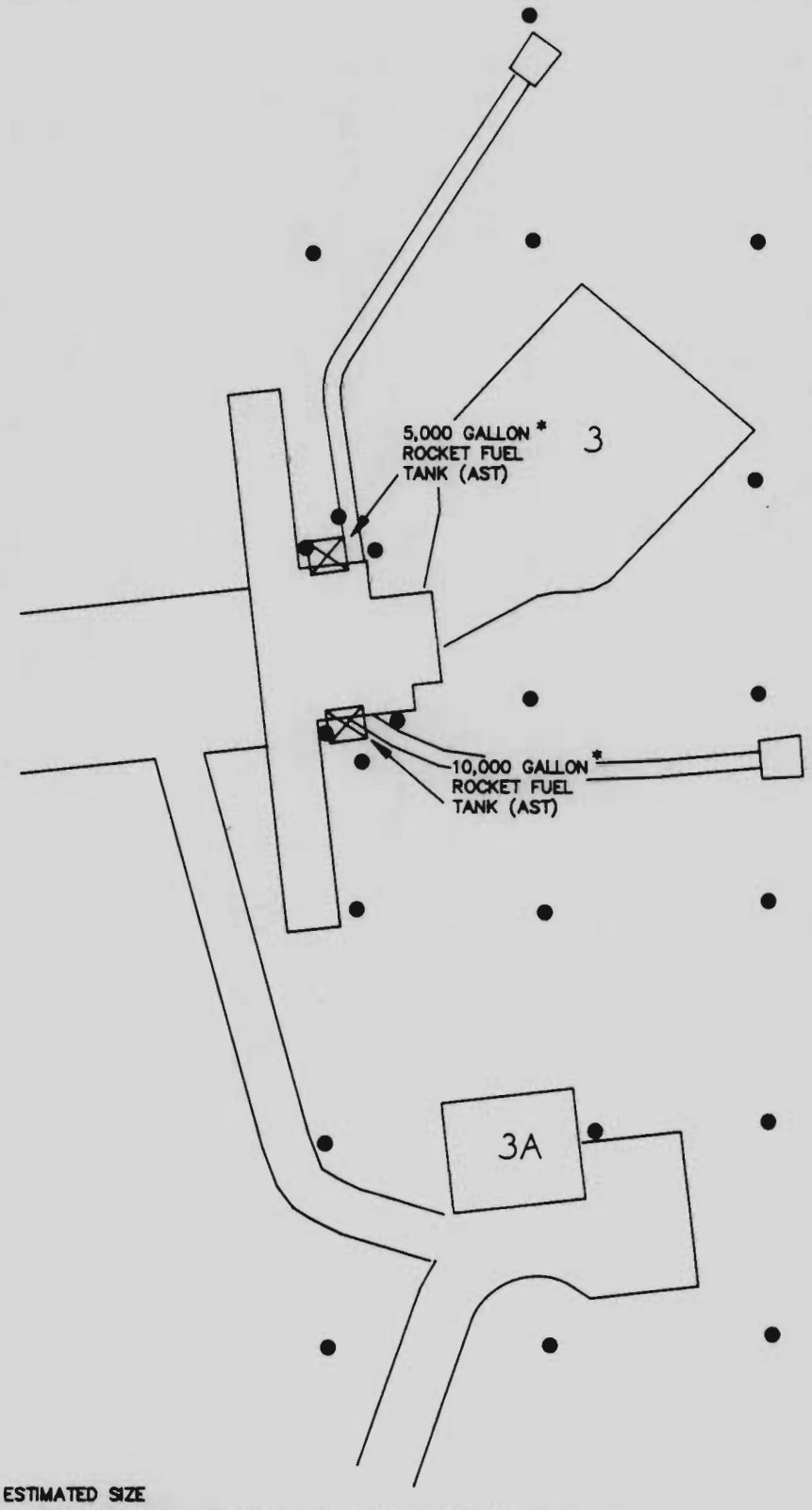
SCALE 0 30 FT

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SOIL-GAS GRID: TEST STRUCTURE 2

MALTA ROCKET FUEL AREA
SUPERFUND SITE

FIGURE
D-8



* ESTIMATED SIZE

THIS GRID REPLACES FIGURE G-13 IN THE RI WORK PLAN

SCALE 0 40 FT

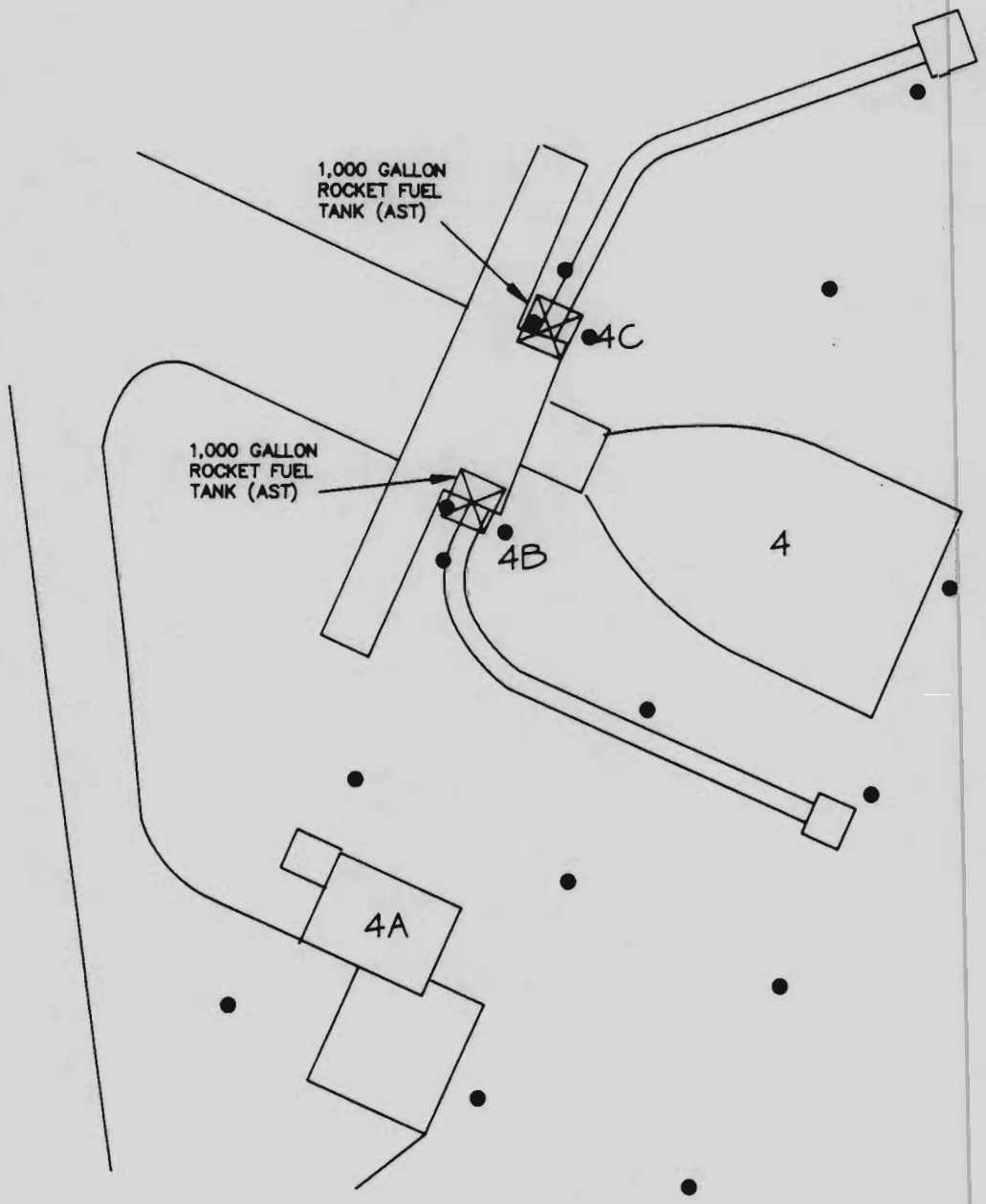
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SOIL-GAS GRID: TEST STRUCTURE 3

MALTA ROCKET FUEL AREA
SUPERFUND SITE

FIGURE
D-9

DRAFTER: V. CARUNCHIO | APPROVED: D. COLTON | CHECKED: D.V.S. | CAD FILE: SG-TS3 | FILE NO.: 1453 | PRJCT. NO.: NY04605 | DWG. DATE: 10/91



