

APPENDIX J

ARCHEOLOGICAL INVESTIGATION





MANAGEMENT SUMMARY  
Phase I and II Archaeological Investigations  
of the  
Proposed LEGOLAND  
Town of Goshen  
Orange County, New York

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APPENDIX: Resumes

## 1. INTRODUCTION

This document provides a summary of Phase I and II archaeological investigations conducted by Landmark Archaeology, Inc. for the proposed LEGOLAND project in the town of Goshen, Orange County, New York (Figure 1). The Phase I investigation included Phase IA background research and Phase IB shovel testing. The Phase I archaeological survey considered an Area of Potential Effect (APE) of approximately 196 acres (79.3 ha). Phase II investigations were conducted at Sites 07106.000121 and 07106.000123 and Legoland Site 4 and included shovel test and unit excavations. Archaeological fieldwork was performed from June 1 to August 26, 2016. All Phase I and II work was conducted in accordance with guidelines established in *Standards for Cultural Resource Investigations and the Curation of Archaeological Collections in New York* by the New York Archaeological Council (NYAC 1994) and adopted by the Office of Parks, Recreation and Historic Preservation (OPRHP).

## 2. PHASE IA RESEARCH

Phase IA research included a site files search utilizing the Cultural Resources Information System (CRIS) maintained at the OPRHP. The search determined if archaeological sites or National Register of Historic Places (NRHP) properties were recorded within or near the project area. Other information obtained from CRIS included whether or not previous archaeological investigations have occurred within or near the project area. Phase IA research also examined historic maps to identify land use history and potential for historic resources within the project area.

### NRHP Properties

There are no recorded NRHP properties within or adjacent to the project area.

### Archaeological Sites

The OPRHP CRIS records show that three previously recorded archaeological sites are within or adjacent to the APE (Figure 2). Sites 07106.000121 and 07106.000123 are within the APE, and Site 07106.000122 is approximately 59 meters (194 ft) east of the APE. These three sites are prehistoric archaeological sites.

The OPRHP CRIS records also identify eleven other archaeological sites that have been recorded within one mile of the project area. These sites consist of six prehistoric sites and five historic sites.

### Previous Archaeological Investigations

A Phase IA/IB archaeological investigation was completed in 2000 that overlaps with the eastern portion of the current APE (see Figure 2). The investigation was conducted for the proposed Arcadia Hills Section II and the Lone Oak Estates residential development and included 217 acres (Hartgen 2000:1). Of the 217 acres, approximately 49.9 acres (20.2 ha) fall within the current APE. The study identified the aforementioned three sites 07106.000121 through 07106.000123.

### Historic Maps

Historic maps reviewed during the Phase IA study included the years 1875 (Beers 1875; Figure 3) and 1908 (USGS 1908; Figure 4). Both maps show a structure in the northeastern portion of the APE along Harriman Drive. The structure is associated with the name ES & E. Seely on the 1875 map. Aside from this structure, both maps show the remaining project area as undeveloped with no structures within or adjacent to the APE. A road along the same route as Harriman Drive is depicted on both maps, but it does not extend along the entire northern edge of the APE as Harriman Drive does today.

### 3. PHASE IB AND II FIELDWORK

Phase IB fieldwork included the excavation of 581 shovel tests (stps) across the LEGOLAND APE. Generally, shovel tests were spaced at a 15-meter interval along transects spaced 15 meters apart. Selectively placed shovel tests also were excavated based on landform considerations. Shovel tests were not excavated in areas of excessive slope (>12-15%), in areas with standing water or in areas that were highly disturbed. All excavated soils were screened through ¼-inch hardware mesh. Each shovel test was backfilled upon completion and its location was recorded with a sub-meter precision *Trimble Geo XT GPS* receiver.

Phase IB fieldwork relocated previously recorded archaeological sites 07106.000121 through 07106.000123 and found that Site 07106.000123 is larger in size than was estimated when it was originally recorded in 2000. The current study also identified two new archaeological sites: Legoland Sites 4 and 5 (Figure 5). Legoland Site 4 is a prehistoric site located in the eastern portion of the APE. Legoland Site 5 is a multicomponent prehistoric and historic site. The prehistoric component of Legoland Site 5 is represented by a single artifact, a Jack's Reef Pentagonal projectile point. The historic component of the site is associated with the structure shown on historic maps of the APE. The structure is no longer standing; it burned down in the recent past.

Table 1 presents summary information on all five sites. Phase II investigations at Site 07106.000121 included 129 shovel tests and ten 1x1-meter unit excavations. Phase II work at Sites 07106.000123 and Legoland Site 4 consisted of 40 shovel tests and seven 1x1-meter units at each site. Phase II investigations were designed to gather data with which to evaluate the NRHP eligibility status of the sites. Site eligibility is based on NRHP criteria of significance (36CFR60.6, Federal Register 1976).

Table 1: Summary of Archaeological Sites in APE

Site	Size	Temporal/ Cultural Affiliation	Level of Investigation	Excavations	Recommendations
07106.000121	3.5 acres (1.42 ha)	Late Archaic	Phase II	Phase II: 129 stps, 10 units	Recommended not NRHP eligible; no further work recommended
07106.000122	1.5 acres (0.61 ha)	Lake Archaic	Phase I	None	NRHP eligibility undetermined; avoidance or Phase II is recommended
07106.000123	1.79 acres (0.72 ha)	Terminal Archaic	Phase I and II	Phase I: 24 stps Phase II: 40 stps, 7 units	Recommended NRHP eligible; avoidance or Phase III data recovery recommended
Legoland Site 4	0.73 acres (0.3 ha)	Prehistoric	Phase I and II	Phase I: 24 stps Phase II: 40 stps, 7 units	Recommended NRHP eligible; avoidance or Phase III data recovery recommended
Legoland Site 5	0.3 acres (0.12 ha)	Prehistoric: Late Middle Woodland Historic: Late 19 <sup>th</sup> to 20 <sup>th</sup> century	Phase I	16 stps	Recommended not NRHP eligible; no further work recommended

### 4. RECOMMENDATIONS

Field data and artifact analyses are in progress. The following recommendations are preliminary.

**Site 07106.000121**

The current study included a Phase II level investigation on this site; Phase I work was performed on the site in 2000 (Hartgen 2000). The site is assigned to the Late Archaic cultural period (4000-1000 BC) based on the recovery of a project point similar to the Poplar Island style projectile point of the Late Archaic cultural period (Hartgen 2000:11). The current Phase II investigation yielded few artifacts, found no cultural features and did not recover any diagnostic artifacts with which to assign cultural affiliation of the site. Based on these results and upon concurrence by the OPRHP, the site does not meet NRHP eligibility criteria. No further archaeological work is recommended for this site.

**Site 07106.000122**

The current study did not investigate Site 07106.000122. The 2000 Phase I study found a Late Archaic Poplar Island-like projectile point at this site. The NRHP eligibility of this site has not been determined. Avoidance of the site by project activities is recommended. If avoidance is not feasible, Phase II archaeological investigations are recommended to determine NRHP eligibility of the site.

