

**Phase IA and IB (Phase I) Cultural Resource Investigations for the  
Proposed North America Drive Warehouse-Distribution Complex,  
Town of West Seneca, Erie County, New York**

Prepared For

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May 11, 2022

By

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## **REPORT ACKNOWLEDGMENTS**

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## I. PHASE I MANAGEMENT SUMMARY

**Project Name:** Phase IA and IB (Phase I) Cultural Resource Investigations for the Proposed North America Drive Warehouse-Distribution Complex, Town of West Seneca, Erie County, New York.

**Project Description:** The proposed project encompasses the development of a warehouse and distribution complex along with associated parking, drainage, and utilities, within the Town of West Seneca, Erie County, New York. Approximately 44 acres / 17.8 hectares will be impacted by the proposed project and considered the Area of Potential Effect (APE).

**Project Location:** The proposed project is located at 6000 North America Drive, within the Town of West Seneca, Erie County, New York (042° 50' 35.04" N, 078° 43' 05.82" W). The project area can be accessed via North America Drive.

**County:** Erie County

**Minor Civil Division Number:** 02925 (Town of West Seneca)

**USGS 7.5 Minute Quadrangle Map:** 1969 USGS 7.5' Orchard Park, N.Y. Quadrangle

**SEQR Review:** Phase I Cultural Resource Investigations have been requested as part of a State Environmental Quality Review (SEQR).

**Involved State and Federal Agencies:** NYSDEC

### Survey Area

Acreage: 44 acres / 17.8 hectares

Depth: Undetermined

Number of Acres Surveyed: 44 acres / 17.8 hectares

### Archaeological Survey Overview

Number & Interval of Shovel Tests: 555 at 50-ft / 15-m intervals

Number & Size of Units: NA

Width of Plowed Strips: NA

Surface Survey Transect Interval: NA

### Results of Archaeological Survey

Closest Previously Recorded Site(s) to the APE: 2925.000481 / NYSM 1706, 1112-ft / 339-m from APE

Native American Burials Less Than 1/4-Mile from APE: 0

Number & Name of Prehistoric Sites Identified: 0

Number & Name of Historic Sites Identified: 0

Number & Name of Sites Recommended for Phase II / Avoidance: 0

### Results of Architectural Survey

Number of Buildings / Structures / Cemeteries Within Project Area (APE): 0

Number of Buildings / Structures / Cemeteries Adjacent Project Area (APE): 0

### SRHP/NRHP Historical Review

Number of Previously Determined NR Listed or Eligible Buildings / Structures / Cemeteries / Districts: 0

Number of Identified Buildings / Structures / Cemeteries / Districts: 0

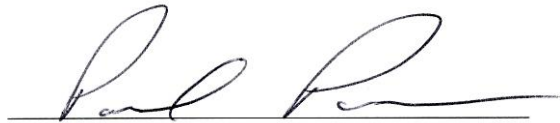


**Recommendations of Phase I Cultural Resource Investigations:** These Phase I Cultural Resource Investigations were performed only for the 44 acres / 17.8 hectares that were considered the Area of Potential Effect for the Proposed North America Drive Warehouse-Distribution Complex. All work was conducted in the Town of West Seneca, Erie County, New York. While the physiographic context of the APE seems to suggest that Native American habitation was possible, Phase I investigations yielded no evidence of prehistoric occupation. Neither Native American sites nor Euro-American sites were identified within the APE. Therefore, no sites were designated. Consequently, Powers Archaeology LLC believe that current development plans should be allowed to proceed, and that no further archaeological work is warranted.

**Date of Report:** May 11, 2022

**Report Prepared By**

Mr. Paul Powers

A handwritten signature in black ink, appearing to read "Paul Powers", is written over a horizontal line.

## **II. PHASE I PROJECT INFORMATION**

Powers Archaeology LLC was contracted to complete Phase I investigations for the Proposed North America Drive Warehouse-Distribution Complex, Town of West Seneca, Erie County, New York. The proposed project encompasses the development of a warehouse and distribution complex along with associated parking, drainage, and utilities at 6000 North America Drive, within the Town of West Seneca, Erie County, New York (Figures 1 & 2). Approximately 44 acres / 17.8 hectares will be impacted by the proposed project and considered the Area of Potential Effect (APE).

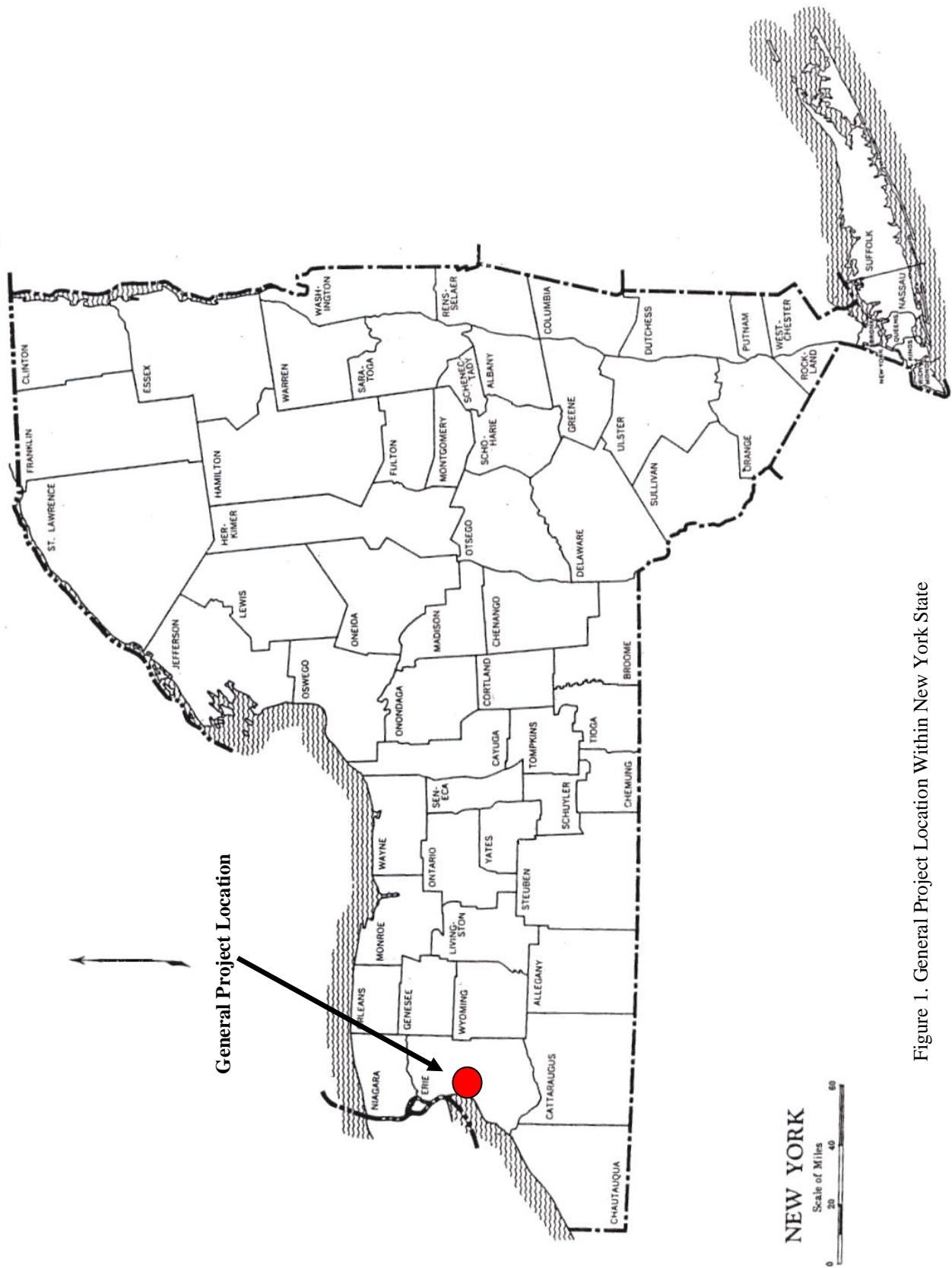


Figure 1. General Project Location Within New York State

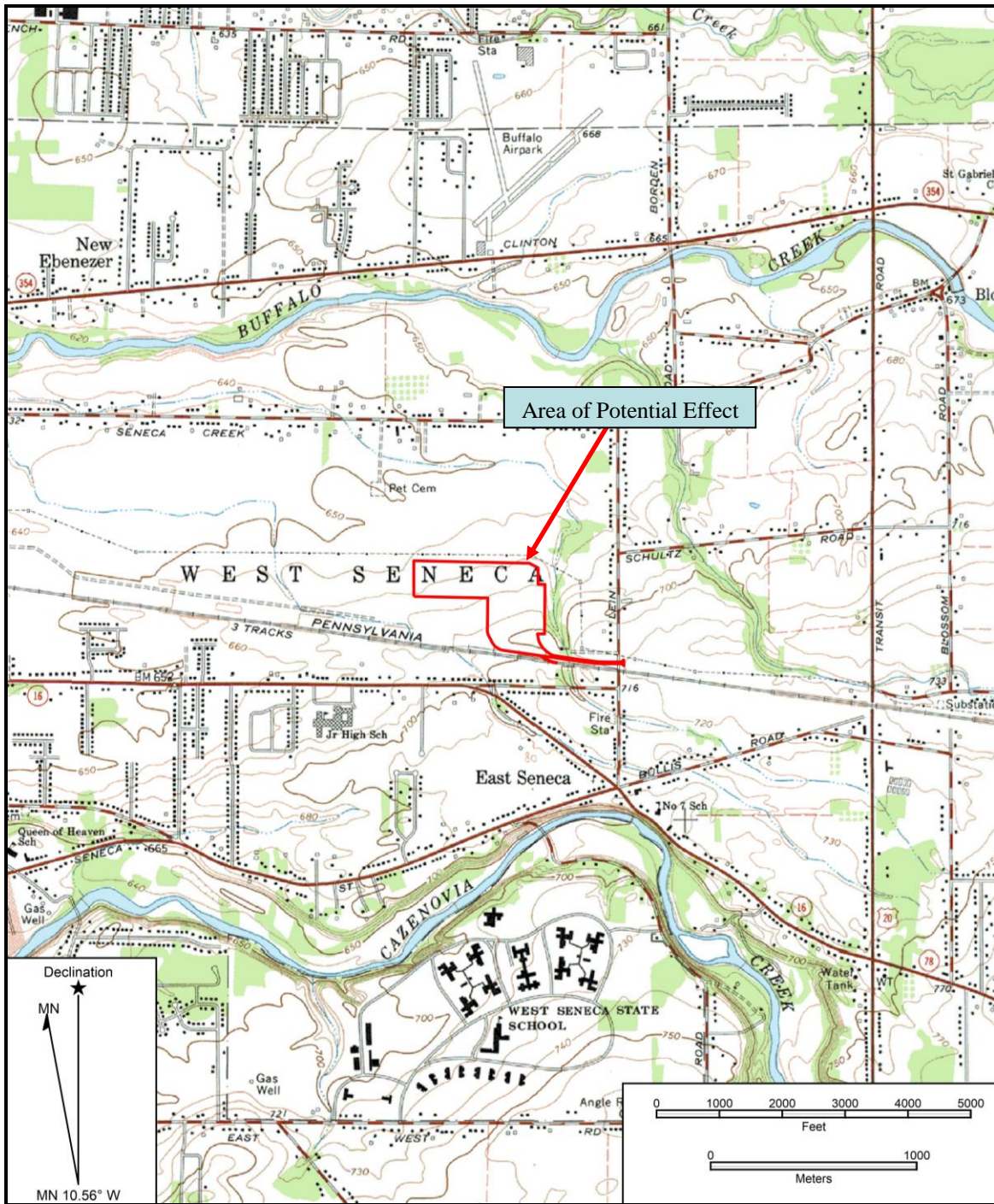


Figure 2. Area of Potential Effect on the 1969 USGS 7.5' Orchard Park, N.Y. Quadrangle

### III. ENVIRONMENTAL INFORMATION

#### **Topography and Geology**

The proposed project area is located in the central section of Erie County, New York, within the Erie-Ontario Lake Plain physiographic province. Elevations within Erie County range from 569-ft AMSL at Lake Erie to a maximum elevation of approximately 1,935-ft AMSL near Springville (USDA 1986:2). Elevations within the APE range from approximately 662 ft AMSL to 720 ft AMSL.

Streams have cut the topography of this area since the time the region was invaded by glacial ice from the north. During the Wisconsin glaciation of the Pleistocene epoch, ice blanketed the entire area of New York State. Ice erosion on this landscape rounded the existing hills, deepened the valleys, and steepened the valley walls in the southern parts of the area. Glacial deposits added the drumlins and kame moraines. The rock formations beneath Erie County are the source of the parent material for the soils. Erie County is underlain by sedimentary glacial bedrock. Queenston Shale is the oldest bedrock formation in Erie County, deposited 410 million years ago during the final stages of the Ordovician.

#### **Soils**

Soils in Erie County have developed in the period since glaciation and formed through the interaction of climate, living organisms, parent materials, topography, and time. The soils in Erie County were formed under a cool-humid climate, aiding in the organic growth found in the surface layer. The extensive forests that once covered the region provided most of the organic matter. Differences among soils in Erie County are the result of variation in parent materials and topography. The parent materials that created the soils in Erie County are glacial till, glacial outwash, glacio-lacustrine materials, recent alluvium, and organic materials.

Alluvial land/soil are sections of nearly level, recent unconsolidated deposits on flood plains. The deposits are generally stratified and range in matrix texture from gravel to sand and clay. Drainage commonly encountered in alluvial soils is generally poor to very poor in nature. Colluvium consisting of soil and/or rock travels down slope by gravity. This "slope wash" may, in some cases bury an A Horizon, a culturally rich soil layer.

There are three (3) soil types found within the APE, from the Cayuga (27.8 ac / 11.3 ha), Fluvaquents and Udifluvents complex (.1 ac / .04 ha), and Niagara (16.4 ac / 6.6 ha) soil series. These are found on lake plains, till plains, and flood plains, and from poor to moderately well drained (Table 1). The proposed APE for these cultural resource investigations contains one alluvial soil, the Fluvaquents and Udifluvents complex, however this soils only constitutes .1 ac / .04 ha of the APE within an area of existing roadway (Figure 3) and is not of concern.



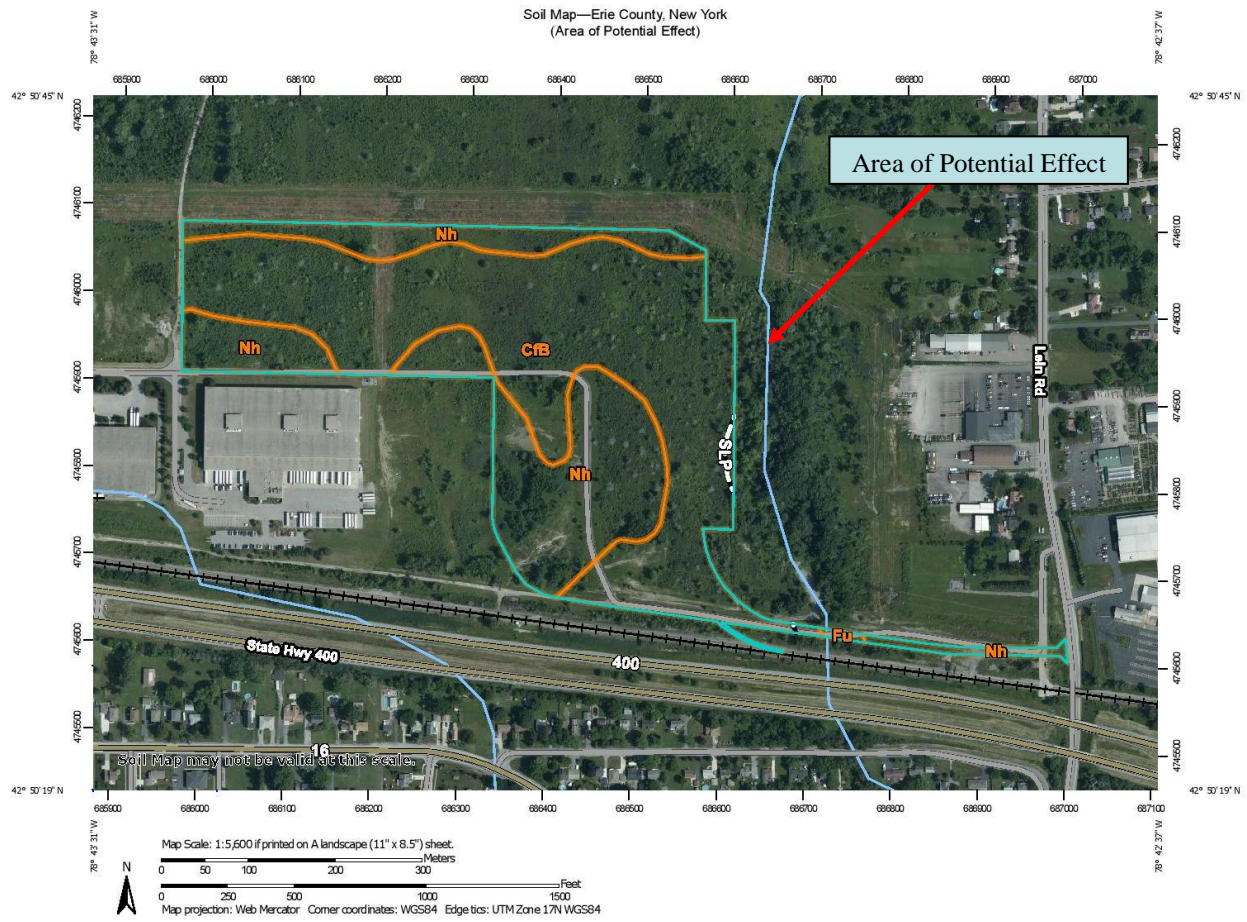


Figure 4. Area of Potential Effect on the 2022 NRCS Web Soil Survey

**Table 1. Summary of Soils Within the Area of Potential Effect**

Soil Name	Soil Horizon Depth cm (in)	Soil Color	Soil Texture Inclusions	Slope Percent	Drainage	Landform
Cayuga silt loam (CfB)	Ap 0-20 cm (0-8 in) E 20-30 cm (8-12 in) Bt 30-64 cm (12-25 in) 2C1 64-81 cm (25-32 in) 2C2 81-124 cm (32-49 in) 2C3 124-183 cm (49-72 in)	Dk GBrn Brn RBrn Brn Brn Brn	Si Lo Si Lo Si Cl Lo Grl F Sa Lo Grl Lo	3-8	Moderately well	Lake plains, till plains
Fluvaquents-Udfluvents complex, frequently flooded (Fu) (alluvial)	H1 0-13 cm (0-5 in) H2 13-178 cm (5-70 in)	--- ---	Grl Si Lo V Grl Si Lo	---	Poor	Flood plains
Niagara silt loam (Nh)	A 0-13 cm (0-5 in) E 13-36 cm (5-14 in) Bt1 36-43 cm (14-17 in) Bt2 43-78 cm (17-31 in) C 78-182 cm (31-72 in)	Dk GBrn GBrn Dk GBrn Dk GBrn Dk GBrn	Si Lo Si Lo Si Lo Si Lo Si Lo	0-3	Somewhat poor	Lake plains

**KEY: Shade:** Dk-Dark, Lt-Light, V-Very

**Color:** BGry-Brownish Gray, Blk-Black, Brn-Brown, GBrn-Grayish Brown, Gry-Gray, OBrn-Olive Brown, PBrn-Pale Brown, PGry-Pinkish Gray, RBrn-Reddish Brown, RGry-Reddish Gray, StrBrn-Strong Brown, RBrn-Red Brown, RGry-Reddish Gray, W-White, YBrn-Yellow Brown

**Soils:** Cl-Clay, Lo-Loam, Mu-Muck, Sa-Sand, Si-Silt

**Other:** BF-Broken Face, Co-Coarse, Cbs-Cobbles, Ex-Extremely, F-Fine, Grl-Gravel, M-Mottled, Pbs-Pebbles, Rts-Roots, Ru-Rubbed, Str-Stratified

**Disturbance**

Visual inspection of the area delineated as the APE for the proposed project reveals areas of potential significant disturbance. The southern section of the APE was subject cutting and filling activity, which is visually apparent (Appendix II: Photographs 22-27) and documented on aerial photographs from 1995 and 2002 (Figures 11 & 12). Additionally, a transmission line crosses the APE in the northwestern section (Appendix II: Photographs 5,6,33) and access roads are found within various portions of the APE (Appendix II: Photographs 1, 15-18, 29, 34, 36,38).

**Climate**

Erie County generally experiences warm summers and long, cold winters. The climate of Erie County is a humid continental climate. Yearly precipitation is about 37 inches. Approximately 50 percent of the annual precipitation is received during the growing season, April through September. Temperature and atmospheric conditions can change quite drastically within a few days due to the county’s location in the path of most major weather systems that travel across the continent or up the Atlantic coast. Lake Erie and Lake Ontario have an important effect on the climate of Erie County. Lake Erie and Lake Ontario provide a classic moderating effect on the local temperatures, helping to cool in the summer and warm in the fall.

**Forest Zone**

When people first arrived in the western part of New York State, most of Erie County was covered with a forest, with a few large open areas such as marshlands. Tree growth in Erie County depended on the soil type and drainage. In the wetter parts of Erie County, the land supported trees such as birch, beech, ash, elm, maple, willow, and hemlock. Today, few if any virgin timber areas remain in the county. Some of the more common species of weeds that reside in untended fields are goldenrod, ragweed, and Queen Anne’s lace (USDA 1986). Presently, vegetation within the APE consists of grasses, weeds, tertiary growth, and pockets of man-made wetland (Appendix II).