THIS GRID REPLACES FIGURE G-14 IN THE RI WORK PLAN

SCALE
0 40 FT

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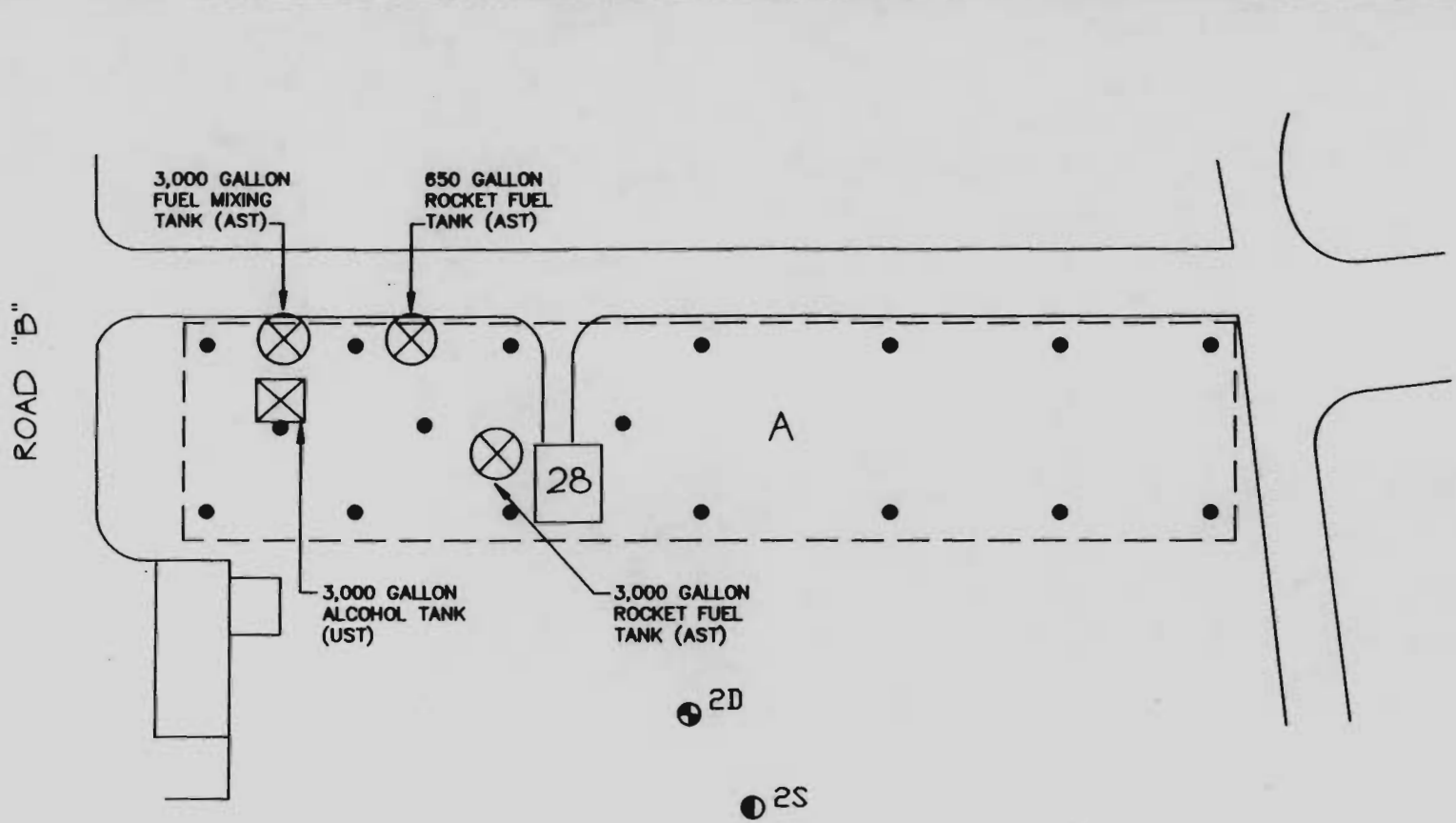
SOIL-GAS GRID: TEST STRUCTURE 4

MALTA ROCKET FUEL AREA
SUPERFUND SITE

FIGURE
D-10

DRAFTER: V. CARUNCHO | APPROVED: D. COLTON | CHECKED: D.V.S. | CAD FILE: SG-TS4 | FILE NO.: 1453 | PRJCT. NO.: NY04605 | DWG. DATE: 10/91

DWG. DATE: 10/91	PRJCT. NO.: NY04605	FILE NO.: 1453	CAD FILE: SG-A	CHECKED: D.V.S.	APPROVED: D. COLTON	DRAFTER: V. CARUNCHO



