

**PHASE I ARCHAEOLOGICAL SURVEY OF
THE NORTH MILLSBORO BYPASS
PROJECT, SUSSEX COUNTY, DELAWARE**

PARENT AGREEMENT 1924F, TASK 6

by
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Prepared for
Delaware Department of Transportation

Prepared by
DOVETAIL
CULTURAL RESOURCE GROUP

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ABSTRACT

On behalf of the Delaware Department of Transportation (DelDOT), Dovetail Cultural Resource Group (Dovetail) conducted a Phase I archaeological survey of the proposed North Millsboro Bypass APE in Sussex County, Delaware. The survey was conducted in association with the proposed bypass around Millsboro off of U.S. Route 113, and examined areas of potential disturbance along the route of the bypass. The five different discrete areas surveyed by Dovetail are designated Areas 1, 2A, 2B, 5, and 6. Areas 3 and 4 were scheduled to be surveyed by A.D. Marble and thus were not part of the present project. The project is receiving partial funding through the Federal Highway Administration (FHWA), thus necessitating compliance with Section 106 of the National Historic Preservation Act of 1966 (NHPA), as amended. To meet the requirements of the NHPA, Phase I archaeological survey of these separate areas was undertaken between January and February 2021.

The goal of the investigations was to identify any archaeological sites or above-ground features associated with a site, such as building foundations, wells, etc., that may be eligible for listing in the National Register of Historic Places (NRHP) within the area of potential effect (APE). Dovetail completed a background literature and records review of the project vicinity at the Delaware State Historic Preservation Office (DE SHPO), as well as accessing the DE SHPO's online Cultural and Historical Resources Information System (CHRIS). CHRIS did not depict any previously recorded archaeological sites or above-ground resources located within the proposed footprints of the Millsboro Bypass APE.

The Phase I archaeological survey consisted of pedestrian survey, metal detecting, 2,228 shovel test pits (STPs), and 12 test units (TUs) in five locations (Areas 1, 2A, 2B, 5, and 6) with the potential to contain intact sites, which resulted in the identification of four mid-nineteenth- through late-twentieth-century sites (7S-F-174, 7S-F-175A, 7S-F-175B, and 7S-F-173) and seven Isolated Finds (IFs). A total of 51 historic artifact were recovered from site 7S-F-174; 615 historic artifacts from site 7S-F-175A; 19 historic artifacts from site 7S-F-175B; and 847 historic artifacts from site 7S-F-173. These types of sites are ubiquitous across the rural landscape. Therefore, data resulting from additional archaeological investigations would not add new information to our knowledge about mid-nineteenth-through late-twentieth-century rural life in Sussex County, Delaware. As such, **Dovetail recommends sites 7S-F-174, 7S-F-175A, 7S-F-175B, and 7S-F-173 are not eligible for inclusion in the NRHP under Criteria A–D.** No further archaeological work at these sites is recommended.

Isolated finds refer to spatially discrete areas marked by surface indications and little else, assemblages that result from simple loss, or casual or single-episode discard. The probability that further work at isolated finds will contribute important new information is extremely low; therefore, **ISF 1–ISF 7, by definition, are not eligible for listing in the NRHP.**

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INTRODUCTION

On behalf of the Delaware Department of Transportation (DelDOT), Dovetail Cultural Resource Group (Dovetail) conducted a Phase I archaeological survey in association with the proposed Millsboro Bypass project area in Sussex County, Delaware. DelDOT is completing environmental studies associated with the creation of a bypass around the community of Millsboro. The project includes a two-lane connector road between US Route 113 and State Route (SR) 24 north of Millsboro to improve safety and reduce congestion through town. The new bypass will also include a grade-separated intersection at the US 113/SR 20 intersection. Based on data received from DelDOT, the archaeological area of potential effect (APE) includes areas within the project's permanent and temporary construction footprint where there is potential to disturb subsurface resources.