**Drainage**

Drainage for the Area of Potential Effect is provided by tributaries of Buffalo Creek, which flows west and drains the Buffalo River. The Buffalo River leads Lake Erie and subsequently into Lake Ontario via the Niagara River. Waters from Lake Ontario find their way to the Atlantic Ocean via the St. Lawrence River.

**Fauna**

The general environmental setting of the project area supports the typical array of animal species seen throughout suburban areas of western New York. These include white-tailed deer, opossum, squirrel, and raccoon. Early inhabitants of the western section of New York State would have been able to hunt black bear, white-tailed deer, elk, wild turkey, pheasants, pigeons, waterfowl, beaver, raccoons, possum, otter, rabbit, squirrel, and gray fox, as sources of food, fur, and raw materials used in tool manufacturing, common amenities, and for trade. Salmon, trout, perch and pike were also additional food sources.

**Man-Made Features / Alterations**

The southern section of the APE was subject cutting and filling activity, which is visually apparent (Appendix II: Photographs 22-27) and documented on aerial photographs from 1995 and 2002 (See figures 11 & 12). A transmission line also crosses the APE in the northwestern section (Appendix II: Photographs 5,6,33), while access roads are found within various portions of the APE (Appendix II: Photographs 1, 15-18, 29, 34, 36,38). Modern development and existing roadway are found directly adjacent to the APE.



#### IV. BACKGROUND RESEARCH

##### Site File Research

A check of the NYS site files encompassing a 1-mi / 1.6-km radius of the APE was completed utilizing the New York State Office of Parks, Recreation and Historic Preservation Cultural Resource Information System (NYSOPRHP CRIS). The site file check revealed the presence of nine (9) previously recorded sites (www.cris.parks.ny.gov). None of these sites fall within or directly adjacent to the APE. Site information is summarized in Table 2.

**Table 2. Sites Located Within a One-Mile Radius of the APE**

USN / NYSM #	Site Name	Site Type	Phase / Tradition	Status	Distance to APE ft / m
2925.000481 / NYSM 1706	Gardener Site	Lithic Scatter	Undetermined Prehistoric	Undetermined	1112 / 339
NYSM LP 6604	ACP ERIE NO #	Traces of Occupation	No Information	Undetermined	3038 / 926
NYSM LP 3370*	ACP GNSE NO #	Traces of Occupation	No Information	Undetermined	3304 / 1007
2912.000139	Roth Precontact Site	Lithic Scatter	Undetermined Prehistoric	Not Eligible	4140 / 1262
2925.000445	PCI/Ebenezer Woods-1	Camp / Stray Find	Archaic / Woodland	Not Eligible	4256 / 1297
2925.000413	4592 West Seneca Street Historic Site	Domestic Refuse	Historic Mid-20 <sup>th</sup> Century	Not Eligible	4734 / 1143
2925.000098	ERNST FARM PREHISTORIC SITE (LOCUS 1 AND LOCUS 2)	Lithic Scatter	Undetermined Prehistoric	Undetermined	4942 / 1506
2925.000060	SITE 3 PREHISTORIC SITE	Lithic Scatter	Early Woodland?	Undetermined	5041 / 1536
NYSM LP 6601	ACP ERIE NO #	Traces of Occupation	No Information	Undetermined	5190 / 1582

\* Potentially Mis-Mapped on the NYSOPRHP CRIS

##### SRHP / NRHP Research

According to the website for the National Register of Historic Places and the NYSOPRHP CRIS, three (3) structures fall within the vicinity (.25-mi / .40-km radius) of the proposed project area. All three (3) structures were deemed not eligible for the State and National Register. No structures fall within or adjacent to the APE for the proposed project. This information is summarized in Table 3.

**Table 3. State / National Register Sites in the Vicinity of the Area of Potential Effect**

USN / NR#	Name	Status
2925.000529	4928 Seneca St 14224	Not Eligible
2925.000400	East Middle School - 1445 Center Road 14224	Not Eligible
2925.000571	5145 Seneca St 14224	Not Eligible

**Previous Surveys**

Powers Archaeology LLC also completed a search for previous archaeological and building surveys conducted within a one-mile radius of the Proposed North America Drive Warehouse-Distribution Complex. Information gathered from the New York State Office of Parks, Recreation and Historic Preservation (NYSOPRHP) office revealed that thirteen (13) archaeological surveys were previously completed within a 1-mi / 1.6-km radius of the project area. None of these surveys fall within or adjacent to the current APE. Surveys are summarized in Table 4.

**Table 4. Surveys Previously Conducted Within a One-Mile Radius of the Area of Potential Effect**

Number	Name
00SR50894	Phase IA Archaeological and Historical Literature Search of the Areas Prepared for Development at the West Seneca Developmental Center, Town of West Seneca, Erie County, New York
01SR51715	PHASE I CULTURAL RESOURCE INVESTIGATIONS FOR THE PROPOSED NORTEL-NY CRICKET PROJECT FOR CRICKET PROJECT SITE BUF-071A (EAST SENECA) 445 SENECA CREEK ROAD TOWN OF WEST SENECA, ERIE COUNTY, NEW YORK
06SR57492	Phase IA Cultural Resources Investigation of the Buffalo Airfield Airport Master Plan, Town of West Seneca, Erie County, New York
08SR58519	Phase I Cultural Resources Investigation for the Proposed Seneca Street Senior Housing Project, Town of West Seneca, Erie County, New York
08SR58817	Phase I Cultural Resources Investigation for the Proposed Development, 2880 Transit Road at Schultz Road, Town of West Seneca, Erie County, New York
10SR60232	Phase I Cultural Resources Investigation of the Transit and Bullis Road Development and Phase II Archaeological Site Evaluation at the Roth Precontact Site, Town of Elma, Erie County, New York
12SR61106	Phase I Cultural Resource Investigation for the Proposed Subdivision at 862 Seneca Creek Road, Town of West Seneca, Erie County, New York
17SR00548	PHASE 1 CULTURAL RESOURCES INVESTIGATION FOR THE PROPOSED EBENEZER WOODS DEVELOPMENT At 4592 SENECA STREET, TOWN OF WEST SENECA, ERIE COUNTY, NEW YORK
17SR00618	PHASE 1 CULTURAL RESOURCES INVESTIGATION OF A THREE-ACRE SECTION OF AN 8.4-ACRE PROPERTY AT 2730 TRANSIT ROAD, TOWN OF WEST SENECA, ERIE COUNTY, NEW YORK
18SR56503	Phase 2 Site Examination of the Ebenezer Woods Site (02925.000445, UB 1814)
21SR00577	Cultural Resource Investigations of PIN 5753.53.109, the Reconstruction of the Border Road Bridge (BIN 3327020) (County Road 322) over Buffalo Creek, Town of West Seneca, Erie County, NY
94SR50016	Cultural Resource Sensitivity Assessment, Erie County Sewer District No. 1: Borden Road and Clinton Street Pump Stations, Force Main and Seneca Creek Road Interceptor, Town of West Seneca, Erie County, New York
99SR50253	Report of the Stage IA Literature Search and Cultural Resources Sensitivity Assessment for Proposed Sewage Infrastructure for the Micro Chip Fabrication Facility, Town of West Seneca, Erie County, New York

## **Prehistoric Context**

Prehistoric occupation of Western New York is likely to have occurred continuously for at least 12,000 years. Numerous changes in settlement patterns, subsistence strategies, population density, technology, and other aspects of human behavior have transpired through this time. The following section provides a general overview of these changes as documented in the archaeological record for the proposed project region. The Late Archaic, Late Woodland, and the Early Historic periods are more clearly understood in the New York State region than the Paleo-Indian Period.

### *Paleo-Indian Period (c. 10,000-8000 B.C.)*

Mastodons and megafauna (e.g., bison, elk, and deer) entered western New York upon the draining of glacial waters from the lowlands, and thereafter followed early man. The Paleo-Indians were nomadic hunters that traveled in small groups from campsite to campsite. Most Paleo-Indian sites found in New York State are small kill sites. Fluted flint spear projectile points and stone tools are indicative of this culture. Clovis points have been found in direct association with the bones of the mammoth, elephant, mastodon, and bison (Ritchie 1965:1). Traces of Paleo-Indian occupation sites are found in low marshy areas, on cliffs, and locations of higher elevations overlooking what once used to be lakebeds.

Climate change between 6000 B.C. and 4000 B.C. caused the vegetation to grow into forests that were unable to support the megafauna in the area. It is widely acknowledged that as the faunal and floral environment changed, the need for a greater food source for the large game animals caused their migration to new territories in the north, accompanied by the Paleo Indians. Subsequently, the people remaining in and or entering Western New York began to modify their lithic technology to accommodate their evolving environment. Radiocarbon dating has broadened the temporal limits of the Archaic Period to overlap with the Paleo-Indian stage in various parts of the United States (Ritchie 1965:31).

### *Archaic Period (c. 8000-1000 B.C.)*

The Archaic period is traditionally divided into three stages. The Early Archaic and Middle Archaic Periods range between 8000-4000 B.C., and the Late Archaic period from 4000-1000 B.C. As the environment changed, less specialized smaller groups of people entered the area. Archaic sites from 3000 B.C. are commonly found along Western New York rivers, lakes and streams. It is theorized that these peoples focused heavily on the marshlands, rivers, and streams to acquire food resources, since the forests were immature and resources poor. Despite this emphasis on aquatic ecozones, small mammals were also a considerable part of the Archaic diet.

Many Archaic sites identified in the western part of New York are small seasonal camps containing lithic and bone tools. The Archaic sites located in the central and northeastern section of New York State denote a culture based on subsistence hunting, fishing, and gathering. The Lamoka Lake site (Early Archaic) located in Schuyler County produced lithic, bone, and antler artifacts as well as animal and vegetable refuse, and human burials (Ritchie 1965:36). Atlatl weights, T-shaped drills, milling stones, choppers, pestles, and steatites bowls are indicative of the Middle Archaic Period (Laurentian & Susquehanna) (Ritchie 1965:146). The Lamoka, Bare Island, and Brewerton projectile points reveal some temporal overlap throughout the Archaic Period. However, they are most commonly associated with the Middle Archaic Period. Late Archaic aboriginal groups are noted for their manufacturing assortment and abundance of utilitarian, recreational, decorative, and ceremonial artifacts. The Kent-Hally Site located in the lower Susquehanna Valley provides the temporal placement of Bare Island projectile points within the Late Archaic (Ritchie 1965:146). As adaptation to the environment increased in the Late Archaic, tool modification and use adapted as well. As the alterations in bone and lithic tool manufacturing continued, the archaeological record reveals the production of smaller, side-notched projectile points (e.g., Snook Hill Site) (Ritchie 1965:136-137).

### *Transitional Period (c. 1500-1000 B.C.)*

The Transitional period bridges the change from the semi-nomadic, seasonal-based lifestyle of the Archaic to a more sedentary lifestyle marked by more permanent villages. It is during the Transitional Period that the emergence of earthenware ceramics, new varieties of projectile points, and carved soapstone pots appear in New York (Ritchie 1965:150). The Transitional Period campsites found in New York are all situated along streams and lakes, exactly as those of the Archaic and Woodland campsites (Ritchie 1965:154). The Susquehanna and Orient Fishtail projectile points are indicative of the Transitional cultural period. These projectile types and locations provide a good picture of the connection between the Late Archaic culture and the Early Woodland culture.

*Woodland Period (c. 1000 B.C.-1650 A.D.)*

The Woodland Period is separated into three phases: Early Woodland (1000 B.C. to 200 B.C.); Middle Woodland (200 B.C. to 1000 A.D.); and Late Woodland (1000 A.D. to 1600 A.D.). The Early Woodland Period introduces a new style of prehistoric ceramic known as Vinette I. The O'Neil Site excavated in 1961-62 located in Western New York is one the most significant Woodland sites in New York (Ritchie 1965:156). The O'Neil Site provided an in situ, uncontaminated recorded assemblage of soil stratigraphy as well as associated artifacts. The oldest soil strata were radiocarbon dated to around 2000 B.C., while the most recent layer was dated by artifacts associated with the Point Peninsula phase of the Middle Woodland culture. Vinette I sherds were recovered, as well as Susquehanna Broad projectile points. Smoking pipes, gorgets, birdstones, boatstones, bar amulets, copper ornaments, and copper tools also all appear within the Early Woodland cultural period (Ritchie 1965:179).

The design of pottery (i.e., scallop-shell, rocker-stamped) and clay pipes (i.e., elbow pipes) start to develop into more intricate types during the Middle Woodland Period (c. 200 A.D.). The Middle Woodland cultural period also introduces earth mounds and more elaborate burial practices. The Adena and Hopewellian cultural phases are represented during the Middle Woodland Period by the burial mounds, pits, and cremated burials found in western and Western New York. Corner-notched or straight-stemmed projectile points are indicative of the cultures from the Middle Woodland Period, as well as pitted hammerstones, anvil stones, net sinkers, steatite potsherds, and gorgets (Ritchie 1965:227).

The Late Woodland period (c. 1000 A.D.) is noted for permanent villages and a dependence on agriculture. Corn, beans, and squash become the staple crops during this time. Hunting, fishing, and gathering were still practiced even with the extensive adoption of agriculture. As the cultivation of tobacco increased in the area, clay pipes increased in number and styles. The Owasco and Iroquois cultures fall within the Late Woodland cultural period. The Owasco culture of New York is characterized by changes in ceramic styles and decoration (i.e., rocker-stamped to corded styles and pot lip styles). The Maxon-Derby Site located in Onondaga County was an open Owasco village / town found on the Maxon farm in 1959. The Maxon-Derby Site supplied evidence of a small, pre-Iroquoian village without fortification surviving over many years of occupation.

Gradual but continual changes in settlement patterns and travel methods brought about Iroquoian culture in New York. The transition from the Owasco culture to the Iroquois culture occurred sometime in the 13th century (Niemczycki 1984:9). Larger year-round settlements were now being established. The early Iroquois culture is marked by the emergence of high-collared ceramic vessels and multi-family longhouses. The increased isolation and competition of the surrounding tribes forced the development of the distinctive ceramic types and styles of the Iroquois prior to the formation of their confederacy (Niemczycki 1984:33). Late Woodland Period sites are noted for the appearance of palisades for defense against hostile neighbors, as well as for workshops, seasonal camps, deep storage pits, and ossuaries. Lithic tools such as bifaces and flake knives are also representative of the Late Woodland cultural period. The Sackett Site and the Bates Site excavated in the late 1950s and early 1960s are two examples of the settlement pattern change that occurred during the Late Woodland Period. These sites provided evidence of villages containing numerous dwelling structures (i.e., longhouses and wigwam-like structures) surrounded by palisades (Ritchie & Funk 1973:213-226). Both sites provide a good timeline for the transition between Late Iroquois culture and the Contact Period.

*Contact Period (c. 1500-1780 A.D.)*

The Contact Period is defined by the appearance of European trade goods on Native American sites. An increased use of trade metal (i.e., copper, iron, brass) and an intensification of the fur trade brought further changes to Native American cultures, particularly the Iroquois. Samuel Champlain's attack on the Iroquois in 1615 marks the first recorded conflict between Euro-Americans and the Native Americans in this region. More hostilities occurred when Jacques Rene de Brisay, Marquis de Denonville, governor of Canada, landed on Irondequoit Bay in 1687 and marched southward, destroying Iroquois villages and supplies. The Sullivan campaign ordered by General Washington to destroy the homelands of the Iroquois occurred in 1779. The French and Indian War (1744-1763 A.D.) and the American Revolution (1776-1783 A.D.) were the main causes for the loss of Iroquois political power in New York.

**Prehistoric Sensitivity Assessment**

The proposed APE is considered by Powers Archaeology LLC to have the potential to contain intact cultural deposits. Proximity to permanent water sources (i.e., Buffalo Creek and Cazenovia Creek), in conjunction with the previously documented sites encompassing and, in the vicinity, indicates the potential for a prehistoric and historic Native American presence surrounding the APE. When identified, previously recorded sites within a 1-mi / 1.6-km radius of the APE were described as Archaic or Woodland (Table 2). Archaic sites in the western and central parts of New York State consist of campsites and small hamlets near creeks and rivers, while Woodland sites are characterized by larger habitation sites situated on high hilltops and other defensible positions (Ritchie 1965). Native American site types likely to be encountered within the proposed project area could range from small camps / resource procurement sites or “traces of occupation,” consisting of very diffuse surface scatters of lithic material to larger habitation sites.

## Historic Context

### *Erie County*

Erie County is located at the western end of New York State. It is bounded to the north by Niagara County, to the east by Genesee and Wyoming counties, to the south by Cattaraugus and Chautauqua counties, and to the west by Lake Erie and Canada. Tonawanda Creek, the Niagara River, and Cattaraugus County comprise its northern, western, and southern borders, respectively (Johnson 1876). Erie County was once occupied by Iroquoian-speaking peoples including the Erie, Wenro and Neutral, until they were dispersed by the Seneca in the 17th century. Euro-American settlement in the area did not begin in earnest until after 1783, when the Seneca ceded these lands to the United States.

Erie County was part of Ontario County, which included most of western New York. In 1800, the Holland Land Company purchased these lands from New York and sold plots to settlers. In 1802, the state legislature split Genesee County from Ontario County, which itself was split in 1808 to form Niagara County. The first towns in Erie County were Clarence and Willink, the latter of which was later subdivided. Erie County was split from Niagara County in 1821. The City of Buffalo, incorporated as city in 1832, is the county seat (Johnson 1876). The county owes much of its growth in the 19<sup>th</sup> century to the opening of the Erie Canal, of which Buffalo served as the western terminus, connecting New York State to other burgeoning settlements on the Great Lakes. Agriculture and heavy industries, especially steel making in the Buffalo area, brought economic and demographic growth. Today, Erie County is a hub for higher education, medical research, and hi-tech manufacturing.

### *Town of West Seneca*

#### *The Town of West Seneca*

Located northwest of the center of Erie County, West Seneca is bounded to the north by the Town of Cheektowaga and the City of Buffalo, to the south by the Towns of Hamburg and East Hamburg, and to the west by Buffalo and Lake Erie. Buffalo Creek runs from east to west across the northern part of the town, Cazenove Creek flows in the same direction across the central part, and Smoke's Creek provides drainage for the southwestern corner (Johnson 1876).

After being driven from their home territory by the Sullivan Expedition in 1780, a group of Seneca located settled near what is now Buffalo, while a group of Onondaga settled near what would later become Lower Ebenezer, and a group of Cayuga settled north near Cayuga Creek. This territory would become known as the Buffalo Creek Reservation (Smith 1884). The Seneca ceded all their former territory in Western New York to the United States after the Treaty of Big Tree in 1797, except for twelve reservations, including Buffalo Creek (Houghton 1920; Town of West Seneca 2022; Smith 1884). A council house near what was once a line of the Buffalo, New York, and Philadelphia Railroad functioned as the reservation's seat of government. Two principal roads went through the reservation, one along the lake shore and the other from Buffalo to East Aurora. A later road opened from East Hamburg south of Cazenove Creek facilitated later Euro-American settlement of the township (Smith 1884).

Several tracts were sold off from the reservation in 1826, and a few white settlers were allowed to build homes and a tavern in the area. In 1838, the Seneca signed the Treaty of Buffalo Creek, forcing them to sell the reservation and move to new reservations in Wisconsin and Oklahoma (Houghton 1920). Buffalo Creek's sale was contested by factions within the reservation, but majority decision to sell the reservation was reached in 1842, and the Seneca removed to reservations at Cattaraugus and Allegany in 1843-1844 (Smith 1884). The former reservation lands were purchased by the Ogden Company, which began dividing and selling them (Johnson 1876; Smith 1884). The southern portions of what would become West Seneca were once part of the Town of Hamburg, which included East Hamburg, and settlement of these areas came largely by people in those neighboring towns attracted by cheap land (Johnson 1876; Smith 1884).

In 1842-1843, the company sold 5,000 acres in the north and central part of what is now West Seneca to "The Community of Inspiration," a Lutheran sect known colloquially as the "Ebenezers" (French 1860; Town of West Seneca 2022). This group later purchased an additional 2,622 acres to extend their holdings east into what is now the Town of Elma. Almost 2,000 new settlers arrived from Germany, most of them from Prussia and Hesse, between 1844 and 1845 (Johnson 1876; Smith 1884). Many of these new residents lived in the old Seneca cabins before building new frame homes, and many surviving buildings from the period are located in the vicinity of Indian Church Road, School Street, and South Avenue (Town of West Seneca 2022).

The Community of Inspiration held beliefs and religious practices similar with the Quakers. However, the settlements were managed by a board of managers known as “elders.” The elders assigned workloads, directed laborers to various locations, determined what buildings would be built, and what crops would be grown. All property, goods, food, and labor were held in common for use by all members (Smith 1884; Town of West Seneca 2022). Early houses in the villages housed several families, who cooked in a large kitchen and ate at communal tables, although each family had its own bedroom. Both women and men performed agricultural labor (Smith 1884). The Community’s agricultural and industrial products were well-regarded for their quality in the Buffalo area (Johnson 1876; Smith 1884).