THIS GRID REPLACES FIGURE G-22 IN THE RI WORK PLAN

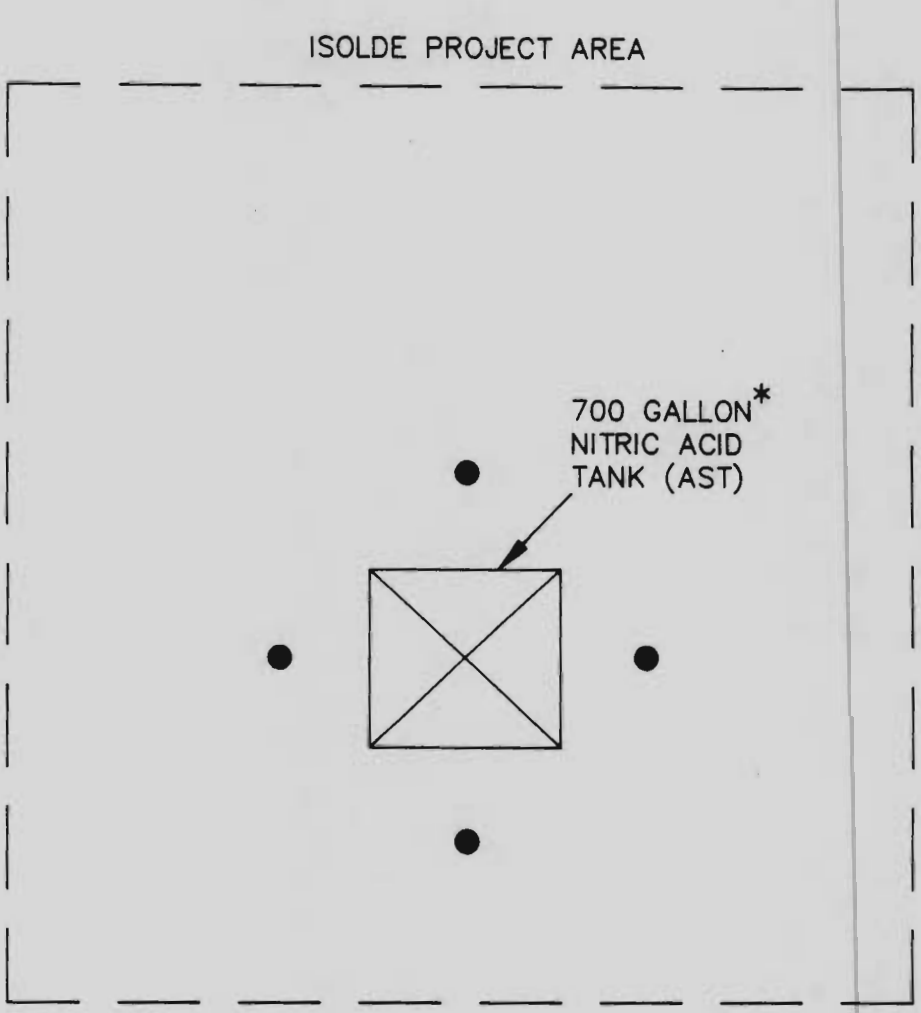
SCALE
0 50 FT

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SOIL-GAS GRID: AREA A

MALTA ROCKET FUEL AREA
SUPERFUND SITE

FIGURE
D-11



* ESTIMATED SIZE

0 10 FT

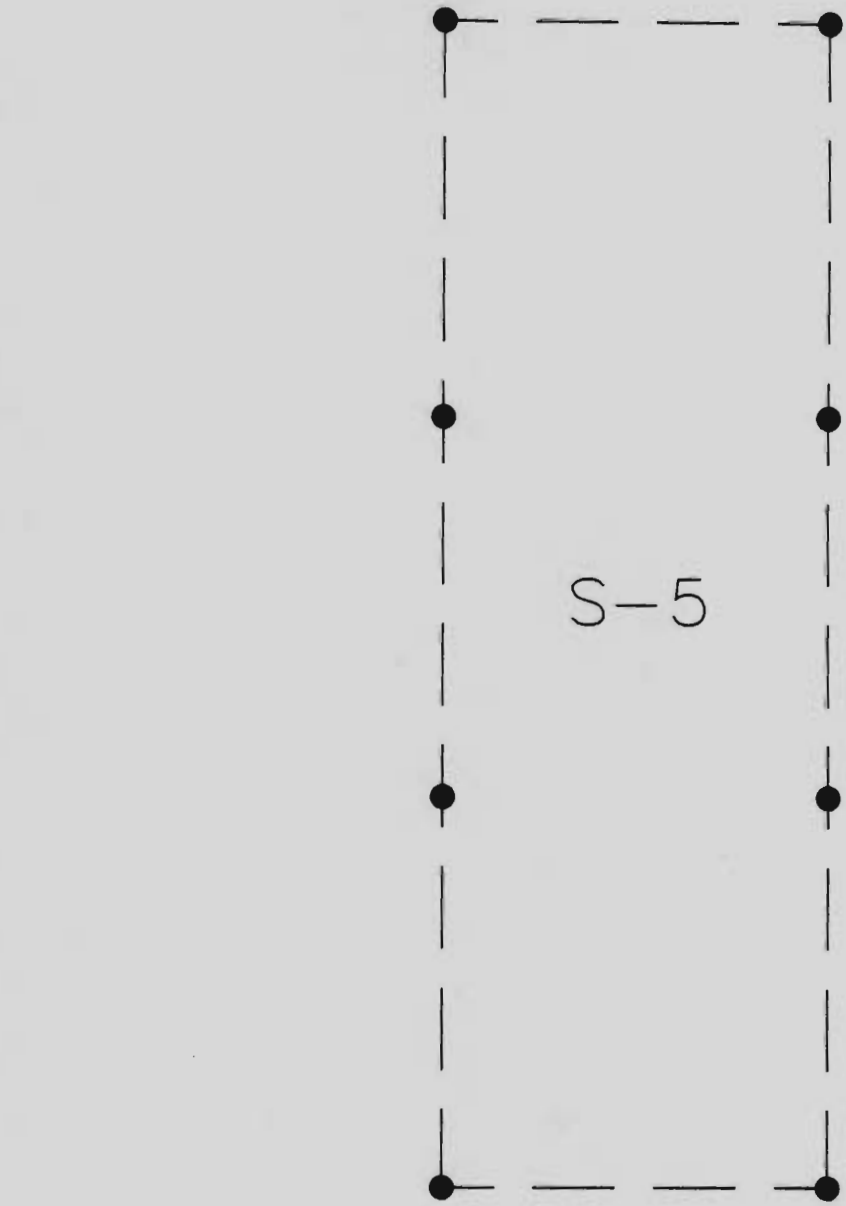
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SOIL-GAS GRID: ISOLDE PROJECT AREA

MALTA ROCKET FUEL AREA
SUPERFUND SITE
MALTA/STILLWATER, NEW YORK

FIGURE
D-12



0 25 FT

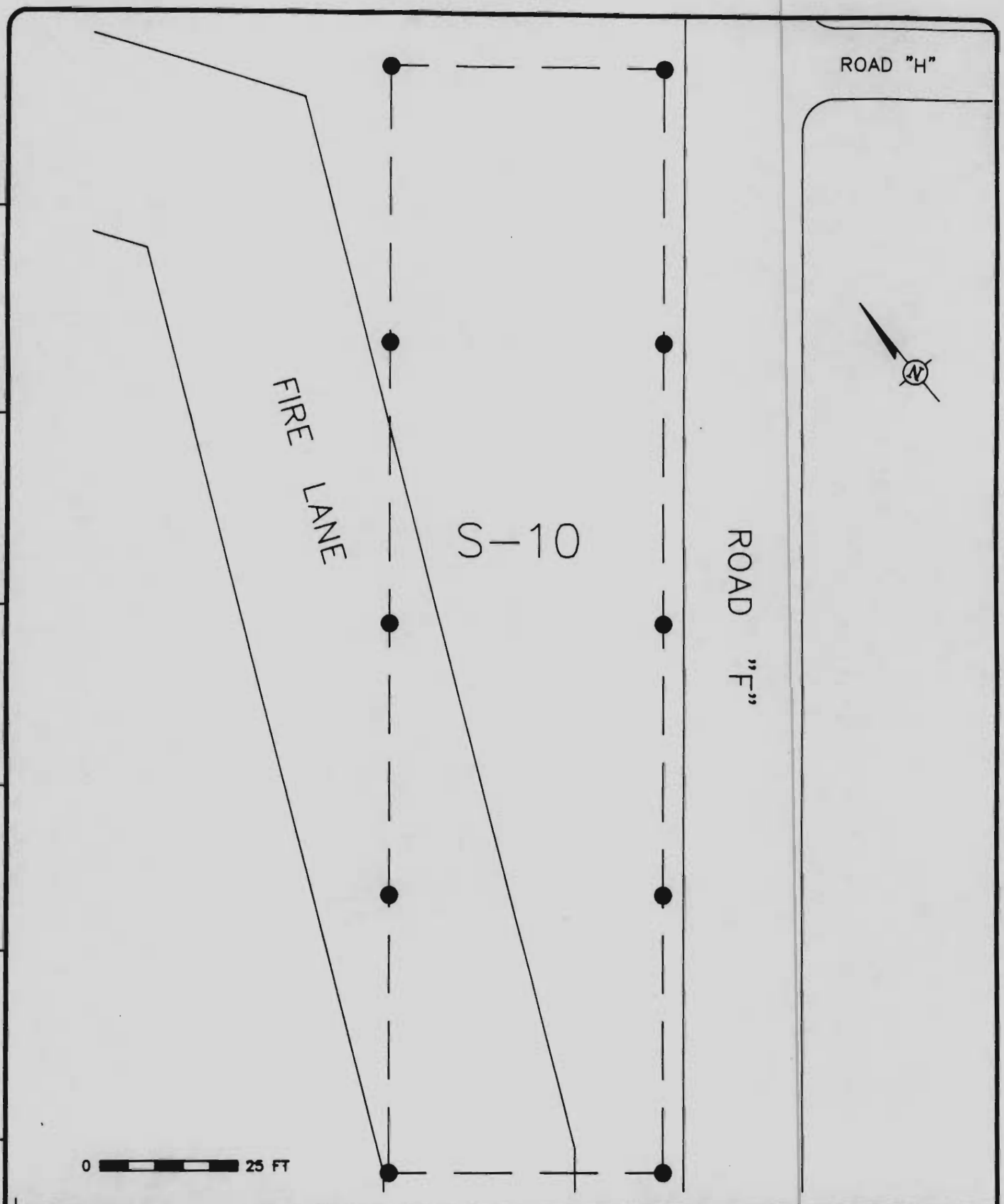
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SOIL-GAS GRID: AREA S-5