**Site 07106.000123**

Phase I and II fieldwork was performed at this site during the current study. The site is tentatively assigned to the Terminal Archaic cultural period (1700-700 BC) based on the recovery of a projectile point interpreted to be an Orient Fishtail point. Archaeological deposits appear intact in unplowed A- and B-horizon soils. Based on these results, the site is likely to yield information important in prehistory and meets NRHP eligibility criterion d. Avoidance of the site by project activities is recommended. If avoidance is not feasible, Phase III data recovery is recommended to mitigate adverse impacts to the site.

**Legoland Site 4**

This site was identified by the current Phase I study and further investigated by Phase II work. No culturally diagnostic artifacts were recovered from the site with which to assign cultural affiliation. However, excavations identified a subplowzone pit feature and documented archaeological deposits in unplowed B-horizon soils. Based on these results, the site is likely to yield information important in prehistory and meets NRHP eligibility criterion d. Avoidance of the site by project activities is recommended. If avoidance is not feasible, Phase III data recovery is recommended to mitigate adverse impacts to the site.

**Legoland Site 5**

This site was identified by the current Phase I study. The prehistoric component of this site is represented by a single artifact: a Jack's Reef Pentagonal projectile point which is associated with the late Middle Woodland cultural period (AD 500-1000). The historic component of the site is represented by fragments of beverage glass, pieces of whiteware ceramics, and small brick fragments. This component is interpreted to be associated with the occupation of the structure shown on historic maps of the area as well as post occupation refuse. No temporally discrete historic archaeological deposits or features were identified at the site. Based on these results and upon concurrence by the OPRHP, the site does not meet NRHP eligibility criteria. No further archaeological work is recommended for this site.

## 5. REFERENCES CITED

Beers, F. W.

1875 *County Atlas of Orange, New York*. Adreas Baskin & Burr, Chicago.

Hartgen Archeological Associates, Inc.

2000 *Phase IA Report for Archeological Potential Sensitivity Assessment and Phase IB Archeological Field Investigation Lone Oak/Arcadia Hills II Subdivision Town of Goshen, Orange County New York*. Prepared for FASA Construction Corp., by Hartgen Archeological Associates, Inc.

New York Archaeological Council

1994 *Standards for Cultural Resource Investigations and the Curation of Archaeological Collections in New York State*. The New York Archaeological Council.

United States Geological Survey (USGS)

1908 *Goshen, NY. 15' Series Quadrangle*

2000 *Middletown, NY. 7.5' Series Quadrangle*

# Figures

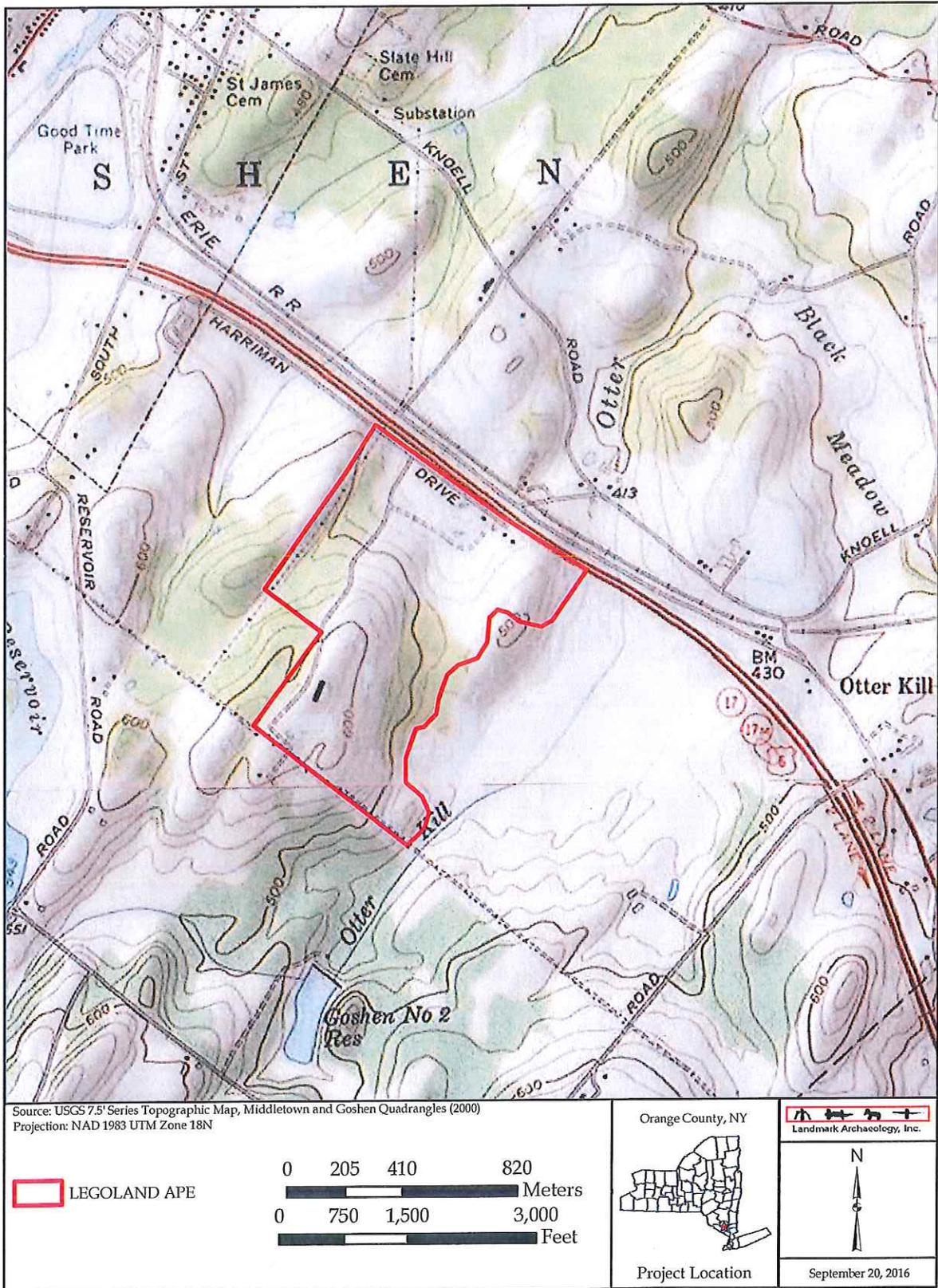


Figure 1: Project Location and Topographic Features



Figure 2: LEGOLAND APE, 2000 Phase I Study Area, and Previously Recorded Archaeological Sites