The sect established two principal villages and two hamlets. *Lower Ebenezer*, near the center of the town, consisted of a church, a sawmill and gristmill, a tannery, and 50 homes, while *Middle Ebenezer* (now known as Gardenville) was located one-and-a-half miles north, and consisted of a church, calico printing and wool factories, a sawmill and oil mill, and nearly 70 homes (French 1860). Other settlements included *Upper Ebenezer* in what is now Elma, and *New Ebenezer* - a cotton and woolen factory, a dye works and nine houses - on Buffalo Creek above Middle Ebenezer. In addition, *Reserve*, *West Seneca Center*, and *West Seneca* were later localities demarcated by railroad post offices (French 1860; Smith 1884).

Despite the Community’s economic success, many of its younger members grew unsettled by the group’s extreme discipline, while influences from German and other communities in nearby Buffalo led to a general climate of social unrest between the Community and their neighbors (Smith 1884). The Community’s managers put the settlement up for sale and purchased a large tract of land near Amana, Iowa in 1856. Their members moved there in a piecemeal fashion, finally removing completely from Erie County by 1864 (Smith 1884). The Ebenezers’ former lands were purchased almost exclusively by Germans, creating a distinct heritage within West Seneca (Johnson 1876).

Officially incorporated in October 1851 as “Seneca,” the town added “West” to its name in the following year to avoid confusion with the Town of Seneca in Ontario County (Johnson 1876). A move to name the town “Red Jacket,” after the famed Seneca chief, had failed to gain traction in the town legislature (Johnson 1876). Except for the industries established by the Ebenezers, West Seneca remained largely agricultural through the 19th and 20th centuries (Smith 1884). Today, the town is a heavily suburbanized bedroom community for nearby Buffalo.

### **Historic Sensitivity Assessment**

Accelerated population growth related to new industries and the use of the area as a bedroom community for Buffalo is shown by the dramatic increase in new residential and commercial structures within the existing population centers and along what were once rural roads. In general, development within the project area and the general vicinity appears to mirror regional growth. It should be noted that the scale and accuracy of 19<sup>th</sup>-century and early 20<sup>th</sup>-century maps can be questionable compared to modern maps and surveys because they frequently lack the accuracy of location and scale present in modern surveys. Therefore, the location of the APE and recorded structures should be regarded as approximate. It appears that the APE has been used for agricultural purposes throughout the 19<sup>th</sup> and most of the 20<sup>th</sup> century (Figures 4-10). There are no extant or Map Documented Structures (MDS) or extant structures within the APE (Figures 4-13). Some modification to the landscape and disturbance within the southwest section of the APE is visible on the 1995 and 2002 aerial photographs (Figures 11 & 12). Given the lack of MDS and extant structures, it is likely that historic cultural material encountered will be found as the result of secondary deposition.

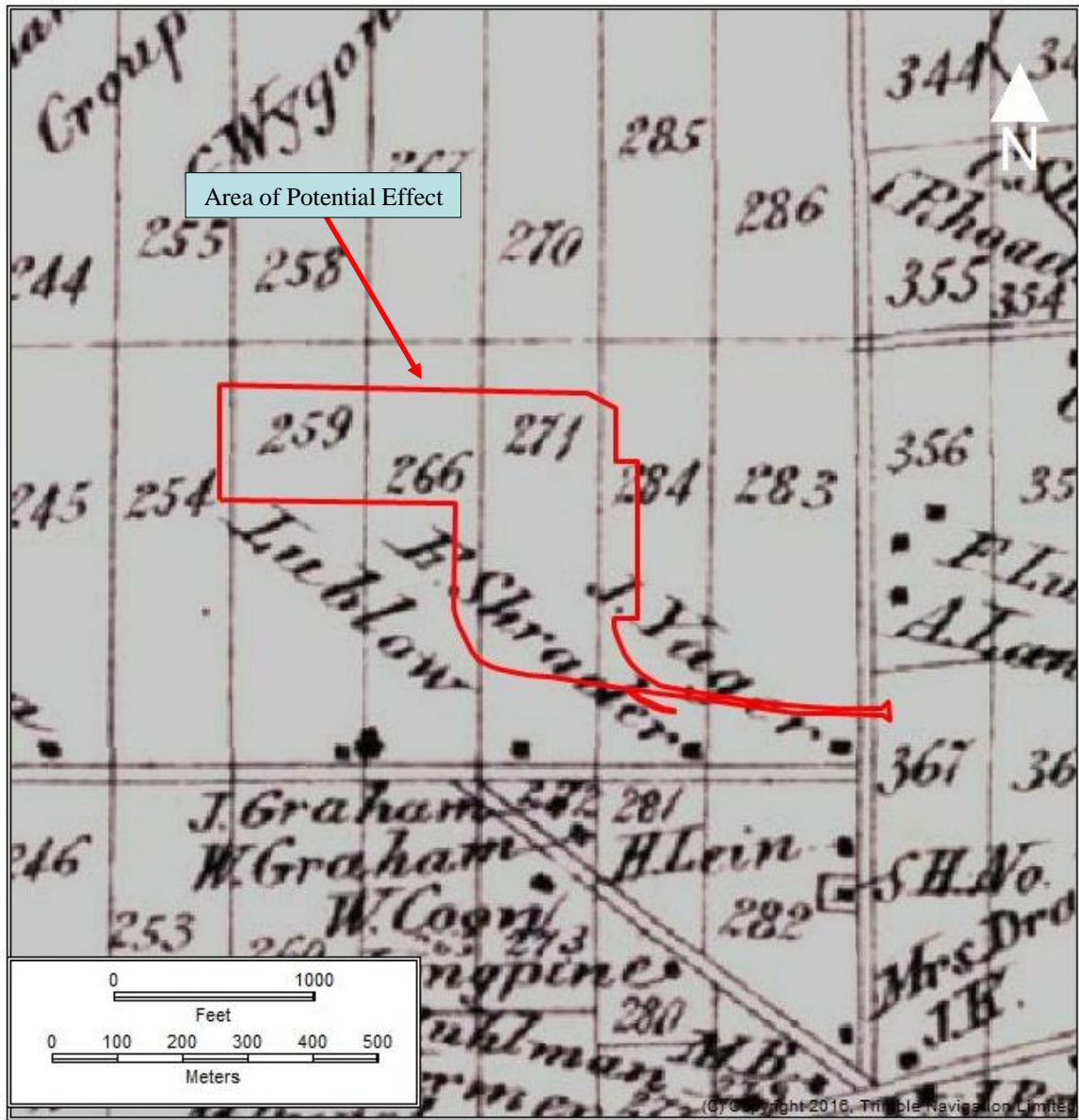


Figure 4. Area of Potential Effect on the 1866 Stone and Stewart Atlas of Erie County, New York





Figure 5. Area of Potential on the 1880 Beers Atlas of Erie County, New York



Figure 6. Area of Potential Effect on the 1909 Century Map Co. *Atlas of Erie County, New York*

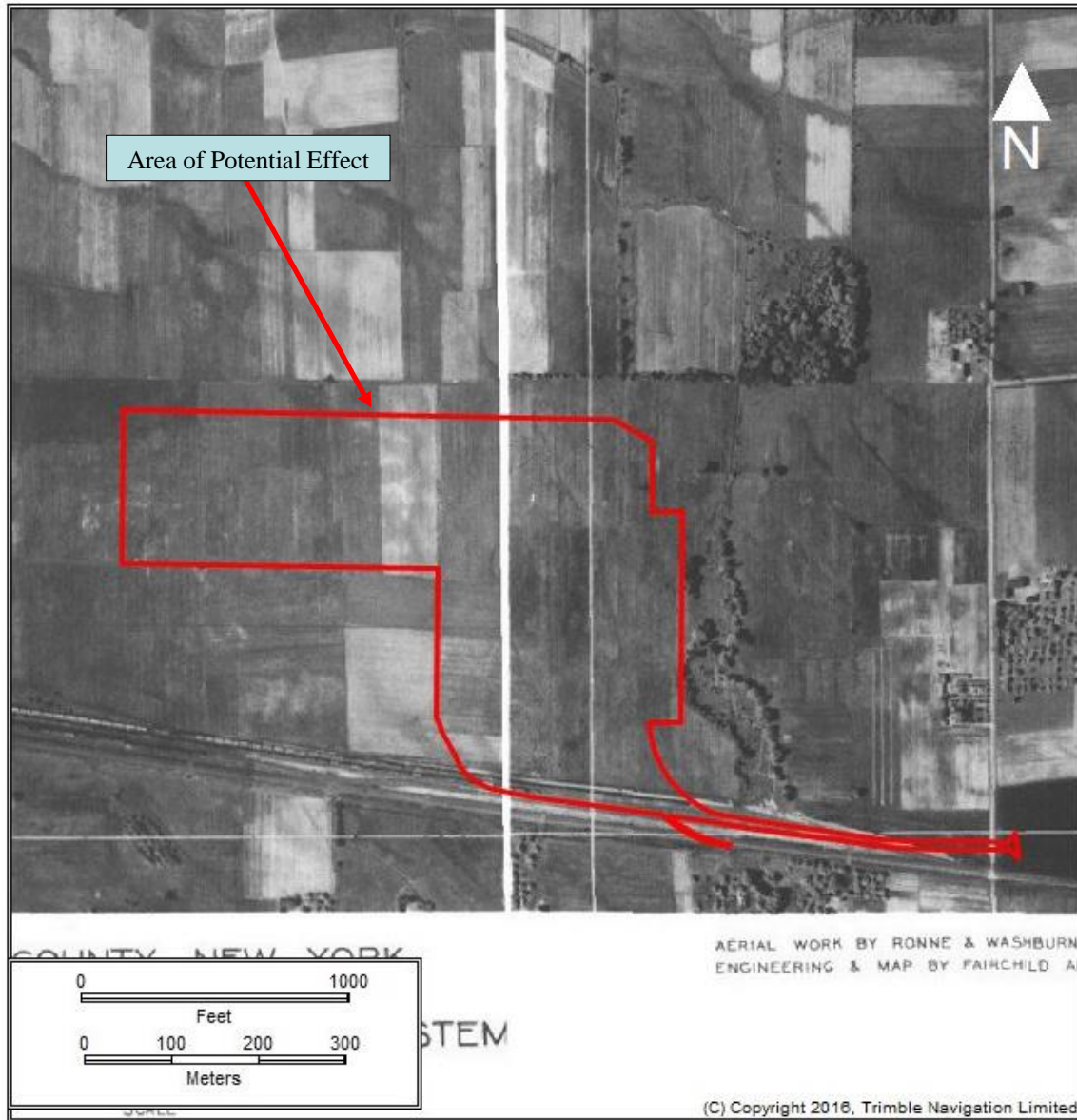


Figure 7. Area of Potential Effect on the 1927 Erie County Public Works - Division of Highways Aerial Photograph