MALTA ROCKET FUEL AREA
SUPERFUND SITE
MALTA/STILLWATER, NEW YORK

FIGURE
D-13



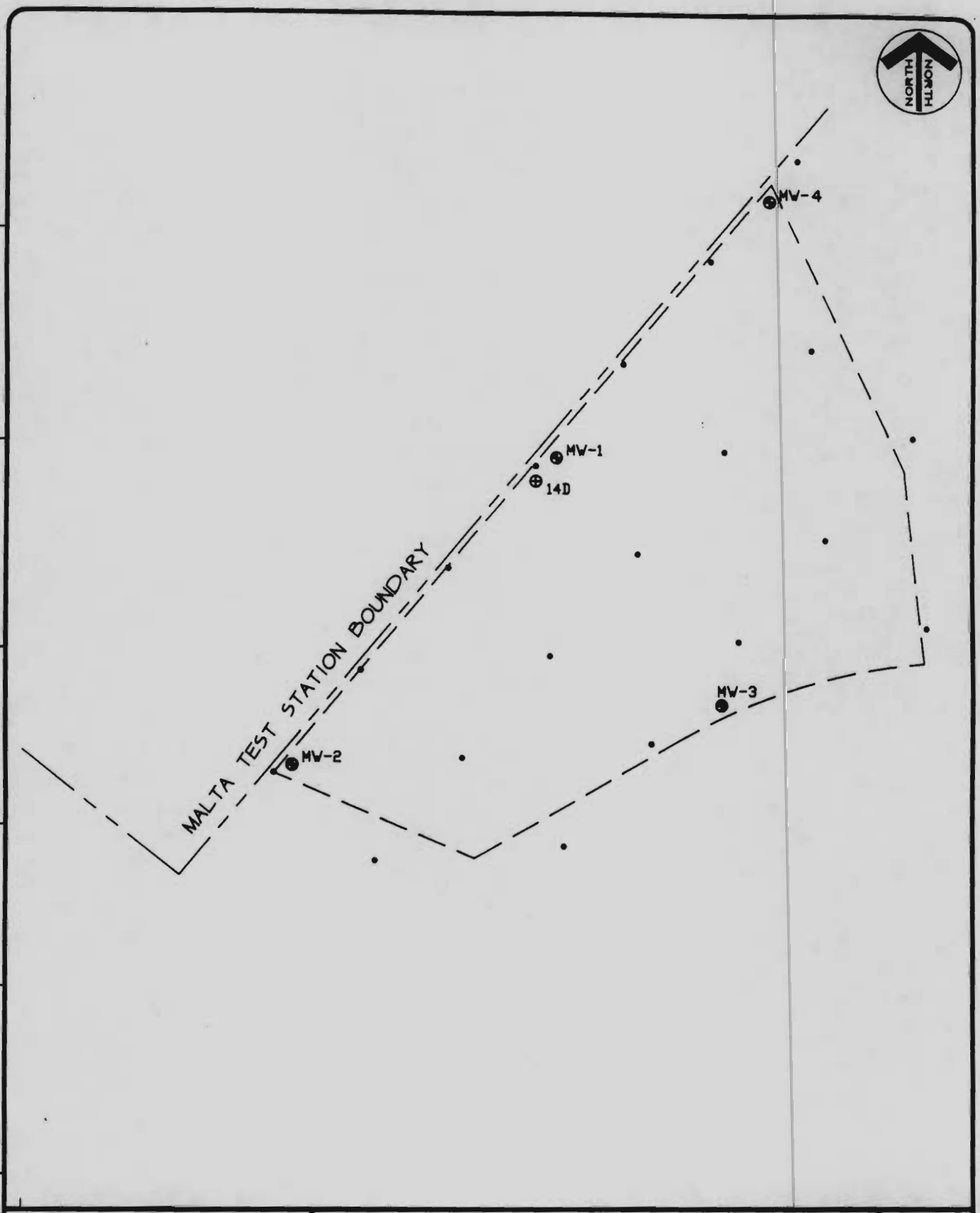
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GERAGHTY & MILLER, INC.
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SOIL-GAS GRID: AREA S-10

MALTA ROCKET FUEL AREA
SUPERFUND SITE
MALTA/STILLWATER, NEW YORK

FIGURE
D-14



DRAFTER: W.H. CIGIO | APPROVED: D. COLTON | CHECKED: D.V.S. | CAD FILE: SG-TRI-2 | FILE NO.: | PROJ. NO.: NY04605 | DWG. DATE: 10/91

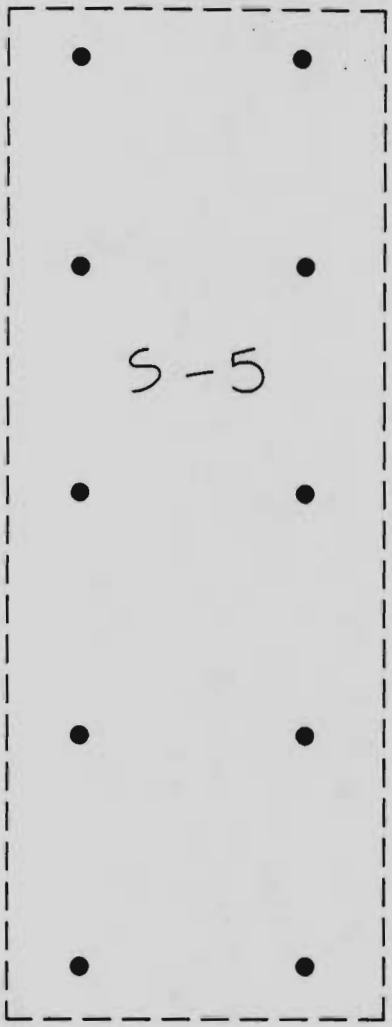
SCALE 0 200 FT

GERAGHTY & MILLER, INC.
Environmental Services

REVISED SOIL-GAS GRID: TRIANGULAR PARCEL
SOUTHWEST CORNER OF TEST STATION

MALTA ROCKET FUEL AREA
SUPERFUND SITE

FIGURE
D-15



DRAFTER: W.H. CICIO | APPROVED: D. COLTON | CHECKED: D.V.S. | CAD FILE: GEO-S5 | FILE NO.: | PRJCT. NO.: NY04605 | DWG. DATE: 10/91

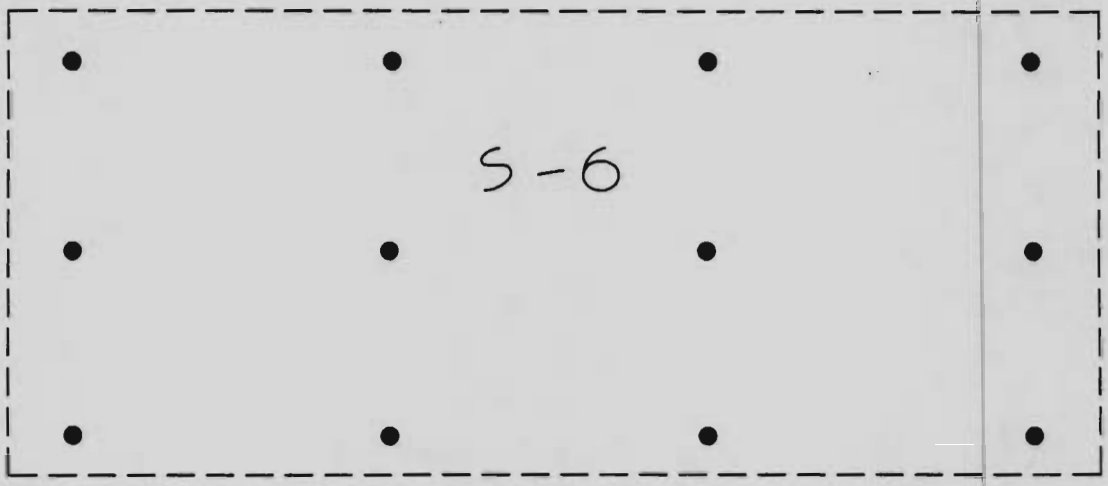
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GEOPHYSICAL SURVEY GRID: AREA S-5

MALTA ROCKET FUEL AREA
SUPERFUND SITE

FIGURE
D-16



DRAFTER: W.H. CIOIO | APPROVED: D. COLTON | CHECKED: D.V.S. | CAD FILE: GEO-S6 | FILE NO.: | PRJCT. NO.: NY04605 | DWG. DATE: 10/91

SCALE
0 30 FT

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GEOPHYSICAL SURVEY GRID: AREA S-6

