

Owego Apalachin Maintenance and  
Storage Building Replacement Project

Appendix E

Phase I Environmental Site Assessment

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# Phase I Environmental Site Assessment

Tax Map No. 493089-117.11-1-2  
Proposed Owego School Maintenance  
Building Property  
Sheldon Guile Boulevard, Owego  
Town of Owego  
Tioga County, New York

Prepared for:  
Dr. Bill Russell, Superintendent  
Owego-Apalachin Central School District  
Owego Free Academy  
1 Sheldon Guile Boulevard  
Owego, NY



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## 1.0 EXECUTIVE SUMMARY

Ecological Analysis has conducted a Phase I Environmental Site Assessment (Phase I ESA) of vacant rural residential land located along the north side of Leach Road, Owego, in the Town of Owego, Tioga County, New York (the Subject Site). The Subject Site is owned by The Board of Education Owego-Apalachin Central School District and is identified as Tioga County Tax Map No. 493089-117.11-1-2. The Subject Site encompasses play/sports fields totaling approximately 49.88 acres. The assessment was conducted in substantial conformance with 40 CFR Part 312 – *Standards and Practices for all Appropriate Inquires* and Standard Practice E-1527-05 of the ASTM, updated November 2005.

Based on the scope of this Phase I ESA as outlined in Section 2.1 of this report, no recognized environmental conditions have been identified at this time.

While every effort within the scope and limitations of 40 CFR Part 312 and ASTM E1527-05 has been made to identify recognized environmental conditions with respect to hazardous substances or petroleum products, there is no guarantee, either stated or implied, that additional environmental conditions do not exist on the Subject Site.

## 2.0 INTRODUCTION

Ecological Analysis has conducted a Phase I ESA of developed property located along the north side of Leach Road, Owego, in the Town of Owego, Tioga County, New York (See Appendix A, Figure 1 Site Location Map, Figure 2 USGS Map). The Subject Site is owned by The Board of Education Owego-Apalachin Central School District and is identified as Tioga County Tax Map No. 493089-117.11-1-2. (See Appendix A, Figure 3, Town of Owego Tax Map). The Subject Site encompasses play/sports fields totaling approximately 49.88 acres.

The Subject Site is located in the Town of Owego and is bordered by State Route 96 to the north and east; Weber Road to the north; Glenmary Drive to the west; and George Street and Browns Lane to the south. The goal of a Phase I ESA is to assess the extent to which recognized environmental conditions, including hazardous substances, petroleum products, wastes, and/or other environmental hazards exist that could result in significant risk and/or liability to the owner or occupants of the Subject Site, or to others. The assessment includes identifying environmental hazards, qualitatively and quantitatively (when required) evaluating risk, and identifying methods of risk reduction where risks are present.

### 2.1 Definition of Work Scope

The scope of this Phase I ESA for the Site was limited to include assessments, evaluations, conclusions and recommendations related to the Subject Site's recognized environmental conditions based on a visual site inspection and available records review in substantial conformance with 40 CFR Part 312 – *Standards and Practices for all Appropriate Inquires* and Standard Practice E-1527-05 of the ASTM, updated November 2005. ASTM standards, when followed, constitute "all appropriate inquiry into the previous ownership and uses of the property consistent with good commercial or customary practice," as defined by Federal regulations (42 USC 9601 (35)(B))

CERCLA).

The term, recognized environmental condition, is defined as the presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release, or a material threat of a release of any hazardous substances or petroleum products into structures on the property or into the ground, groundwater, or surface water of the property. The term includes hazardous substances or petroleum products even under conditions in compliance with existing laws. The term is not intended to include *de minimis* conditions that generally do not present a material risk of harm to public health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies.

The assessment was based on the following work program:

- Site Inspection: A walk-through site inspection was conducted on July 29, 2013 to evaluate the current environmental condition of the Subject Site with respect to items such as underground storage tanks (USTs), hazardous or regulated materials, or other visual indications of environmental conditions that could affect the Subject Site. Available site characterization maps and other sources of site characteristics were also reviewed, including National Wetlands Inventory Maps, FEMA Flood Insurance Rate maps, soil/geology resources, and recent aerial photographs.
- Owner/Occupant Interview: Repeated efforts to conduct a telephone interview with either Tony Clark or Ron Bieber, employees of the Owego-Apalachin Central School District Maintenance Department; Dr. Bill Russell Superintendent of the Owego-Apalachin Central School District; and Fire Chief Scott Gurney of the Owego Fire Department were unrewarded. These persons were to be interviewed in order to obtain information pertaining to known or recognized environmental conditions associated with the Subject Site. However, the Town of Owego Building Department's office was contacted and Ron Schmidt the Code Enforcement Officer was interviewed to obtain information pertaining to known or recognized environmental conditions associated with the Subject Site. Based on the amount of environmental concerns associated with the Subject Site's location, concerning the Town of Owego and the historical use of the property, further owner/occupant interviews were not deemed necessary.
- Review of Site History: This review was conducted to identify past land uses or features that might be indicative of environmental concern. Sources of information reviewed included historical aerial photographs and topographic maps, internet search results, as well as information provided by the Town of Owego as part of the interviews described above.
- Review of Adjoining Land Uses: Adjoining land uses were preliminarily reviewed to assess the potential for environmental impacts on the Subject Site. This review was based on visual observations of adjacent properties during the site inspection, an aerial photograph review and a review of a computerized regulatory database report described below. Historical topographic maps were also reviewed for the vicinity of the Subject Site.
- Computerized Regulatory Database Search and Agency File Reviews: A

computerized environmental regulatory program database report for facilities located within the ASTM specified radius of the Site was obtained from Environmental Data Resources, Inc. (EDR) of Southport, Connecticut. The databases provide information on sites located within an ASTM-standard specified distance pertaining to the Federal Comprehensive Environmental Response, Compensation, and Liability Act/National Priority List (CERCLA/NPL) and Resource Conservation and Recovery Act (RCRA) programs, Emergency Response Notification System (ERNS), and State Underground Storage Tank/Aboveground Storage Tank (UST/AST), hazardous waste and solid waste facility program records. In addition, the Orange County Municipal offices online databases were contacted for relevant information pertaining to the Subject Site and nearby properties.

## 2.2. Limitations

A site walk through could not be conducted with the property owner; however the property grounds were accessible and were inspected. This limitation is not sufficient to adversely impact the quality of the site inspection. No other limitations were encountered during performance of this Phase I ESA.

## 2.3 Exceptions and Deletions

No exceptions or deletions to ASTM E-1527-05 were performed in connection with the preparation of this Phase I ESA.

# 3.0 SITE DESCRIPTION

The Subject Site consists of one tax parcel (Tioga County Tax Map No. 493089-117.11-1-2) totaling 49.88 acres with the tax parcel situated in the Town of Owego, Tioga County, New York. A site location map (Figure 1) is provided in Appendix A. The Subject Site is situated along the north side of Leach Road. The Subject Site was visited on July 29, 2013. The Subject Site was formerly utilized for the growing of field crops and is owned by The Board of Education Owego-Apalachin Central School District, who utilizes it as play/sports fields.

## 3.1 Geology and Hydrogeology

According to the 1969 USGS 7.5-Minute Quadrangle map for the Owego, New York vicinity, the Subject Site lies at approximately 820-feet above mean sea level and slopes approximately 2 percent east to west. Based on local topography, the apparent groundwater flow direction is from east to west toward Owego Creek, which is west adjacent of the Subject Site. According to the USDA Web Soil Survey (Figure 4 – Soils Map), the Subject Site's overburden is composed of Alluvial (A), Chenango gravelly loam (Cga), Howard gravelly loam (Hgn), Tioga silt loam (Tsb), and Unadilla silt loam (Unn). As detailed in the USDA Web Soil Survey the soil unit A consists of alluvium with a wide range of texture. Soil within this unit slopes 0 to 3 percent; is poorly to moderately well drained; has a hydrologic soil group rating of A/D; and is found in marshes and swamps. The soil unit Cga consists of gravelly loamy glaciofluvial deposits over sandy and gravelly glaciofluvial deposits, derived mainly from sandstone, shale, and siltstone. Soil within this unit slopes 3 to 12 percent; is well drained; has a hydrologic soil group rating of A; and is prime farmland. The soil unit Hgn consists of gravelly loamy glaciofluvial deposits over sandy and gravelly glaciofluvial deposits, containing significant amounts of limestone. Soil within this unit slopes 0 to 2 percent; is well drained; has a hydrologic soil group rating of A; and is prime farmland. The soil unit Tsb consists of loamy alluvium. Soil

within this unit slopes 0 to 3 percent; is well drained; has a hydrologic soil group rating of A; and is prime farmland. The soil unit Unn consists of glaciolacustrine deposits, eolian deposits, or old alluvium, comprised mainly of silt and very fine sand. Soil within this unit slopes 0 to 3 percent; is well drained; has a hydrologic soil group rating of B; and is prime farmland.