The goal of the investigations was to identify any archaeological sites or above-ground features associated with a site, such as building foundations, wells, etc., in or eligible for listing in the National Register of Historic Places (NRHP) within the project's archaeological APE, defined as the proposed limits of disturbance. The present survey investigated five discrete areas, designated Areas 1, 2A, 2B, 5, and 6 in this report (Figure 1–Figure 3, pp. 3–5). Areas 3 and 4 were scheduled to be surveyed by A.D. Marble and thus were not part of Dovetail's investigations. The project is receiving partial funding through the Federal Highway Administration (FHWA), thus necessitating compliance with Section 106 of the National Historic Preservation Act of 1966 (NHPA), as amended.

Dovetail completed a background literature and records review of the project vicinity at the Delaware State Historic Preservation Office (DE SHPO) in order to identify previous cultural resource studies in the area and to collect information on any previously recorded resources. The DE SHPO's online Cultural and Historical Resources Information System (CHRIS) was also accessed for locational data on previous surveys and previously recorded resources. This research helped to develop a historic context for any identified resources. In addition to this background review, site-specific archival research was performed to understand the occupational and developmental history of the sites.

The fieldwork was originally scheduled to commence on January 11, 2021. A preliminary site visit of the project area was completed in December 2020. During this process, Dovetail staff spoke to area property owners and farmers to begin to coordinate logistics; these individuals stated that they did not give permission for certain areas to be plowed and disced. After discussing the issue with DelDOT and to address owner requests, property acquisition issues, and times concerns, it was decided that methods should be changed from plow and disc to a standard shovel test survey, employing a 50-foot (15.2 m) grid in Areas 1, 2A, 2B, 5, and 6.

The Phase I archaeological fieldwork, consisting of the excavation of shovel test pits (STPs), measured test units (TUs), and metal detecting in those portions of the project area identified as having the potential for intact deposits, was conducted between January 24 and February 27, 2021. Fieldwork was conducted by Bill Liebeknecht, Kevin McCloskey, Julie Chylsta,

Jonas Schnur, Jeff Phillips, Sara Hitchens, Tim Hitchens, Caleb Jeck, Jordan Scott, Sarah Belton, Katie Rodriguez, and Alison Cramer. Mr. Liebeknecht exceeds the standards set for Archaeologists by the Secretary of the Interior (SOI) and served as the Principal Investigator.

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Figure 1: Map of Sussex County Showing the Location of the Project Area (Esri 2021a).

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Figure 2: Location of Areas 1, 2A, 2B, 5 and 6 on the 7.5-Minute Digital Raster Graphic
Mosaic of Sussex County, Delaware (Esri 2021b).

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Figure 3: Location of Areas 1, 2A, 2B, 5, and 6 (FirstMap 2017).

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PROJECT AREA DESCRIPTION

Dovetail's portion of the North Millsboro Bypass project was divided into five separate areas: 1, 2A, 2B, 5, and 6. Together, the five areas include approximately 114 acres (46.1 ha) (Photo 1–Photo 6, pp. 7–10; Figure 4 and Figure 5, pp. 11 and 12). All five areas are either fallow or active agricultural fields. Area 1 is situated between Betts Pond Road and Sheep Pen Ditch on the northeast side of DuPont Boulevard (U.S. 113). Area 1, which is part active and part fallow farm field, is bisected by Patriots Way. Area 2A, an active farm field, lies adjacent to Fox Run Road, 0.08 miles (0.13 km) southeast of its intersection with Patriots Way, between the road and the Norfolk Southern rail line. Area 2B, an abandoned farm field, has not been active since a train derailment in July 2013 left debris scattered across the field. Area 2B lies adjacent to Fox Run Road, 0.33 miles (0.53 km) southeast of its intersection with Patriots Way, between the road and the Norfolk Southern rail line. Area 5, an active farm field, is situated along the east side of Gravel Hill Road, approximately 0.57 miles (0.9 km) north of its intersection with John J. Williams Highway (DE-24). Area 6, an active farm field, is located northeast of the intersection of Hollyville Drive and DE-24.



Photo 1: View Northwest Showing the Active Agricultural Field in Area 1 on the North Side of Patriots Way.