MALTA ROCKET FUEL AREA
SUPERFUND SITE

FIGURE
D-17

APPENDIX E

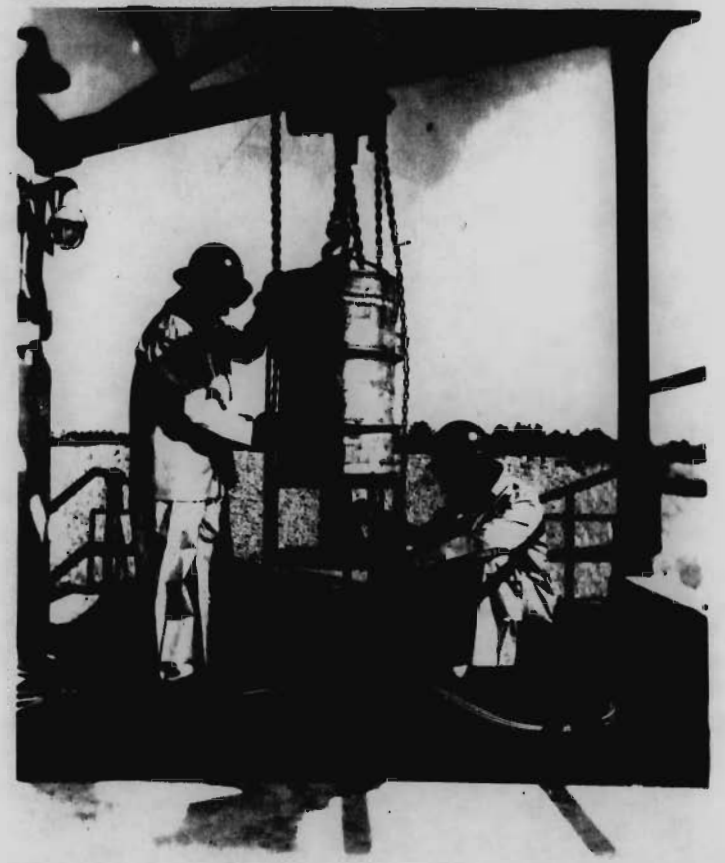
HISTORICAL PHOTOGRAPHS

HISTORICAL PHOTOGRAPHS

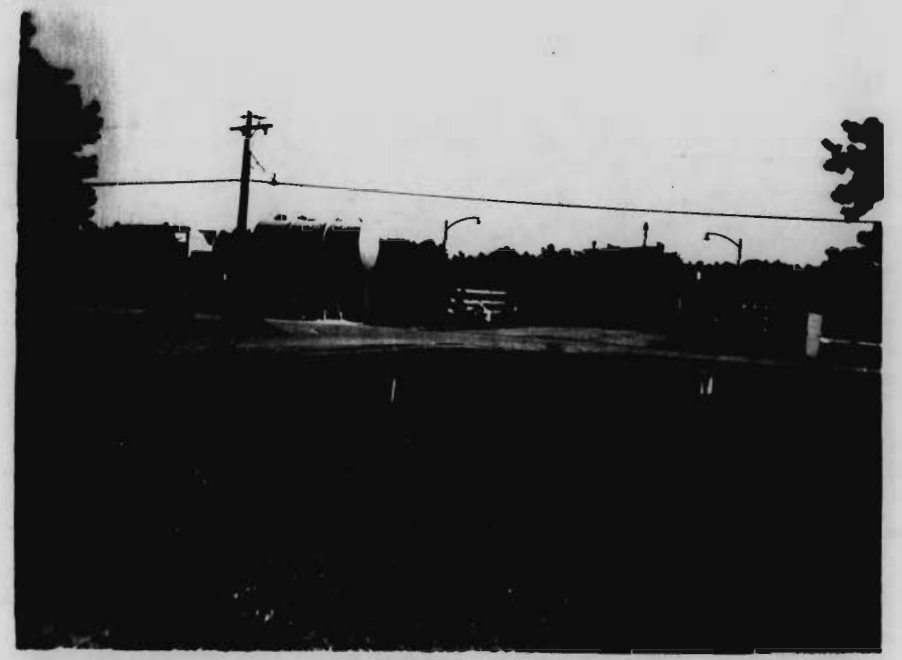
1957 TO 1980



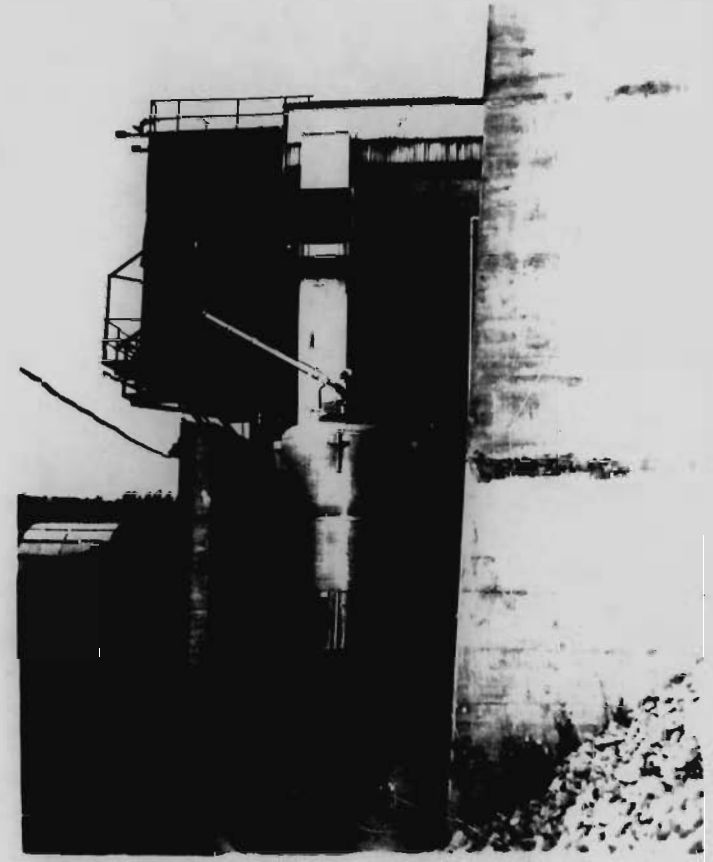
Photograph 1:
Isolde Project, "Building 1", Magazine Area - 1957



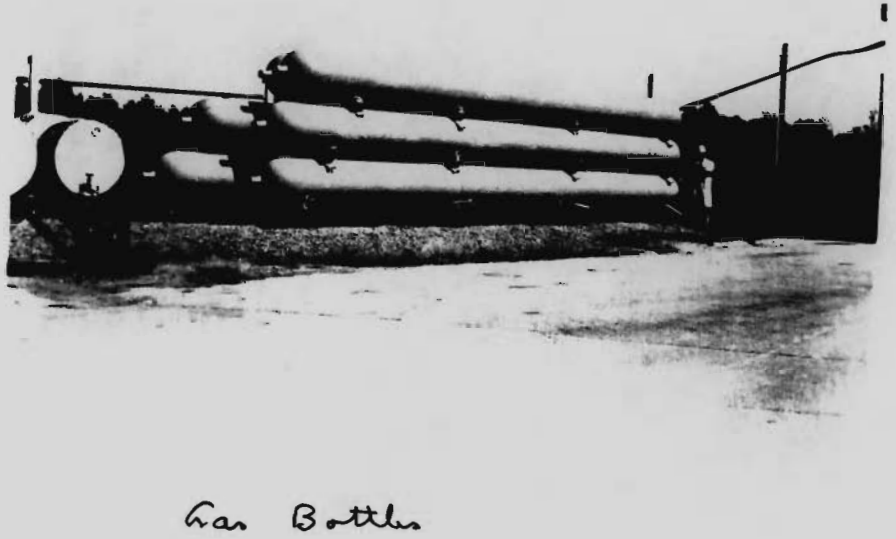
Photograph 2:
Heat Transfer Tests, Building 24 - 1957



Photograph 3:
Liquid oxygen, gas and fuel tanks
Test Pit 3 and Area A - September 19, 1957



Photograph 4:
Fuel tank and concrete drainage sluice
Test Pit 3 - September 19, 1957



Photograph 5:
Gas bottles and carbon tetrachloride drums, Test Pit 3 - September 19, 1957



Photograph 6:
Liquid oxygen storage, Test Pit 3 - September 19, 1957



Photograph 7:
Storage tanks, test pit and observation station, Building 6 - November 13, 1957



Photograph 8:
Unloading of nitric acid tanks, Test Pit 3 - December 3, 1957



Photograph 9:
Unloading of rocket fuel, Test Pit 3 - December 3, 1957



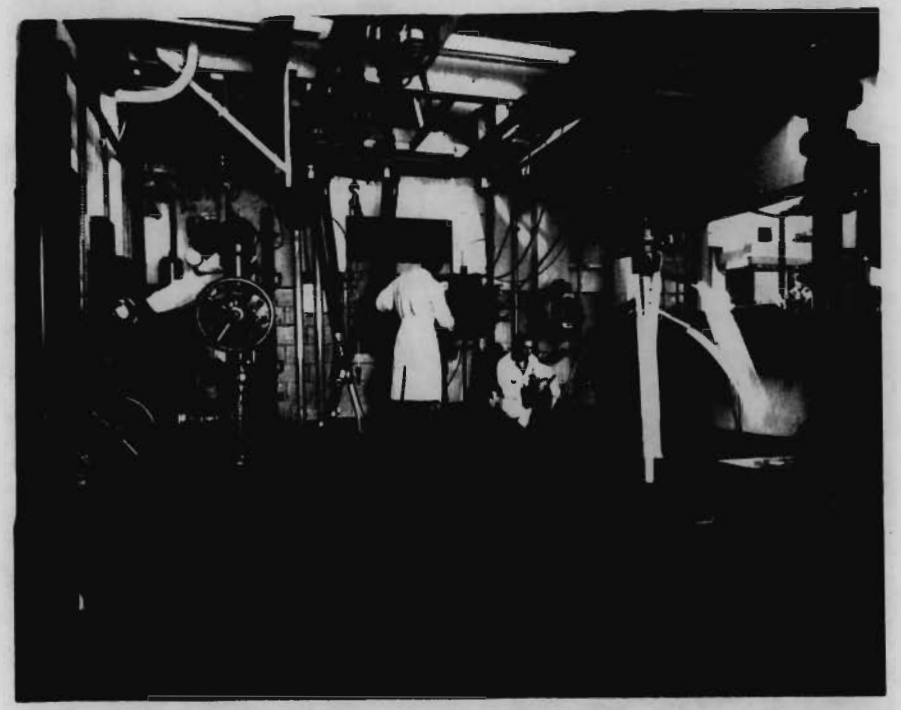
Photograph 10:
Liquid oxygen delivery, Building 25 - December 3, 1957