### 3.2 Wetlands/Flood Hazard Areas Review

Wetland and Flood determinations exceed the scope of Phase I investigations. However, a review of readily available documentation was conducted. Ecological Analysis reviewed the Tioga County GIS website and the National Wetlands Inventory Map data for the Subject Site. According to these sources, mapped national wetlands are not present onsite. Figure 5 - NWI wetlands aerial is included in Appendix A. FEMA Flood Insurance Rate Maps covering the area of the Subject Site were reviewed, and based on this source the western portion of Subject Site is located in an AE flood zone and the eastern portion of Subject Site is not located in a mapped flood zone. The Flood Insurance Rate Map for the Town of Owego was also reviewed and the information was verified. Figure 6 –FEMA Flood Zones Map is included in Appendix A.

### 3.3 Site Inspection

<b>Date of Inspection:</b>	July 29, 2013
<b>Arrival Time:</b>	9:34 am
<b>Ecological Analysis Personnel:</b>	Mr. Stephen V. Cackowski
<b>Site Representatives:</b>	None

The Subject Site was traversed by Mr. Stephen V. Cackowski, Environmental Scientist of Ecological Analysis on July 29, 2013. Verbal permission to traverse the Subject Site was granted by the property owner representative Dr. Bill Russell. A site walk through was not be conducted with the property owner; however all subject grounds were inspected. No other limitations were encountered during the site inspection.

The Subject Site encompasses a play/sports fields totaling approximately 49.88 acres. Each of the adjacent or abutting properties was inspected along their perimeters to evaluate the likelihood of potential environmental concerns originating off site that may impact the Subject Site. During the site visit, the weather was dry, mostly sunny with temperatures ranging from 66-69<sup>0F</sup> and a light breeze. A site inspection checklist is included as Appendix B. Photographs of the Site are presented as Appendix C.

The following is a list of specific areas of potential environmental concern that were investigated by Ecological Analysis personnel during the site inspection.

#### 3.3.1 Buildings, Other Structures, Foundations, and Old Ruins

The Subject Site consists of approximately 68.9 acres of vacant rural residential land. Evidence of onsite buildings, foundations, or old ruins was not identified during the site inspection; however eight sport “dugouts” and four baseball fields were observed onsite. A crushed stone driveway provides access from Sheldon Guile Blvd. Figure 1: Site Location shows the property boundary as well as a 2011 aerial photograph depicting accurate site conditions.

#### 3.3.2 Wooded and Vegetative Areas

The land surrounding the Subject Site's baseball fields is covered by lawn. Wild grasses and brush cover the north portions of the Subject Site. No areas of wet soils were observed onsite.

3.3.3 Water Bodies, Springs, Lagoons, Swamps, Rivers, Lakes, etc.

There are no streams or other water bodies located on the Subject Site. The presence of Owego Creek was identified north adjacent to the Subject Site during the inspection and this portion of the creek bed was dry at inspection time. The presence of Owego Creek was identified west adjacent to the Subject Site during the inspection and this portion of the creek contained flowing water at inspection time. The presence of Huntington Creek was identified south adjacent to the Subject Site during the inspection and its creek bed was dry at inspection time.

3.3.4 Utilities, Floor Drains, Vent Pipes, Wells, Cisterns, and Septic Systems

The Subject Site is play/sports fields. Onsite potable water is available to the site. Electric and septic services are not available to the site. Evidence of floor drains, vent pipes, and cisterns were not identified onsite.

3.3.5 Aboveground/Underground Storage Tanks (AST/USTs)

No evidence of aboveground/underground petroleum storage tanks was identified onsite.

3.3.6 Pipelines

Evidence of pipelines was not identified onsite.

3.3.7 Transformers and PCB Equipment

Evidence of electrical transformers was not identified onsite during the inspection.

3.3.8 On-Site Hazardous Substances and Petroleum Products

Hazardous substances and petroleum products were not identified onsite during the inspection.

3.3.9 Unidentified Substance Containers

Unidentified substance containers were not observed during the site inspection.

3.3.10 Heavy Equipment, and or Hydraulic Equipment

No heavy equipment and/or hydraulic equipment were observed during the site inspection.

3.3.11 Smells of Chemical Gases, Petroleum Products or Foul Odors

There was no evidence of chemical gases, likewise, no petroleum product release or foul odors were identified during the site inspection.

3.3.12 Evidence of Landfill, Dumping, Disturbed Soil or Direct Burial Activity

No evidence of landfill, disturbed soil or direct burial activity was identified during the site inspection.

3.3.13 Evidence of Surface Impoundments or Holding Ponds

No evidence of such was encountered during the site inspection.

3.3.14 Evidence of Solid Waste and or Waste Water Discharges

No evidence of solid waste and or waste water discharges was identified onsite

3.3.15 Evidence of any Industrial or Production/Storage Activities

No evidence of industrial production or storage activities was identified onsite.

3.3.16 Evidence of any Monitoring Wells or Remedial Activities

No evidence of monitoring wells or remedial activities was encountered at the Subject Site.

3.3.17 Evidence of Stained or Discolored Surfaces

No evidence of stained or discolored surfaces was identified onsite.

3.3.18 Evidence of Leachate or Seeps

No evidence of such was encountered during the site inspection.

3.3.19 Evidence of any Areas of Distressed, Discolored or Stained Vegetation

No areas of distressed, discolored, or stained vegetation were observed during the site inspection.

3.3.20 Evidence of any Chemical Spills and/or Releases

No evidence of such was encountered during the site inspection.

3.3.21 Evidence of Discharges, Leachate Migration or Run-Off of Potential Contaminants from an Off-Site Source onto the Subject Site

No evidence of discharges, leachate migration, or run-off of potential contaminants from an offsite source was identified during the site inspection.

3.3.22 Other Known or Observed Environmentally Sensitive or Suspect Conditions On Site

No other known or observed environmentally sensitive or suspect conditions were observed on-site during the site inspection.

3.4 Chemical, Gas and Mineral Issues

3.4.1 Radon Considerations

No radon sampling or testing was completed as part of this Phase I ESA.

3.4.2 Asbestos Visual Inspection

Asbestos inspection or investigation is beyond the scope of this Phase I ESA and was not conducted by Ecological Analysis. However, based upon the age of the sport "dugouts" (estimated as 2003), and the site walk through, there does not appear to be any suspected asbestos containing materials.

3.4.3 Lead Based Paint Visual Inspection

Lead based paint inspection or investigation is beyond the scope of this Phase I ESA and was not conducted by Ecological Analysis. However, based upon the age of the sport "dugouts" and the site walk through, there does not appear to be any painted surfaces containing lead-based paint.

3.4.4 Pesticide/Herbicide Use or Storage Visual Inspection

A visual inspection for potential pesticide/herbicide use or storage was completed for the Site. Materials containing pesticides and/or herbicides were not identified during the site inspection.

#### 3.4.5 Air Emissions

In accordance with 6 NYCRR Part 201, air emission sources must be permitted through the NYSDEC. An air emission source is defined as an apparatus capable of causing the emissions of air contaminants to the outdoor atmosphere. Ventilation systems used for heating buildings for the comfort of people working or living and bathroom exhaust vents (less than 10 million BTU/hr heat input capacity) are exempt from permit requirements. Based on this information, there does not appear to be any environmental concerns relative to air emissions from the Site.

#### 3.4.6 Mercury Use Inspection

Mercury use inspection or investigation is beyond the scope of this Phase I ESA and was not conducted by Ecological Analysis. However, based upon the site walk through mercury use was not noted in any of the site structures.

### 4.0 **SITE HISTORY**

To evaluate the Site's history, persons with knowledge of property were interviewed; historical aerial photographs and topographic maps were examined for the Subject Site. The findings of these reviews and interviews are summarized in the following sections.

#### 4.1 Aerial Photograph Review

Ecological Analysis reviewed aerial photographs covering the Site from 1944 to 2011. The results of the review are summarized in the table below. Aerial photographs are included in Appendix D of this report.