Photo 2: View Northwest Showing the Fallow Landscape in Area 1 on the North Side of Patriots Way.



Photo 3: View South Showing the Active Agricultural Field in Area 1 on the South Side of Patriots Way.



Photo 4: View Northeast Showing the Active Agricultural Field in Area 2A.



Photo 5: View Northeast Showing the Abandoned Field in Area 2B.



Photo 6: View East Showing the Active Agricultural Field in Area 5.



Photo 7: View East Showing the Active Agricultural Field in Area 6.

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Figure 4: Location of Areas 1, 2A, and 2B (FirstMap 2017).

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Figure 5: Locations of Areas 5 and 6 (FirstMap 2017).

ENVIRONMENTAL SETTING

The project area is located just outside the town of Millsboro. This part of Sussex County has historically been rural, with large tracts of farmland, and mainly remains so today. Despite the predominantly rural character of Sussex County, areas along and adjacent to the coast have experienced residential and commercial suburban development due to proximity to beach access. Additionally, improvements to U.S. 113 in Millsboro created a divided four-lane highway, which improved access to the area from more populated northern Delaware and southeastern Pennsylvania.

Geology

The project area is in the Lower Coastal Plain physiographic zone in the Coastal Bay management zone subdivision. The Lower Coastal Plain physiographic zone covers the entirety of Delaware south of the Smyrna River (Custer 1984; Custer et al. 1986; Hodny et al. 1989). The Columbia Formation characterizes the sediments of the southern Delaware Coastal Plain. Columbia sediments comprise sands, primarily composed of quartz and feldspar, as well as coarse sandstone, quartz, and chert gravels deposited by watercourses from the north during the Quaternary Period (Custer 1984; Jordan 1964). Movement and reworking of the sands over time created a relatively flat landscape with elevations ranging up to 30 feet (9.1 m) above mean sea level (AMSL). In addition, the long, gradual slopes that characterize the area make the small elevation differences less drastic. Despite the flat topography, the area is home to a variety of environments as a result of riverine and coastal marsh systems attractive to both wildlife and humans (Custer 1989).

Hydrology

Areas 1, 2A, and 2B are drained by Sheep Pen Ditch that flows east into Millsboro Pond. Area 5 drains directly into Millsboro Pond. Millsboro Pond flows generally east to the Indian River. Area 6 drains south into an unnamed small tributary of the Indian River. The Indian River continues east to the Indian River Bay, which drains through the Indian River Inlet to the Atlantic Ocean.

Soils

Fertile, well-drained soils attracted both humans and game over millennia. Moreover, the wild grasses, fruits, and seeds consumed by people both before and after the adoption of agriculture flourished in such settings. As a consequence, numerous archaeologists have cited the correlation between the distribution of level to gently sloping, well-drained, fertile soils and archaeological sites (e.g., Lukezic 1990; Potter 1993; Turner 1976; Ward 1965). Soil scientists classify soils according to natural and artificial fertility and the threat posed by erosion and flooding, among other attributes. Soil Classes 1 and 2 represent the most fertile soils, those best suited for not only agriculture but for a wide range of uses. Of course, soil productivity must be considered in relation to the productivity of the surrounding soils as

well. Within the project area, the Class 1 Ingleside loamy sand constitute the most attractive settings for prehistoric and historic sites. Nevertheless, archaeological sites potentially exist on the Class 2s and 2w soils which make up the rest of the project area (Table 1; Figure 6 and Figure 7, pp. 15 and 16).

Table 1: Soils in the Project Area (Soil Survey Staff 2017).

Areas	Soil Name	Class	Slope	Characteristics
1, 2A, 2B, 5, 6	Fort Mott-Henlopen complex	2s	0–2%	Well-drained, Shallow
1, 2A, 2B, 5	Fort Mott-Henlopen complex	2s	2–5%	Well-drained, Shallow
6	Ingleside loamy sand	1	0–2%	Well-drained, Prime farmland
1, 2A	Pepperbox-Rosedale complex	2w/2s	0–2%	Wet/Shallow

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Figure 6: Soils within Areas 1, 2A, and 2B (Soil Survey Staff 2017).