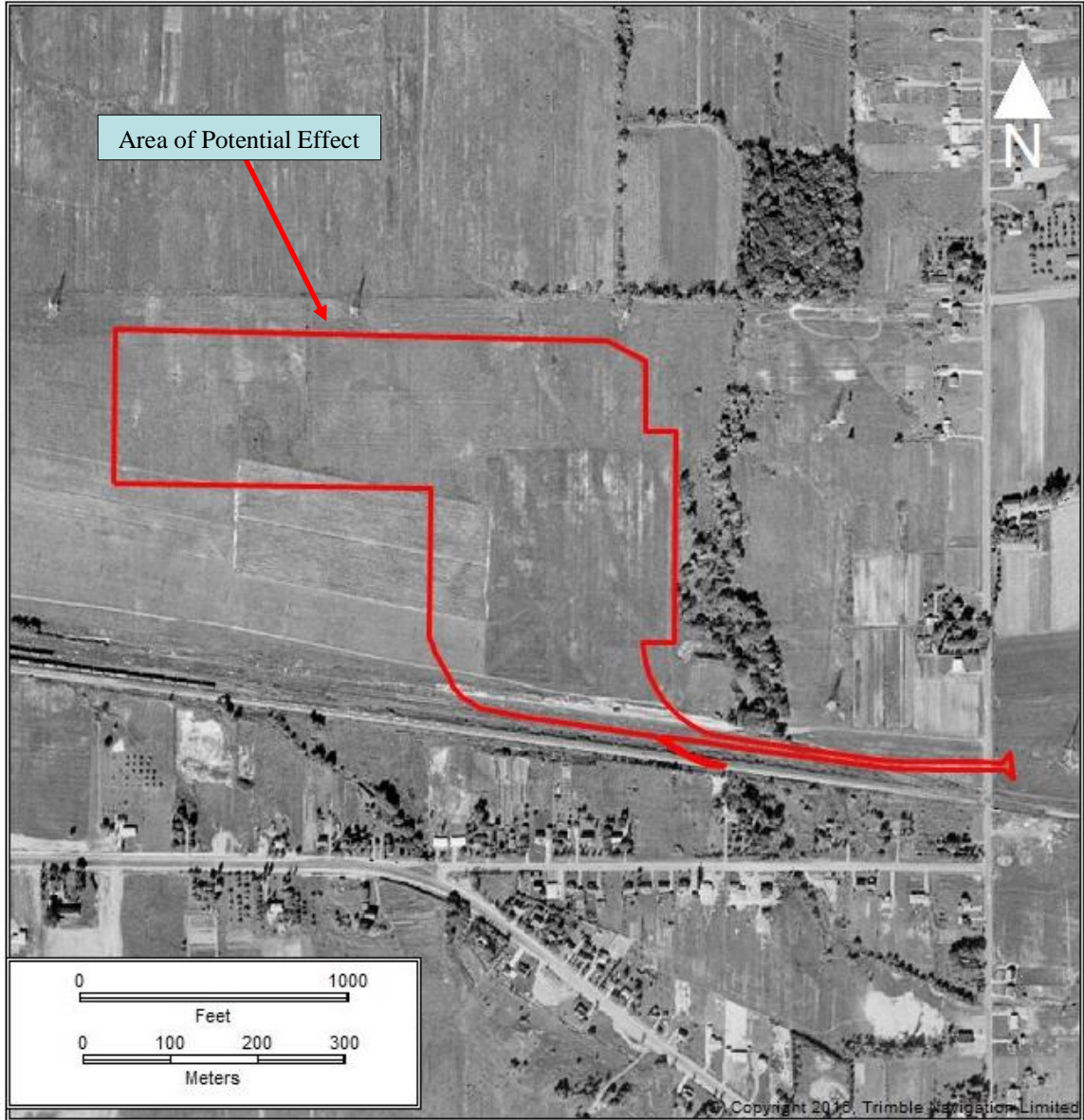


Figure 8. Area of Potential Effect on the 1958 USDA Aerial Photograph

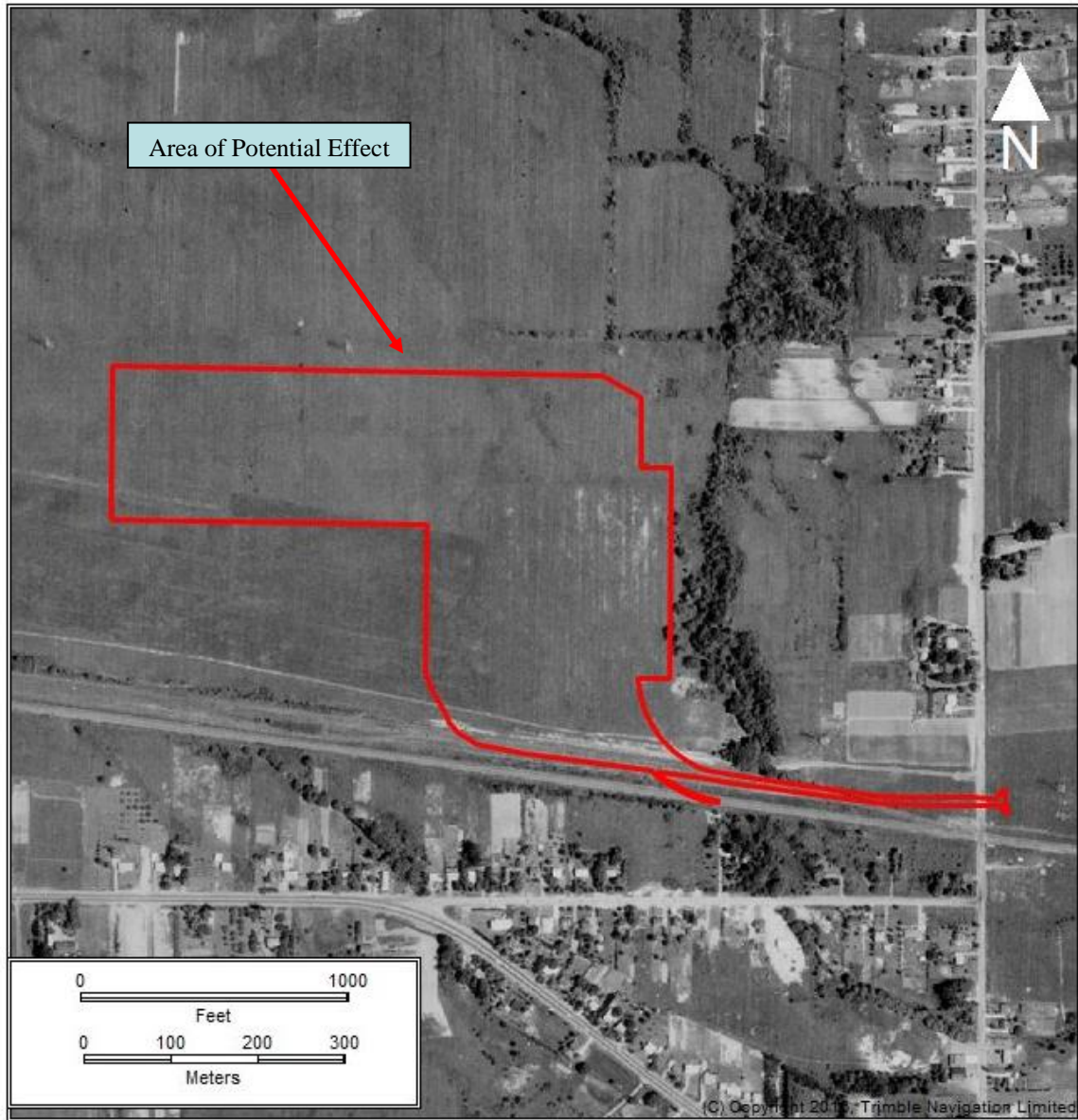


Figure 9. Area of Potential Effect on the 1966 USDA Aerial Photograph

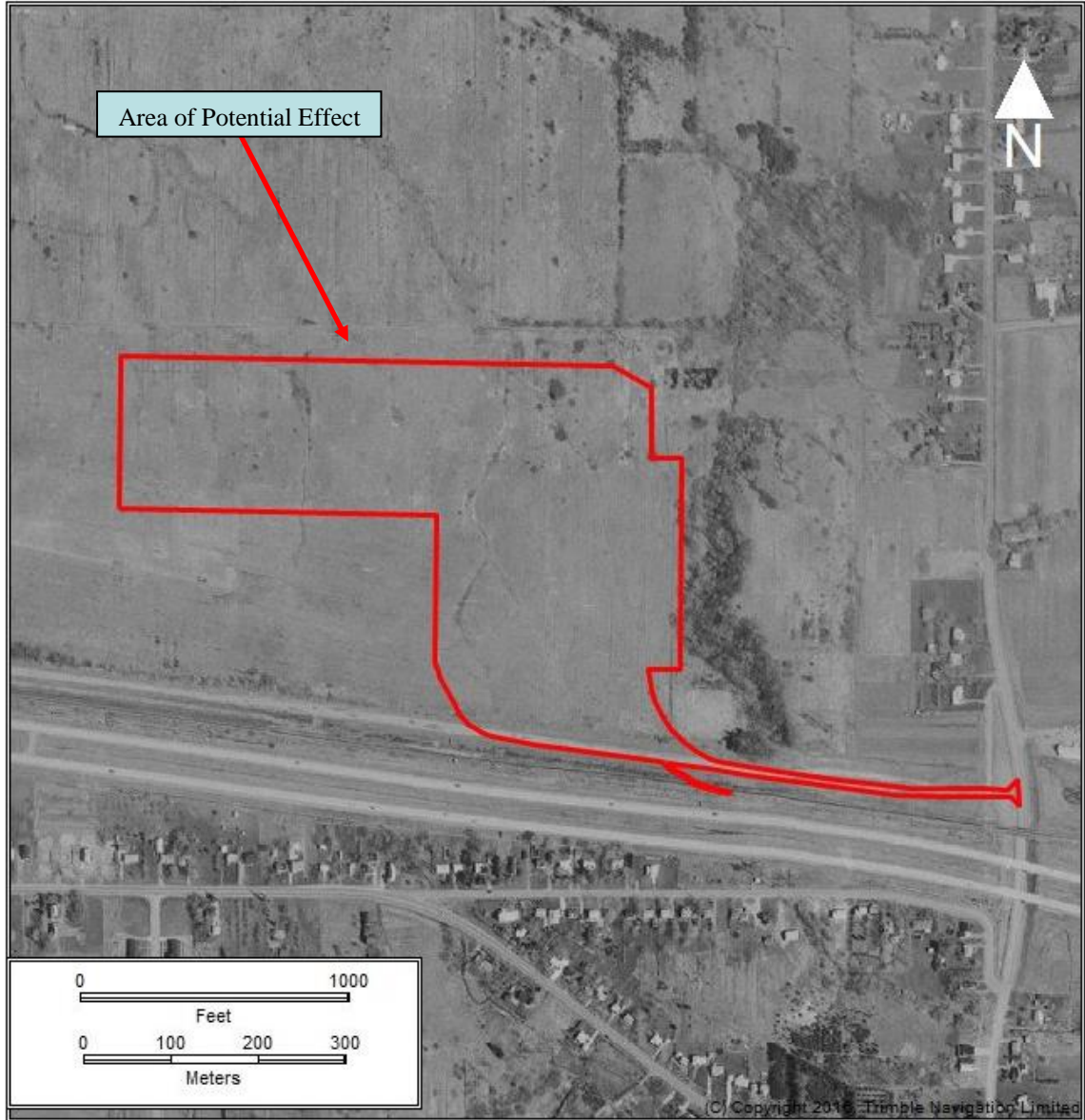


Figure 10. Area of Potential Effect on the 1974 USGS Aerial Photograph





Figure 11. Area of Potential Effect on the 1995 USGS Aerial Photograph



Figure 12. Area of Potential Effect on the 2002 USGS Aerial Photograph



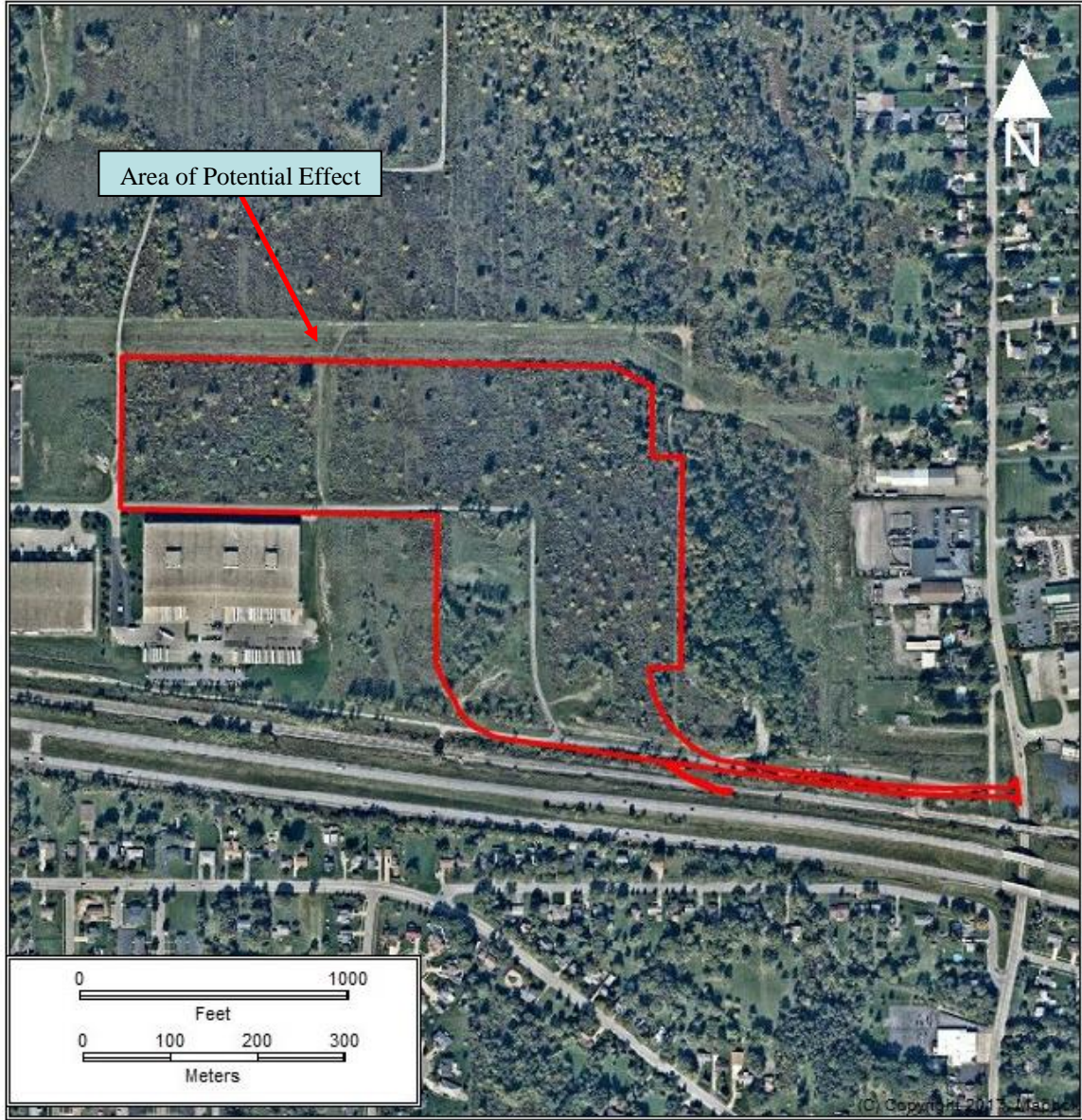


Figure 13. Area of Potential Effect on the 2019 USGS Aerial Photograph

## V. PHASE IB ARCHAEOLOGICAL INVESTIGATIONS

### Archaeological Survey Team / Date

The Powers Archaeology LLC archaeological field team consisted of Paul Powers, Deanna Crane, Taylor Walders, Olivia Markovitz, and Matthew Bognaski. The Phase IB testing was conducted in April and May of 2022.

### Ground Conditions

Physical conditions within the APE consists primarily of fallow field including grasses, weeds, tertiary growth, and pockets of man-made wetland (Appendix II).

### Field Methodology

A site visit included a visual examination of the project area to ascertain whether any sections showed evidence of prior disturbance, wetlands, or excessive slope. Approximately 4.5 acres / 1.8 hectares were identified as significantly disturbed within the APE (Figures 11, 12, and Appendix I). Therefore, approximately 39.5 acres / 16 hectares within the 44-acre / 17.8-hectare APE were deemed testable using standard Phase IB testing methods.

The Phase IB field investigations strategy for this project consisted of shovel testing (Appendices I & III). Shovel test placement was determined using project maps provided to Powers Archaeology LLC, research completed during Phase IA investigations and conditions observed during the initial field inspection. Shovel test units were plotted at 50-ft / 15-m intervals throughout the APE (n=555). Transects were oriented with a magnetic compass and paced out depending on the project area field conditions. Hand-held GPS units were used to verify accuracy. Shovel tests were excavated by hand and measured a minimum of 1 ft x 1 ft / 30 cm x 30 cm in diameter. Each test was excavated to sterile subsoil or having exceeded 20 in / 50 cm in depth. All soils excavated were screened through 1/4-in metal mesh to recover any cultural material that may have been present. Soil types and textures were recorded in field notebooks. Documentation of existing conditions within the APE as well as that of general vicinity was accomplished through photography (Appendix II).

### Artifact Descriptions

There were no artifacts recovered during these Phase I excavations.

### Problems Encountered

There were no problems encountered during these Phase I excavations.

### Shovel Test Results

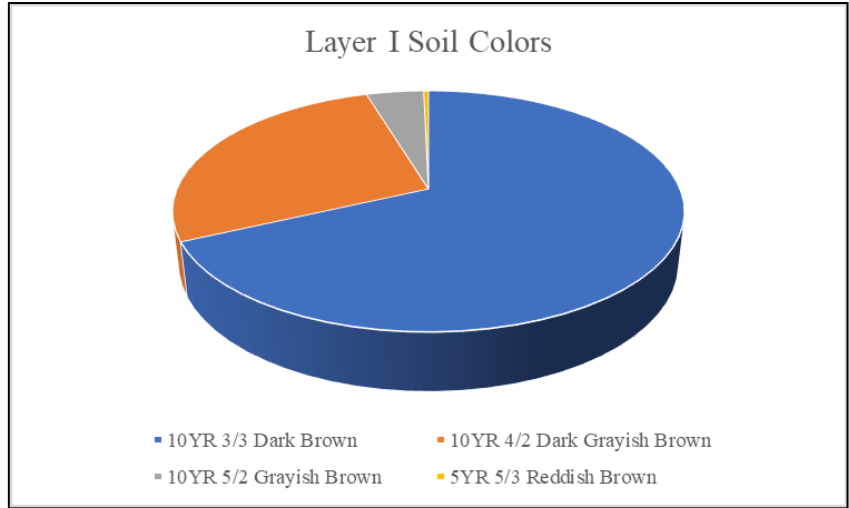
The APE was subjected to subsurface testing as part of these Phase I investigations. sixty (60) transects containing a total of 555 shovel tests were placed within the APE (Appendices I and III). While testing the proposed APE, 546 (98%) of the 555 shovel tests excavated reached a second layer. The excavation of 9 (2%) shovel tests was halted with a layer I exceeding 20 in / 50 cm below surface (Appendix III). Soils encountered in the STPs were generally those expected as outlined as a typical profile by the *Soil Survey of Erie County* (USDA 2022), though variations were recorded. No cultural material was recovered from any of the 555 shovel tests excavated.

*Layer I*

Layer I averaged 11 inches / 27 cmbs, with a maximum depth of 28 in / 72 cmbs recorded. Variations in soil color may be the result of mixed A and B horizons, varying moisture levels within the soil, and disturbance. The following tables summarize soil color and consistency within Layer I (Tables 5 and 6).

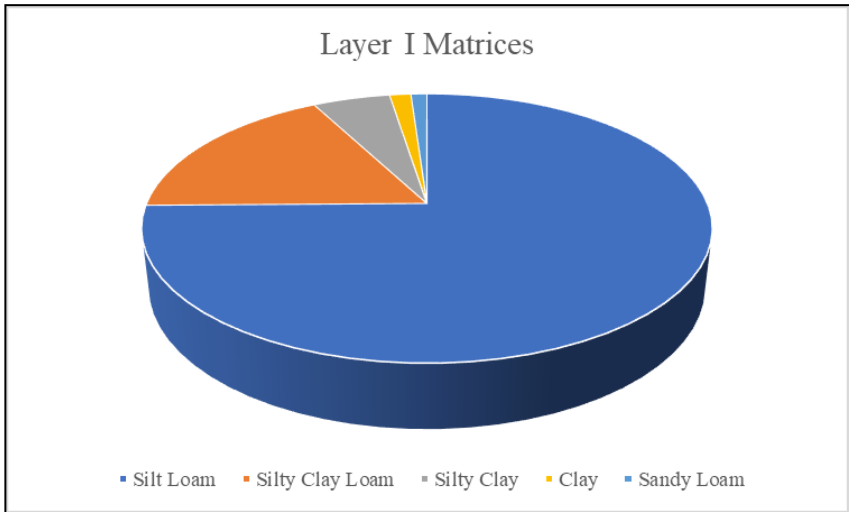
**Table 5. Layer I Soil Colors**

10YR 3/3 Dark Brown	68.11%
10YR 4/2 Dark Grayish Brown	27.21%
10YR 5/2 Grayish Brown	4.32%
5YR 5/3 Reddish Brown	0.36%



**Table 6. Layer I Soil Matrices**

Silt Loam	74.77%
Silty Clay Loam	17.48%
Silty Clay	5.23%
Clay	1.44%
Sandy Loam	1.08%

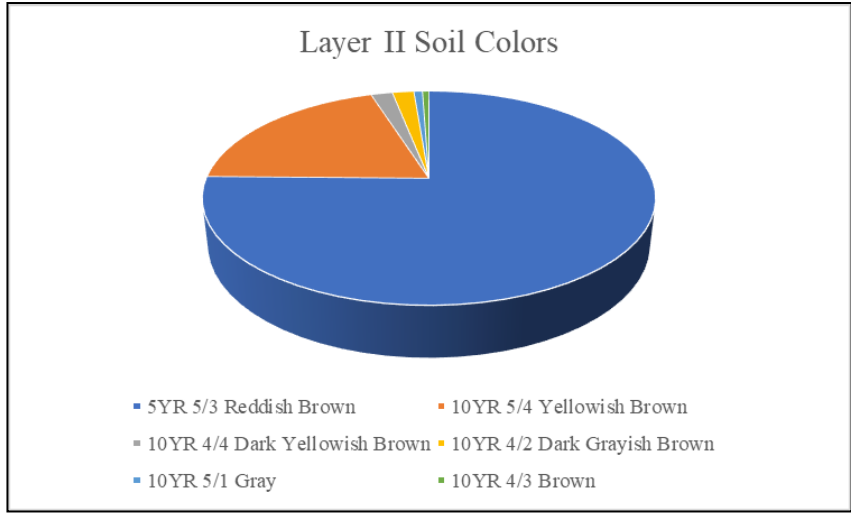


*Layer II*

Layer II consisted of B horizon soils. Layer II was excavated to an average depth of 15 in / 38 cmbs, with a maximum depth reached of 28 in / 70 cmbs. The following tables summarize soil color and consistency within Layer II (Tables 7 and 8).

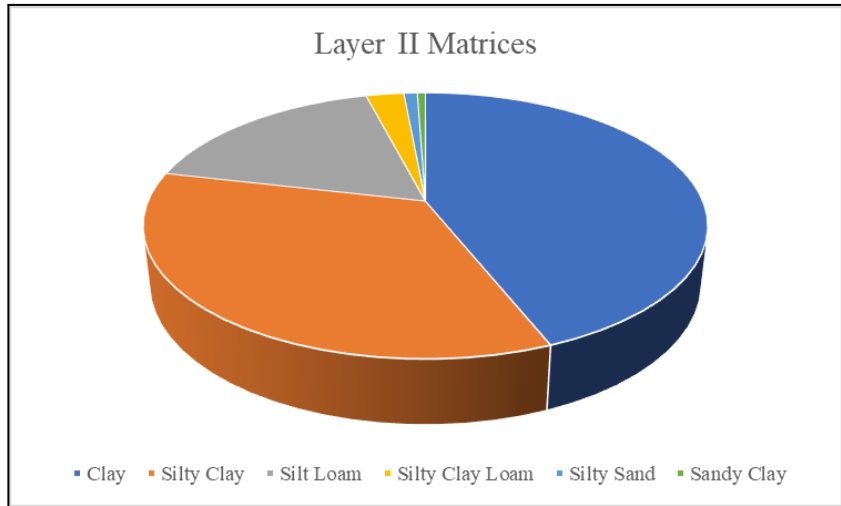
**Table 7. Layer II Soil Colors**

5YR 5/3 Reddish Brown	75.27%
10YR 5/4 Yellowish Brown	19.78%
10YR 4/4 Dark Yellowish Brown	1.83%
10YR 4/2 Dark Grayish Brown	1.83%
10YR 5/1 Gray	0.73%
10YR 4/3 Brown	0.55%



**Table 8. Layer II Soil Matrices**

Clay	43.59%
Silty Clay	34.43%
Silt Loam	17.22%
Silty Clay Loam	2.56%
Silty Sand	0.92%
Sandy Clay	0.55%



## **VI. TESTING RECOMMENDATIONS**

These Phase I Cultural Resource Investigations were performed only for the 44 acres / 17.8 hectares that were considered the Area of Potential Effect for the Proposed North America Drive Warehouse-Distribution Complex. All work was conducted in the Town of West Seneca, Erie County, New York. While the physiographic context of the APE seems to suggest that Native American habitation was possible, Phase I investigations yielded no evidence of prehistoric occupation. Neither Native American sites nor Euro-American sites were identified within the APE. Therefore, no sites were designated. Consequently, Powers Archaeology LLC believe that current development plans should be allowed to proceed, and that no further archaeological work is warranted.

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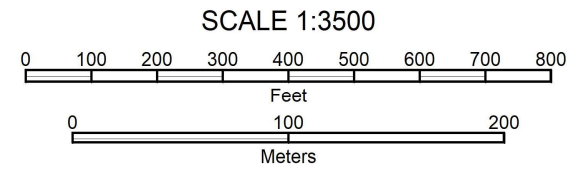
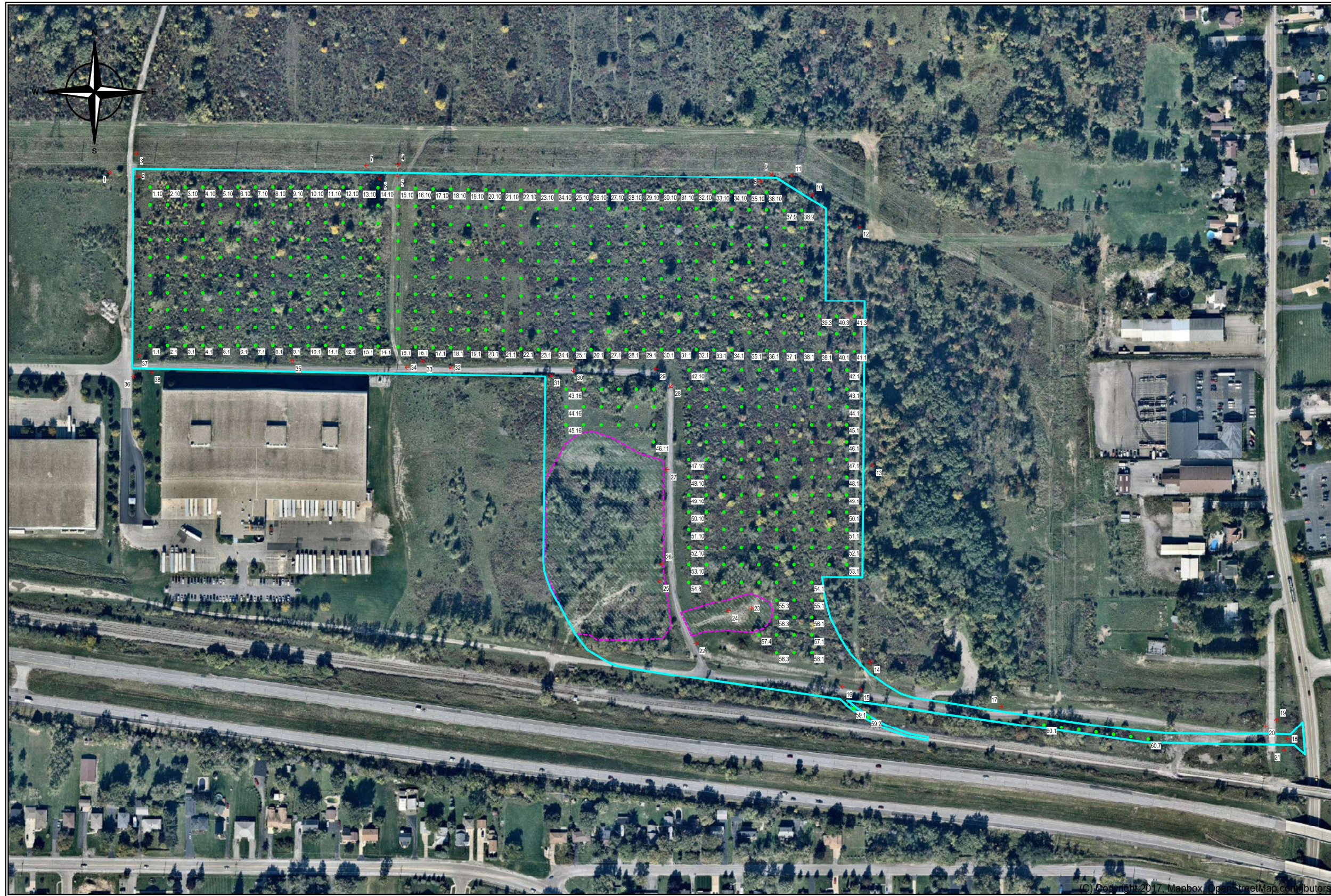
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# **Appendix I**

## **Project Maps**





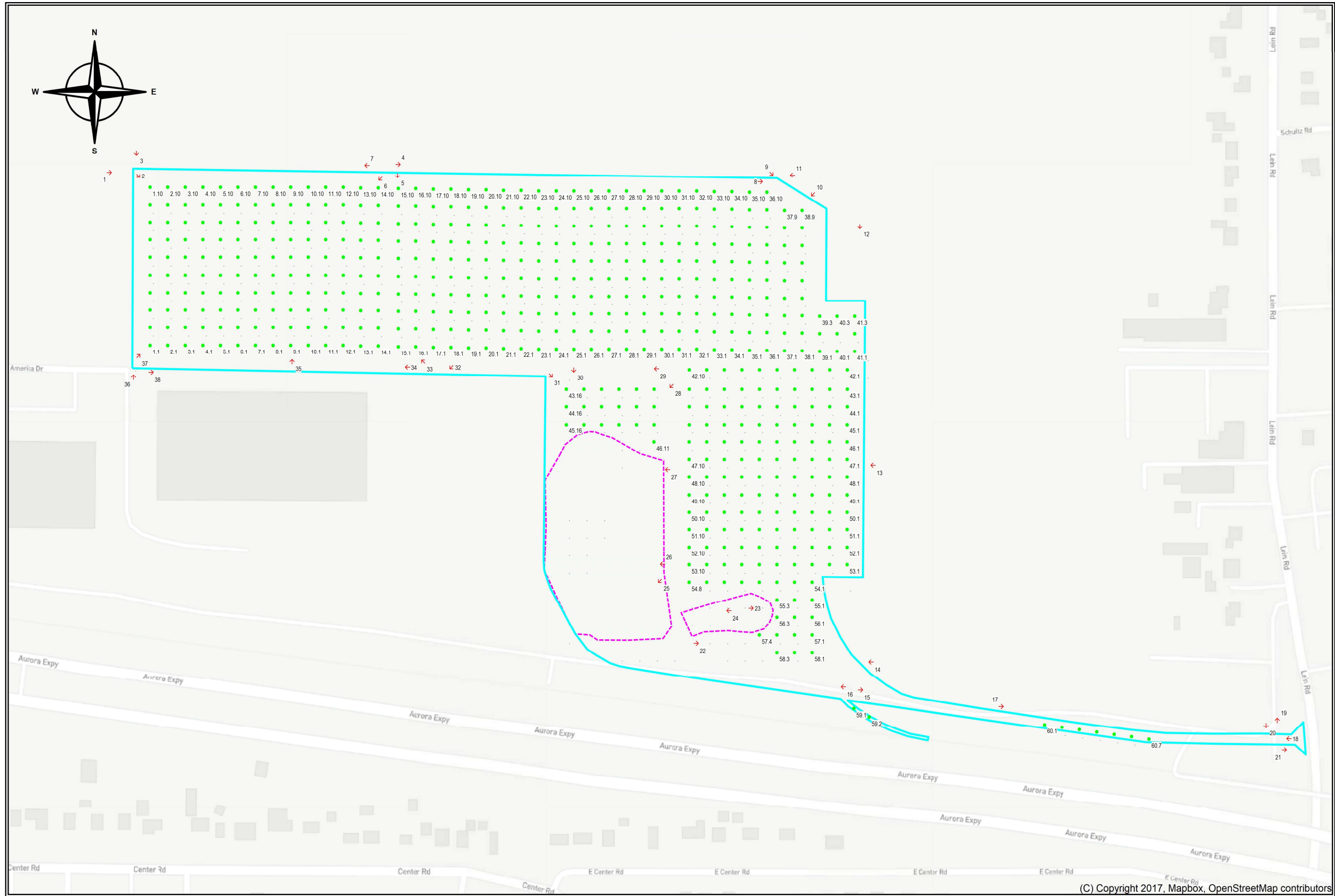
- Legend:
- APE Boundary
  - Disturbed (Cut / Fill)
  - Negative Shovel Test
  - ➔ Photograph Location

Powers Archaeology LLC  
 Phase IA and IB (Phase I) Cultural Resource Investigations for the  
 Proposed North America Drive Warehouse-Distribution Complex,  
 Town of West Seneca, Erie County, New York

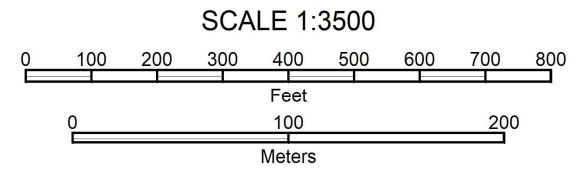
Map #1  
 Project on 2019 USGS Aerial Photograph

(C) Copyright 2017, Mapbox, OpenStreetMap contributors





(C) Copyright 2017, Mapbox, OpenStreetMap contributors



- Legend:
- APE Boundary
  - - - Disturbed (Cut / Fill)
  - Negative Shovel Test
  - Photograph Location

Powers Archaeology LLC  
 Phase IA and IB (Phase I) Cultural Resource Investigations for the  
 Proposed North America Drive Warehouse-Distribution Complex,  
 Town of West Seneca, Erie County, New York

Map #2  
 Project on Terrain Navigator Base Map

**Appendix II**  
**Project Area Photographs**



Photograph 1. APE and northern boundary from the northwest corner of the APE, looking east.