TABLE 4-1: AERIAL PHOTOGRAPH REVIEW

Date	Description
1944	This aerial presents Subject Site as improved with farm fields; nearest north adjacent property as improved with what appears to be two structures (residence and garage); other north adjacent properties as a mix of farm fields and wooded undeveloped; east adjacent property wooded undeveloped; south adjacent properties as farm fields; with several west adjacent properties improved with what appears to be one structure (residence) and the remaining west adjacent properties as farm fields and wooded undeveloped.
1948	This aerial depict Subject Site, and adjacent properties as generally unchanged.
1968	This aerial depict Subject Site, and adjacent properties as generally unchanged.
1974	This aerial depict Subject Site, north, east, and west adjacent properties as generally unchanged; one south adjacent property formerly farm fields as now wooded undeveloped; the other south adjacent property as improved with one large structure (high school), a race track, a baseball field, tennis courts, and a parking lot situated

	south of the high school.
1988	The clarity of this aerial prohibited Subject Site and adjacent property definition.
1995	The Subject Site and adjacent properties appear similar to the 1974 aerial with the south adjacent school property further improved with two additional baseball fields.
1999	The Subject Site and adjacent properties appear similar to the 1995 aerial with nearest north adjacent property no longer improved with the residence and garage.
2006	This aerial depict Subject Site improved with four baseball fields and associated sport “dugouts” thus presenting Subject Site as now currently configured; north, east, and one south adjacent properties as generally unchanged; the south adjacent school property as further improved with a large addition (middle school) to the north side of the high school and a parking lot to the north of the middle school which replaced two baseball fields thus presenting the school property as now currently configured; with the west adjacent properties improved with residencies along Glenmary Dr. that are now currently configured.
2008	The Subject Site and adjacent properties appear similar to the 2006 aerial.
2009	The Subject Site and adjacent properties appear similar to the 2008 aerial.
2011	The Subject Site and adjacent properties appear similar to the 2009 aerial.

#### 4.2 Interviews

Repeated efforts to conduct a telephone interview with either Tony Clark or Ron Bieber, employees of the Owego-Apalachin Central School District Maintenance Department; Dr. Bill Russell Superintendent of the Owego-Apalachin Central School District; and Fire Chief Scott Gurney of the Owego Fire Department were unrewarded. The Town of Owego Building Department’s office was contacted and Ron Schmidt the Code Enforcement Officer was interviewed regarding his department’s knowledge of the Subject Site. Mr. Schmidt indicated that his Department has no knowledge of the generation, storage, or disposal of hazardous materials; past/present dumps; past/present chemical/petroleum spills; and ASTs or USTs at the Subject Site

#### 4.3 Chain of Title Review

As part of the investigation a chain of title review was conducted at the Town of Owego Assessor’s office and at the Tioga County Records Depository. Copies of current and historical deeds were reviewed at the Tioga County Records Depository and this review indicated that no environmental liens, or activity use limitations or land use limitations were found. A review of the subject property deeds revealed owners of the Subject Site were The Board of Education of the Owego-Apalachin Central School District in 2002, Iron Kettle Realty Associates in 1992, Brian E. Jackson in 1987, Karl Klossner in 1947, Harry Miller prior to 1947, Edward Miller in 1914, John Gibson in 1909, Fred LeMonte in 1901, Henry Carrigan in 1892, and Sarah Curtis prior to 1892. [*This listing of ownership does not constitute a title search.*]

#### 4.4 Historical Topographic Maps

Ecological Analysis reviewed historical topographic maps covering the Site from 1903 to 1969 made available from EDR. Copies of EDR's Historical Topographic Map Report are included in Appendix D of this report. A summary of the map review information is presented below.

- 1903 This topographic map presents Subject Site and south adjacent properties as undeveloped land; north and east adjacent properties improved with the Ithaca Branch of the Lehigh Valley railroad; and west adjacent properties improved with five small structures.
- 1956 This topographic map presents Subject Site and south adjacent properties as undeveloped land; nearest north adjacent improved with two small structures distant north adjacent and east adjacent properties as no longer improved with the Ithaca Branch of the Lehigh Valley railroad; and west adjacent properties improved with ten small structures.
- 1969 This topographic map presents Subject Site, distant north, east, and south adjacent properties as undeveloped land, nearest north adjacent property as improved with two small structures and west adjacent properties improved with twelve small structures.

4.5 Previous Environmental Reports Ecological Analysis inquired about any previous investigations conducted at the Subject Site. School Superintendent Dr. Russell indicated that there were no previous environmental reports pertaining to the Subject Site.

## 5.0 ADJOINING LAND USE

Adjoining land uses were reviewed to preliminarily assess the potential for environmental impacts to the Site. The assessment of adjacent properties was based on visual observations as well as land use as depicted by the aerial photographs and topographic maps. Adjacent land use is summarized on the table below.

TABLE 5-1: ADJOINING LAND USE SUMMARY

Direction	Description
North	Directly north; field crops, one family residence, other storage and vacant rural residential land greater than 10 acres Further north; one family residences, office building, and vacant residential with improvement
East	Directly east; vacant electric power transmission & distribution Further east; railroad
South	Directly south; vacant electric power transmission & distribution and school Further south; school
West	Directly west; one family residences, three family residence, manufactured housing, and vacant rural residential land greater than 10 acres Further west; one family residences, manufactured housing, and vacant rural residential land greater than 10 acres

Surrounding properties are not anticipated to present significant environmental concerns for the Site.

## **6.0 REVIEW OF REGULATORY AGENCY RECORDS**

### **6.1 Local Officials Records Review**

The Town of Owego Building Department was contacted in regards to any potential environmental concerns at the Subject Site and surrounding properties. The interview with the Code Enforcement Officer is detailed above.

### **6.2 NYSDEC/USEPA File Review**

Based on the amount of environmental concerns identified at the Subject Site and information provided by EDR in their environmental database search report, an official NYSDEC and/or USEPA FOIA request file review was not conducted as part of this work scope.

## **7.0 ENVIRONMENTAL DATABASE REVIEW**

To further evaluate the regulatory status of the Site and surrounding vicinity, a computerized search of Federal and State regulatory databases was conducted. The EDR Report is a screening tool that identifies sites located within a set of ASTM-recommended search radii, which may present a potential environmental concern. The database records search is divided into Federal and State regulatory program searches as described below:

- Federal Programs: Comprehensive Environmental Response, Compensation and Liability Act Information System (CERCLIS); National Priority List (NPL or 'Superfund') List; Resource Conservation and Recovery Act Information System (RCRIS); small/large quantity generators or treatment/storage/disposal (TSD) facilities; and ERNS sites.
- State Programs: UST/AST Program, Leaking Underground Storage Tanks (LUST), State Hazardous Waste Sites (HWS), and Solid Waste Landfill Facilities (SWLF).

Two sites with past leaking USTs, two sites with registered USTs, two sites with registered ASTs, and one RCRA no longer regulated non-generator were identified within the ASTM search radius. A detailed description of this database and facility listing is provided within the full EDR report, which is attached as Appendix E. Ecological Analysis does not warrant the accuracy or completeness of the computerized regulatory database report. The report contents are subject to the disclaimer provided within the EDR report. Subject Site, adjacent properties, and next adjacent properties were not listed in any of the searched databases. There are no occurrences within the ASTM search radius that are of environmental concern to the Subject Site.

### **Unplottable Sites**

38 unplottable listings were identified within the EDR report. Of these orphan summary properties none were identified as adjacent properties and none were identified to be in the immediate vicinity of the Subject Site.

## **8.0 SUMMARY AND CONCLUSIONS**

Ecological Analysis has conducted a Phase I Environmental Site Assessment (Phase I ESA) of vacant rural residential land property located along the north side of Leach Road, Owego, in the Town of Owego, Tioga County, New York (the Subject Site). The Subject Site is owned by The Board of Education Owego-Apalachin Central School District and is identified as Tioga County Tax Map No. 493089-117.11-1-2. The Subject Site encompasses play/sports fields totaling approximately 49.88 acres.

The assessment was conducted in substantial conformance with 40 CFR Part 312 – *Standards and Practices for all Appropriate Inquiries* and Standard Practice E-1527-05 of the ASTM, updated November 2005. Based on the scope of this Phase I ESA as outlined in Section 2.1 of this report, no recognized environmental conditions have been identified at this time.

While every effort within the scope and limitations of 40 CFR Part 312 and ASTM E1527-05 has been made to identify recognized environmental conditions with respect to hazardous substances or petroleum products, there is no guarantee, either stated or implied, that additional environmental conditions do not exist on the Subject Site.