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Figure 7: Soils within Areas 5 and 6 (Soil Survey Staff 2017).

CULTURAL CONTEXT

Prehistoric Context

There are five general chronological periods of Native American cultures of the Delmarva Peninsula defined by Custer (1984, 1986): Paleoindian (15,000–8500 BP), Archaic (8500–5000 BP), Woodland I (5000–1000 BP), Woodland II (1000 BP–AD 1650), and the Contact period (AD 1650–1750). Recently, the possibility of a human presence in the region that pre-dates the previously recognized earliest dates for the Paleoindian period has moved from remote to possible; for this reason, a Pre-Clovis discussion precedes the five periods identified by Custer (1986).

Pre-Clovis (?–13,000 BP)

The 1927 discovery, at Folsom, New Mexico, of a fluted point in the ribs of an extinct species of bison proved that ancient North Americans had immigrated during the Pleistocene. It did not, however, establish the precise timing of the arrival of humans in the Americas, nor did it adequately resolve questions about the lifestyle of those societies (Meltzer 1988:2–3). Recent discoveries imply that humans perhaps occupied the Americas, including the Eastern Shore, prior to the appearance of Clovis fluted points in the archeological record (e.g., Carr 2018:219–223). Lowery et al. (2010), for example, describe a possible pre-Clovis assemblage collected from the Miles Point site (18TA365) in Talbot County, Maryland. The in situ assemblage from a buried stratum includes a biface broadly similar to the lanceolate blades recovered from the potential pre-Clovis contexts at Cactus Hill (44SX0202) (McAvoy and McAvoy 1997). Accelerator mass spectrometry (AMS) assays from charcoal in the possible pre-Clovis stratum ranged in age from 21,490 +/- 140 BP to 27,240 +/- 230 BP.

Paleoindian Period (15,000–8500 BP)

The Paleoindian period marks the retreating of glacial conditions and the beginning of a Holocene environment that is characterized by cold temperatures and alternating periods of wet and dry climate. Human adaptation to these environmental conditions resulted in small groups of nomadic Native American hunters and gatherers. Although direct archaeological evidence of non-mammalian food resources by Paleoindian peoples is lacking in Delaware, paleo-environmental data suggests that deciduous, boreal, and grassland biomes were present in the Paleoindian period. These environs would have provided grazing, browsing, and shelter for animals and provided foraging opportunities. Primarily, Paleoindian toolkits were designed for game procurement and processing. They include projectile points, hafted and unhafted knives, scrapers, and less formalized flake tools. The fluted point is the early diagnostic hallmark of this period (Clovis, Mid-Paleo, and Dalton). Later point forms of the period were notched and often serrated (Palmer, Amos, Kirk). Toolkits often displayed high degrees of maintenance and reworking, which is consistent with nomadic lifestyles and migration between lithic raw material sources. Custer (1989) has identified Paleoindian sites along the Mid-Peninsular Drainage Divide of the Delmarva Peninsula, with the Hughes Early Man complex in Kent County exemplifying their distributional pattern (Custer 1983, 1984;

Lowery 1999). The Hughes Early Man complex was listed in the NRHP in 1982. Within the Hughes complex, in 1999 Darrin Lowery recovered a Late Paleoindian point over 2 feet (61 cm) below the surface at the Wise-Wix site (Lowery, personal communication 2019). This site was subsequently purchased by the Archaeological Conservancy and is now protected (Dan Griffith, personal communication 2019). Nevertheless, due to the rarity of fluted point discoveries in the region, the probability of identifying Paleoindian resources in the area is low (Custer 1983:52–57).

Archaic Period (8500–5000 BP)

The Archaic period is characterized by the emergence of full Holocene environmental conditions marked by warmer temperatures resulting in continued glacial melt, rising sea levels, and a landscape that was dominated by mesic oak and hemlock forests with patches of grassland vegetation. These forests attracted smaller game, such as deer and turkey, which replaced the cold-adapted grazing animal species, like bison and caribou, which became extinct in the eastern United States (Custer 1984). The rise in sea level caused lowland flooding and the formation of river systems and swamp areas within the Mid-Peninsular Drainage Divide.