Photograph 2. APE from the northwest corner of the APE, looking southeast.





Photograph 3. APE and access road from the northeast corner of the APE, looking south.



Photograph 4. APE and northern boundary, looking east.





Photograph 5. APE from the northern boundary, looking south.



Photograph 6. APE from the northern boundary, looking south / southwest.





Photograph 7. APE and northern boundary, looking west.



Photograph 8. APE in the northeast corner, looking east.





Photograph 9. APE in the northeast corner, looking southeast.



Photograph 10. APE in the northeast corner, looking southwest.





Photograph 11. APE and northern boundary from the northeast corner, looking west.



Photograph 12. General project vicinity east of the APE including gas line, looking south.





Photograph 13. APE from the eastern boundary, looking west.



Photograph 14. APE along the southern boundary, looking west.





Photograph 15. APE and existing southern access road, looking east.



Photograph 16. APE and existing southern access road, looking west.





Photograph 17. APE and existing southern access road, looking east.



Photograph 18. APE from easternmost point of access road, looking west.



Photograph 19. General vicinity north of the APE from easternmost point of access road, looking north.

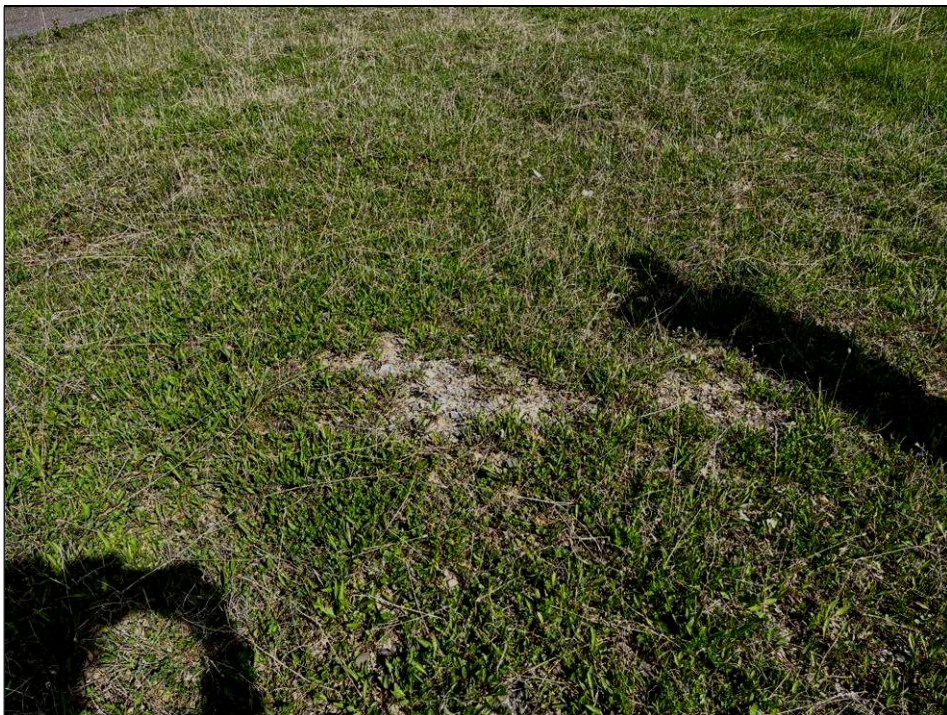


Photograph 20. General vicinity south of the APE from easternmost point of access road, looking south.





Photograph 21. APE and general vicinity east of the APE from easternmost point of access road, looking east.



Photograph 22. Exposed gravel within the APE, looking down.





Photograph 23. APE including push-pile, looking east.



Photograph 24. APE including push-pile, looking west.





Photograph 25. APE in disturbed area, looking southwest.



Photograph 26. APE in disturbed area, looking west.





Photograph 27. APE in disturbed area, looking west.



Photograph 28. APE from access road, looking southwest.





Photograph 29. APE including access road, looking west.



Photograph 30. APE from access road, looking south.





Photograph 31. APE from access road, looking southeast.



Photograph 32. Access road and general vicinity south of the APE, looking west / southwest.



Photograph 33. APE from access road, looking northwest.



Photograph 34. APE and access road, looking west.





Photograph 35. APE and access road, including existing water line, looking north.



Photograph 36. APE from intersection of North America Drive and access road, looking north.





Photograph 37. APE from intersection of North America Drive and access road, looking northeast.



Photograph 38. APE from intersection of North America Drive and access road, looking east.



**Appendix III**  
**Shovel Test Data**

Trans	Shovel Test	Level	Depth Below Surface (CM)	Soil Color	Soil Matrix (Primary)	Soil Matrix (Secondary)	Artifacts Recovered	Comments
1	1	I	24	Dark Brown	Silty Clay Loam		No Cultural Material (NCM)	
1	1	II	40	Reddish Brown	Clay		NCM	
1	2	I	23	Dark Grayish Brown	Silt Loam		NCM	
1	2	II	34	Reddish Brown	Clay		NCM	
1	3	I	27	Dark Brown	Silty Clay Loam		NCM	
1	3	II	40	Reddish Brown	Clay		NCM	
1	4	I	29	Dark Grayish Brown	Silt Loam		NCM	
1	4	II	42	Reddish Brown	Clay		NCM	
1	5	I	31	Dark Grayish Brown	Silt Loam		NCM	
1	5	II	42	Reddish Brown	Silt Loam		NCM	
1	6	I	31	Dark Grayish Brown	Silt Loam		NCM	
1	6	II	42	Reddish Brown	Silty Clay		NCM	
1	7	I	24	Dark Grayish Brown	Silt Loam		NCM	
1	7	II	37	Reddish Brown	Silty Clay		NCM	
1	8	I	26	Dark Grayish Brown	Silt Loam		NCM	
1	8	II	37	Dark Yellowish Brown	Silty Clay		NCM	
1	9	I	22	Dark Grayish Brown	Silty Clay		NCM	
1	9	II	36	Reddish Brown	Silty Clay		NCM	
1	10	I	34	Dark Brown	Silt Loam		NCM	
1	10	II	45	Reddish Brown	Clay		NCM	
2	1	I	28	Dark Grayish Brown	Silt Loam	Rocks	NCM	
2	1	II	39	Reddish Brown	Silty Clay		NCM	
2	2	I	22	Dark Brown	Clay		NCM	
2	2	II	35	Reddish Brown	Clay		NCM	
2	3	I	29	Dark Grayish Brown	Silt Loam		NCM	
2	3	II	48	Reddish Brown	Clay		NCM	
2	4	I	24	Dark Brown	Clay		NCM	
2	4	II	40	Reddish Brown	Clay		NCM	
2	5	I	22	Dark Brown	Clay		NCM	
2	5	II	38	Reddish Brown	Clay		NCM	
2	6	I	25	Dark Brown	Silt Loam		NCM	
2	6	II	36	Yellowish Brown	Silt Loam		NCM	
2	7	I	40	Dark Brown	Silt Loam		NCM	
2	7	II	50	Reddish Brown	Silty Clay		NCM	
2	8	I	38	Dark Brown	Silt Loam		NCM	
2	8	II	48	Yellowish Brown	Silt Loam		NCM	
2	9	I	22	Dark Brown	Silt Loam		NCM	
2	9	II	32	Yellowish Brown	Silt Loam		NCM	
2	10	I	28	Dark Brown	Silt Loam		NCM	
2	10	II	38	Reddish Brown	Silty Clay		NCM	
3	1	I	27	Dark Brown	Silt Loam		NCM	
3	1	II	39	Yellowish Brown	Silt Loam		NCM	
3	2	I	30	Dark Brown	Silt Loam		NCM	
3	2	II	40	Reddish Brown	Silty Clay		NCM	
3	3	I	26	Dark Brown	Silt Loam		NCM	
3	3	II	36	Reddish Brown	Silty Clay		NCM	
3	4	I	31	Dark Brown	Silt Loam		NCM	
3	4	II	48	Reddish Brown	Clay		NCM	
3	5	I	25	Dark Grayish Brown	Silt Loam		NCM	
3	5	II	42	Dark Yellowish Brown	Silty Clay		NCM	
3	6	I	24	Dark Grayish Brown	Silt Loam		NCM	

Trans	Shovel Test	Level	Depth Below Surface (CM)	Soil Color	Soil Matrix (Primary)	Soil Matrix (Secondary)	Artifacts Recovered	Comments
3	6	II	50	Dark Yellowish Brown	Silty Clay		NCM	
3	7	I	24	Dark Brown	Silt Loam		NCM	
3	7	II	47	Reddish Brown	Silty Clay		NCM	
3	8	I	58	Dark Grayish Brown	Silty Clay Loam		NCM	
3	9	I	29	Dark Brown	Silt Loam		NCM	
3	9	II	41	Yellowish Brown	Silty Clay		NCM	
3	10	I	27	Dark Brown	Silt Loam		NCM	
3	10	II	49	Reddish Brown	Silty Clay		NCM	
4	1	I	27	Dark Brown	Silty Clay Loam		NCM	
4	1	II	48	Reddish Brown	Clay		NCM	
4	2	I	24	Dark Brown	Silty Clay Loam		NCM	
4	2	II	40	Yellowish Brown	Clay		NCM	
4	3	I	28	Dark Brown	Silt Loam		NCM	
4	3	II	38	Reddish Brown	Clay		NCM	
4	4	I	22	Dark Brown	Silty Clay Loam		NCM	
4	4	II	35	Reddish Brown	Clay		NCM	
4	5	I	26	Dark Brown	Silty Clay Loam		NCM	
4	5	II	37	Reddish Brown	Clay		NCM	
4	6	I	23	Dark Grayish Brown	Silty Clay Loam	Rocks	NCM	
4	6	II	36	Yellowish Brown	Clay		NCM	
4	7	I	25	Dark Grayish Brown	Silty Clay Loam		NCM	
4	7	II	42	Yellowish Brown	Clay		NCM	
4	8	I	21	Dark Grayish Brown	Silty Clay Loam		NCM	
4	8	II	34	Yellowish Brown	Clay		NCM	
4	9	I	22	Dark Grayish Brown	Clay		NCM	
4	9	II	38	Reddish Brown	Clay		NCM	
4	10	I	8	Dark Grayish Brown	Clay		NCM	
4	10	II	30	Reddish Brown	Clay		NCM	
5	1	I	24	Dark Brown	Silt Loam		NCM	
5	1	II	34	Reddish Brown	Clay		NCM	
5	2	I	21	Dark Grayish Brown	Silt Loam		NCM	
5	2	II	31	Reddish Brown	Clay		NCM	
5	3	I	19	Dark Grayish Brown	Silt Loam		NCM	
5	3	II	29	Reddish Brown	Silty Clay		NCM	
5	4	I	27	Dark Brown	Silty Clay		NCM	
5	4	II	41	Reddish Brown	Silty Clay		NCM	
5	5	I	25	Dark Grayish Brown	Silt Loam		NCM	
5	5	II	35	Reddish Brown	Clay		NCM	
5	6	I	20	Dark Grayish Brown	Silty Clay		NCM	
5	6	II	41	Reddish Brown	Clay		NCM	
5	7	I	23	Dark Brown	Silty Clay Loam		NCM	
5	7	II	37	Reddish Brown	Clay		NCM	
5	8	I	26	Dark Brown	Silt Loam		NCM	
5	8	II	51	Yellowish Brown	Silty Clay		NCM	
5	9	I	31	Dark Brown	Silt Loam		NCM	
5	9	II	47	Reddish Brown	Silty Clay		NCM	
5	10	I	23	Dark Brown	Silt Loam		NCM	
5	10	II	48	Yellowish Brown	Silty Clay		NCM	
6	1	I	63	Dark Brown	Silt Loam		NCM	
6	2	I	25	Dark Brown	Silt Loam		NCM	
6	2	II	35	Reddish Brown	Clay		NCM	
6	3	I	26	Dark Brown	Silt Loam		NCM	
6	3	II	36	Reddish Brown	Clay		NCM	
6	4	I	33	Dark Brown	Silt Loam		NCM	



Trans	Shovel Test	Level	Depth Below Surface (CM)	Soil Color	Soil Matrix (Primary)	Soil Matrix (Secondary)	Artifacts Recovered	Comments
6	4	II	44	Yellowish Brown	Silty Clay		NCM	
6	5	I	28	Dark Brown	Silty Clay		NCM	
6	5	I	40	Reddish Brown	Silty Clay		NCM	
6	6	I	23	Dark Brown	Silt Loam		NCM	
6	6	II	33	Reddish Brown	Clay		NCM	
6	7	I	28	Dark Brown	Silt Loam		NCM	
6	7	II	47	Reddish Brown	Clay		NCM	
6	8	I	57	Dark Brown	Silt Loam		NCM	
6	9	I	42	Dark Brown	Silt Loam		NCM	
6	9	II	52	Reddish Brown	Silty Clay		NCM	
6	10	I	20	Dark Brown	Silt Loam		NCM	
6	10	II	36	Reddish Brown	Silt Loam		NCM	
7	1	I	31	Dark Brown	Silt Loam		NCM	
7	1	II	43	Reddish Brown	Silty Clay		NCM	
7	2	I	25	Dark Grayish Brown	Silt Loam		NCM	
7	2	II	38	Reddish Brown	Silty Clay		NCM	
7	3	I	33	Dark Grayish Brown	Silty Clay		NCM	
7	3	II	43	Reddish Brown	Clay		NCM	
7	4	I	24	Dark Grayish Brown	Silt Loam		NCM	
7	4	II	35	Reddish Brown	Clay		NCM	
7	5	I	25	Dark Brown	Silt Loam		NCM	
7	5	II	35	Reddish Brown	Clay		NCM	
7	6	I	27	Dark Grayish Brown	Silty Clay Loam		NCM	
7	6	II	38	Reddish Brown	Clay		NCM	
7	7	I	25	Dark Brown	Silty Clay Loam		NCM	
7	7	II	41	Reddish Brown	Clay		NCM	
7	8	I	68	Dark Brown	Silt Loam		NCM	
7	9	I	29	Dark Brown	Silty Clay Loam		NCM	
7	9	II	43	Reddish Brown	Clay		NCM	
7	10	I	28	Dark Grayish Brown	Silt Loam		NCM	
7	10	II	39	Reddish Brown	Silty Clay		NCM	
8	1	I	26	Dark Brown	Silt Loam		NCM	
8	1	II	36	Reddish Brown	Clay		NCM	
8	2	I	17	Dark Brown	Silt Loam		NCM	
8	2	II	27	Reddish Brown	Clay		NCM	
8	3	I	23	Dark Brown	Silt Loam		NCM	
8	3	II	33	Reddish Brown	Clay		NCM	
8	4	I	18	Dark Brown	Silt Loam		NCM	
8	4	II	28	Reddish Brown	Clay		NCM	
8	5	I	22	Dark Brown	Silt Loam		NCM	
8	5	II	32	Reddish Brown	Clay		NCM	
8	6	I	28	Dark Brown	Silt Loam		NCM	
8	6	II	38	Reddish Brown	Silty Clay		NCM	
8	7	I	17	Dark Brown	Silt Loam		NCM	
8	7	II	27	Reddish Brown	Clay		NCM	
8	8	I	21	Dark Brown	Silt Loam		NCM	
8	8	II	31	Reddish Brown	Clay		NCM	
8	9	I	25	Dark Brown	Silt Loam		NCM	
8	9	II	35	Reddish Brown	Clay		NCM	
8	10	I	16	Dark Brown	Silty Clay Loam		NCM	
8	10	II	27	Yellowish Brown	Silt Loam		NCM	
9	1	I	26	Dark Brown	Silt Loam		NCM	
9	1	II	37	Reddish Brown	Clay		NCM	
9	2	I	24	Dark Grayish Brown	Silt Loam		NCM	

Trans	Shovel Test	Level	Depth Below Surface (CM)	Soil Color	Soil Matrix (Primary)	Soil Matrix (Secondary)	Artifacts Recovered	Comments
9	2	II	37	Reddish Brown	Clay		NCM	
9	3	I	25	Dark Grayish Brown	Silt Loam		NCM	
9	3	II	37	Reddish Brown	Clay		NCM	
9	4	I	24	Dark Grayish Brown	Silt Loam	Rocks	NCM	
9	4	II	38	Reddish Brown	Clay	Rocks	NCM	
9	5	I	25	Dark Grayish Brown	Silt Loam		NCM	
9	5	II	37	Yellowish Brown	Silty Clay		NCM	
9	6	I	18	Dark Brown	Silt Loam		NCM	
9	6	II	28	Reddish Brown	Clay		NCM	
9	7	I	32	Dark Brown	Silt Loam		NCM	
9	7	II	42	Reddish Brown	Silty Clay		NCM	
9	8	I	30	Dark Brown	Silt Loam		NCM	
9	8	II	40	Yellowish Brown	Silty Clay		NCM	
9	9	I	29	Dark Brown	Silt Loam		NCM	
9	9	II	39	Yellowish Brown	Silty Clay		NCM	
9	10	I	16	Dark Brown	Silt Loam		NCM	
9	10	II	26	Reddish Brown	Clay		NCM	
10	1	I	29	Dark Grayish Brown	Silt Loam		NCM	
10	1	II	41	Yellowish Brown	Clay		NCM	
10	2	I	29	Dark Grayish Brown	Silt Loam		NCM	
10	2	II	39	Reddish Brown	Clay		NCM	
10	3	I	28	Dark Grayish Brown	Silt Loam		NCM	
10	3	II	40	Yellowish Brown	Silty Clay		NCM	
10	4	I	24	Dark Grayish Brown	Silt Loam		NCM	
10	4	II	36	Reddish Brown	Silt Loam		NCM	
10	5	I	30	Dark Grayish Brown	Silt Loam		NCM	
10	5	II	41	Reddish Brown	Silty Clay		NCM	
10	6	I	25	Dark Grayish Brown	Silt Loam		NCM	
10	6	II	37	Reddish Brown	Clay		NCM	
10	7	I	36	Dark Grayish Brown	Silt Loam		NCM	
10	7	II	47	Yellowish Brown	Silt Loam		NCM	
10	8	I	30	Dark Grayish Brown	Silt Loam		NCM	
10	8	II	40	Yellowish Brown	Silt Loam		NCM	
10	9	I	36	Dark Grayish Brown	Silt Loam		NCM	
10	9	II	46	Yellowish Brown	Silty Clay		NCM	
10	10	I	24	Dark Grayish Brown	Silt Loam		NCM	
10	10	II	35	Reddish Brown	Clay		NCM	
11	1	I	23	Dark Brown	Silt Loam		NCM	
11	1	II	33	Reddish Brown	Silty Clay		NCM	
11	2	I	22	Dark Brown	Silt Loam		NCM	
11	2	II	34	Reddish Brown	Silty Clay		NCM	
11	3	I	24	Dark Brown	Silt Loam		NCM	
11	3	II	33	Reddish Brown	Silty Clay		NCM	
11	4	I	37	Dark Grayish Brown	Silty Clay		NCM	
11	4	II	47	Dark Yellowish Brown	Silt Loam		NCM	
11	5	I	24	Dark Grayish Brown	Silty Clay		NCM	
11	5	II	37	Reddish Brown	Silt Loam		NCM	
11	6	I	30	Dark Grayish Brown	Silty Clay		NCM	
11	6	II	42	Reddish Brown	Silty Clay Loam		NCM	
11	7	I	20	Dark Grayish Brown	Silty Clay Loam		NCM	
11	7	II	33	Reddish Brown	Silty Clay Loam		NCM	
11	8	I	23	Dark Grayish Brown	Silty Clay Loam		NCM	
11	8	II	37	Reddish Brown	Silty Clay Loam		NCM	
11	9	I	28	Dark Grayish Brown	Silty Clay Loam		NCM	