## **9.0 CERTIFICATION**

The reported analyses, opinions, and conclusions are personal, unbiased, professional, and limited only by the assumptions and qualifications stated herein. Compensation is not contingent upon an action or an event resulting from the analyses, opinions or conclusions in, or the use of this report.

I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in §312.10 of 40 CFR 312. I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the Subject Site. I have developed and performed all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

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James A. Bates CPESC, CPSWQ  
Managing Member

## **10.0 QUALIFICATIONS**

Ecological Analysis is a full service ecological, environmental and planning firm offering services from initial planning, ecological, environmental and feasibility studies through detailed design, procurement and construction phase services.

James A. Bates, President performed this Phase I ESA. The scope of this investigation was limited to visual observation of surface conditions at the Site, interviews with the property owner's representative and potential buyer, listed public agency personnel, and a review of readily available reports and literature.

The investigation addresses the likelihood of hazardous substance or petroleum product contamination resulting from past and current known uses of the Subject Site. As a result, certain other conditions remain unknown. These conditions include, but are not limited to, the following:

1. Naturally occurring toxins in the subsurface soils, rocks, water, or on-site flora;
  2. Toxicity of substances common in current habitable environments, such as stored household products, building materials, and consumables;
  3. Presence of lead or copper in drinking water or in paint, which could exceed regulatory standards;
  4. Contaminant plumes or contaminated soils below the ground surface;
  5. Contaminants or contaminant concentrations that do not violate present regulatory standards but may violate future such standards;
  6. Radon gas;
  7. Wetlands;
  8. Sinkholes or subsurface conditions affecting structural stability;
  9. Operations conducted on days other than those during our observation;
  10. Unknown Site contamination, such as "midnight" dumping and/or accidental spillage which may have occurred before or following the site visit.
- Additional investigation, including sampling and laboratory analysis, is needed to confirm the presence or absence of the above items.

The computer database contained in this report has been provided by Environmental Data Resources and was obtained from publicly available sources and other secondary sources of information produced by others. Ecological Analysis disclaims any and all liability for any errors, omission, or inaccuracies in such information and data, whether attributable to inadvertence or otherwise, and for any consequences arising therein. The report is valid only for the geographical parameters specified on the cover page of that report, and any alteration or deviation from that description will require a new report.

Information provided to Ecological Analysis, LLC by interviewees forms the basis for certain opinions and findings for this report. Ecological Analysis cannot warrant the accuracy or completeness of information provided by these sources, but has used professional judgment, available site information, and visual observations in incorporating information provided by the interviewee into this report.

Services for this project are performed in accordance with the Agreement between the Client and Ecological Analysis. No warranty or guarantee of site conditions is intended. This report is solely for the use of the Client and any reliance on this report by third parties shall be at such party's sole risk.

This report is intended to be used in its entirety, including all attachments and/or addenda to the report. Reliance on portions of the report, without considering it in its entirety, could potentially lead to misinterpretation by the reader.

## **11.0 REFERENCES**

### Interviews:

Town of Owego Building Code Enforcement Officer, Ron Schmidt, July 29, 2013

### Database Search:

*Environmental Data Resources Inc., EDR Radius Map Report, Proposed Owego School Maintenance Building, Sheldon Guile Blvd., Owego, Town of Owego, Tioga County, New York, compiled July 30, 2013*

### Resources:

*Environmental Data Resources Inc., EDR Building Permit Report*, Proposed Owego School Maintenance Building, Sheldon Guile Blvd., Owego, Town of Owego, Tioga County, New York, compiled July 30, 2013

*Environmental Data Resources Inc., EDR City Directory Image*, Proposed Owego School Maintenance Building, Sheldon Guile Blvd., Owego, Town of Owego, Tioga County, New York, compiled July 30, 2013

*Environmental Data Resources Inc., EDR Historical Aerial Photograph Report*, Proposed Owego School Maintenance Building, Sheldon Guile Blvd., Owego, Town of Owego, Tioga County, New York, compiled July 31, 2013

*Environmental Data Resources Inc., EDR Historical Topographic Map Report*, Proposed Owego School Maintenance Building, Sheldon Guile Blvd., Owego, Town of Owego, Tioga County, New York, compiled July 30, 2013

*Environmental Data Resources Inc., EDR NEPA Check*, Proposed Owego School Maintenance Building, Sheldon Guile Blvd., Owego, Town of Owego, Tioga County, New York, compiled July 30, 2013

*Environmental Data Resources Inc., EDR Sanborn Report*, Proposed Owego School Maintenance Building, Sheldon Guile Blvd., Owego, Town of Owego, Tioga County, New York, compiled July 30, 2013

*Environmental Data Resources Inc., EDR Tax Map Report*, Proposed Owego School Maintenance Building, Sheldon Guile Blvd., Owego, Town of Owego, Tioga County, New York, compiled July 30, 2013

Tioga County Online GIS Mapping Information Tool

Tioga County Real Property Online Parcel Viewing Information Tool

USDA Online Soil Survey

USFWS Online National Wetlands Inventory

FEMA Online National Flood Insurance Program, Flood Insurance Rate Map

Photo Log

# Appendix A

## Figures

# Appendix B

## Site Inspection Checklist

SITE INSPECTION REPORT

**Project No.** 94.03712      **Date** 7/29/13      **Time** 0934 - 1054      **EA Personnel** Stephen Cackowski

**Site Name** Proposed Owego School Maintenance Building  
**Street Address** Sheldon Guile Blvd.  
**T/V/C, County, State** Town of Owego, Tioga County, New York  
**Adjacent Streets.** North: State Route 96, Weber Road  
South: George Street, Browns Lane  
East: State Route 96  
West: Glen Mary Drive  
**Mailing Address** Dr. Bill Russell, Superintendent  
Owego-Apalachin Central School District  
Owego Free Academy  
1 Sheldon Guile Boulevard  
Owego, NY  
**Tax Map No.** 493089-117.11-1-2

**Persons Present @ Visit** None  
**Weather Conditions** Dry, Mostly Sunny, 66-69<sup>OF</sup>, Light Breeze

**Owner:**

Board of Education, Owego-Apalachin Central School District  
**Abstract of Title Obtained or Reviewed** No

**Locality:**

<u>-</u>	Urban	<u>Yes</u>	Suburban
<u>Yes</u>	Rural	<u>-</u>	Residential
<u>-</u>	Vacant	<u>-</u>	Wooded
<u>-</u>	Agricultural	<u>-</u>	Fallow
<u>-</u>	Commercial	<u>-</u>	Industrial
<u>-</u>	Highly Developed	<u>-</u>	Moderately Developed
<u>-</u>	Lightly Developed	<u>-</u>	Undeveloped
	Site Survey Copy Obtained	<u>No</u>	

**Description of Current Site Operations:**

Sports fields

**Current Tenants:**

Owego-Apalachin Central School District 1

**Description of Past Operations:**

Field Crops

**Historic Tenants:**

Edward, Brian and Jeanne Jackson; Arthur and Donna Holland

**Description of Historic Operations:**

*Sports fields 2006 – Present: Field Crops 1944 - 2002*

**Topography**

-	Level @ Grade	2%	5% Slope
-	10% Slope	-	15% Slope
Slope Direction		East to West	
Other Explain		-	
Assumed Ground Water Flow Direction		East to West	

**Grounds:**

<u>49.88</u>	Acreage	<u>1,820 ft.</u>	Frontage (est.)	<u>2,070 ft.</u>	Depth (est.)
<u>Yes</u>	Trees	<u>Yes</u>	Landscaped		
<u>Yes</u>	Green Area	<u>No</u>	Dead Vegetation		
<u>No</u>	Paved Area	<u>No</u>	Storm Drains		
<u>No</u>	Debris	Type		-	
		Location		-	
<u>No</u>	Dumping	Type		-	
		Location		-	
<u>No</u>	Fill Material	Type		-	
		Location		-	
<u>Yes</u>	Water Source	Municipal		Yes	
		Well		-	

**Water Bodies:**

<u>No</u>	On-Site	Type:	-
		Flow	-
		Direction	
		Drainage	-
		Ways	
<u>Yes</u>	Adjacent North	Type:	<i>Owego Creek</i>
		Flow	<i>East to West</i>
		Direction	
		Drainage	<i>Susquehanna River</i>
		Ways	
<u>Yes</u>	Adjacent West	Type:	<i>Owego Creek</i>
		Flow	<i>North to South</i>
		Direction	
		Drainage	<i>Susquehanna River</i>
		Ways	
<u>Yes</u>	Adjacent South	Type:	<i>Huntington Creek</i>
		Flow	<i>East to West</i>
		Direction	