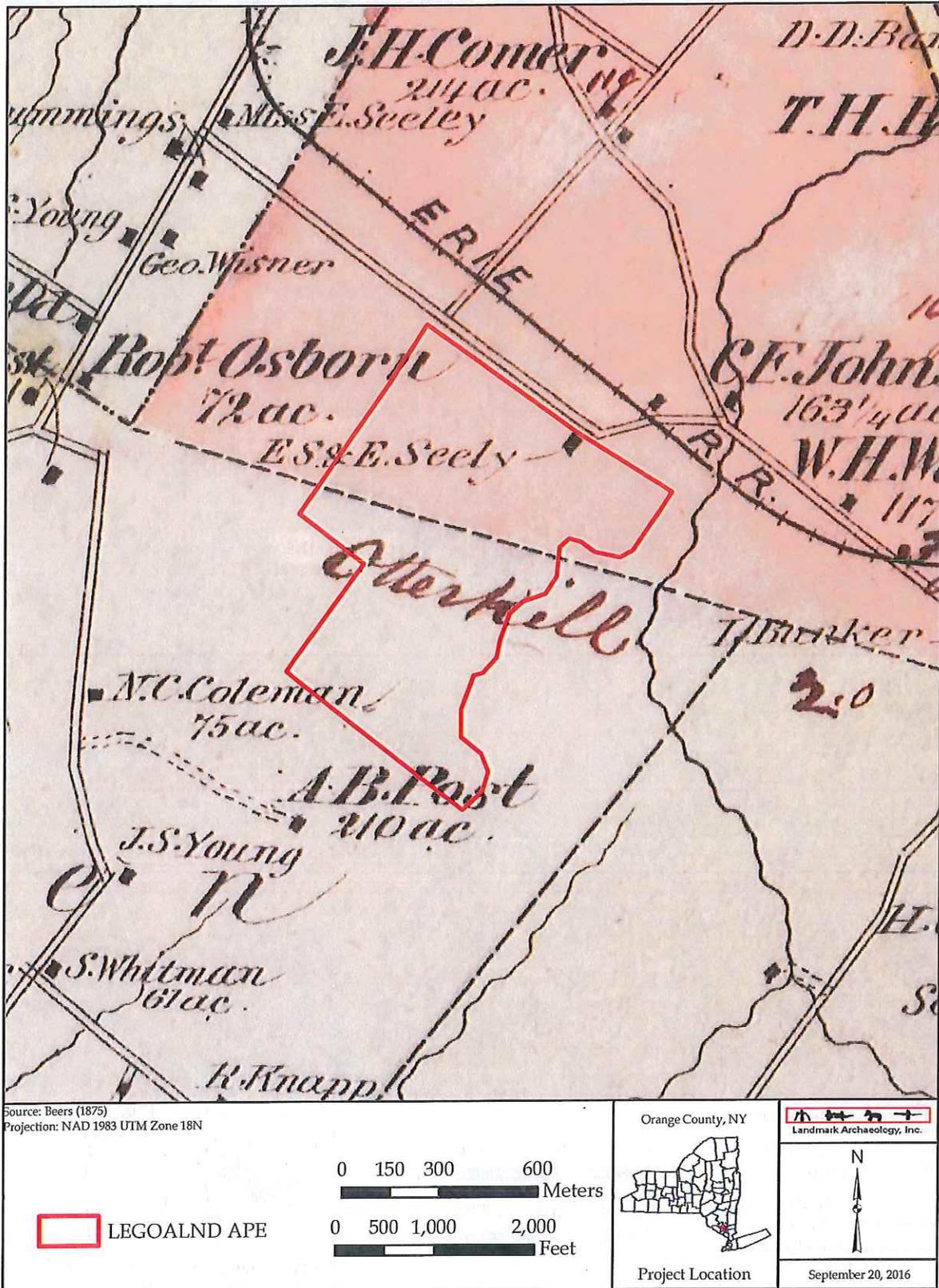
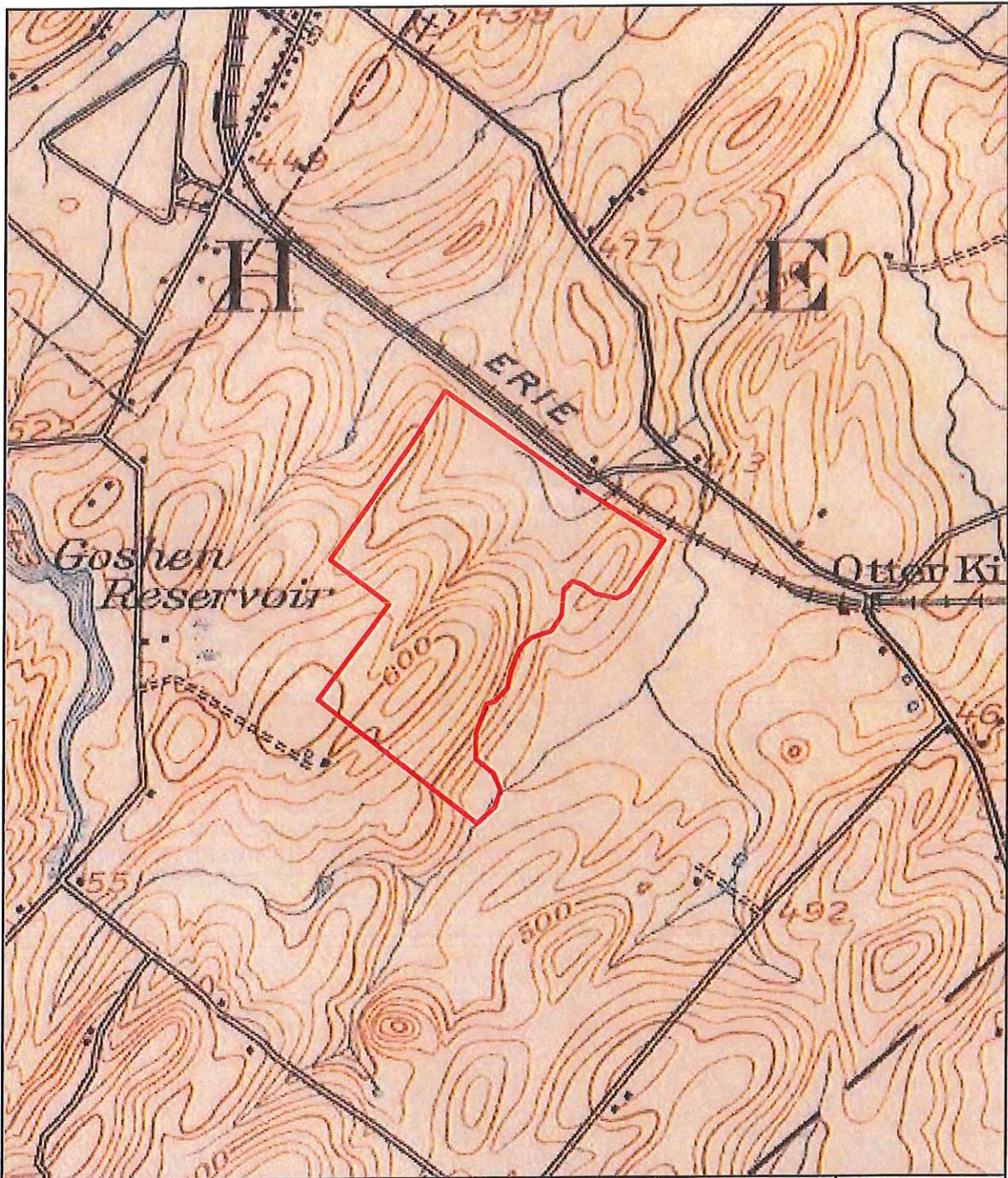


Figure 3: Project Area, 1875



Source: USGS 15' Series Topographic Map, Goshen Quadrangle (1908)  
 Projection: NAD 1983 UTM Zone 18N

 Project Area

0 250 500 1,000  
 Meters

0 750 1,500 3,000  
 Feet

Orange County, NY



Project Location

 Landmark Archaeology, Inc.