The Native American peoples possibly shifted from a pattern of hunting and foraging in small bands during the Paleoindian period to one where plants became a more important food source (Custer 1989:128). A fission-fusion model of social organization helps site identifications of macro, micro, and procurement camps, with group sizes changing in response to the availability of resources each season (Custer 1989:129–130). There was an expansion and diversification in the types of lithic tools being made. Lithic artifacts include bifurcate-base and stemmed projectile points, while ground stone items such as axes, gouges, grinding stones, and plant processing tools appear in the archaeological record for the first time. At this time, there was a marked decline in the use of cryptocrystalline materials for lithic tools, and an increased use of rhyolite (Custer 1984:64–74; 1989:127–140). As is the case with the Paleoindian period, there are no known stratified Archaic period archaeological sites in the Delmarva Peninsula, and evidence therefore takes the form of surface finds. Custer (1983:74) identifies “...Archaic procurement sites seem to be scattered on small areas of relatively higher elevation *adjacent to* swampy or poorly drained ground...” (Custer 1984:72).

Among the better-known Archaic period sites in Delaware are a series of resources, including the Clyde Farm site, located on terraces around the freshwater swamp known as Churchman’s Marsh (Custer et al. 1986) and a cluster of bifurcate point sites in a similar setting in the Burnt/Cedar Swamp Upper Pocomoke region of south-central Delaware.

Woodland I (5000 BP–1000 BP)

The Woodland I period overlaps with and is used in place of the Late Archaic period in Delaware. The Woodland I period is marked by a pronounced warm and dry period, and dramatic changes in local environments and climate. Oak-hemlock forests were replaced initially by oak-hickory forests, followed by oak-chestnut forests. These nut bearing trees

provided reliable rich food sources. In southern Delaware, forests were dominated by oak and pine. Sea level rise slowed, allowing stabilization of riverine and estuarine areas, marked by large brackish water marshes, which in turn led to an increase in aquatic resources such as shellfish and large numbers of anadromous fish (Custer 1984).

Beginning around 5,000 BP, there is a marked increase in the number of base camps throughout the Delmarva Peninsula and an emphasis on locations with a reliable supply of surface water. Seasonal occupation of base camps is recognizable and there is also intensive use of coastal sites. In essence, the aboriginal population can be described as semi-sedentary for the first time. Interior settings were utilized for periodic short-term forays to procure a variety of resources. Storage pits and evidence of semi-subterranean house structures are found at these sites for the first time. These dome-shaped, wigwam-like structures are thought to have been covered with bark. Interior hearths and food storage pits suggest they were occupied during cold weather conditions. Numerous examples of pit houses dating throughout the Woodland I period were excavated as part of the State Route 1 compliance excavations. Custer postulates that communities would have consisted of small family units consisting of from two to six houses (1984:7–145). Repeated occupations indicate a highly focused settlement system lasting over generations (Custer 1988:44).

Two archaeological traditions or complexes are used to define the early portion of the Woodland I period – the Clyde Farm Complex in the Churchman’s Marsh area of northern New Castle County and the Barker’s Landing Complex in Kent and Sussex Counties. Both complexes persisted until around 2,500 BP and are reflective of the changes in tool kits, settlement and resource procurement patterns, and social organization that distinguish the Woodland I period from the Archaic (Custer 1984:113–130; 1989:185–248). From around 2,500 BP to 2,000 BP, the Woodland I period cultures reached a peak of complexity and show clear signs of Adena influence from the Ohio Valley. The Wolfe Neck and Delmarva Adena Complexes are both distinguished by new pottery styles, evidence of increased trade and exchange networks, intensified food gathering, and expanded exploitation of estuarine resources. A Wolfe Neck component has been identified at many earlier Woodland I sites (e.g., the Clyde Farm, Delaware Park, and Mitchell Farm sites). Adena influences have been recognized at more than a hundred sites in the Delmarva Peninsula, but only a handful of these have been archaeologically examined in detail (Custer 1984:75–145).