<u>No</u>	Nearby	Drainage Ways	Owego Creek
		Type:	-
		Flow Direction	-
		Drainage Ways	-

**Structures:**

Number	Type	Yr. Built	Total SQ Footage
-	Residence	-	-
-	Attached Garage	-	-
-	Detached Garage	-	-
-	Office	-	-
-	Commercial	-	-
-	Industrial	-	-
-	Other	-	-

**Bldg. 1:**

<u>N/A</u>			
-	# Stories		
-	Condition (Excellent; Good; Fair; Poor)		
-	Foundation (Brick; Cement Block; Concrete Slab; Poured Cement; Stone; Wood; Other)		
-	Basement (Crawlspace; Full; Partial)		
-	Interior Frame (Brick; Cement Block; Poured Cement; Wood; Other)		
-	Exterior Frame (Brick; Cement Block; Poured Cement; Wood; Other)		
-	Siding	Type	-
-	Roof (Flashings; Flat; Mansard; Parapet; Peaked, Other)		
-	Roof Condition (Excellent; Good; Fair; Poor)		
-	Heating System	Type	
-	Sanitary System (Municipal; On-Site Septic)		
-	Floor Drains	Location	-
		Discharge to:	-
-	Sump Pump	Location	-
		Discharge to:	-

**Utilities:**

<u>No</u>	Natural Gas	<u>No</u>	Bottled Propane
<u>No</u>	Electric	<u>No</u>	Telephone
<u>No</u>	Municipal Sewer	<u>No</u>	Onsite Septic
<u>Yes</u>	Municipal Water	<u>No</u>	Onsite Potable Water Well
<u>No</u>	Injection Wells	<u>No</u>	Dry Wells
-	Well(s) Location		-
-	Well(s) Depth		-
-	Well(s) Use		-
-	Well(s) Sample Results		-







Former Machine

Type(s):

How long has dry cleaning been conducted on-site?

**Film Developing / X-rays:** N/A

Silver Recovery System in Place? (No; Yes)

Lead Lined Walls for X-Rays Rooms? (No; Yes)

<b>Adjacent Properties:</b>	List names and types of operations adjacent and next adjacent to subject property			
	S-B-L	Owner	Address	Property Class
<b>North Adjacent 1:</b>	117.11-1-1.1	Owego-Apalachin Central School District 1	State Route 96 W/s	120 - Field Crops
<b>North Adjacent 2:</b>	117.11-1-1.2	Owego-Apalachin Central School District 1	1341 State Route 96	210 - 1 Family Residential
<b>North Adjacent 3:</b>	117.07-1-14.30	EE Root & Son Inc	21 State Route 96	449 - Other Storage
<b>North Adjacent 4:</b>	117.07-1-17	Decker Charles & Dorothy A	Weber Rd	322 – Vacant Rural Residential >10 Acres
<b>North Next Adjacent 1:</b>	117.07-1-5	Sharar Joseph A	23 Weber Rd	210 - 1 Family Residential
<b>North Next Adjacent 2:</b>	117.07-1-6.10	Sharar Joseph A	23 Weber Rd	210 - 1 Family Residential
<b>North Next Adjacent 3:</b>	117.07-1-9	Decker Charles Jr & Dorothy	11 Weber Rd	210 - 1 Family Residential
<b>North Next Adjacent 4:</b>	117.07-1-14.11	Williams George R & Edsall Scott	24 State Route 96	464 - Office Building
<b>North Next Adjacent 5:</b>	117.07-1-14.12	Shoultés Russell D	16 State Route 96	312 – Vacant Residential with Improvement
<b>East Adjacent 1:</b>	117.11-1-11	New York State Electric & Gas	State Route 96 W/s	817 – Vacant Electric Power Transmission & Distribution
<b>East Next Adjacent 1:</b>	117.11-1-10	Tioga County IDA	State Route 96 W/s	843 - Railroad

<b>South Adjacent 1:</b>	117.11-1-3	New York State Electric & Gas	State Route 96 W/s	817 – Vacant Electric Power Transmission & Distribution
<b>South Adjacent 2:</b>	117.11-1-5	Owego-Apalachin Central School District 1	Leach Road S/s	612 - School
<b>South Next Adjacent 1:</b>	117.11-1-4	Owego-Apalachin Central School District 1	Leach Road S/o	612 - School
<b>South Next Adjacent 1:</b>	117.15-2-3	Owego-Apalachin Central School District 1	George Street N/o	612 - School
<b>West Adjacent 1:</b>	117.07-1-19	Decker Charles S & Dorothy A	756 Glenmary Dr	322 – Vacant Rural Residential >10 Acres
<b>West Adjacent 2:</b>	117.07-1-20	Hyatt David W	752 Glenmary Dr	270 – Manufactured Housing
<b>West Adjacent 3:</b>	117.11-2-1	Head Michael J	744 Glenmary Dr	210 - 1 Family Residential
<b>West Adjacent 4:</b>	117.11-2-2	Jones Billy & Deidre	739 Glenmary Dr	210 - 1 Family Residential
<b>West Adjacent 5:</b>	117.11-2-4	Hosmer Dale & Kimberly A	728 Glenmary Dr	210 - 1 Family Residential
<b>West Adjacent 6:</b>	117.11-2-6.10	Jarvis Jane	717 Glenmary Dr	270 – Manufactured Housing
<b>West Adjacent 7:</b>	117.11-2-6.20	Head Arcenia C	727 Glenmary Dr	210 - 1 Family Residential
<b>West Adjacent 8:</b>	117.11-2-7	Owego Corporation	713 Glenmary Dr	210 - 1 Family Residential
<b>West Adjacent 9:</b>	117.11-2-8	Chandler Kevin & Lisa	709 Glenmary Dr	210 - 1 Family Residential
<b>West Adjacent 10:</b>	117.11-2-10	Betts-Sims Sarah	692C Glenmary Dr	210 - 1 Family Residential
<b>West Adjacent 11:</b>	117.11-2-11	Rhodes Terry & Lynn	7 Mill Race	230 - 3 Family Residential
<b>West Adjacent 12:</b>	117.15-1-30	Betts Neal & Jacquelyn	Glenmary Dr.	322 – Vacant Rural Residential >10 Acres

<b>West Next Adjacent 1:</b>	117.11-2-5.10	Jarvis Jane	721 Glenmary Dr	270 – Manufactured Housing
<b>West Next Adjacent 2:</b>	117.11-2-5.20	Head Arcenia C	727 Glenmary Dr	210 - 1 Family Residential
<b>West Next Adjacent 3:</b>	117.11-2-9.20	Chandler Marilyn K	16 Ballou Rd	210 - 1 Family Residential
<b>West Next Adjacent 4:</b>	117.00-1-8.20	Reynolds Dennis & Joan	114 Beecher HI W	210 - 1 Family Residential
<b>West Next Adjacent 5:</b>	117.00-1-21	Showers Judith & Nicholson Susan	Glenmary Dr	322 – Vacant Rural Residential >10 Acres
<b>West Next Adjacent 6:</b>	117.00-1-25	Campfield Dale J & Therese B	66 Ballou Rd	270 – Manufactured Housing
<b>West Next Adjacent 7:</b>	117.00-1-26	Stables W Thomas & Yolanda	26 Ballou Rd	210 - 1 Family Residential
<b>West Next Adjacent 8:</b>	117.00-1-29.12	Showers Chad M & Judith A	675 Glenmary Dr	210 - 1 Family Residential

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**Site Inspection Notes:**

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*None*

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# Appendix C

## Site photographs



Proposed Owego School Maintenance Building; Sheldon Guile Blvd.  
Southwest Portion



Proposed Owego School Maintenance Building; Sheldon Guile Blvd.  
Southeast Portion



Proposed Owego School Maintenance Building; Sheldon Guile Blvd.  
Northwest Portion



Proposed Owego School Maintenance Building; Sheldon Guile Blvd.  
Northeast Portion

# Appendix D

## Historical Research Documentation

**Proposed Owego School Maintenance Building**

Sheldon Guile Blvd  
Owego, NY 13827

Inquiry Number: 3680234.11  
July 30, 2013

# EDR Building Permit Report

Target Property and Adjoining Properties

## EDR Building Permit Report: Search Documentation

7/30/13

**Site Name:**

Proposed Owego  
Sheldon Guile Blvd  
Owego, NY 13827

**Client Name:**

Ecological Analysis LLC  
633 Route 211 East  
Middletown, NY 10941

EDR Inquiry # 3680234.11

Contact: James Bates

### *Search Documentation*

#### DATA GAP

The complete collection of Building Permit data available to EDR has been searched, and as of 7/30/13, EDR does not have access to building permits in the city where your target property is located (Owego, NY).