September 20, 2016

Figure 4: Project Area, 1908

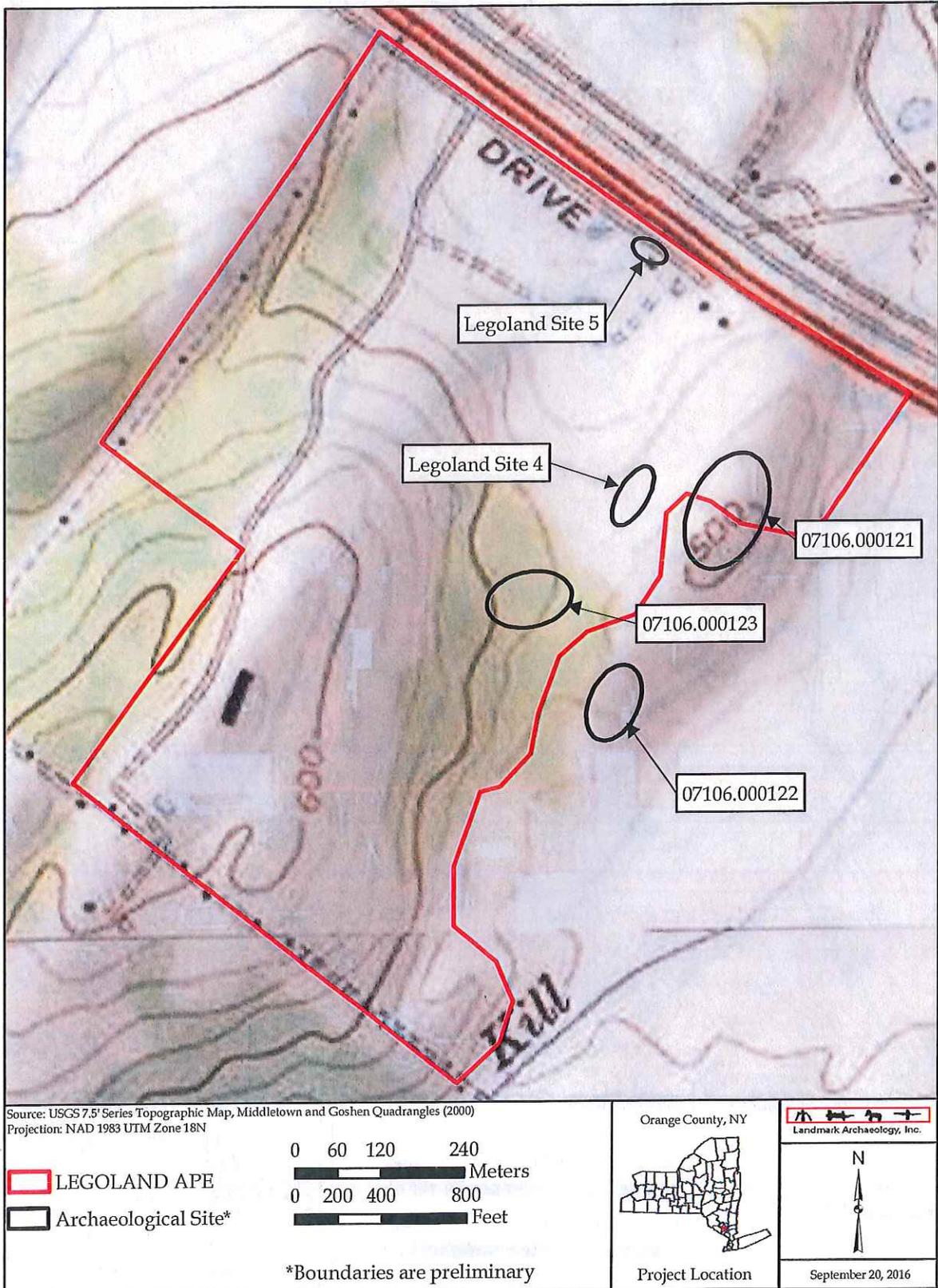


Figure 5: LEGOLAND APE and Archaeological Site Locations

APPENDIX  
RESUMES

Derrick J. Marcucci, RPA

Susan Gade, RPA

**DERRICK J. MARCUCCI, RPA**  
*Principal Archaeologist*

**EDUCATION**

- Ph.D. coursework completed, SUNY-Albany 1999-2003
- M.S., Anthropology, University of Wisconsin-Milwaukee, 1987
- B.A., Anthropology, University of Iowa, 1982

**PROFESSIONAL TRAINING**

- Introduction to Federal Projects and Historic Preservation Law (1994)
- Section 106 of the National Historic Preservation Act (2008)

**PROFESSIONAL AFFILIATIONS**

- Register of Professional Archaeologists
- American Cultural Resource Association
- Society for American Archaeology
- New York Archaeological Council\*
- New York State Archaeological Association
- Plains Anthropologist
- Iowa Archaeological Society

\* Vice President, 2010-present.

**PROFESSIONAL EXPERIENCE**

**2002-Present Co-Owner/Director and Principal Archaeologist**  
**Landmark Archaeology, Inc.**  
**Altamont, New York**

Derrick J. Marcucci, Co-Owner/Vice President and Principal Archaeologist for Landmark Archaeology, Inc. is responsible for the development of research designs, field investigations, site nominations, client coordination with reviewing agencies and supervision of Section 106, Section 14.09 and SEQR projects. His experience includes project management of multidisciplinary teams, implementation of geoarchaeological studies, NRHP site evaluations, and contributions to environmental impact statements. A representative sample of the projects Mr. Marcucci has completed is listed below.

**Constitution Pipeline Wetland Mitigation, Broome, Chenango, and Schoharie Counties, New York, and Susquehanna County, Pennsylvania.** Principal Investigator, Phase I and II archaeological investigation of several wetland mitigation areas in New York and Pennsylvania. For Kleinschmidt Associates.

**Photovoltaic Array Installation SUNY-Cobleskill, Schoharie County, New York.** Principal Investigator, Phase IA/IB archaeological investigations of a ground-based photovoltaic array installation on the SUNY-Cobleskill Campus. For the New York Power Authority.