Trans	Shovel Test	Level	Depth Below Surface (CM)	Soil Color	Soil Matrix (Primary)	Soil Matrix (Secondary)	Artifacts Recovered	Comments
11	9	II	41	Reddish Brown	Silty Clay		NCM	
11	10	I	29	Dark Brown	Silt Loam		NCM	
11	10	II	39	Reddish Brown	Silty Clay		NCM	
12	1	I	36	Dark Brown	Silt Loam		NCM	
12	1	II	46	Reddish Brown	Silty Clay		NCM	
12	2	I	32	Dark Brown	Silt Loam		NCM	
12	2	II	44	Yellowish Brown	Silty Clay		NCM	
12	3	I	28	Dark Brown	Silt Loam		NCM	
12	3	II	41	Reddish Brown	Silty Clay		NCM	
12	4	I	28	Dark Brown	Silt Loam		NCM	
12	4	II	39	Yellowish Brown	Silty Clay		NCM	
12	5	I	41	Dark Brown	Silt Loam		NCM	
12	5	II	51	Reddish Brown	Silty Clay		NCM	
12	6	I	26	Dark Brown	Silty Clay Loam		NCM	
12	6	II	45	Reddish Brown	Clay		NCM	
12	7	I	24	Dark Brown	Silty Clay Loam		NCM	
12	7	II	44	Reddish Brown	Clay		NCM	
12	8	I	27	Dark Brown	Silty Clay Loam		NCM	
12	8	II	46	Reddish Brown	Clay		NCM	
12	9	I	25	Dark Brown	Silty Clay Loam		NCM	
12	9	II	46	Reddish Brown	Clay		NCM	
12	10	I	23	Dark Brown	Silty Clay Loam		NCM	
12	10	II	40	Reddish Brown	Clay		NCM	
13	1	I	29	Dark Brown	Silt Loam		NCM	
13	1	II	41	Reddish Brown	Silt Loam		NCM	
13	2	I	26	Dark Brown	Silty Clay Loam		NCM	
13	2	II	40	Reddish Brown	Silty Clay		NCM	
13	3	I	27	Dark Brown	Silt Loam		NCM	
13	3	II	43	Yellowish Brown	Silt Loam		NCM	
13	4	I	24	Dark Brown	Silty Clay Loam		NCM	
13	4	II	41	Reddish Brown	Clay		NCM	
13	5	I	32	Dark Grayish Brown	Silty Clay Loam		NCM	
13	5	II	46	Reddish Brown	Clay		NCM	
13	6	I	24	Dark Brown	Silty Clay Loam		NCM	
13	6	II	36	Reddish Brown	Clay		NCM	
13	7	I	29	Dark Brown	Silty Clay Loam		NCM	
13	7	II	51	Reddish Brown	Clay		NCM	
13	8	I	25	Dark Brown	Silty Clay Loam		NCM	
13	8	II	47	Reddish Brown	Clay		NCM	
13	9	I	30	Dark Brown	Silty Clay Loam		NCM	
13	9	II	54	Reddish Brown	Clay		NCM	
13	10	I	28	Dark Brown	Silt Loam		NCM	
13	10	II	37	Reddish Brown	Silty Clay		NCM	
14	1	I	24	Dark Brown	Silt Loam		NCM	
14	1	II	37	Reddish Brown	Clay		NCM	
14	2	I	24	Dark Brown	Silt Loam		NCM	
14	2	II	34	Yellowish Brown	Silt Loam		NCM	
14	3	I	28	Grayish Brown	Silty Clay Loam		NCM	
14	3	II	49	Reddish Brown	Clay		NCM	
14	4	I	23	Dark Brown	Silty Clay Loam		NCM	
14	4	II	44	Reddish Brown	Clay		NCM	
14	5	I	31	Dark Brown	Silt Loam		NCM	
14	5	II	43	Reddish Brown	Silty Clay		NCM	
14	6	I	24	Dark Brown	Silt Loam		NCM	



Trans	Shovel Test	Level	Depth Below Surface (CM)	Soil Color	Soil Matrix (Primary)	Soil Matrix (Secondary)	Artifacts Recovered	Comments
14	6	II	34	Reddish Brown	Clay		NCM	
14	7	I	34	Dark Grayish Brown	Silt Loam		NCM	
14	7	II	45	Reddish Brown	Clay		NCM	
14	8	I	23	Dark Brown	Silt Loam		NCM	
14	8	II	33	Reddish Brown	Clay		NCM	
14	9	I	26	Dark Grayish Brown	Silt Loam		NCM	
14	9	II	38	Reddish Brown	Silt Loam		NCM	
14	10	I	27	Dark Brown	Silt Loam		NCM	
14	10	II	37	Reddish Brown	Clay		NCM	
15	1	I	28	Dark Brown	Silt Loam		NCM	
15	1	II	38	Yellowish Brown	Silty Clay		NCM	
15	2	I	28	Dark Brown	Silt Loam		NCM	
15	2	II	62	Reddish Brown	Silty Clay		NCM	
15	3	I	25	Dark Brown	Silt Loam		NCM	
15	3	II	50	Yellowish Brown	Silty Clay		NCM	
15	4	I	20	Dark Grayish Brown	Silt Loam		NCM	
15	4	II	30	Reddish Brown	Silty Clay		NCM	
15	5	I	34	Dark Brown	Silt Loam		NCM	
15	5	II	45	Dark Yellowish Brown	Silty Clay		NCM	
15	6	I	19	Dark Brown	Silt Loam		NCM	
15	6	II	29	Reddish Brown	Silty Clay		NCM	
15	7	I	25	Dark Grayish Brown	Silt Loam		NCM	
15	7	II	36	Reddish Brown	Clay		NCM	
15	8	I	17	Dark Brown	Silt Loam		NCM	
15	8	II	27	Reddish Brown	Clay		NCM	
15	9	I	25	Dark Grayish Brown	Silt Loam		NCM	
15	9	II	35	Reddish Brown	Silty Clay		NCM	
15	10	I	27	Dark Grayish Brown	Silt Loam		NCM	
15	10	II	38	Yellowish Brown	Silty Clay		NCM	
16	1	I	24	Dark Brown	Silty Clay Loam		NCM	
16	1	II	40	Reddish Brown	Clay		NCM	
16	2	I	25	Dark Grayish Brown	Silty Clay		NCM	
16	2	II	36	Reddish Brown	Silty Clay		NCM	
16	3	I	33	Dark Brown	Silty Clay Loam		NCM	
16	3	II	48	Reddish Brown	Clay		NCM	
16	4	I	24	Dark Grayish Brown	Silty Clay		NCM	
16	4	II	38	Reddish Brown	Silty Clay		NCM	
16	5	I	35	Dark Brown	Silty Clay Loam		NCM	
16	5	II	50	Reddish Brown	Clay		NCM	
16	6	I	21	Dark Brown	Silt Loam		NCM	
16	6	II	34	Reddish Brown	Silty Clay		NCM	
16	7	I	28	Dark Brown	Silt Loam		NCM	
16	7	II	50	Reddish Brown	Silty Clay		NCM	
16	8	I	22	Dark Brown	Clay		NCM	
16	8	II	34	Reddish Brown	Clay		NCM	
16	9	I	17	Dark Grayish Brown	Silty Clay		NCM	
16	9	II	30	Reddish Brown	Silty Clay		NCM	
16	10	I	37	Dark Brown	Silt Loam		NCM	
16	10	II	48	Reddish Brown	Clay		NCM	
17	1	I	26	Dark Brown	Silt Loam		NCM	
17	1	II	36	Reddish Brown	Silt Loam		NCM	
17	2	I	26	Dark Brown	Silty Clay Loam		NCM	
17	2	II	36	Reddish Brown	Clay		NCM	
17	3	I	22	Dark Brown	Silt Loam		NCM	

Trans	Shovel Test	Level	Depth Below Surface (CM)	Soil Color	Soil Matrix (Primary)	Soil Matrix (Secondary)	Artifacts Recovered	Comments
17	3	II	32	Yellowish Brown	Clay		NCM	
17	4	I	25	Dark Brown	Silt Loam		NCM	
17	4	II	35	Yellowish Brown	Silty Clay		NCM	
17	5	I	24	Dark Brown	Silt Loam		NCM	
17	5	II	34	Gray	Silt Loam		NCM	
17	6	I	18	Dark Brown	Silt Loam		NCM	
17	6	II	28	Yellowish Brown	Silt Loam		NCM	
17	7	I	21	Dark Brown	Silt Loam		NCM	
17	7	II	31	Gray	Silt Loam		NCM	
17	8	I	25	Dark Brown	Silt Loam		NCM	
17	8	II	40	Gray	Silt Loam		NCM	
17	9	I	26	Dark Grayish Brown	Silty Clay		NCM	
17	9	II	54	Yellowish Brown	Silty Clay		NCM	
17	10	I	34	Dark Brown	Silt Loam		NCM	
17	10	II	49	Reddish Brown	Silty Clay		NCM	
18	1	I	28	Grayish Brown	Silt Loam		NCM	
18	1	II	46	Dark Yellowish Brown	Clay		NCM	
18	2	I	25	Dark Brown	Silt Loam		NCM	
18	2	II	37	Reddish Brown	Clay		NCM	
18	3	I	34	Dark Brown	Silt Loam		NCM	
18	3	II	44	Yellowish Brown	Silt Loam		NCM	
18	4	I	22	Dark Brown	Silt Loam		NCM	
18	4	II	32	Reddish Brown	Clay		NCM	
18	5	I	26	Dark Brown	Silt Loam		NCM	
18	5	II	36	Reddish Brown	Silt Loam		NCM	
18	6	I	21	Dark Brown	Silty Clay Loam		NCM	
18	6	II	31	Reddish Brown	Clay		NCM	
18	7	I	18	Dark Brown	Silt Loam		NCM	
18	7	II	28	Reddish Brown	Clay		NCM	
18	8	I	22	Dark Brown	Silt Loam		NCM	
18	8	II	35	Reddish Brown	Silty Clay		NCM	
18	9	I	27	Dark Brown	Silt Loam		NCM	
18	9	II	37	Reddish Brown	Clay		NCM	
18	10	I	21	Dark Brown	Silty Clay Loam		NCM	
18	10	II	31	Reddish Brown	Clay		NCM	
19	1	I	27	Dark Grayish Brown	Silt Loam		NCM	
19	1	II	39	Yellowish Brown	Sandy Silty Clay		NCM	
19	2	I	26	Dark Brown	Silty Clay Loam		NCM	
19	2	II	40	Reddish Brown	Clay		NCM	
19	3	I	25	Dark Brown	Silt Loam		NCM	
19	3	II	43	Reddish Brown	Clay		NCM	
19	4	I	25	Dark Brown	Silt Loam		NCM	
19	4	II	39	Dark Yellowish Brown	Silty Clay		NCM	
19	5	I	24	Dark Brown	Silt Loam		NCM	
19	5	II	34	Reddish Brown	Clay		NCM	
19	6	I	24	Grayish Brown	Silt Loam		NCM	
19	6	II	35	Dark Yellowish Brown	Clay		NCM	
19	7	I	29	Dark Brown	Silt Loam		NCM	
19	7	II	40	Reddish Brown	Silty Clay		NCM	
19	8	I	28	Dark Grayish Brown	Silt Loam		NCM	
19	8	II	41	Reddish Brown	Silty Clay		NCM	
19	9	I	30	Dark Grayish Brown	Silt Loam		NCM	
19	9	II	41	Reddish Brown	Clay		NCM	
19	10	I	24	Dark Grayish Brown	Silt Loam		NCM	

Trans	Shovel Test	Level	Depth Below Surface (CM)	Soil Color	Soil Matrix (Primary)	Soil Matrix (Secondary)	Artifacts Recovered	Comments
19	10	II	36	Reddish Brown	Clay		NCM	
20	1	I	27	Dark Brown	Silt Loam		NCM	
20	1	II	39	Yellowish Brown	Silty Clay		NCM	
20	2	I	34	Dark Brown	Silt Loam		NCM	
20	2	II	47	Yellowish Brown	Silt Loam		NCM	
20	3	I	37	Dark Brown	Silt Loam		NCM	
20	3	II	47	Yellowish Brown	Silt Loam		NCM	
20	4	I	18	Dark Brown	Silt Loam		NCM	
20	4	II	31	Yellowish Brown	Silty Clay		NCM	
20	5	I	22	Dark Brown	Silt Loam		NCM	
20	5	II	48	Yellowish Brown	Silty Clay		NCM	
20	6	I	26	Dark Brown	Silt Loam		NCM	
20	6	II	41	Yellowish Brown	Silty Clay		NCM	
20	7	I	19	Dark Grayish Brown	Silt Loam		NCM	
20	7	II	32	Yellowish Brown	Silt Loam		NCM	
20	8	I	28	Dark Grayish Brown	Silt Loam		NCM	
20	8	II	40	Reddish Brown	Silt Loam		NCM	
20	9	I	21	Dark Grayish Brown	Silt Loam		NCM	
20	9	II	31	Reddish Brown	Clay		NCM	
20	10	I	26	Dark Grayish Brown	Silt Loam		NCM	
20	10	II	37	Reddish Brown	Silty Clay		NCM	
21	1	I	18	Dark Brown	Silty Clay		NCM	
21	1	II	31	Reddish Brown	Silty Clay		NCM	
21	2	I	31	Dark Brown	Silt Loam		NCM	
21	2	II	43	Reddish Brown	Silty Clay		NCM	
21	3	I	22	Dark Grayish Brown	Silt Loam		NCM	
21	3	II	33	Yellowish Brown	Silty Clay		NCM	
21	4	I	26	Dark Grayish Brown	Silt Loam		NCM	
21	4	II	36	Yellowish Brown	Silty Clay		NCM	
21	5	I	22	Dark Grayish Brown	Silt Loam		NCM	
21	5	II	32	Yellowish Brown	Silt Loam		NCM	
21	6	I	20	Dark Brown	Silty Clay		NCM	
21	6	II	30	Reddish Brown	Silty Clay		NCM	
21	7	I	25	Dark Brown	Silt Loam		NCM	
21	7	II	43	Yellowish Brown	Silt Loam		NCM	
21	8	I	22	Dark Brown	Silty Clay		NCM	
21	8	II	36	Reddish Brown	Sandy Silty Clay		NCM	
21	9	I	31	Dark Brown	Silty Clay		NCM	
21	9	II	44	Yellowish Brown	Silty Clay		NCM	
21	10	I	32	Dark Brown	Silty Clay		NCM	
21	10	II	42	Yellowish Brown	Silty Clay		NCM	
22	1	I	26	Dark Brown	Silt Loam		NCM	
22	1	II	36	Reddish Brown	Silty Clay		NCM	
22	3	I	25	Dark Brown	Silt Loam		NCM	
22	4	I	28	Dark Brown	Silt Loam		NCM	
22	4	II	38	Reddish Brown	Silty Clay		NCM	
22	5	I	25	Dark Brown	Silt Loam		NCM	
22	5	II	35	Dark Yellowish Brown	Silty Clay		NCM	
22	6	I	25	Dark Brown	Silt Loam		NCM	
22	6	II	35	Reddish Brown	Silty Clay		NCM	
22	7	I	28	Dark Brown	Silt Loam		NCM	
22	7	II	38	Reddish Brown	Silty Clay		NCM	
22	8	I	26	Dark Brown	Silt Loam		NCM	
22	8	II	36	Reddish Brown	Silty Clay		NCM	



Trans	Shovel Test	Level	Depth Below Surface (CM)	Soil Color	Soil Matrix (Primary)	Soil Matrix (Secondary)	Artifacts Recovered	Comments
22	9	I	23	Dark Brown	Silt Loam		NCM	
22	9	II	33	Reddish Brown	Silt Loam		NCM	
22	10	I	22	Dark Brown	Silt Loam		NCM	
22	10	II	32	Reddish Brown	Clay		NCM	
23	1	I	26	Dark Brown	Silt Loam		NCM	
23	1	II	36	Reddish Brown	Silt Loam		NCM	
23	2	I	29	Dark Brown	Silt Loam		NCM	
23	2	II	48	Reddish Brown	Silt Loam		NCM	
23	3	I	28	Dark Brown	Silt Loam		NCM	
23	3	II	44	Yellowish Brown	Silty Clay		NCM	
23	4	I	28	Dark Brown	Silt Loam		NCM	
23	4	II	51	Yellowish Brown	Clay		NCM	
23	5	I	31	Dark Grayish Brown	Silty Clay Loam		NCM	
23	5	II	46	Reddish Brown	Silty Clay Loam		NCM	
23	6	I	33	Dark Grayish Brown	Silt Loam		NCM	
23	6	II	58	Yellowish Brown	Silty Clay		NCM	
23	7	I	29	Dark Grayish Brown	Silt Loam		NCM	
23	7	II	54	Yellowish Brown	Silty Clay		NCM	
23	8	I	27	Dark Brown	Silty Clay Loam		NCM	
23	8	II	38	Reddish Brown	Clay		NCM	
23	9	I	29	Dark Brown	Silty Clay Loam		NCM	
23	9	II	41	Reddish Brown	Clay		NCM	
23	10	I	25	Dark Grayish Brown	Silt Loam		NCM	
23	10	II	49	Yellowish Brown	Silty Clay		NCM	
24	1	I	32	Dark Grayish Brown	Silty Clay Loam		NCM	
24	1	II	46	Reddish Brown	Clay		NCM	
24	2	I	18	Dark Brown	Silty Clay		NCM	
24	2	II	31	Reddish Brown	Silty Clay		NCM	
24	3	I	27	Grayish Brown	Silt Loam		NCM	
24	3	II	46	Reddish Brown	Clay		NCM	
24	4	I	30	Dark Brown	Silty Clay		NCM	
24	4	II	43	Reddish Brown	Clay		NCM	
24	5	I	28	Dark Brown	Silty Clay		NCM	
24	5	II	42	Reddish Brown	Silty Clay		NCM	
24	6	I	28	Dark Grayish Brown	Silty Clay Loam		NCM	
24	6	II	45	Reddish Brown	Silty Clay		NCM	
24	7	I	26	Dark Brown	Silty Clay Loam		NCM	
24	7	II	41	Yellowish Brown	Clay		NCM	
24	8	I	24	Dark Brown	Silt Loam		NCM	
24	8	II	37	Yellowish Brown	Silt Loam		NCM	
24	9	I	25	Dark Brown	Silty Clay Loam		NCM	
24	9	II	49	Reddish Brown	Clay		NCM	
24	10	I	28	Dark Brown	Silt Loam		NCM	
24	10	II	40	Reddish Brown	Silt Loam		NCM	
25	1	I	36	Dark Brown	Silt Loam		NCM	
25	1	II	52	Reddish Brown	Silty Clay		NCM	
25	2	I	30	Dark Brown	Silt Loam		NCM	
25	2	II	48	Reddish Brown	Clay		NCM	
25	3	I	37	Dark Brown	Silt Loam		NCM	
25	3	II	47	Yellowish Brown	Silt Loam		NCM	
25	4	I	34	Dark Brown	Silt Loam		NCM	
25	4	II	45	Yellowish Brown	Silt Loam		NCM	
25	5	I	28	Dark Grayish Brown	Silty Clay Loam		NCM	
25	5	II	40	Yellowish Brown	Clay		NCM	