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# EDR BUILDING PERMIT REPORT

## About This Report

The EDR Building Permit Report provides a practical and efficient method to search building department records for indications of environmental conditions. Generated via a search of municipal building permit records gathered from more than 1,600 cities nationwide, this report will assist you in meeting the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-05), or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

Building permit data can be used to identify current and/or former operations and structures/features of environmental concern. The data can provide information on a target property and adjoining properties such as the presence of underground storage tanks, pump islands, sumps, drywells, etc., as well as information regarding water, sewer, natural gas, electrical connection dates, and current/former septic tanks.

## ASTM and EPA Requirements

ASTM E 1527-05 lists building department records as a "standard historical source," as detailed in § 8.3.4.7: "Building Department Records – The term building department records means those records of the local government in which the property is located indicating permission of the local government to construct, alter, or demolish improvements on the property." ASTM also states that "Uses in the area surrounding the property shall be identified in the report, but this task is required only to the extent that this information is revealed in the course of researching the property itself."

EPA's Standards and Practices for All Appropriate Inquiries (AAI) states: "§312.24: Reviews of historical sources of information. (a) Historical documents and records must be reviewed for the purposes of achieving the objectives and performance factors of §312.20(e) and (f). Historical documents and records may include, but are not limited to, aerial photographs, fire insurance maps, building department records, chain of title documents, and land use records."

## Methodology

EDR has developed the EDR Building Permit Report through our partnership with BuildFax, the nation's largest repository of building department records. BuildFax collects, updates, and manages building department records from local municipal governments. The database now includes 30 million permits, on more than 10 million properties across 1,600 cities in the United States.

The EDR Building Permit Report comprises local municipal building permit records, gathered directly from local jurisdictions, including both target property and adjoining properties. Years of coverage vary by municipality. Data reported includes (where available): date of permit, permit type, permit number, status, valuation, contractor company, contractor name, and description.

Incoming permit data is checked at seven stages in a regimented quality control process, from initial data source interview, to data preparation, through final auditing. To ensure the building department is accurate, each of the seven quality control stages contains, on average, 15 additional quality checks, resulting in a process of approximately 105 quality control "touch points."

For more information about the EDR Building Permit Report, please contact your EDR Account Executive at (800) 352-0050.



**Proposed Owego School Maintenance Building**

Sheldon Guile Blvd  
Owego, NY 13827

Inquiry Number: 3680234.6  
July 30, 2013

# The EDR-City Directory Abstract

## TABLE OF CONTENTS

### SECTION

Executive Summary

Findings

City Directory Images

*Thank you for your business.*  
Please contact EDR at 1-800-352-0050  
with any questions or comments.

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## EXECUTIVE SUMMARY

### DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant at five year intervals.

Business directories including city, cross reference and telephone directories were reviewed, if available, at approximately five year intervals for the years spanning 1999 through 2012. This report compiles information gathered in this review by geocoding the latitude and longitude of properties identified and gathering information about properties within 660 feet of the target property.

A summary of the information obtained is provided in the text of this report.

### RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. An "X" indicates where information was identified in the source and provided in this report.

<u>Year</u>	<u>Source</u>	<u>TP</u>	<u>Adjoining</u>	<u>Text Abstract</u>	<u>Source Image</u>
2012	Cole Information Services	-	-	-	-
2007	Cole Information Services	-	-	-	-
2002	Cole Information Services	-	-	-	-
1999	Cole Information Services	-	-	-	-

## FINDINGS

### TARGET PROPERTY INFORMATION

#### ADDRESS

Sheldon Guile Blvd  
Owego, NY 13827

#### FINDINGS DETAIL

Target Property research detail.

## FINDINGS

### ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

No Addresses Found

## FINDINGS

### TARGET PROPERTY: ADDRESS NOT IDENTIFIED IN RESEARCH SOURCE

The following Target Property addresses were researched for this report, and the addresses were not identified in the research source.

#### Address Researched

Sheldon Guile Blvd

#### Address Not Identified in Research Source

2012, 2007, 2002, 1999



**Proposed Owego School Maintenance Building**

Sheldon Guile Blvd

Owego, NY 13827

Inquiry Number: 3680234.5

July 31, 2013

## The EDR Aerial Photo Decade Package

# EDR Aerial Photo Decade Package

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

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**Date EDR Searched Historical Sources:**

Aerial Photography July 31, 2013

**Target Property:**

Sheldon Guile Blvd

Owego, NY 13827

<u>Year</u>	<u>Scale</u>	<u>Details</u>	<u>Source</u>
1944	Aerial Photograph. Scale: 1"=500'	Panel #: 42076-A3, Owego, NY;/Flight Date: May 18, 1944	EDR
1948	Aerial Photograph. Scale: 1"=500'	Panel #: 42076-A3, Owego, NY;/Flight Date: April 10, 1948	EDR
1968	Aerial Photograph. Scale: 1"=500'	Panel #: 42076-A3, Owego, NY;/Flight Date: March 30, 1968	EDR
1974	Aerial Photograph. Scale: 1"=1000'	Panel #: 42076-A3, Owego, NY;/Flight Date: April 20, 1974	EDR
1988	Aerial Photograph. Scale: 1"=750'	Panel #: 42076-A3, Owego, NY;/Flight Date: June 19, 1988	EDR
1995	Aerial Photograph. Scale: 1"=500'	Panel #: 42076-A3, Owego, NY;/DOQQ - acquisition dates: March 27, 1995	EDR
1999	Aerial Photograph. Scale: 1"=750'	Panel #: 42076-A3, Owego, NY;/Flight Date: April 08, 1999	EDR
2006	Aerial Photograph. Scale: 1"=500'	Panel #: 42076-A3, Owego, NY;/Flight Year: 2006	EDR
2008	Aerial Photograph. Scale: 1"=500'	Panel #: 42076-A3, Owego, NY;/Flight Year: 2008	EDR
2009	Aerial Photograph. Scale: 1"=500'	Panel #: 42076-A3, Owego, NY;/Flight Year: 2009	EDR
2011	Aerial Photograph. Scale: 1"=500'	Panel #: 42076-A3, Owego, NY;/Flight Year: 2011	EDR