**J.J. Astor Estate, Duffy Residence Development, Dutchess County, New York.** Project Manager/Principal Investigator, Phase I and II archaeological investigations of several prehistoric and historic archaeological sites on land within the Hudson River National Landmark District. For Robert C. Duffy.

**Schodack Island State Park New Campground Facility, Rensselaer County, New York.** Principal Investigator, Phase IB archaeological investigations of a proposed campground facility at Schodack Island State Park. For the New York State Office of Parks, Recreation and Historic Preservation.

**Freedom's Path Housing Complexes, Northport Veterans Affairs Medical Center Campus, Suffolk County, New York.** Project Manager, Phase I and II archaeological investigations of a prehistoric multicomponent Woodland site and eighteenth to twentieth centuries historic site. For J.M. Waller Associates, Inc.

**Maalwyck Park Additions and Improvements Project, Schenectady County, New York.** Project Manager/Principal Investigator, Phase I and II archaeological investigations of two prehistoric multicomponent Archaic and Woodland sites. For the Town of Glenville.

**North American Electric Reliability Corporation Facility Remediation Project, Clinton and Lewis Counties, New York.** Principal Investigator, Phase IA/IB archaeological investigation of remediation procedures at six locations. For the New York Power Authority.

**Schoharie Crossing State Historic Site, Montgomery County, New York.** Principal Investigator, Phase I archaeological investigations of prehistoric and nineteenth century historic deposits for a proposed parking lot. For the New York State Office of Parks, Recreation and Historic Preservation.

**North American Electric Reliability Corporation Facility Remediation Project, Albany and Schoharie Counties, New York.** Project Manager, Phase IA/IB archaeological investigation of remediation procedures at two locations. For the New York Power Authority.

**Cultural Resource Support for the Interim Action Clearance Program at New Boston Air Force Station, New Boston, New Hampshire.** Principal Investigator, archaeological investigations supporting mitigation of a former WWII/Cold War bombing and strafing range in southern New Hampshire within a National Register listed Historic District.

**Broadway School African-American Cemetery Project, Orange County, New York.** Principal Investigator, large-scale identification, documentation and exhumation of nineteenth century African-American burials in downtown Newburgh. For the City of Newburgh.

**1187-1201 Troy Schenectady Road Project, Albany County, New York.** Co-Principal Investigator, Phase I and II archaeological investigations of two prehistoric sites and one eighteenth century historic site. For C.T. Male, LLC and British American Development Corp.

**Horizons at Wawayanda, Town of Wawayanda, Orange County, New York.** Principal Investigator, Phase III mitigation of Prehistoric Sites A07119.000186 and A07119.000187 near Middletown, New York. For Regan Development.

**Glen Canal View Business Park South, Montgomery County, New York.** Co-Principal Investigator, Phase I intensive level survey of proposed 100-acre industrial park near Fonda, New York. Phase II investigations of seven prehistoric sites and one historic site. For Montgomery County Industrial Development Agency.

**Halfmoon Town Park, Saratoga County, New York.** Project Manager, Phase I and II archaeological investigations of a proposed town park. For the Town of Halfmoon.

**Hidden Forest at Hurley, Ulster County, New York.** Co-Principal Investigator, Phase I survey of a 411-acre, 652-unit subdivision. For Lennar/Route 209 Company.

**Reconstruction of Croton Falls Pumping Station and Facilities-Water Supply for New York City.** Principal Investigator, Phase I archaeological survey of improvements for Croton Falls Pumping Station Facility, Putnam and Westchester Counties, New York. For Malcolm Pirnie, Inc.

**Bethlehem Technology Park, Albany County, New York.** Co-Principal Investigator, Phase I archaeological survey of 85-acre parcel along Wemple Road. Project identified nine prehistoric archaeological sites. Prepared for Milltowne Plaza, Inc.

**Culinary Institute of America, Dutchess County, New York.** Co-Principal Investigator, Phase I, II and III archaeological investigations of a multicomponent prehistoric and eighteenth through twentieth century historic site. For the Culinary Institute of America.

**DiCaprio Farm Acquisition, Albany County, New York.** Principal Investigator, Phase I study of proposed soccer complex. For the Town of Guilderland.

**Oakhill Subdivision, Albany County, New York.** Co-Principal Investigator, Phase I and II archaeological investigations of proposed housing development. For Shelco Development, LLC.

**North Colonie Central School District, Albany County, New York.** Principal Investigator, Phase I study of proposed school improvements. For Collins & Scoville Architects, P.C.

**Thomas Seifert and John Longuil Agricultural Resources Management Assistance, Livingston County, New York.** Principal Investigator, Phase I study of agricultural improvements. For the Natural Resources Conservation Service.

**Brink Farm Mine, Tioga County, New York.** Principal Investigator, Phase I study of mining permit area along the Susquehanna River. For F.S. Lopke Contracting, Inc.

**Summer 2002 Instructor of Record** Department of Anthropology, SUNY Albany, SUNY Albany 2002 Schoharie Creek Archaeological Field School

1997-2001                      **Director and Senior Archaeologist**  
   **Cultural Resources Management Services**  
   **Guilderland, New York and Maquoketa, Iowa**

As Co-Director and Senior Archaeologist, Mr. Marcucci designed and implemented all phases of archaeological research. His experience includes the development of preservation plans for historic cemeteries and the design and implementation of a zoning ordinance for prehistoric mound sites in eastern Iowa. Some of the larger projects Mr. Marcucci has directed are listed below.

**Baker Farm Subdivision, Otsego County, New York.** Co-Principal Investigator, Phase I and II archaeological investigations of a proposed subdivision along the banks of Canadarago Lake and site evaluation of a multicomponent prehistoric occupation. For T.C. Damon & Associates, Inc.

**Tiashoke Farm Improvements, Rensselaer County, New York.** Principal Investigator, Phase I of ten drainage improvement areas along the Hoosic River. For Natural Resources Conservation Resources, Syracuse, New York.

**Tioga Speedway Addition to Owego Mine, Tioga County, New York.** Principal Investigator, Phase I survey of 45 acres on an outwash terrace along the Susquehanna River. For F.S. Lopke Contracting, Inc.

**Preservation Plan for the Hoffmeister Cemetery, Lee County, Iowa.** Principal Investigator, Preservation Plan for the protection of a potentially eligible NRHP cemetery site (ca. 1869-1962). For the Economic Development Administration and the City of Fort Madison, Iowa.

**GIS Applications for the Preservation of Prehistoric Mound Sites in Jackson County, Iowa.** Designed and implemented GIS applications for the zoning administrator, Jackson County, Iowa. Developed zoning procedures for the protection of unrecorded earthen monuments in Jackson County.

**Fort Dodge Mine, Webster County, Iowa.** Co-Project Director, Phase I study of proposed mine improvements and Phase II evaluations of a buried prehistoric site, Fort Dodge Mine. For Martin Marietta Materials, Inc.

**Assessment of Selected Prehistoric Mound Sites in Jackson County, Iowa.** Principal Investigator, archival research and intensive level fieldwork to identify, document, and develop a management plan for the protection of prehistoric mound sites in Jackson County, Iowa. For the Jackson County Historic Preservation Commission.