Trans	Shovel Test	Level	Depth Below Surface (CM)	Soil Color	Soil Matrix (Primary)	Soil Matrix (Secondary)	Artifacts Recovered	Comments
25	6	I	30	Very Dark Brown	Silt Loam		NCM	
25	6	II	40	Yellowish Brown	Silty Clay		NCM	
25	7	I	26	Dark Brown	Silty Clay Loam		NCM	
25	7	II	40	Reddish Brown	Clay		NCM	
25	8	I	29	Dark Brown	Silty Clay Loam		NCM	
25	8	II	45	Reddish Brown	Clay		NCM	
25	9	I	22	Dark Brown	Silt Loam		NCM	
25	9	II	32	Reddish Brown	Silty Clay		NCM	
25	10	I	37	Dark Grayish Brown	Silt Loam		NCM	
25	10	II	47	Yellowish Brown	Silt Loam		NCM	
26	1	I	25	Dark Brown	Silt Loam		NCM	
26	1	II	37	Reddish Brown	Clay		NCM	
26	2	I	28	Dark Grayish Brown	Silt Loam		NCM	
26	2	II	39	Reddish Brown	Sandy Silty Clay		NCM	
26	3	I	27	Grayish Brown	Silt Loam		NCM	
26	3	II	38	Reddish Brown	Silty Clay		NCM	
26	4	I	24	Dark Grayish Brown	Silt Loam		NCM	
26	4	II	36	Reddish Brown	Silty Clay		NCM	
26	5	I	28	Dark Grayish Brown	Silt Loam		NCM	
26	5	II	39	Reddish Brown	Clay		NCM	
26	6	I	27	Dark Grayish Brown	Silt Loam		NCM	
26	6	II	37	Reddish Brown	Silty Clay		NCM	
26	7	I	32	Dark Brown	Silt Loam		NCM	
26	7	II	42	Reddish Brown	Clay		NCM	
26	8	I	29	Dark Brown	Silt Loam		NCM	
26	8	II	45	Reddish Brown	Clay		NCM	
26	9	I	23	Dark Brown	Silt Loam		NCM	
26	9	II	33	Reddish Brown	Clay		NCM	
26	10	I	28	Dark Brown	Silt Loam		NCM	
26	10	II	43	Reddish Brown	Clay		NCM	
27	1	I	13	Dark Brown	Silty Clay Loam		NCM	
27	1	II	23	Reddish Brown	Clay		NCM	
27	2	I	18	Dark Brown	Silty Clay Loam		NCM	
27	2	II	28	Reddish Brown	Clay		NCM	
27	3	I	22	Dark Brown	Silty Clay Loam		NCM	
27	3	II	40	Reddish Brown	Clay		NCM	
27	4	I	23	Dark Brown	Silty Clay Loam		NCM	
27	4	II	34	Reddish Brown	Clay		NCM	
27	5	I	19	Dark Brown	Silty Clay Loam		NCM	
27	5	II	33	Reddish Brown	Clay		NCM	
27	6	I	26	Dark Grayish Brown	Silt Loam		NCM	
27	6	II	37	Reddish Brown	Clay		NCM	
27	7	I	32	Dark Grayish Brown	Silt Loam		NCM	
27	7	II	44	Yellowish Brown	Silty Clay		NCM	
27	8	I	32	Dark Grayish Brown	Silt Loam		NCM	
27	8	II	43	Yellowish Brown	Silty Clay		NCM	
27	9	I	34	Dark Grayish Brown	Silt Loam		NCM	
27	9	II	46	Reddish Brown	Clay		NCM	
27	10	I	25	Dark Grayish Brown	Silt Loam		NCM	
27	10	II	37	Yellowish Brown	Silty Clay		NCM	
28	1	I	19	Dark Brown	Silty Clay Loam		NCM	
28	1	II	29	Reddish Brown	Clay		NCM	
28	2	I	23	Dark Brown	Silty Clay Loam		NCM	
28	2	II	33	Reddish Brown	Clay		NCM	

Trans	Shovel Test	Level	Depth Below Surface (CM)	Soil Color	Soil Matrix (Primary)	Soil Matrix (Secondary)	Artifacts Recovered	Comments
28	3	I	14	Dark Brown	Silty Clay Loam		NCM	
28	3	II	24	Reddish Brown	Clay		NCM	
28	4	I	27	Dark Brown	Silt Loam		NCM	
28	4	II	37	Yellowish Brown	Silty Clay		NCM	
28	5	I	25	Dark Brown	Silt Loam		NCM	
28	5	II	35	Reddish Brown	Clay		NCM	
28	6	I	26	Dark Brown	Silt Loam		NCM	
28	6	II	36	Reddish Brown	Clay Sand		NCM	
28	7	I	23	Dark Brown	Silt Loam		NCM	
28	7	II	33	Reddish Brown	Clay		NCM	
28	8	I	21	Dark Brown	Silt Loam		NCM	
28	8	II	31	Reddish Brown	Silty Clay		NCM	
28	9	I	18	Dark Brown	Silty Clay Loam		NCM	
28	9	II	38	Reddish Brown	Clay		NCM	
28	10	I	24	Dark Brown	Silt Loam		NCM	
28	10	II	34	Reddish Brown	Silty Clay		NCM	
29	1	I	24	Dark Brown	Silty Clay Loam		NCM	
29	1	II	40	Reddish Brown	Clay		NCM	
29	2	I	27	Dark Brown	Silt Loam		NCM	
29	2	I	27	Dark Brown	Silty Clay Loam		NCM	
29	2	II	37	Reddish Brown	Silt Loam		NCM	
29	2	II	43	Reddish Brown	Clay		NCM	
29	3	I	24	Dark Brown	Silty Clay Loam		NCM	
29	3	II	35	Reddish Brown	Clay		NCM	
29	4	I	25	Dark Brown	Silty Clay Loam		NCM	
29	4	II	52	Reddish Brown	Clay		NCM	
29	5	I	25	Dark Brown	Silty Clay		NCM	
29	5	II	43	Reddish Brown	Clay		NCM	
29	6	I	26	Dark Brown	Silty Clay Loam		NCM	
29	6	II	36	Reddish Brown	Clay		NCM	
29	7	I	25	Dark Brown	Silty Clay Loam		NCM	
29	7	II	40	Reddish Brown	Clay		NCM	
29	8	I	21	Reddish Brown	Silty Clay Loam		NCM	
29	8	II	36	Reddish Brown	Clay		NCM	
29	9	I	27	Dark Brown	Silty Clay Loam		NCM	
29	9	II	41	Reddish Brown	Clay		NCM	
29	10	I	26	Dark Brown	Silty Clay Loam		NCM	
29	10	II	37	Reddish Brown	Clay		NCM	
30	1	I	42	Dark Grayish Brown	Silty Clay Loam		NCM	
30	1	II	54	Reddish Brown	Clay		NCM	
30	2	I	31	Dark Brown	Clay		NCM	
30	2	II	49	Reddish Brown	Clay		NCM	
30	3	I	25	Dark Brown	Silt Loam		NCM	
30	3	II	35	Reddish Brown	Clay		NCM	
30	4	I	28	Dark Brown	Silty Clay Loam		NCM	
30	4	II	46	Reddish Brown	Clay		NCM	
30	5	I	24	Dark Brown	Silty Clay Loam		NCM	
30	5	II	39	Reddish Brown	Clay		NCM	
30	6	I	28	Dark Brown	Silt Loam		NCM	
30	6	II	46	Reddish Brown	Silt Loam		NCM	
30	7	I	31	Dark Brown	Silt Loam		NCM	
30	7	II	60	Reddish Brown	Silty Clay		NCM	
30	8	I	29	Dark Brown	Silt Loam		NCM	
30	8	II	43	Reddish Brown	Silty Clay		NCM	



Trans	Shovel Test	Level	Depth Below Surface (CM)	Soil Color	Soil Matrix (Primary)	Soil Matrix (Secondary)	Artifacts Recovered	Comments
30	9	I	31	Dark Brown	Silt Loam		NCM	
30	9	II	41	Reddish Brown	Silty Clay		NCM	
30	10	I	26	Dark Brown	Silty Clay Loam		NCM	
30	10	II	38	Reddish Brown	Clay		NCM	
31	1	I	72	Dark Brown	Silty Clay Loam		NCM	
31	2	I	33	Dark Brown	Silty Clay Loam		NCM	
31	2	II	43	Reddish Brown	Clay		NCM	
31	3	I	22	Dark Brown	Silt Loam	Rocks	NCM	
31	3	II	32	Reddish Brown	Silty Clay		NCM	
31	4	I	20	Dark Brown	Clay		NCM	
31	4	II	32	Reddish Brown	Clay		NCM	
31	5	I	24	Dark Brown	Silty Clay Loam		NCM	
31	5	II	34	Reddish Brown	Clay		NCM	
31	6	I	23	Dark Brown	Silty Clay Loam		NCM	
31	6	II	33	Reddish Brown	Clay		NCM	
31	7	I	23	Dark Brown	Silt Loam		NCM	
31	7	II	33	Reddish Brown	Clay		NCM	
31	8	I	28	Dark Grayish Brown	Silt Loam		NCM	
31	8	II	50	Yellowish Brown	Silt Loam		NCM	
31	9	I	32	Dark Brown	Silt Loam		NCM	
31	9	II	42	Yellowish Brown	Silt Loam		NCM	
31	10	I	33	Dark Brown	Silt Loam		NCM	
31	10	II	61	Reddish Brown	Silty Clay		NCM	
32	1	I	23	Dark Brown	Silt Loam		NCM	
32	1	II	33	Reddish Brown	Silty Clay		NCM	
32	2	I	21	Dark Brown	Silt Loam		NCM	
32	2	II	31	Reddish Brown	Clay		NCM	
32	3	I	23	Dark Brown	Silt Loam		NCM	
32	3	II	33	Reddish Brown	Clay		NCM	
32	4	I	20	Dark Brown	Silt Loam		NCM	
32	4	II	42	Reddish Brown	Clay		NCM	
32	5	I	55	Dark Brown	Silty Clay Loam		NCM	
32	6	I	24	Dark Brown	Silt Loam		NCM	
32	6	II	47	Reddish Brown	Clay		NCM	
32	7	I	23	Dark Brown	Silt Loam		NCM	
32	7	II	36	Reddish Brown	Clay		NCM	
32	8	I	25	Dark Brown	Silt Loam		NCM	
32	8	II	35	Reddish Brown	Silty Clay		NCM	
32	9	I	22	Dark Brown	Silt Loam		NCM	
32	9	II	43	Reddish Brown	Clay		NCM	
32	10	I	27	Dark Brown	Silt Loam		NCM	
32	10	II	46	Yellowish Brown	Silt Loam		NCM	
33	1	I	26	Dark Brown	Silt Loam		NCM	
33	1	II	41	Reddish Brown	Silty Clay		NCM	
33	2	I	25	Dark Brown	Silt Loam		NCM	
33	2	II	42	Reddish Brown	Silty Clay		NCM	
33	3	I	20	Dark Brown	Silt Loam		NCM	
33	3	II	35	Reddish Brown	Silty Clay		NCM	
33	4	I	28	Dark Brown	Silt Loam		NCM	
33	4	II	46	Reddish Brown	Silty Clay		NCM	
33	5	I	20	Dark Brown	Silt Loam		NCM	
33	5	II	36	Reddish Brown	Silty Clay		NCM	
33	6	I	22	Dark Brown	Silt Loam		NCM	
33	6	II	32	Reddish Brown	Silty Clay		NCM	

Trans	Shovel Test	Level	Depth Below Surface (CM)	Soil Color	Soil Matrix (Primary)	Soil Matrix (Secondary)	Artifacts Recovered	Comments
33	7	I	27	Dark Brown	Silt Loam		NCM	
33	7	II	37	Reddish Brown	Silty Clay		NCM	
33	8	I	24	Dark Brown	Silt Loam		NCM	
33	8	II	34	Reddish Brown	Silty Clay		NCM	
33	9	I	22	Dark Brown	Silt Loam		NCM	
33	9	II	32	Reddish Brown	Silty Clay		NCM	
33	10	I	21	Dark Brown	Silt Loam		NCM	
33	10	II	31	Reddish Brown	Clay		NCM	
34	1	I	46	Dark Brown	Silty Clay Loam		NCM	
34	1	II	56	Yellowish Brown	Sandy Silt Clay		NCM	
34	2	I	26	Dark Grayish Brown	Silt Loam		NCM	
34	2	II	44	Reddish Brown	Clay		NCM	
34	3	I	27	Dark Grayish Brown	Silt Loam		NCM	
34	3	II	38	Reddish Brown	Silty Clay		NCM	
34	4	I	22	Dark Grayish Brown	Silt Loam		NCM	
34	4	II	32	Reddish Brown	Silty Clay		NCM	
34	5	I	28	Dark Brown	Silt Loam		NCM	
34	5	II	41	Reddish Brown	Silty Clay		NCM	
34	6	I	29	Dark Grayish Brown	Silt Loam		NCM	
34	6	II	40	Reddish Brown	Silty Clay		NCM	
34	7	I	24	Dark Grayish Brown	Silt Loam		NCM	
34	7	II	35	Reddish Brown	Clay		NCM	
34	8	I	26	Dark Grayish Brown	Silt Loam		NCM	
34	8	II	37	Reddish Brown	Clay		NCM	
34	9	I	30	Dark Brown	Silt Loam		NCM	
34	9	II	41	Reddish Brown	Clay		NCM	
34	10	I	30	Dark Grayish Brown	Silt Loam		NCM	
34	10	II	42	Yellowish Brown	Silt Loam		NCM	
35	1	I	35	Dark Brown	Silt Loam		NCM	
35	1	II	46	Yellowish Brown	Silty Clay		NCM	
35	2	I	37	Dark Brown	Silt Loam		NCM	
35	2	II	49	Reddish Brown	Clay		NCM	
35	3	I	26	Dark Brown	Silt Loam		NCM	
35	3	II	47	Yellowish Brown	Silt Loam		NCM	
35	4	I	23	Dark Brown	Silt Loam		NCM	
35	4	II	40	Reddish Brown	Silty Clay		NCM	
35	5	I	48	Dark Brown	Silt Loam		NCM	
35	5	II	63	Reddish Brown	Clay		NCM	
35	6	I	35	Dark Brown	Silt Loam		NCM	
35	6	II	47	Reddish Brown	Silty Clay		NCM	
35	7	I	31	Dark Brown	Silt Loam		NCM	
35	7	II	49	Yellowish Brown	Silty Clay		NCM	
35	8	I	30	Dark Brown	Silt Loam		NCM	
35	8	II	43	Reddish Brown	Clay		NCM	
35	9	I	28	Dark Brown	Silt Loam		NCM	
35	9	II	47	Yellowish Brown	Silt Loam		NCM	
35	10	I	28	Dark Brown	Silt Loam		NCM	
35	10	II	40	Reddish Brown	Silty Clay		NCM	
36	1	I	38	Dark Brown	Silt Loam		NCM	
36	1	II	50	Reddish Brown	Silty Clay		NCM	
36	2	I	27	Dark Brown	Silt Loam		NCM	
36	2	II	37	Reddish Brown	Silty Clay		NCM	
36	3	I	22	Dark Brown	Silty Clay Loam		NCM	
36	3	II	46	Reddish Brown	Clay		NCM	

Trans	Shovel Test	Level	Depth Below Surface (CM)	Soil Color	Soil Matrix (Primary)	Soil Matrix (Secondary)	Artifacts Recovered	Comments
36	4	I	26	Dark Brown	Silty Clay Loam		NCM	
36	4	II	41	Reddish Brown	Clay		NCM	
36	5	I	27	Dark Brown	Silt Loam		NCM	
36	5	II	63	Reddish Brown	Silty Clay		NCM	
36	6	I	23	Dark Brown	Silty Clay Loam		NCM	
36	6	II	36	Reddish Brown	Clay		NCM	
36	7	I	25	Dark Brown	Silt Loam		NCM	
36	7	II	46	Reddish Brown	Clay		NCM	
36	8	I	26	Dark Brown	Silt Loam		NCM	
36	8	II	48	Reddish Brown	Silty Clay		NCM	
36	9	I	33	Dark Brown	Silt Loam		NCM	
36	9	II	50	Reddish Brown	Silty Clay		NCM	
36	10	I	26	Dark Brown	Silt Loam		NCM	
36	10	II	41	Reddish Brown	Silty Clay		NCM	
37	1	I	24	Dark Brown	Silt Loam		NCM	
37	1	II	46	Reddish Brown	Silty Clay		NCM	
37	2	I	24	Dark Brown	Silt Loam		NCM	
37	2	II	38	Reddish Brown	Silty Clay		NCM	
37	3	I	24	Dark Brown	Silt Loam		NCM	
37	3	II	43	Yellowish Brown	Silty Clay		NCM	
37	4	I	28	Dark Brown	Silty Clay		NCM	
37	4	II	40	Reddish Brown	Clay		NCM	
37	5	I	25	Dark Brown	Silty Clay		NCM	
37	5	II	43	Reddish Brown	Clay		NCM	
37	6	I	21	Dark Grayish Brown	Silty Clay		NCM	
37	6	II	31	Reddish Brown	Clay		NCM	
37	7	I	28	Dark Grayish Brown	Silt Loam		NCM	
37	7	II	47	Yellowish Brown	Silty Clay		NCM	
37	8	I	20	Dark Brown	Silt Loam		NCM	
37	8	II	36	Yellowish Brown	Silty Clay		NCM	
37	9	I	28	Dark Brown	Silty Clay Loam	Rocks	NCM	
37	9	II	47	Reddish Brown	Clay		NCM	
38	1	I	22	Dark Brown	Silt Loam		NCM	
38	1	II	34	Yellowish Brown	Silty Clay		NCM	
38	2	I	25	Dark Brown	Silt Loam	Rocks	NCM	
38	2	II	42	Reddish Brown	Silt Loam		NCM	
38	3	I	46	Dark Grayish Brown	Silt Loam		NCM	
38	3	II	56	Reddish Brown	Clay		NCM	
38	4	I	25	Dark Grayish Brown	Silt Loam		NCM	
38	4	II	49	Reddish Brown	Clay		NCM	
38	5	I	32	Dark Grayish Brown	Silt Loam		NCM	
38	5	II	43	Reddish Brown	Clay		NCM	
38	6	I	29	Dark Brown	Silt Loam		NCM	
38	6	II	41	Reddish Brown	Clay		NCM	
38	7	I	33	Dark Brown	Silt Loam		NCM	
38	7	II	46	Yellowish Brown	Silty Clay		NCM	
38	8	I	32	Dark Brown	Silt Loam		NCM	
38	8	II	44	Yellowish Brown	Clay		NCM	
38	9	I	23	Dark Grayish Brown	Silt Loam		NCM	
38	9	II	34	Reddish Brown	Clay		NCM	
39	1	I	23	Dark Grayish Brown	Silt Loam		NCM	
39	1	II	36	Reddish Brown	Clay		NCM	
39	2	I	27	Dark Brown	Silt Loam		NCM	
39	2	II	37	Reddish Brown	Clay		NCM	



Trans	Shovel Test	Level	Depth Below Surface (CM)	Soil Color	Soil Matrix (Primary)	Soil Matrix (Secondary)	Artifacts Recovered	Comments
39	3	I	23	Dark Grayish Brown	Silt Loam		NCM	
39	3	II	36	Reddish Brown	Clay		NCM	
40	1	I	29	Dark Grayish Brown	Silt Loam	Rocks	NCM	
40	1	II	40	Yellowish Brown	Silty Clay	Rocks	NCM	
40	2	I	25	Dark Grayish Brown	Silt Loam		NCM	
40	2	II	36	Reddish Brown	Silty Clay		NCM	
40	3	I	26	Dark Grayish Brown	Silt Loam		NCM	
40	3	II	38	Reddish Brown	Clay		NCM	
41	1	I	32	Dark Grayish Brown	Silt Loam	Rocks	NCM	
41	1	II	55	Yellowish Brown	Silty Clay	Rocks	NCM	
41	2	I	24	Dark Grayish Brown	Silt Loam		NCM	
41	2	II	36	Reddish Brown	Silty Clay		NCM	
41	3	I	43	Dark Brown	Silt Loam		NCM	
41	3	II	53	Reddish Brown	Silty Clay		NCM	
42	1	I	32	Dark Brown	Silt Loam		NCM	
42	1	II	45	Yellowish Brown	Silty Clay		NCM	
42	2	I	26	Dark Brown	Silt Loam		NCM	
42	2	II	42	Reddish Brown	Clay		NCM	
42	3	I	24	Dark Brown	Silt Loam		NCM	
42	3	II	34	Reddish Brown	Silty Clay		NCM	
42	4	I	25	Dark Brown	Silt Loam		NCM	
42	4	II	37	Yellowish Brown	Silt Loam		NCM	
42	5	I	26	Dark Brown	Silt Loam		NCM	
42	5	II	39	Yellowish Brown	Silty Clay		NCM	
42	6	I	31	Dark Brown	Silt Loam		NCM	
42	6	II	47	Reddish Brown	Silty Clay		NCM	
42	7	I	46	Dark Brown	Silt Loam		NCM	
42	7	II	56	Reddish Brown	Silty Clay		NCM	
42	8	I	20	Dark Brown	Silt Loam		NCM	
42	8	II	38	Yellowish Brown	Silt Loam		NCM	
42	9	I	31	Dark Brown	Silt Loam		NCM	
42	9	II	41	Dark Yellowish Brown	Silty Clay		NCM	
42	10	I	33	Dark Grayish Brown	Silt Loam		NCM	
42	10	II	46	Gray	Silty Clay		NCM	
43	1	I	27	Dark Brown	Silt Loam		NCM	
43	1	II	46	Yellowish Brown	Silt Loam		NCM	
43	2	I	22	Dark Brown	Silt Loam		NCM	
43	2	II	37	Reddish Brown	Silt Loam		NCM	
43	3	I	25	Dark Brown	Silt Loam		NCM	
43	3	II	43	Reddish Brown	Silt Loam		NCM	
43	4	I	47	Dark Grayish Brown	Silt Loam		NCM	
43	4	II	65	Reddish Brown	Silty Clay		NCM	
43	5	I	49	Dark Grayish Brown	Silt Loam		NCM	
43	5	II	67	Reddish Brown	Silty Clay		NCM	
43	6	I	49	Dark Grayish Brown	Silt Loam		NCM	
43	6	II	70	Gray	Silty Clay		NCM	
43	7	II	23	Dark Grayish Brown	Silt Loam		NCM	
43	7	II	46	Yellowish Brown	Silty Clay		NCM	
43	8	I	23	Dark Brown	Silt Loam		NCM	
43	8	II	51	Yellowish Brown	Silty Clay		NCM	
43	9	I	46	Dark Grayish Brown	Silt Loam		NCM	
43	9	II	57	Yellowish Brown	Silty Clay		NCM	
43	10	I	47	Dark Grayish Brown	Silt Loam		NCM	
43	10	II	60	Yellowish Brown	Silty Clay		NCM	