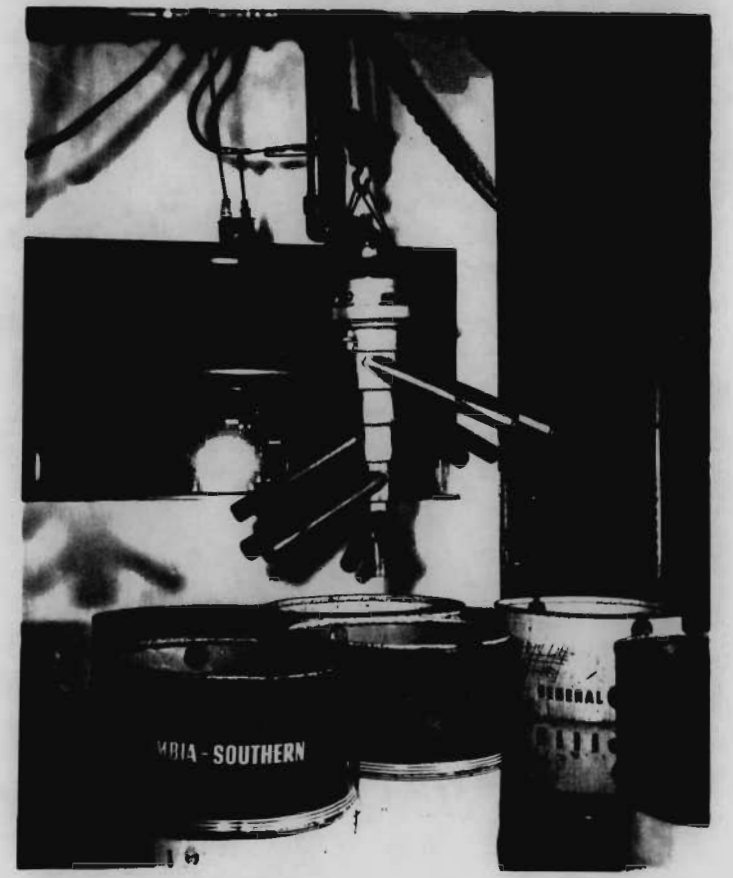
Photograph 11:
Liquid oxygen delivery, Building 25 - December 3, 1957



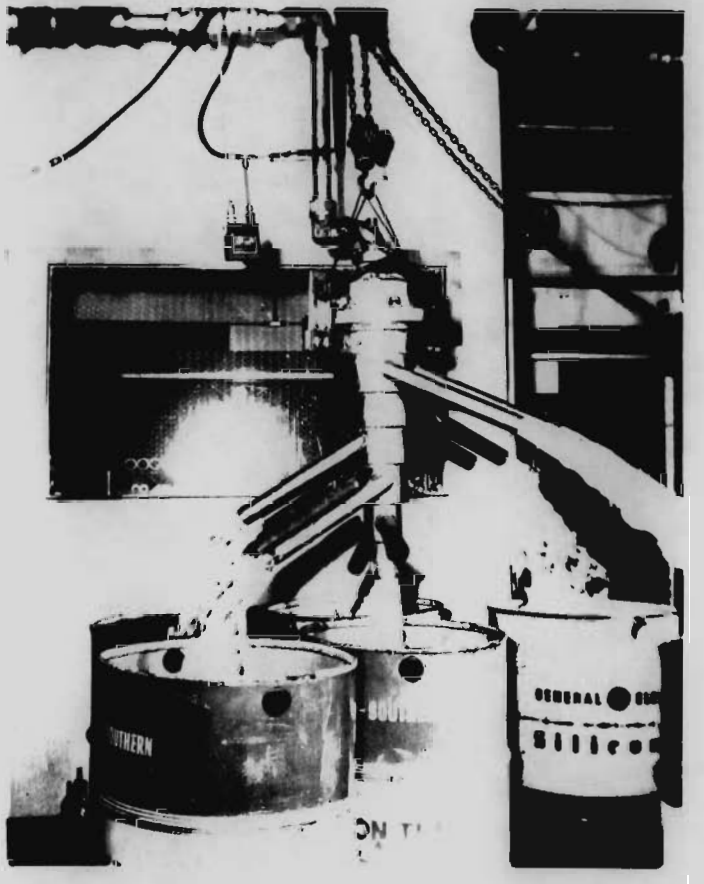
Photograph 12:
Gas tanks and test facility, Building 6 - January 22, 1958



Photograph 13:
Hydraulic testing, Building 15 - January 22, 1958



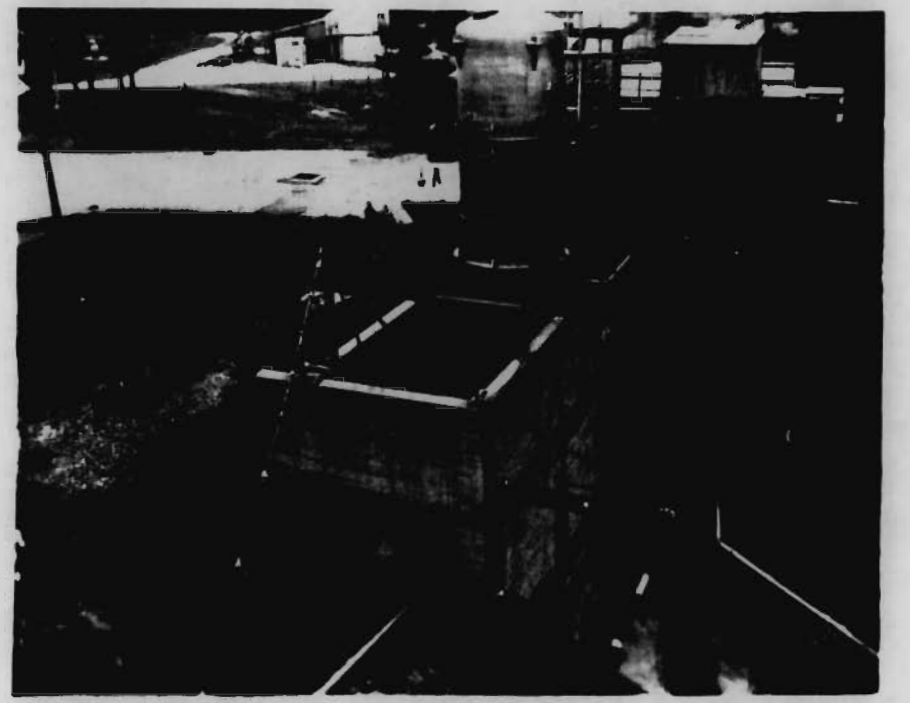
Photograph 14:
Flow fixtures, Building 15 - January 22, 1958



Photograph 15:
Hydraulic testing and empty silicone and carbon tetrachloride drums, Building 15 - January 22, 1958



Photograph 16:
Former pentaborane pilot production plant, Building 20 - July 11, 1958



Photograph 17:
Fuel feed system with tanks and concrete drainage sluice, Test Pit 4 - August 21, 1958



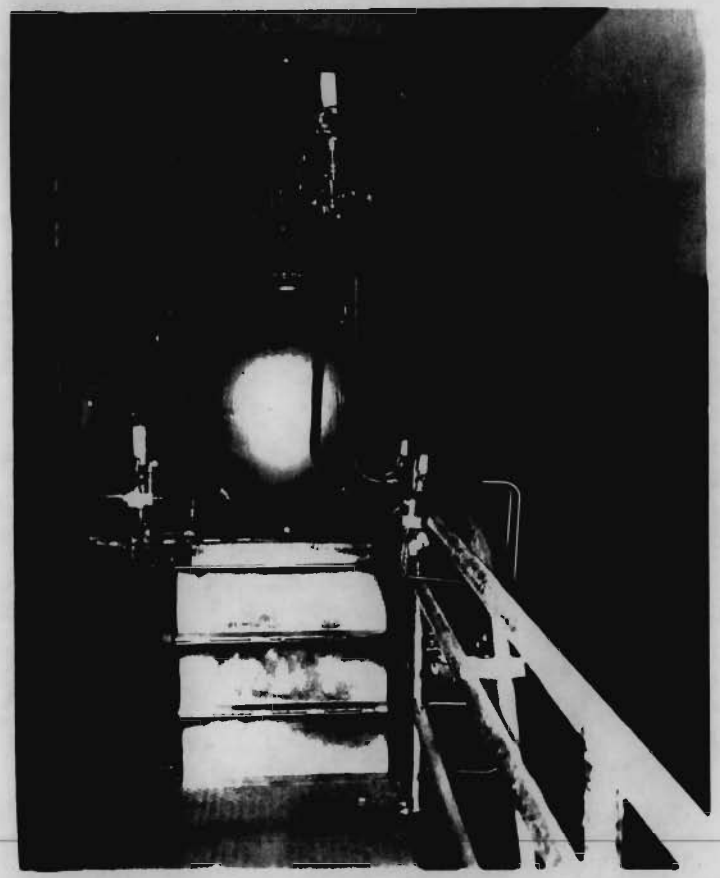
Photograph 18:
Rocket test complex, Building 25 - July 7, 1959