**Red Rock Lake, Marion County, Iowa.** Principal Investigator, Phase II site evaluation of an historic and prehistoric site in Lake Red Rock. For the American Resources Group and the Rock Island Corps of Engineers.

**Prairie Creek Valley Rockshelter Sites, Jackson County, Iowa.** Principal Investigator, Phase II evaluations of three rockshelter sites to determine NRHP eligibility. For the Maquoketa Historic Preservation Commission.

1987-1997                      **Assistant Director and Senior Archaeologist  
Cultural Resource Group, Louis Berger & Associates, Inc.  
Marion, Iowa**

As Assistant Director and Senior Archaeologist for Louis Berger & Associates, Inc., Mr. Marcucci was responsible for managing numerous large scale surveys involving archaeological, architectural and historical studies; Phase II site evaluations; and the design of Phase III data recovery programs. He supervised all aspects of research across a large geographic region. Some of the larger projects Mr. Marcucci completed are listed below.

**U.S. Highway 61, Jackson County, Iowa.** Project Manager, Phase III Data Recovery at two prehistoric sites and one historic site. For the Iowa Department of Transportation.

**United States Penitentiary, Martin and Johnson Counties, Kentucky.** Project Manager, Phase IA cultural resource assessment for a 550-acre building site. For the U.S. Department of Justice, Federal Bureau of Prisons.

**Archaeological Assessment of Riverfront Development at Moline, Illinois.** Project Manager, Phase IA cultural resource assessment of a nineteenth-century lateral dam on the Mississippi River. For Stanley Consultants of Muscatine, Iowa.

**Siting Study of Four Sites for a Federal Detention Center in Honolulu.** Project Manager, Phase IA cultural resource assessment. For the U.S. Department of Justice, Federal Bureau of Prisons.

**Federal Correctional Complex at Pollock, Louisiana.** Project Manager, Phase IB cultural resource investigation. For the U.S. Department of Justice, Federal Bureau of Prisons.

**Lambert-St. Louis International Airport Project Area, St. Louis, Missouri.** Project Manager, Phase II evaluation of archaeological resources. For Greiner & Associates, Inc.

**Highway 34, Des Moines-Burlington, Section III, Jefferson, Henry, and Wapello Counties, Iowa.** Project Manager, Phase I archaeological, historic, and architectural studies. For the Iowa Department of Transportation.

**Highway 61, Muscatine and Scott Counties, Iowa.** Principal Investigator, architectural and historical evaluation and archaeological survey and testing. For the Iowa Department of Transportation.

**Management Study, Historic Division of Cultural Affairs.** Archaeologist, State Historic Site Management and Development Plans of 19 sites and Master Development Plans for the American Gothic House, the Sagers Museum, the Matthew Edel Blacksmith Shop, the Turkey River Indian Mounds, and the Blood Run National Historic Landmark Sites. For Dunbar/Jones Partnership and the Historic Division of the Department of Cultural Affairs.

**Federal Corrections Facility, Tazewell County, Illinois.** Principal Investigator, Phase II investigations of a nineteenth-century house site. For the U.S. Department of Justice, Federal Bureau of Prisons.

**Oakwood Beach Water Pollution Control Project, Staten Island, New York.** Principal Investigator, Phase II archaeological testing of prehistoric and historic sites. For Sverdrup & Parcel Consultants.

**PROFESSIONAL EXPERIENCE: 1977-1987** Research Assistant, Field Director, Crew Chief, and Field Archaeologist for varied cultural resource management and archaeology projects in Illinois, Iowa, Montana, New Jersey, New York, South Dakota, Wyoming, Italy, and Belize.

#### **PUBLICATIONS/REPORTS**

*Preservation Overlay Zone Ordinance for the Protection of Ancient Burials, Jackson County, Iowa.* Copy on file, Office of the State Archaeologist, University of Iowa, Iowa City, 1998.

The Jackson County Indian Mound Survey. *Iowa Archaeological Society Newsletter* 48(1) 1998.

Chipped Lithics Materials (with Rodney C. De Mott and Joyce A. Williams). In *The Archaeology of the Cahokia Mounds ICT-II: Testing and Lithics*. Illinois Cultural Resources Study No. 9. Illinois Historic Preservation Agency, 1993.

An Introduction to the Prehistory and History of Maquoketa, Jackson County, Iowa. In *Association of Iowa Archaeologists 1993 Field Trip Guide*, 1993.

The Paul Sagers Archaeological Collection (with John Cordell and Bill Green). Submitted to the *Journal of the Iowa Archaeological Society*, vol. 38, 1991.

*Final Report of Archaeological Investigations and Data Recovery at the Trout Point 1 Site, Alger County, Michigan* (Elizabeth D. Benchley, Cheong-Yip Yuen, and K. L. Griffin, co-authors). Prepared for the USDA Forest Service, Hiawatha National Forest, 1987.

Review of Iowa Projectile Points. *Iowa Archaeological Newsletter*, 35:3:115, 1985.

*A Survey of Selected Rock Shelter Archaeological Sites in Eastern Iowa* (David Benn, senior author). On file at the Division of Historic Preservation, Des Moines, 1981.

Poison Ivy Obsidian Source Identification. In *Journal of the Iowa Archaeological Society*, edited by R. Clark Mallam, vol. 25, pp. 92-99, 1978.

Poison Ivy Obsidian. In *The Keystone*, vol. II, no. I, pp. 4-6, Iowa City, 1977.

Obsidian Sources in the Maya Area (R. Sidrys and John Andresen, co-authors). In *Journal of New World Archaeology*, edited by Billy Cloelow. UCLA Institute of Archaeology, 1976.

#### PAPERS PRESENTED

"Recent Excavations at the Maritje Kill Site, Culinary Institute American, Hyde Park, New York." Department of Anthropology, University at Albany, New York, April, 2005.

"Revisiting Trout Point Lithics", Paper presented at the 49<sup>th</sup> Annual Meeting of the Midwest Archaeological Conference, Milwaukee, Wisconsin, 2003.

"Reappropriated Sacred Landscapes: The Afterlife of Prehistoric Mounds in Northeast Iowa." Paper presented at the 66<sup>th</sup> Annual Meeting of the Society for American Archaeology, New Orleans, 2001

"Preservation Overlay Ordinance for Protection of Prehistoric Mound Sites in Eastern Iowa." Paper presented at the 65<sup>th</sup> Annual Meeting of the Society for American Archaeology, Philadelphia, 2000

"Small Rockshelters and Patterns of Use in Eastern Iowa." (Randall Withrow co-author). Paper Presented at the 54th Plains Anthropological Conference, Iowa City, Iowa, 1996.

"The Paul Sagers Archaeological Collection." Paper presented at the 36th annual meeting of the Midwest Archaeological Conference, La Crosse, Wisconsin, 1991.