The number of identified Delmarva Adena complex sites suggests the Adena thrived in central Delaware. The telltale signs of Adena influence are the presence of raw materials originating from the Ohio Valley and diagnostic materials such as corner-notched and side-notched projectile points, large finely-fashioned bifaces, copper beads, tubular beads and clay-tempered ceramics. Ceramics typically associated with the Delmarva Adena include wares such as Nassawango, Coulbourn, and Wilgus wares (Custer 1989:251–252).

The Woodland I period is marked by narrow-bladed stemmed, broad-bladed, and fishtail projectile points, as well as an increased use of nonlocal lithics such as rhyolite, argillite, and steatite bowls. Rhyolite can be found in south-central Pennsylvania and western Maryland, steatite is found in the Piedmont areas of Pennsylvania and Maryland, and argillite outcrops north of Trenton, New Jersey on both side of the Delaware River (Custer 1984). In Delaware, use of these nonlocal materials has been associated with the Clyde Farm Complex in the

northern portion of the state and the Barkers Landing Complex in the central portion of the state. Broad bladed projectile points commonly called broadspears consist of four main types (Lehigh/Koens-Crispin, Savannah River, Perkiomen, and Susquehanna). Based on use-wear analysis, Broadspears likely functioned as knives (Custer 1991:51–73; Custer and Mellin 1986:1–29; Truncer 1988:61–70). Custer suggests some larger Fox Creek points dating to the later stages of the Woodland I period also functioned as knives. Meadowood side-notched points as well as Meadowood cache blades occur between circa 3200 and 2500 BP (Granger 1978:96–122, 1981:63–103; Kraft 2001:161–162; Tache 2008). These well-made points are characterized by their flat cross section and are thought to have been entirely made using copper pressure flaking tools (Liebeknecht 2011:29–40).

Ceramics replaced steatite bowls around 3000 BP (Custer 1984). Woodland I period ceramics have been studied in considerable detail. Beginning with the steatite tempered Marcey Creek plain ware, the sequence progresses through to Dames Quarter and Seldon Island wares, Wolfe Neck ware (cord and net-impressed), a range of clay- (grog) tempered wares (e.g., Nassawango, Coulbourn, Wilgus), shell-tempered Mockley ware, and the quartz-tempered, fabric or cord-impressed Hell Island ware (Custer 1984:93–113; 1989b:144–176).

Woodland II (1000 BP–AD 1650)

The Woodland II period overlaps with and has been used in place of the Late Woodland period in Delaware. The Woodland II period is generally marked by more intensive use of plant foods in the Mid-Atlantic region and a shift to a more sedentary lifestyle and the development of an agricultural system. The increased harvesting of plants and shellfish, expanded the use of storage pits and the appearance of more permanent house structures. Increased sedentism brought increased population growth and the establishment of semi-sedentary villages with multiple social units that soon surpassed the macro-band base camps in size and complexity. The emphasis on expanding agricultural systems caused a shift to the fertile floodplains of the major drainages as the focus of settlement (Custer 1989:146–171).

Diagnostic types of lithics and ceramics associated with the Woodland II period consist of small triangular projectile points related to the appearance of the bow and arrow, and ceramics including Townsend, Minguannan and Killens wares. Two main complexes have been identified for the Woodland II period in Delaware, the Minguannan Complex and the Slaughter Creek Complex. The Minguannan Complex includes macro-band base camps in a variety of settings throughout the Delmarva Peninsula. The Slaughter Creek Complex has been defined by the presence of Townsend ceramics, very large macro-band base camps, possible villages, and numerous storage features. Important sites in this complex, include the Slaughter Creek site, the Townsend site, and the Mispillion site (Custer 1989: 298–331).

Contact Period (AD 1650–1750)

The Contact period is marked by the initial contact between the Native American peoples of Delaware and European colonists. In southern Delaware, the available evidence suggests that resident native populations may have had minimal interaction with European settlers early on because the Susquehannock residing in southeastern Pennsylvania dominated the fur trade.