Trans	Shovel Test	Level	Depth Below Surface (CM)	Soil Color	Soil Matrix (Primary)	Soil Matrix (Secondary)	Artifacts Recovered	Comments
43	11	I	42	Dark Grayish Brown	Silty Clay Loam		NCM	
43	11	II	55	Yellowish Brown	Clay		NCM	
43	12	I	32	Dark Grayish Brown	Silt Loam		NCM	
43	12	II	44	Reddish Brown	Clay		NCM	
43	13	I	31	Dark Brown	Silty Clay Loam		NCM	
43	13	II	41	Reddish Brown	Silt Loam		NCM	
43	14	I	38	Dark Grayish Brown	Silty Clay Loam		NCM	
43	14	II	48	Reddish Brown	Clay		NCM	
43	15	I	33	Dark Grayish Brown	Silty Clay Loam		NCM	
43	15	II	45	Reddish Brown	Clay		NCM	
43	16	I	30	Dark Grayish Brown	Silty Clay Loam		NCM	
43	16	II	42	Reddish Brown	Clay		NCM	
44	1	I	27	Dark Grayish Brown	Silt Loam		NCM	
44	1	II	40	Dark Reddish Brown	Clay		NCM	
44	2	I	20	Dark Brown	Silty Clay Loam		NCM	
44	2	II	30	Reddish Brown	Silty Clay Loam		NCM	
44	3	I	26	Dark Grayish Brown	Silt Loam		NCM	
44	3	II	37	Reddish Brown	Silty Clay Loam		NCM	
44	4	I	27	Dark Brown	Silt Loam		NCM	
44	4	II	40	Reddish Brown	Silty Clay		NCM	
44	5	I	23	Dark Brown	Silt Loam		NCM	
44	5	II	33	Reddish Brown	Silt Loam		NCM	
44	6	I	28	Dark Grayish Brown	Silt Loam		NCM	
44	6	II	41	Reddish Brown	Silty Clay		NCM	
44	7	I	35	Dark Brown	Silt Loam		NCM	
44	7	II	45	Reddish Brown	Clay		NCM	
44	8	I	30	Dark Grayish Brown	Silt Loam		NCM	
44	8	II	41	Reddish Brown	Clay		NCM	
44	9	I	31	Dark Brown	Silty Clay Loam		NCM	
44	9	II	41	Reddish Brown	Clay		NCM	
44	10	I	22	Dark Grayish Brown	Silt Loam		NCM	
44	10	II	34	Reddish Brown	Silt Loam		NCM	
44	11	I	28	Dark Grayish Brown	Silt Loam		NCM	
44	11	II	49	Reddish Brown	Clay		NCM	
44	13	I	25	Dark Brown	Silt Loam		NCM	
44	13	II	43	Reddish Brown	Clay		NCM	
44	14	I	28	Dark Brown	Silt Loam		NCM	
44	14	II	38	Reddish Brown	Silt Loam		NCM	
44	15	I	27	Dark Brown	Silt Loam		NCM	
44	15	II	41	Dark Reddish Brown	Silty Clay Loam		NCM	
44	16	I	27	Dark Brown	Silt Loam		NCM	
44	16	II	39	Dark Reddish Brown	Silty Clay		NCM	
45	1	I	26	Dark Brown	Silt Loam		NCM	
45	1	II	38	Reddish Brown	Clay		NCM	
45	2	I	25	Dark Brown	Silty Clay Loam		NCM	
45	2	II	49	Reddish Brown	Clay		NCM	
45	3	I	29	Dark Brown	Silt Loam		NCM	
45	3	II	40	Reddish Brown	Clay		NCM	
45	4	I	32	Dark Grayish Brown	Silt Loam		NCM	
45	4	II	50	Reddish Brown	Silty Clay		NCM	
45	5	I	23	Dark Grayish Brown	Silt Loam		NCM	
45	5	II	62	Reddish Brown	Silty Clay		NCM	
45	6	I	25	Dark Brown	Silt Loam		NCM	
45	6	II	49	Reddish Brown	Silty Clay		NCM	

Trans	Shovel Test	Level	Depth Below Surface (CM)	Soil Color	Soil Matrix (Primary)	Soil Matrix (Secondary)	Artifacts Recovered	Comments
45	7	I	26	Dark Brown	Silt Loam		NCM	
45	7	II	38	Reddish Brown	Silty Clay Loam		NCM	
45	8	I	28	Dark Brown	Silt Loam		NCM	
45	8	II	41	Reddish Brown	Clay		NCM	
45	9	I	31	Dark Brown	Silt Loam		NCM	
45	9	II	45	Reddish Brown	Clay		NCM	
45	10	I	28	Dark Brown	Silty Clay Loam		NCM	
45	10	II	42	Reddish Brown	Clay		NCM	
45	11	I	25	Dark Brown	Silt Loam		NCM	
45	11	II	43	Reddish Brown	Clay		NCM	
45	12	I	28	Dark Grayish Brown	Silt Loam		NCM	
45	12	II	49	Reddish Brown	Clay		NCM	
45	13	I	27	Dark Brown	Silt Loam		NCM	
45	13	II	41	Dark Reddish Brown	Silty Clay Loam		NCM	
45	14	I	28	Dark Brown	Silt Loam		NCM	
45	14	II	38	Reddish Brown	Silt Loam		NCM	
45	15	I	27	Dark Brown	Silt Loam		NCM	
45	15	II	39	Dark Reddish Brown	Clay		NCM	
45	16	I	58	Dark Brown	Silt Loam	Gravel Fill	NCM	
46	1	I	29	Dark Brown	Silt Loam		NCM	
46	1	II	47	Reddish Brown	Silty Clay		NCM	
46	2	I	24	Dark Brown	Silt Loam		NCM	
46	2	II	38	Yellowish Brown	Silty Clay		NCM	
46	3	I	22	Dark Brown	Silt Loam		NCM	
46	3	II	38	Yellowish Brown	Silty Clay		NCM	
46	4	I	25	Grayish Brown	Silt Loam		NCM	
46	4	II	36	Reddish Brown	Silty Clay		NCM	
46	5	I	27	Grayish Brown	Silt Loam		NCM	
46	5	II	41	Reddish Brown	Clay		NCM	
46	6	I	25	Dark Brown	Silt Loam		NCM	
46	6	II	41	Yellowish Brown	Silty Clay		NCM	
46	7	I	28	Dark Brown	Silt Loam		NCM	
46	7	II	46	Yellowish Brown	Silty Clay		NCM	
46	8	I	24	Dark Brown	Silt Loam		NCM	
46	8	II	46	Reddish Brown	Silty Clay		NCM	
46	9	I	25	Grayish Brown	Silt Loam		NCM	
46	9	II	42	Reddish Brown	Silty Clay Loam		NCM	
46	10	I	23	Dark Brown	Silt Loam		NCM	
46	10	II	41	Yellowish Brown	Silty Clay Loam		NCM	
46	11	I	28	Dark Brown	Silt Loam	Gravel Fill	NCM	
47	1	I	23	Dark Brown	Silt Loam		NCM	
47	1	II	51	Reddish Brown	Silty Clay		NCM	
47	2	I	22	Dark Grayish Brown	Silt Loam		NCM	
47	2	II	43	Reddish Brown	Clay		NCM	
47	3	I	25	Dark Brown	Silt Loam		NCM	
47	3	II	43	Reddish Brown	Silt Loam		NCM	
47	4	I	22	Dark Brown	Silt Loam		NCM	
47	4	II	44	Reddish Brown	Silt Loam		NCM	
47	5	I	25	Dark Brown	Silt Loam		NCM	
47	5	II	40	Reddish Brown	Silt Loam		NCM	
47	6	I	29	Dark Grayish Brown	Silt Loam		NCM	
47	6	II	40	Reddish Brown	Clay		NCM	
47	7	I	32	Dark Grayish Brown	Silt Loam		NCM	
47	7	II	42	Reddish Brown	Clay		NCM	



Trans	Shovel Test	Level	Depth Below Surface (CM)	Soil Color	Soil Matrix (Primary)	Soil Matrix (Secondary)	Artifacts Recovered	Comments
47	8	I	32	Dark Grayish Brown	Silt Loam		NCM	
47	8	II	43	Reddish Brown	Clay		NCM	
47	9	I	28	Dark Grayish Brown	Silt Loam		NCM	
47	9	II	40	Reddish Brown	Clay		NCM	
47	10	I	22	Dark Grayish Brown	Silt Loam		NCM	
47	10	II	34	Reddish Brown	Silt Loam		NCM	
48	1	I	26	Dark Brown	Silt Loam		NCM	
48	1	II	37	Reddish Brown	Clay		NCM	
48	2	I	29	Dark Brown	Silt Loam		NCM	
48	2	II	43	Reddish Brown	Silt Loam		NCM	
48	3	I	28	Dark Brown	Silt Loam		NCM	
48	3	II	40	Dark Reddish Brown	Silty Clay Loam		NCM	
48	4	I	27	Dark Brown	Silt Loam		NCM	
48	4	II	39	Dark Reddish Brown	Clay		NCM	
48	5	I	29	Dark Grayish Brown	Silt Loam		NCM	
48	5	II	40	Reddish Brown	Clay		NCM	
48	6	I	32	Dark Grayish Brown	Silt Loam		NCM	
48	6	II	42	Reddish Brown	Clay		NCM	
48	7	I	32	Dark Grayish Brown	Silt Loam		NCM	
48	7	II	43	Reddish Brown	Clay		NCM	
48	8	I	28	Dark Grayish Brown	Silt Loam		NCM	
48	8	II	40	Reddish Brown	Clay		NCM	
48	9	I	22	Dark Grayish Brown	Silt Loam		NCM	
48	9	II	34	Reddish Brown	Silt Loam		NCM	
48	10	I	27	Dark Brown	Silt Loam		NCM	
48	10	II	37	Reddish Brown	Silt Loam		NCM	
49	1	I	25	Dark Grayish Brown	Silt Loam		NCM	
49	1	II	36	Reddish Brown	Clay		NCM	
49	2	I	26	Dark Brown	Silt Loam		NCM	
49	2	II	42	Reddish Brown	Clay		NCM	
49	3	I	25	Dark Brown	Silt Loam		NCM	
49	3	II	35	Reddish Brown	Clay		NCM	
49	4	I	26	Dark Brown	Silt Loam		NCM	
49	4	II	37	Reddish Brown	Clay		NCM	
49	5	I	30	Dark Brown	Silt Loam		NCM	
49	5	II	43	Dark Grayish Brown	Silt Loam		NCM	
49	6	I	26	Dark Brown	Silt Loam		NCM	
49	6	II	39	Reddish Brown	Clay		NCM	
49	7	I	22	Dark Brown	Silt Loam		NCM	
49	7	II	37	Reddish Brown	Clay		NCM	
49	8	I	29	Dark Brown	Silt Loam		NCM	
49	8	II	40	Reddish Brown	Clay		NCM	
49	9	I	24	Dark Grayish Brown	Silt Loam		NCM	
49	9	II	35	Reddish Brown	Silty Clay		NCM	
49	10	I	27	Dark Brown	Silt Loam		NCM	
49	10	II	39	Reddish Brown	Silt Loam		NCM	
50	1	I	25	Grayish Brown	Silt Loam		NCM	
50	1	II	36	Reddish Brown	Clay		NCM	
50	2	I	24	Dark Grayish Brown	Silt Loam		NCM	
50	2	II	48	Reddish Brown	Clay		NCM	
50	3	I	27	Dark Brown	Silt Loam		NCM	
50	3	II	39	Reddish Brown	Silt Loam		NCM	
50	4	I	26	Dark Brown	Silt Loam		NCM	
50	4	II	45	Reddish Brown	Silty Clay		NCM	

Trans	Shovel Test	Level	Depth Below Surface (CM)	Soil Color	Soil Matrix (Primary)	Soil Matrix (Secondary)	Artifacts Recovered	Comments
50	5	I	23	Dark Grayish Brown	Silt Loam		NCM	
50	5	II	33	Reddish Brown	Silty Clay		NCM	
50	6	I	23	Dark Brown	Silty Clay Loam		NCM	
50	6	II	33	Reddish Brown	Clay		NCM	
50	7	I	27	Dark Brown	Silt Loam		NCM	
50	7	II	37	Yellowish Brown	Silt Loam		NCM	
50	8	I	24	Dark Brown	Silt Loam		NCM	
50	8	II	34	Reddish Brown	Silt Loam		NCM	
50	9	I	26	Dark Brown	Silt Loam		NCM	
50	9	II	36	Reddish Brown	Clay		NCM	
50	10	I	13	Dark Brown	Silty Clay Loam		NCM	
50	10	II	23	Reddish Brown	Clay		NCM	
51	1	I	18	Dark Brown	Silt Loam		NCM	
51	1	II	28	Reddish Brown	Clay		NCM	
51	2	I	21	Dark Brown	Silt Loam		NCM	
51	2	II	31	Yellowish Brown	Silt Loam		NCM	
51	3	I	28	Dark Brown	Silt Loam		NCM	
51	3	II	47	Reddish Brown	Silty Clay		NCM	
51	4	I	24	Dark Grayish Brown	Silt Loam		NCM	
51	4	II	48	Reddish Brown	Clay		NCM	
51	5	I	25	Dark Brown	Silt Loam		NCM	
51	5	II	35	Reddish Brown	Silty Clay		NCM	
51	6	I	26	Dark Brown	Silt Loam		NCM	
51	6	II	47	Reddish Brown	Clay		NCM	
51	7	I	22	Dark Grayish Brown	Silt Loam		NCM	
51	7	II	32	Yellowish Brown	Silt Loam		NCM	
51	8	I	23	Dark Grayish Brown	Silt Loam		NCM	
51	8	II	33	Yellowish Brown	Silt Loam		NCM	
51	9	I	24	Dark Brown	Silt Loam		NCM	
51	9	II	34	Yellowish Brown	Silt Loam		NCM	
51	10	I	30	Dark Brown	Silt Loam		NCM	
51	10	II	40	Yellowish Brown	Silt Loam		NCM	
52	1	I	20	Dark Brown	Silt Loam		NCM	
52	1	II	30	Reddish Brown	Clay		NCM	
52	2	I	19	Dark Brown	Silty Clay Loam		NCM	
52	2	II	29	Reddish Brown	Clay		NCM	
52	3	I	23	Dark Brown	Silty Clay Loam		NCM	
52	3	II	33	Reddish Brown	Clay		NCM	
52	4	I	28	Grayish Brown	Silt Loam		NCM	
52	4	II	49	Yellowish Brown	Silty Clay		NCM	
52	5	I	26	Dark Brown	Silt Loam		NCM	
52	5	II	48	Reddish Brown	Silty Clay		NCM	
52	6	I	24	Dark Grayish Brown	Silt Loam		NCM	
52	6	II	51	Reddish Brown	Clay		NCM	
52	7	I	28	Dark Brown	Silt Loam		NCM	
52	7	II	36	Reddish Brown	Silt Loam		NCM	
52	8	I	24	Dark Brown	Silt Loam		NCM	
52	8	II	36	Reddish Brown	Silt Loam		NCM	
52	9	I	42	Grayish Brown	Silt Loam		NCM	
52	9	II	60	Reddish Brown	Silt Loam		NCM	
52	10	I	43	Dark Grayish Brown	Silt Loam		NCM	
52	10	II	57	Reddish Brown	Silty Clay		NCM	
53	1	I	28	Grayish Brown	Silty Clay		NCM	
53	1	II	46	Reddish Brown	Silty Clay		NCM	

Trans	Shovel Test	Level	Depth Below Surface (CM)	Soil Color	Soil Matrix (Primary)	Soil Matrix (Secondary)	Artifacts Recovered	Comments
53	2	I	25	Grayish Brown	Silty Clay		NCM	
53	2	II	40	Reddish Brown	Silty Clay		NCM	
53	3	I	21	Grayish Brown	Silt Loam		NCM	
53	3	II	38	Reddish Brown	Silty Clay		NCM	
53	4	I	31	Dark Brown	Silt Loam		NCM	
53	4	II	41	Reddish Brown	Silty Clay		NCM	
53	5	I	26	Dark Brown	Silt Loam		NCM	
53	5	II	48	Yellowish Brown	Silt Loam		NCM	
53	6	I	25	Dark Grayish Brown	Silt Loam		NCM	
53	6	II	40	Yellowish Brown	Silt Loam		NCM	
53	7	I	26	Dark Brown	Silt Loam		NCM	
53	7	II	40	Reddish Brown	Silty Clay Loam		NCM	
53	8	I	24	Dark Brown	Silt Loam		NCM	
53	8	II	41	Reddish Brown	Silty Clay		NCM	
53	9	I	25	Dark Grayish Brown	Silt Loam		NCM	
53	9	II	48	Reddish Brown	Clay		NCM	
53	10	I	31	Dark Brown	Silt Loam		NCM	
53	10	II	41	Reddish Brown	Silt Loam		NCM	
54	1	I	24	Dark Brown	Silt Loam		NCM	
54	1	II	36	Reddish Brown	Silt Loam		NCM	
54	2	I	24	Dark Brown	Silt Loam		NCM	
54	2	II	35	Reddish Brown	Silty Clay		NCM	
54	3	I	26	Dark Grayish Brown	Silt Loam		NCM	
54	3	II	36	Reddish Brown	Silt Loam		NCM	
54	4	I	29	Dark Brown	Silt Loam		NCM	
54	4	II	41	Reddish Brown	Silt Loam		NCM	
54	5	I	28	Grayish Brown	Silt Loam		NCM	
54	5	II	39	Yellowish Brown	Silt Loam		NCM	
54	6	I	29	Dark Brown	Silt Loam		NCM	
54	6	II	39	Reddish Brown	Silt Loam		NCM	
54	7	I	27	Grayish Brown	Silty Clay		NCM	
54	7	II	38	Reddish Brown	Silt Loam		NCM	
54	8	I	24	Dark Brown	Silt Loam		NCM	
54	8	II	34	Reddish Brown	Silt Loam		NCM	
55	1	I	28	Dark Brown	Silt Loam		NCM	
55	1	II	38	Reddish Brown	Silt Loam		NCM	
55	2	I	28	Dark Brown	Silt Loam		NCM	
55	2	II	39	Reddish Brown	Silt Loam		NCM	
55	3	I	21	Dark Brown	Silt Loam		NCM	
55	3	II	36	Yellowish Brown	Silt Loam		NCM	
56	1	I	30	Grayish Brown	Silt Loam		NCM	
56	1	II	40	Reddish Brown	Silty Clay		NCM	
56	2	I	31	Dark Brown	Silt Loam		NCM	
56	2	II	41	Yellowish Brown	Silt Loam		NCM	
56	3	I	34	Dark Brown	Silt Loam		NCM	
56	3	II	44	Yellowish Brown	Silt Loam		NCM	
57	1	I	21	Dark Brown	Silt Loam		NCM	
57	1	II	31	Reddish Brown	Clay		NCM	
57	2	I	26	Dark Brown	Silty Clay Loam		NCM	
57	2	II	35	Reddish Brown	Clay		NCM	
57	3	I	22	Dark Brown	Silt Loam		NCM	
57	3	II	43	Reddish Brown	Clay		NCM	
57	4	I	21	Dark Brown	Silt Loam		NCM	
57	4	II	47	Reddish Brown	Silty Clay Loam		NCM	



Trans	Shovel Test	Level	Depth Below Surface (CM)	Soil Color	Soil Matrix (Primary)	Soil Matrix (Secondary)	Artifacts Recovered	Comments
58	1	I	14	Grayish Brown	Silty Clay Loam		NCM	
58	1	II	36	Reddish Brown	Clay		NCM	
58	2	I	11	Grayish Brown	Silty Clay		NCM	
58	2	II	40	Reddish Brown	Clay		NCM	
58	3	I	20	Grayish Brown	Silt Loam		NCM	
58	3	II	42	Reddish Brown	Silt Loam		NCM	
59	1	I	22	Dark Grayish Brown	Sandy Loam	Grave Fill	NCM	
59	1	II	43	Brown	Sand	Gravel	NCM	
59	2	I	21	Grayish Brown	Sandy Loam	Gravel Fill	NCM	
59	2	II	46	Brown	Sand	Gravel	NCM	
60	1	I	22	Grayish Brown	Silt Loam		NCM	
60	1	II	48	Reddish Brown	Silt Loam		NCM	
60	2	I	14	Grayish Brown	Sandy Loam	Gravel	NCM	
60	2	II	41	Reddish Brown	Sandy Clay	Gravel	NCM	
60	3	I	24	Grayish Brown	Silty Clay Loam	Gravel	NCM	
60	3	II	35	Brown	Sand	Gravel	NCM	
60	4	I	16	Dark Brown	Silt Loam	Gravel	NCM	
60	4	II	41	Reddish Brown	Clay	Gravel	NCM	
60	5	I	19	Dark Brown	Sandy Loam	Gravel	NCM	
60	5	II	37	Reddish Brown	Sandy Clay	Gravel	NCM	
60	6	I	25	Dark Brown	Sandy Loam	Gravel	NCM	
60	6	II	48	Reddish Brown	Sand	Gravel	NCM	
60	7	I	26	Dark Brown	Sandy Loam	Gravel	NCM	
60	7	II	43	Reddish Brown	Sandy Clay	Gravel	NCM	