"Economic Specialization and Regional Symbiosis: A New Perspective of Mississippian Craft Specialization." Paper presented at the 34th annual meeting of the Midwest Archaeological Conference, Iowa City, Iowa, 1989.

"An Evaluation of Oneota Lithic Technology from the Weaver Terrace Oneota Site (13LE59)." Paper presented at the 43rd Plains Anthropological Conference, Iowa City, Iowa, 1989.

"Summer Late Woodland Research in Southeastern Iowa." Paper presented at the fall meeting of the Iowa Archaeological Society, Indianola, Iowa, 1979.

"Preliminary Notes on the Sourcing of Oneota Obsidian from Eastern Iowa." Paper presented at the 27th annual meeting of the Iowa Archaeological Society, Decorah, Iowa, 1979.

"The Discovery of a Nineteenth-Century Iron Casket at Bellevue, Iowa." Paper presented at the 27th annual meeting of the Iowa Archaeological Society, Decorah, Iowa, 1979.

"Architectural Trends in Classic Mayan Civilization." Paper presented at the 27th annual meeting of the Iowa Archaeological Society, Decorah, Iowa, 1979.

"The Keystone Site: A Multicomponent Rockshelter in Eastern Iowa." Paper presented at the 26th annual meeting of the Iowa Archaeological Society, Indianola, Iowa, 1978.

**SUSAN GADE, RPA**  
*Project Manager/Principal Investigator*

**EDUCATION**

- M.S., Anthropology, University of Wisconsin-Milwaukee, 1987
- B.A., Anthropology, State University College of New York at Geneseo, 1980

**TECHNICAL TRAINING**

- Introduction to Federal Projects and Historic Preservation Law

**PROFESSIONAL AFFILIATIONS**

- Register of Professional Archaeologists
- American Cultural Resource Association
- Society for American Archaeology
- Society for Historic Archaeologists
- New York Archaeological Council
- New York State Archaeological Association
- Iowa Archaeological Society
- Northeast Anthropological Association

**PROFESSIONAL EXPERIENCE**

**2002-Present**                      **Co-Owner, President and Senior Archaeologist**  
**Landmark Archaeology, Inc.**  
**Altamont, New York**

Susan Gade is a professional archaeologist with 30 years experience in cultural resource management. As President and Senior Archaeologist, she has developed and implemented research designs for all levels of archaeological investigations. Her experience includes development of cultural resource management plans, development of historic contexts, EIS contributions, evaluation of archaeological resources in terms of NRHP criteria, and supervision of Section 106 projects. Some of the primary projects Ms. Gade has directed are listed below.

**Constitution Pipeline Wetland Mitigation, Broome, Chenango, and Schoharie Counties, New York, and Susquehanna County, Pennsylvania.** Principal Investigator, Phase I and II archaeological investigation of several wetland mitigation areas. For Kleinschmidt Associates.

**Photovoltaic Array Installation SUNY-Cobleskill, Schoharie County, New York.** Project Manager, Phase IA/IB archaeological investigations of a ground-based photovoltaic array installation on the SUNY-Cobleskill Campus. For the New York Power Authority.

**J.J. Astor Estate, Duffy Residence Development, Dutchess County, New York.** Project Manager/Principal Investigator, Phase I and II archaeological investigations of several prehistoric and historic archaeological sites on land within the Hudson River National Landmark District. For Robert C. Duffy.

**Schodack Island State Park New Campground Facility, Rensselaer County, New York.** Principal Investigator, Phase IB archaeological investigations of a proposed campground facility at Schodack Island State Park. For the New York State Office of Parks, Recreation and Historic Preservation.

**Freedom's Path Housing Complexes, Northport Veterans Affairs Medical Center Campus, Suffolk County, New York.** Project Manager, Phase I and II archaeological investigations of a prehistoric multicomponent Woodland site and eighteenth to twentieth centuries historic site. For J.M. Waller Associates, Inc.

**Maalwyck Park Additions and Improvements Project, Schenectady County, New York.** Project Manager/Principal Investigator, Phase I and II archaeological investigations of two prehistoric multicomponent Archaic and Woodland sites. For the Town of Glenville.

**North American Electric Reliability Corporation Facility Remediation Project, Clinton and Lewis Counties, New York.** Project Manager, Phase IA/IB archaeological investigation of remediation procedures at six locations. For the New York Power Authority.

**Schoharie Crossing State Historic Site, Montgomery County, New York.** Principal Investigator, Phase I archaeological investigations of prehistoric and nineteenth century historic deposits for a proposed parking lot. For the New York State Office of Parks, Recreation and Historic Preservation.

**North American Electric Reliability Corporation Facility Remediation Project, Albany and Schoharie Counties, New York.** Project Manager, Phase IA/IB archaeological investigation of remediation procedures at two locations. For the New York Power Authority.

**City of Saratoga Springs Waterfront Park, Saratoga County, New York.** Principal Investigator, Phase I, II and III archaeological investigations of a multicomponent prehistoric site at proposed park. For the City of Saratoga Springs.

**Cultural Resource Support for the Interim Action Clearance Program at New Boston Air Force Station, New Boston, New Hampshire.** Project Manager, archaeological investigations supporting mitigation of a former WWII/Cold War bombing and strafing range within a National Register Historic District in southern New Hampshire. For Shaw Environmental, Inc.

**Niagara Power Project, Niagara County, New York.** Project Manager, Photographic documentation of the west intake gate structure. For the New York Power Authority.

**Tyrone Crabb Park Project, Orange County, New York.** Principal Investigator, Phase I and II archaeological investigation of late eighteenth through twentieth century house sites at a proposed park. For the City of Newburgh.

**Red Hook Water System Improvements, Dutchess County, New York.** Principal Investigator, Phase IA/IB archaeological investigations of a water improvements corridor and well field. For the Village of Red Hook.

**Town of Poestenkill Water District, Rensselaer County, New York.** Principal Investigator, Phase IA, IB, and II archaeological investigations of eighteenth through late nineteenth century historic sites for a water line. For the Town of Poestenkill.

**Fort Ticonderoga, Essex County, New York.** Principal Investigator, Phase I and II archaeological investigations at Fort Ticonderoga. For Fort Ticonderoga Association.

**Broadway School African-American Cemetery Project, Orange County, New York.** Project Manager, Large-scale identification, documentation and exhumation of nineteenth century African-American burials in downtown Newburgh. For the City of Newburgh.

**Thomas Cole National Historic Site, Greene County, New York.** Principal Investigator, Phase I and II archaeological investigations of the nineteenth century deposits at Thomas Cole National Historic Site. For Barton and Loguidice, P.C.

**AME Zion Church Senior Housing, Richmond County, New York.** Principal Investigator, Phase I and II archaeological investigations the historic Sandy Ground National Register District. For Regan Development Corporation.

**Cambridge Firehouse, Washington County, New York.** Principal Investigator, Phase I archaeological investigations of a nine-acre parcel. For the Village of Cambridge.

**Halfmoon Town Park, Saratoga County, New York.** Project Manager/Principal Investigator, Phase I, II and III archaeological investigations of a late eighteenth and early nineteenth century historic site and Late Archaic prehistoric sites. For the Town of Halfmoon.