By 1763, the Susquehannock refugees formed what Custer calls “Refugee Complexes” which are virtually non-existent in Delaware (Custer 1996:315; Kent 1989; but see Custer 2018:352–354 for a discussion of more nuanced interpretations).

Historic Context

In general, the history of Delaware is divided into six time periods beginning with the exploration of the area by numerous European peoples and concluding with modern urbanization of the state itself. These periods are: Exploration and Frontier Settlement (1630–1730), Intensified and Durable Occupation (1730–1770), Early Industrialization (1770–1830), Industrialization and Early Urbanization (1830–1880), Urbanization and Early Suburbanization (1880–1940), and Recent History (1940–Present).

Exploration and Frontier Settlement (1630–1730)

The first European to explore the Delaware River was Henry Hudson in 1609, yet it was the Dutch West India Company, who sent the first settlers to the area and established settlements at High Island in 1624 and Lewes in 1631, that opened the region for colonization (Weslager 1961:11). By 1632, conflict with the Native American population forced the settlements to be abandoned. In 1638, after “purchasing” land from the Native Americans, Swedish colonists established settlements on the banks of the Delaware River from Cape Henlopen to modern Trenton with the center of the colony being Fort Christina. Swedish and Finnish immigrants settled in this region. However, the Dutch West India Company still claimed the entire coastline from New York to the Chesapeake Bay and, in 1651, they established Fort Casimir at the site of present-day New Castle. After a military struggle, the Dutch captured Fort Christina in 1655 and established more settlements in the area, including the town of New Amstel near Fort Casimir (Weslager 1961:12).

In 1664, Sir Robert Carr, acting on behalf of James, Duke of York and Albany, confiscated the lands, houses, and property of Dutch officials in the Delaware Valley region and transferred authority of the Dutch colonies to England. By 1680, Kent County, then called St. John’s, was formed. In 1681, William Penn received propriety rights over Pennsylvania from King Charles II. This grant included all the land west of the Delaware River between 40- and 43-degrees north latitude. Penn believed his land was too far from the sea and, in 1692, persuaded the Duke of York to convey the three Delaware counties, New Castle, Kent, and Sussex, to him. The Delaware and the Pennsylvania colonists found themselves in disagreement over voting power, appropriations, and religious character. This led to the counties breaking away and the creation of the new colony of Delaware in 1704 (Munroe 1984). Soon after, in 1717, the town of Dover was laid out and settled.

Settlement patterns in Delaware shifted from closely spaced Dutch and Swedish villages along the Delaware River to scattered farmsteads along internal drainages and emerging roadways. Transportation routes in the late-seventeenth and early-eighteenth centuries were dictated by natural waterways, as water transportation provided a cheaper, more efficient method of transporting goods (DeCunzo and Catts 1990:30–35). The ports of Philadelphia,

Wilmington, and New Castle grew steadily and had a large commercial role in the growth of Delaware.

Originally, much of the land around present-day Millsboro belonged to the Assateague tribe (Millsboro Chamber of Commerce 2021). As English settlement in the area of Worcester County increased, members of the Assateague tribe relocated to the regions around the head of the Indian River and became known as the “Indian River Indians” (Millsboro Chamber of Commerce 2021). In 1711, a reservation was established for them along the southwestern area of the river, where much of the southwestern portions of Millsboro are located, by the Maryland Colonial Assembly (Millsboro Chamber of Commerce 2021).

Intensified and Durable Occupation (1730–1770)

In the eighteenth century, Delaware saw an increase in population and commercial expansion. The main settlements were in Wilmington, New Castle, and Lewes. Settlement in Sussex County relied upon navigable water routes, particularly in the western part of the county further away from major bodies of water (Davies and Martin 2001:8). The population of Sussex County is believed to have been around 2,000 people, including the enslaved, in the first decades of the eighteenth century, but had grown to nearly 14,000 inhabitants by 1775 due, in large part, to increased immigration from around Great Britain (Sheppard et al. 2009:13). The settlement that later became the town of Milton began in the mid-eighteenth century as Osborne’s Landing, later going by the name of Conwell’s Landing, Upper Landing, and “Head of the Broadkilm” by 1763. At this time, Milton was one of the largest villages in the county (Sheppard et al. 2009:6).