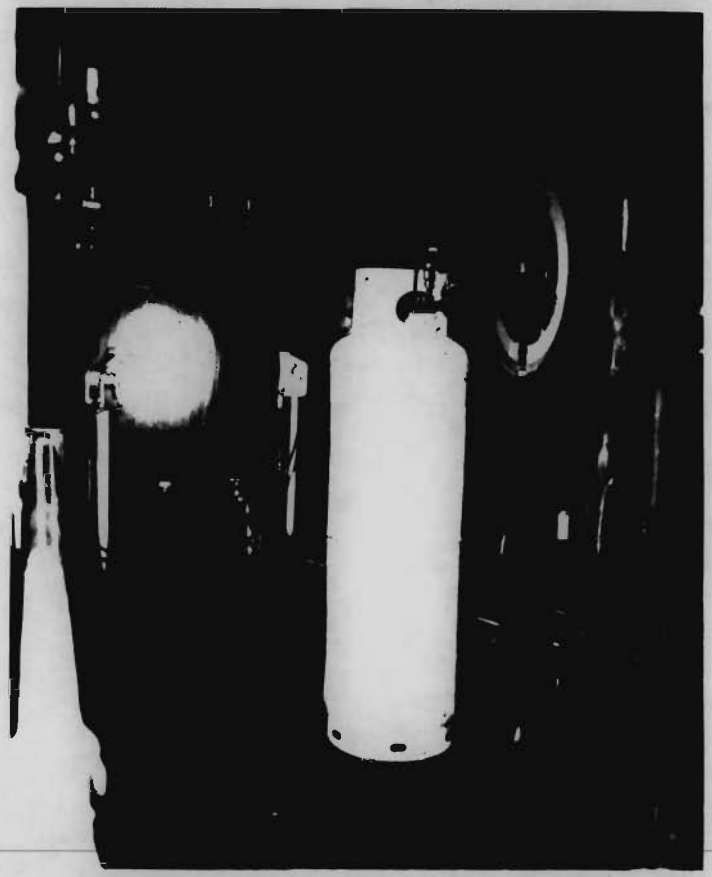
Photograph 19:
Aerial photograph, Malta Rocket Fuel Area Site - July 7, 1959 (south view)



Photograph 20:
Burn Pit D-1 and Drum Storage Area S-5 containing 55-gallon drums (Figure 11) - July 7, 1959



Photograph 21:
Pentaborane fueling system, Building 25
- July 29, 1960



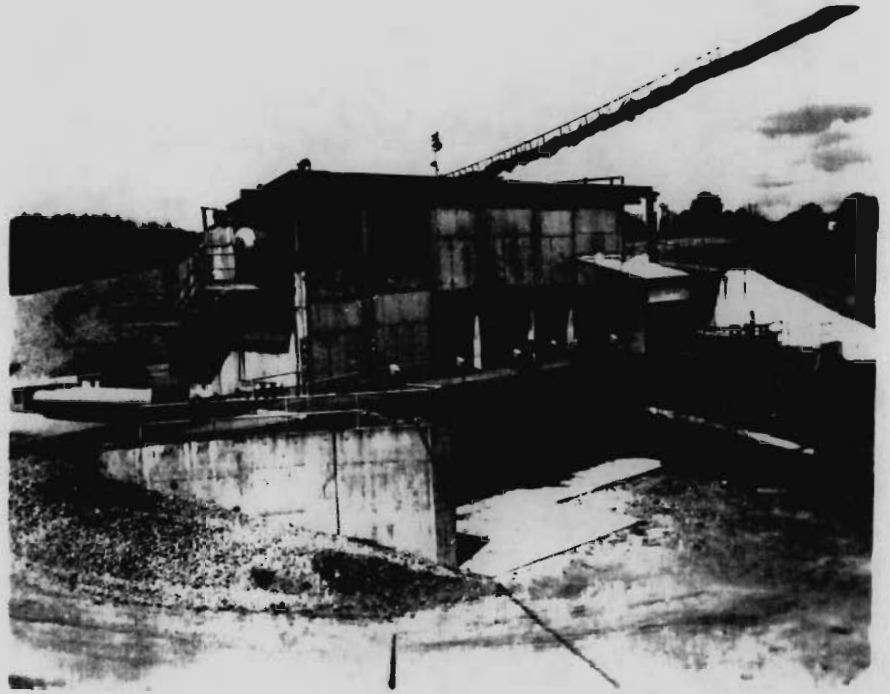
Photograph 22:
Pentaborane fueling system, Building 25
- July 29, 1960



Photograph 23:
Rocket thrust chamber (foreground) and drum storage (background), Storage Area S-3 (Figure 11) - 1963



Photograph 24:
Fuel storage chambers and gas cylinders (top), Building 24 - April 25, 1963



Photograph 25:
Rocket test pit with fuel and gas cylinders, Building 24
- April 25, 1963



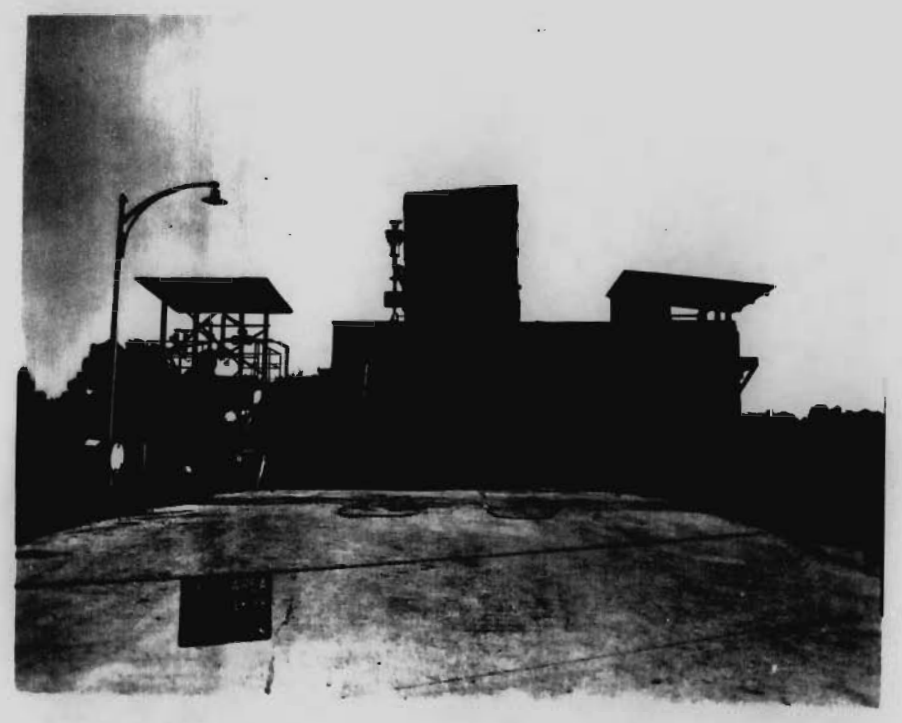
Photograph 26:
Malta Fire Department practice drill, Test Pit 4
- July 15, 1963



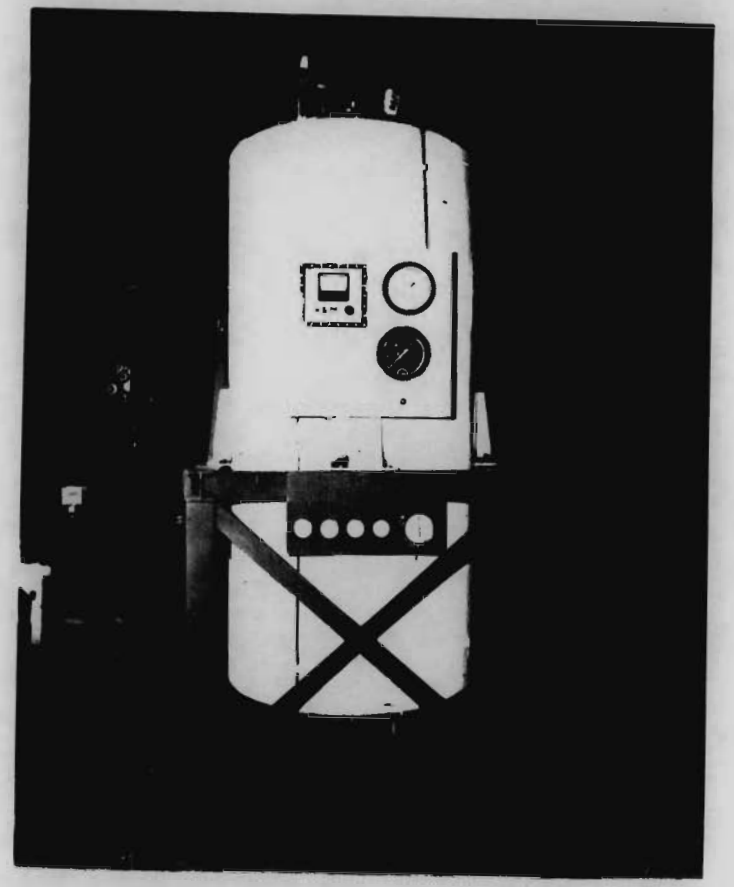
Photograph 27:
Curtiss - Wright experimental propellant work, Building 24 - July 15, 1963