**1187-1201 Troy Schenectady Road Project, Albany County, New York.** Co-Principal Investigator, Phase I and II archaeological investigations of two prehistoric sites and one eighteenth century historic site. For C.T. Male, LLC and British American Development Corp.

**Glen Canal View Business Park, Montgomery County, New York.** Co-Principal Investigator, Phase II archaeological investigation of six prehistoric sites and one nineteenth century historic site. For Montgomery County Industrial Development Agency.

**Schuyler Hills Conservation Subdivision, Saratoga County, New York.** Principal Investigator, Phase I and II archaeological investigations of a Late Archaic site. For Willard F. Chamberlin Trust.

**Cambridge Central School District Bus Garage, Washington County, New York.** Principal Investigator, Phase I archaeological investigations of a proposed bus garage. For the Cambridge Central School District.

**Hidden Forest at Hurley, Ulster County, New York.** Co-Principal Investigator, Phase I archaeological investigations of a 411-acre, 652-unit, subdivision. For Lennar/ Hurley 209 Group, LLC.

**Clifton Park-Halfmoon Public Library, Saratoga County, New York.** Principal Investigator, Phase I, II, and III archaeological investigations of a Middle Archaic site. For the Clifton Park-Halfmoon Public Library.

**Charlton Town Hall, Saratoga County, New York.** Principal Investigator, Phase I and II archaeological investigations of a nineteenth century cheese factory. For the Town of Charlton.

**Culinary Institute of America, Dutchess County, New York.** Co-Principal Investigator, Phase I, II and III archaeological investigations of a multicomponent prehistoric and eighteenth through twentieth century historic site. For the Culinary Institute of America.

**Watervliet Reservoir, Albany County, New York.** Principal Investigator, Phase I study of proposed drainage improvements. For the Town of Guilderland.

**Melrose Whole Farm Plan, Onondaga County, New York.** Principal Investigator, Phase I study of proposed drainage improvements. For the Skaneateles Lake Watershed Agricultural Program.

**Four Wetland Development Projects, Otsego County, New York.** Principal Investigator, Phase I survey of four proposed project sites. For the Otsego County Soil and Water Conservation District.

**1999-2001**                    **Co-Director and Senior Archaeologist**  
**Cultural Resources Management Services**  
**Guilderland, New York and Maquoketa, Iowa**

As Co-Director and Senior Archaeologist for Cultural Resources Management Services (CRMS), Ms. Gade supervised all types of archaeological research and she was responsible for field investigations, artifact analyses, cultural interpretations, and NRHP determinations. Some of the larger projects involving site evaluations include:

**Baker Farm Subdivision, Otsego County, New York.** Co-Principal Investigator, Phase I study of a proposed subdivision along the banks of Canadarago Lake and Phase II site evaluation of a multicomponent prehistoric occupation. For TC Damon & Associates, Inc.

**Haywood Farms Cluster Subdivision, Rensselaer County, New York.** Principal Investigator, Phase I study of a housing development in North Greenbush. For P. Wehnau.

**Fort Dodge Mine, Webster County, Iowa.** Co-Project Director, Phase I study of proposed mine improvements and Phase II evaluations of a buried prehistoric site, Fort Dodge Mine. For Martin Marietta Aggregates.

**1997-1999**                    **Archaeologist/Principal Investigator**  
**Bear Creek Archaeology, Inc.**  
**Cresco, Iowa**

Ms. Gade served as a Principal Investigator for Bear Creek Archaeology, Inc, in eastern Iowa. In this role, she was responsible for Phase I field investigations, Phase II site evaluations, Phase III data recovery programs, historic artifact analysis, and report preparation. Examples of projects with which she was involved include:

**U.S. Highway 61, Muscatine County, Iowa.** Co-Principal Investigator, Phase III data recovery of a Late Woodland Camp, Eisele's Hill Locality. For the Iowa Department of Transportation.

**Iowa City Sanitary Sewer Improvements, Johnson County, Iowa.** Principal Investigator, Phase I and extended site evaluations of two prehistoric sites. For the City of Iowa City.

**Upper Mississippi River System Pool 17, Mercer County, Illinois.** Co-Principal Investigator, Phase I archaeological investigations of a dredge disposal site and Phase II evaluation of a prehistoric occupation. For the U.S. Army Corps of Engineers, Rock Island District.

1987-1999

**Senior Archaeologist/Principal Investigator  
Cultural Resource Group, Louis Berger & Associates, Inc.  
Marion, Iowa.**

As Senior Archaeologist and Principal Investigator for Louis Berger & Associates, Inc., Ms. Gade was responsible for the development of research designs, supervision of multidisciplinary research teams, all levels of field investigations, historic and prehistoric artifact analyses, and site evaluations and nominations. She conducted research on both prehistoric and historic archaeological sites across a wide geographical range. A sample of the projects for which she served as Principal Investigator includes:

**U.S. Highway 61, Jackson County, Iowa.** Principal Investigator, Phase III data recovery of two multicomponent Woodland sites and one nineteenth historic farmstead site. For the Iowa Department of Transportation.

**Sac and Fox Settlement School, Tama County, Iowa.** Principal Investigator, Phase I and II archaeological investigations of a mid-nineteenth century occupation. For the Meskwaki Nation of the Sac and Fox Tribe.

**Federal Correctional Complex, King County, Washington.** Principal Investigator, Phase IA cultural resource assessment of two proposed federal detention centers. For the U.S. Department of Justice, Federal Bureau of Prisons.

**Federal Correctional Complex, Forrest City, Arkansas.** Principal Investigator, Phase I investigations of a proposed federal correctional complex. For the U.S. Department of Justice, Federal Bureau of Prisons.

**Federal Correctional Complex, Yazoo County, Mississippi.** Principal Investigator, Phase IA cultural resource assessment of a proposed federal correctional complex, Yazoo City, Mississippi. For the U.S. Department of Justice, Federal Bureau of Prisons.

**Keokuk County Secondary Roads, Iowa.** Principal Investigator, Phase III data recovery of multicomponent prehistoric Archaic through Woodland site, Keokuk County, Iowa. For the Keokuk County Engineer.

**American Electric Power Company, Indiana, Michigan, and Virginia.** Principal Investigator, Phase IA cultural resource investigations of hydroelectric power plants in Michigan, Indiana, and Virginia. For the American Electric Power Company.

**U.S. Highway 61, Des Moines County, Iowa.** Principal Investigator, Phase III data recovery of mid- to late nineteenth-century rural house site, Des Moines County, Iowa. For the Iowa Department of Transportation.

**PROFESSIONAL EXPERIENCE: 1981-1987** Laboratory Supervisor, Crew Chief, Field Archaeologist for varied cultural resource management projects. Projects include Phase I, II, and III studies of historic and prehistoric sites in Delaware, Illinois, Iowa, Montana, New Jersey, New York, North Dakota, and Pennsylvania.