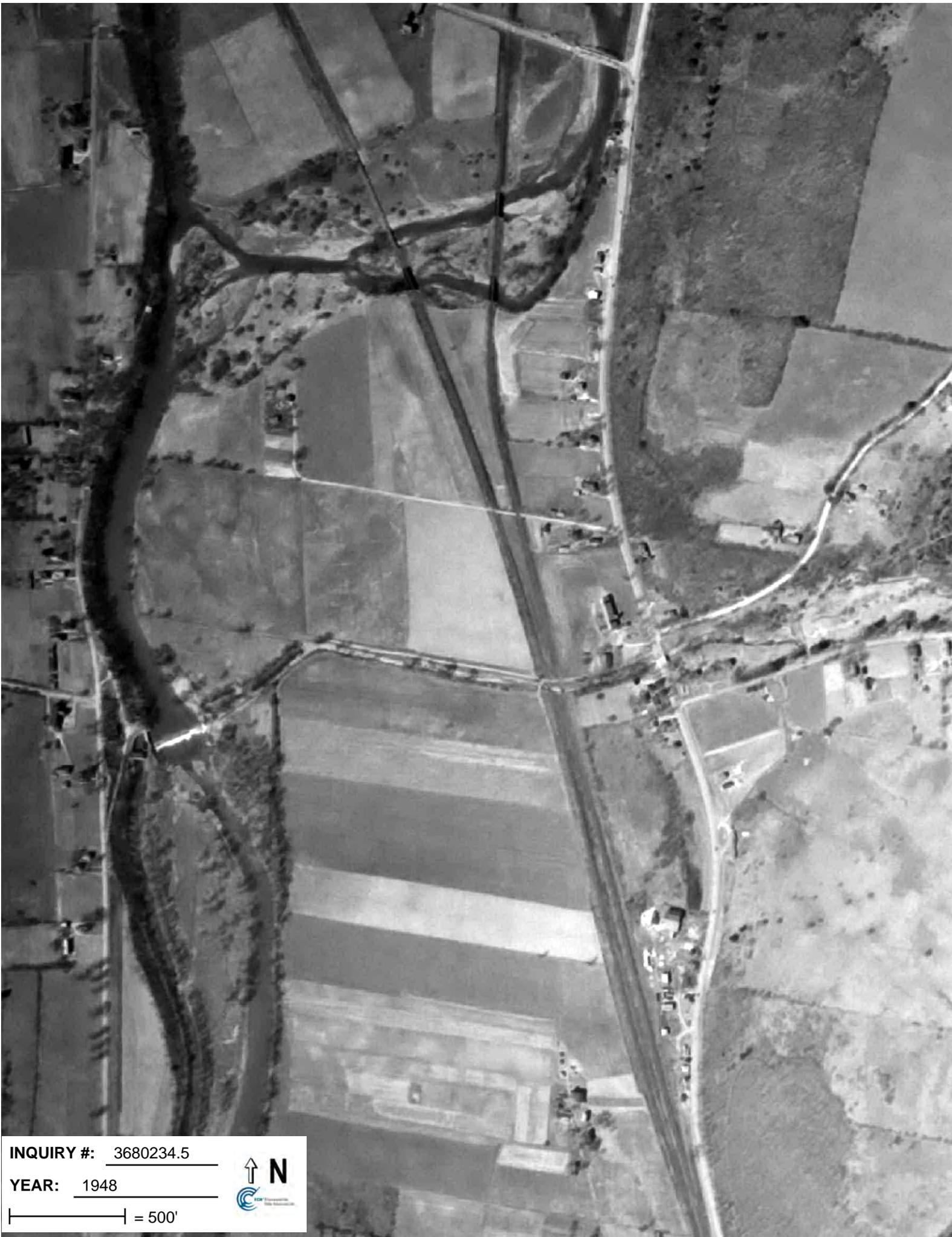


**INQUIRY #:** 3680234.5

**YEAR:** 1944

| = 500'





INQUIRY #: 3680234.5

YEAR: 1948

| = 500'





**INQUIRY #:** 3680234.5

**YEAR:** 1968

| = 500'



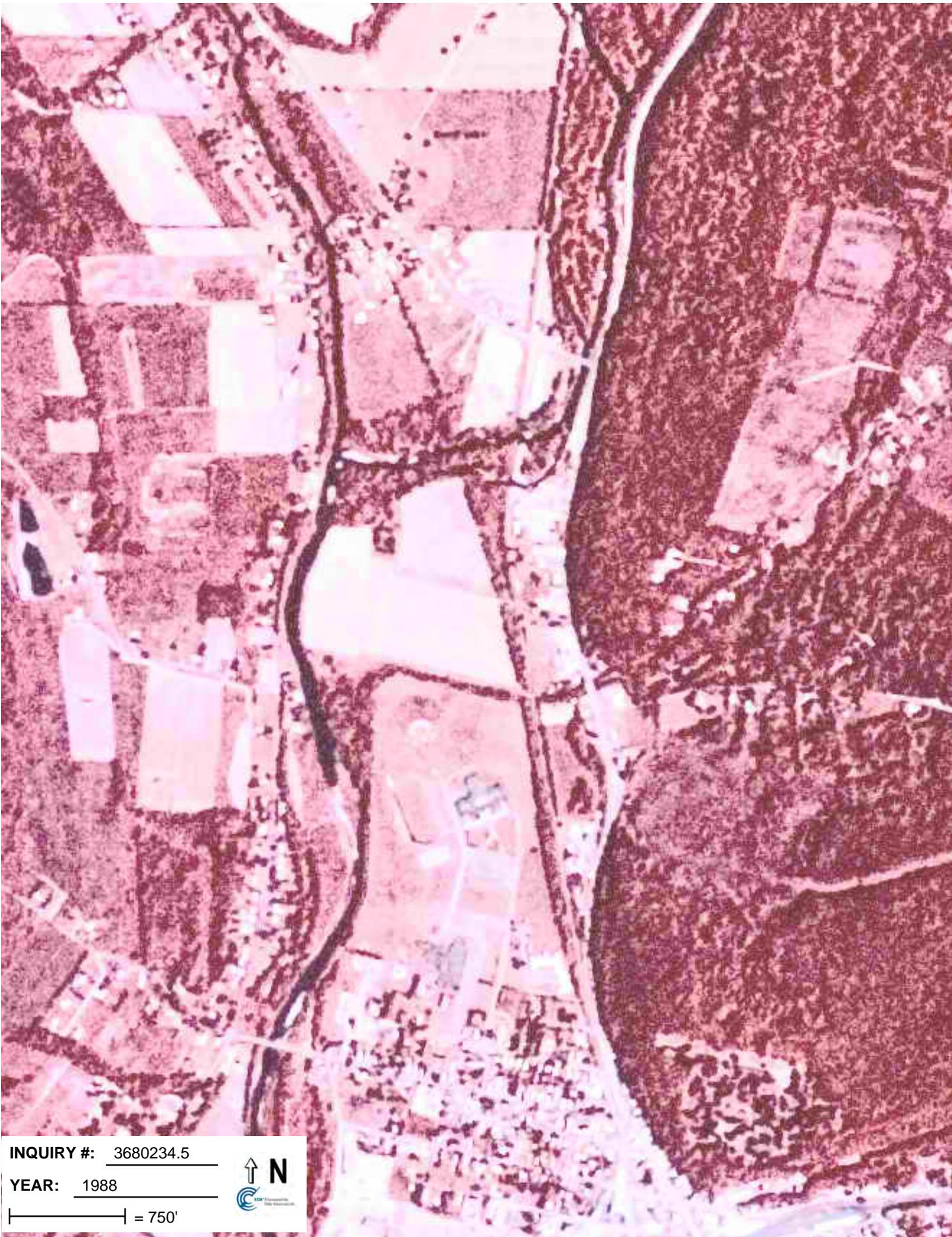


**INQUIRY #:** 3680234.5

**YEAR:** 1974

| = 1000'





INQUIRY #: 3680234.5

YEAR: 1988

| = 750'





**INQUIRY #:** 3680234.5

**YEAR:** 1995

| = 500'





INQUIRY #: 3680234.5

YEAR: 1999

| = 750'





**INQUIRY #:** 3680234.5

**YEAR:** 2006

| = 500'





**INQUIRY #:** 3680234.5

**YEAR:** 2008

| = 500'





**INQUIRY #:** 3680234.5

**YEAR:** 2009

**Scale:** 500'





**INQUIRY #:** 3680234.5

**YEAR:** 2011

| = 500'





**Proposed Owego School Maintenance Building**

Sheldon Guile Blvd

Owego, NY 13827

Inquiry Number: 3680234.4

July 30, 2013

# EDR Historical Topographic Map Report

# EDR Historical Topographic Map Report

Environmental Data Resources, Inc.s (EDR) Historical Topographic Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topographic Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the early 1900s.