Photograph 28:
Oil compression tests, Building 24 - March 16, 1964



Photograph 29:
Carbon tetrachloride drum and liquid gas storage,
Test Pit 4 - August 27, 1964



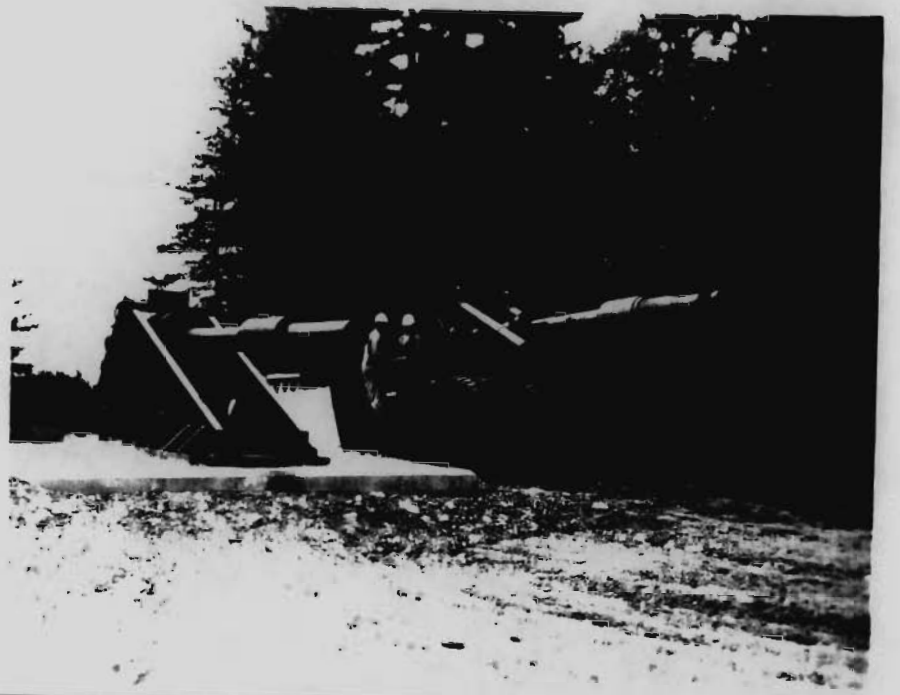
Photograph 30:
Fluorine system, Curtiss-Wright, Building
24 - September 1, 1964



Photograph 31:
Firing range with guns and shells, Building 6 Area (Area E in Figure 11) - 1967



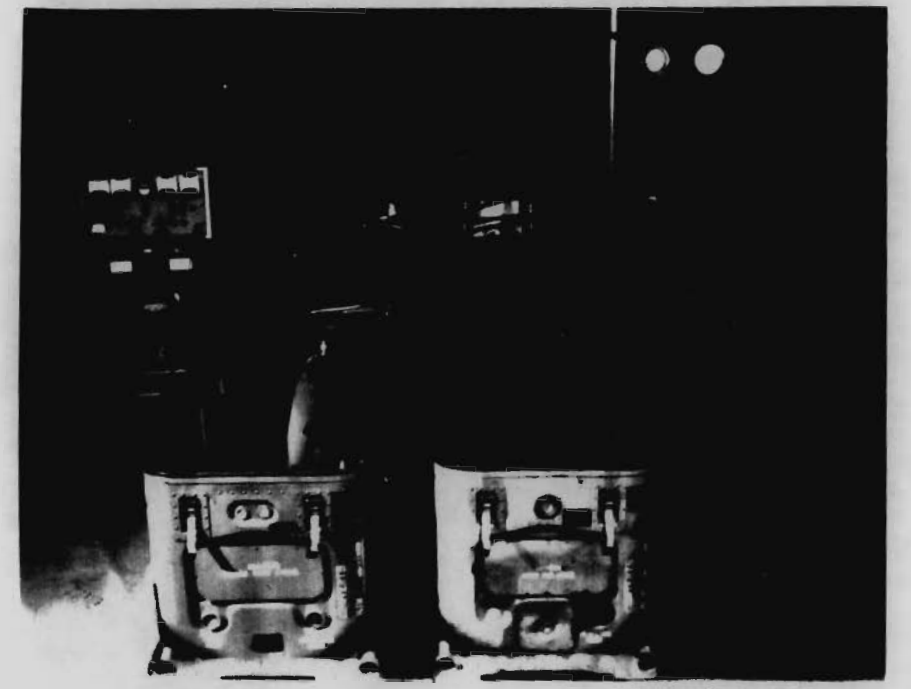
Photograph 32:
Artillery testing for Watervliet Arsenal, Building 6 Area - 1967



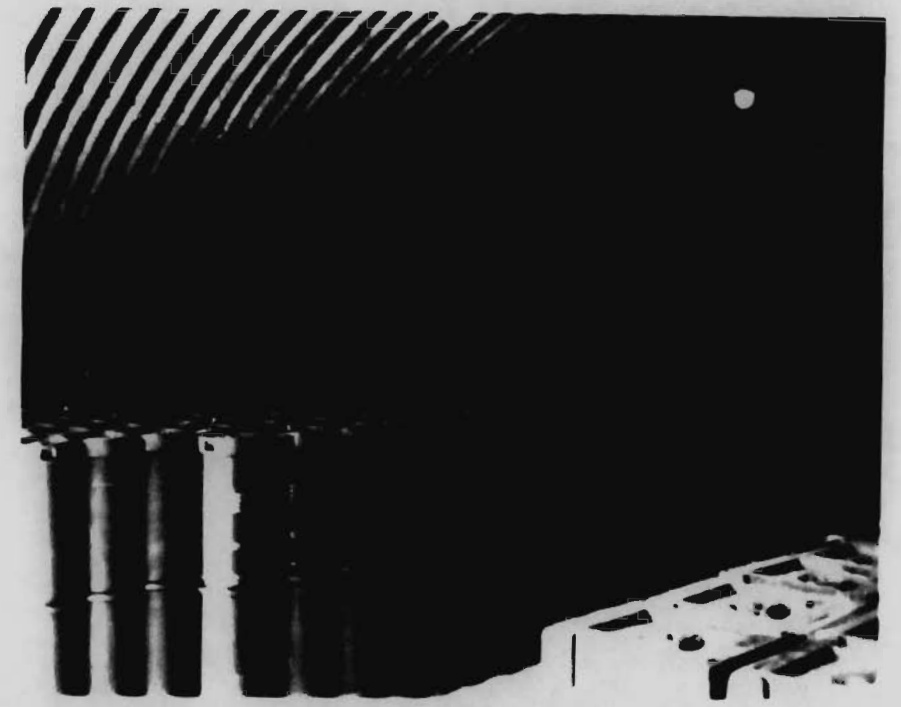
Photograph 33:
Large artillery testing, Building 6 Area (Area E in Figure 11) - 1967



Photograph 34:
Storage cases with Maxon Bird missiles, Building 27 Magazine Area - March 10, 1967



Photograph 35:
Maxon Bird missiles, Building 27 Magazine Area - March 10, 1967



Photograph 36:
Charges and gun powder storage, Building 27 Magazine Area - April 21, 1967



Photograph 37:
Unloading of Maxon Bird missiles, Building 25
- September 18, 1967



Photograph 38:
Gun range, Building 6 Area (Area E in Figure 11)
- December 9, 1968



Photograph 39:
Artillery gun range, Building 6 Area (Area E in Figure 11) - December 9, 1968



Photograph 40:
NYSDEC supervised burning of hydrazine fuels, Storage Area S-4 - July 19 and 20, 1980