***Thank you for your business.***  
Please contact EDR at 1-800-352-0050  
with any questions or comments.

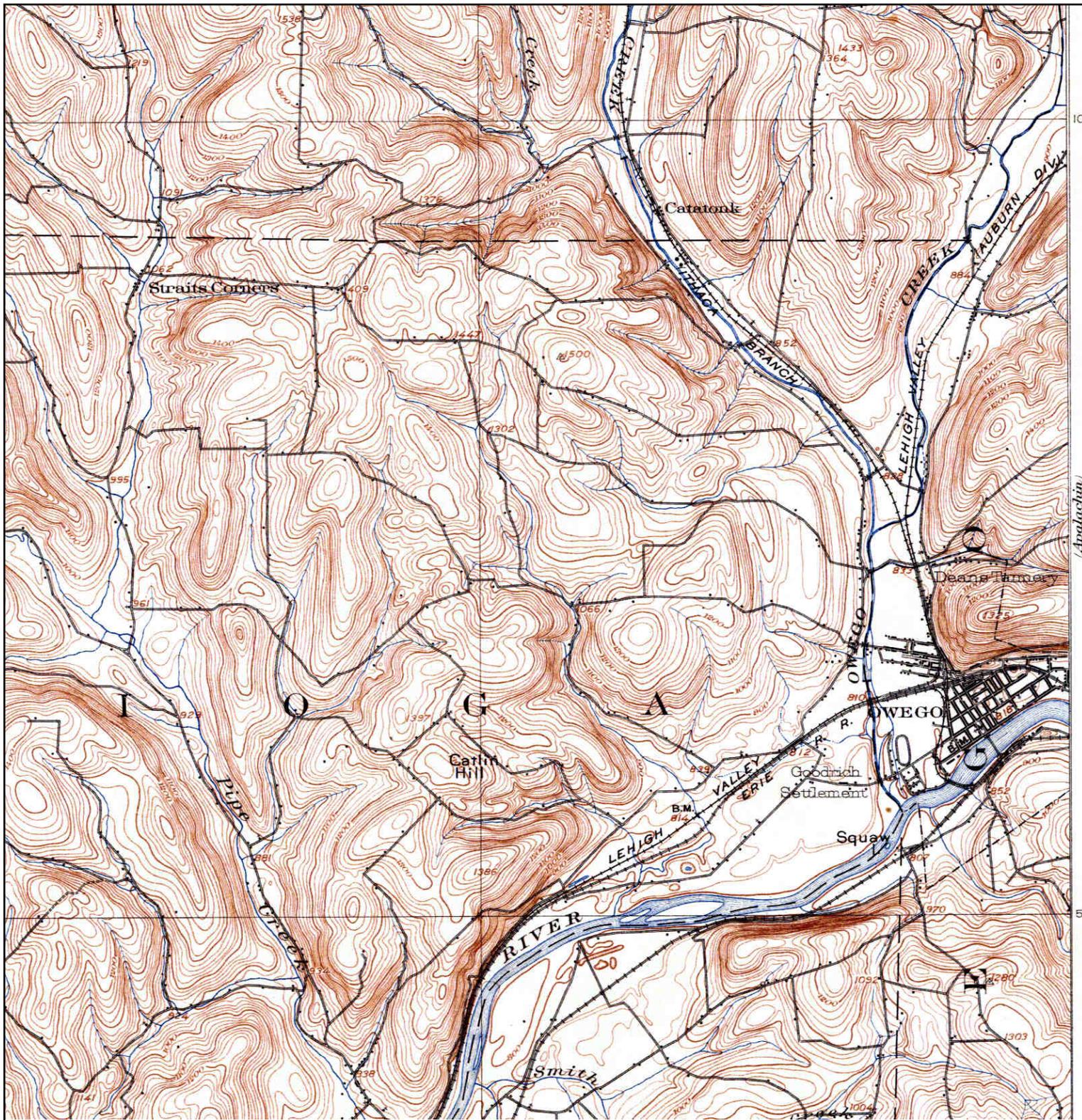
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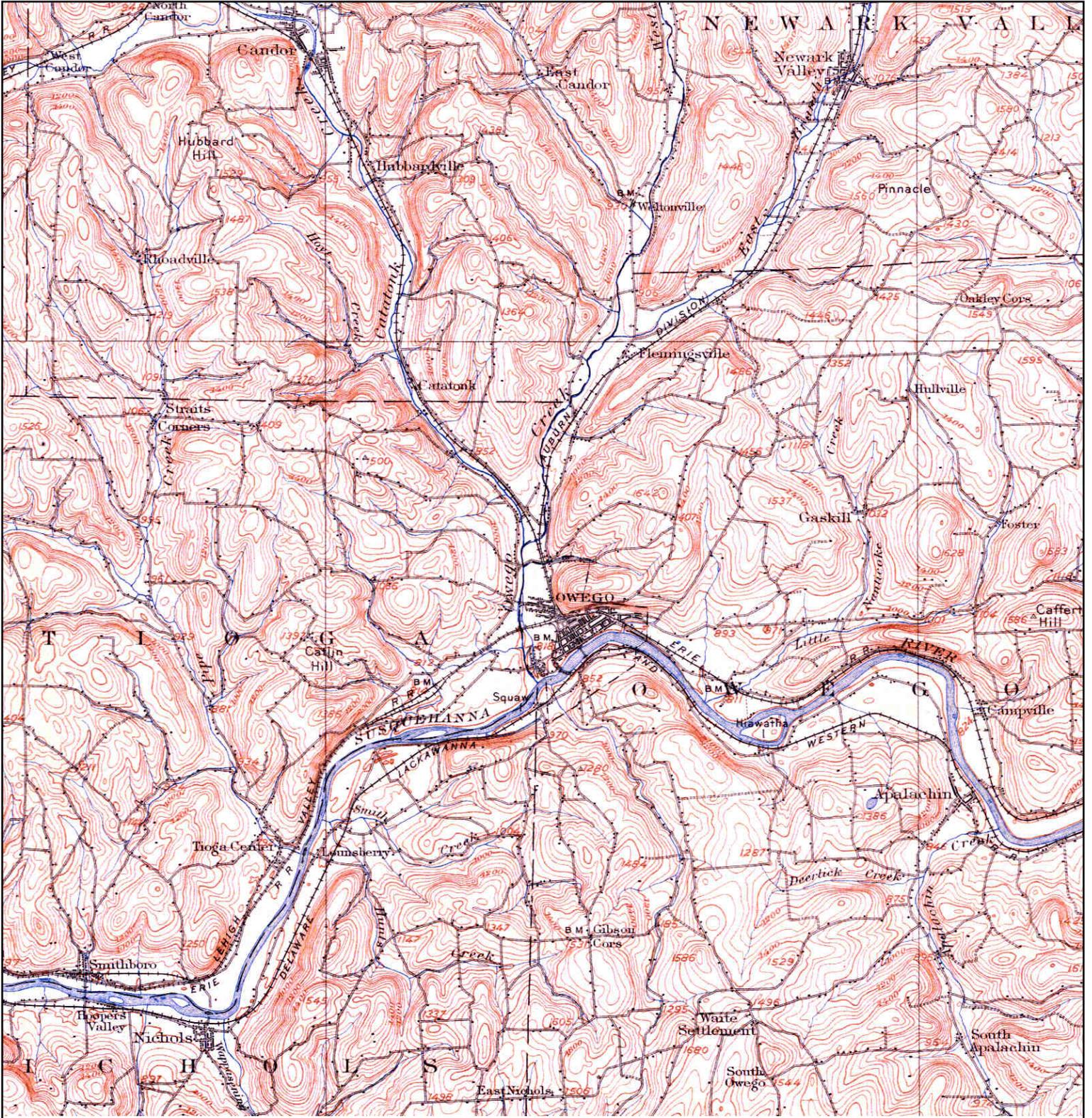
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# Historical Topographic Map



<p>N</p>	<p><b>TARGET QUAD</b></p> <p>NAME: OWEGO</p> <p>MAP YEAR: 1903</p>	<p>SITE NAME: Proposed Owego School Maintenance Building</p> <p>ADDRESS: Sheldon Guile Blvd Owego, NY 13827</p> <p>LAT/LONG: 42.1202 / -76.2725</p>	<p>CLIENT: Ecological Analysis LLC</p> <p>CONTACT: James Bates</p> <p>INQUIRY#: 3680234.4</p> <p>RESEARCH DATE: 07/30/2013</p>
	<p>SERIES: 15</p> <p>SCALE: 1:62500</p>		

# Historical Topographic Map



<p>N</p> 	<b>TARGET QUAD</b>	<b>SITE NAME:</b> Proposed Owego School Maintenance Building	<b>CLIENT:</b> Ecological Analysis LLC
	<b>NAME:</b> CATATONK		<b>CONTACT:</b> James Bates
	<b>MAP YEAR:</b> 1906	<b>ADDRESS:</b> Sheldon Guile Blvd Owego, NY 13827	<b>INQUIRY#:</b> 3680234.4
	<b>SERIES:</b> 30	<b>LAT/LONG:</b> 42.1202 / -76.2725	<b>RESEARCH DATE:</b> 07/30/2013
	<b>SCALE:</b> 1:125000		

# Historical Topographic Map



<p>N</p>	<p><b>TARGET QUAD</b></p> <p>NAME: OWEGO</p> <p>MAP YEAR: 1956</p>	<p>SITE NAME: Proposed Owego School Maintenance Building</p> <p>ADDRESS: Sheldon Guile Blvd Owego, NY 13827</p> <p>LAT/LONG: 42.1202 / -76.2725</p>	<p>CLIENT: Ecological Analysis LLC</p> <p>CONTACT: James Bates</p> <p>INQUIRY#: 3680234.4</p> <p>RESEARCH DATE: 07/30/2013</p>
	<p>SERIES: 7.5</p> <p>SCALE: 1:24000</p>		