During this period, the lumber industry grew rampantly in the Lower Peninsula Zone, which required a population of foresters and shippers (Ames et al. 1989:46–47). Most of the state’s residents were farmers, with 80 to 90 percent of the population reported to be engaged in agriculture (Egnal 1975:201). Lands reserved as forests or marshes were cleared and incorporated into the crop cycle as the need for more land for crops increased. Many large estates and land grant parcels were divided, creating new farm properties centered on supplying the market-driven agricultural economy (Frederick et al. 2006:56). In the southern part of the region, agriculture was the main industry, with wheat as the primary crop, followed by rye, corn, barley, oats, and a variety of vegetables (Main 1973). Livestock supplemented farmers’ income from surplus crops as an increased need for labor was filled by indentured servants and enslaved individuals (Frederick et al. 2006:56).

It was during the early-eighteenth century that development around Millsboro increased. By the 1730s and 1740s, the Burton family had purchased most of the land on which Millsboro was eventually founded, including the lands reserved for the Assateague tribe (Carter 1980). The Burton family, who were English settlers, lived on both sides of the Indian River and established several farms, businesses, and mills in the area (Carter 1980). As one of the earliest families to live in Millsboro, by the late-eighteenth century, they were well-established and continued to occupy the town for years to come (Carter 1980).

Early Industrialization (1770–1830)

The American Revolution brought disarray to the region, and social and political unrest in Delaware further heightened an already tense atmosphere. Strong family and political ties to Pennsylvania resulted in support for the Revolutionaries. During the American Revolution, a battery was armed with six 6-pound cannons to defend Lewes against a British assault on the town (Ziesing and Wuebber 2014:28). Only one Revolutionary War battle was fought in Delaware, at Cooch's Bridge near Scottsborough in 1777, during the campaign that led to the Battle of Brandywine. After the Battle of Brandywine, British troops occupied Wilmington and threatened the state capital at New Castle. The capital was moved to Dover, and became Delaware's permanent capital in 1781. By 1790, the population of Sussex County had grown to over 20,000 people, a quarter of which were enslaved (Sheppard et al. 2009:16). Over the next 40 years, however, the percentage of the enslaved population declined as manumission pressures in the area grew.

Northwest Fork Hundred, a portion of Sussex County which was originally part of Maryland, became part of Delaware in 1776 when the boundary line dividing the two states was established (Ames et al. 1989:47). The town of Bridgeville, originally settled as 'Bridge Branch' for the nearby stream of the same name, dates back to 1730 (Kurtze 1994). This settlement was created during the earliest part of the Intensified and Durable Occupation period, during which significant deforestation and the establishment of transportation networks influenced settlement (Ames et al. 1989:47). In the early-nineteenth century, Bridgeville remained larger than any other town in the region—including Seaford and Laurel (Davies and Martin 2001). Although many businesses came to the town, including granaries, blacksmith and carriage shops, and a mill, Bridgeville's growth was limited since the branch was not a major waterway (Davies and Martin 2001).

In the late-eighteenth century, a part of the land which had been settled by the Burton family, was purchased by Elisha Dickerson, who eventually constructed a grist mill, saw mill, and mill dam; it was this development that led directly to the establishment of the Town of Millsboro (Carter 1980; Millsboro Chamber of Commerce 2021). Mills were an integral component of the economy of colonial America (Boatwright 2006). Gristmills became particularly important in that they eased the workload of families; community members could drop off their grain to be ground into flour for them to make bread, an essential part of the early diet, thus allowing them to focus their energies elsewhere (Kalman 1990). Typically, once a mill was formed, a small community would grow around it; given the necessity of mills, people established farms near them. Businesses, such as tanneries or blacksmith shops, also opened nearby in order to benefit from the business brought to the area by the mill (Kalman 1990). This was certainly the case for the Town of Millsboro. The establishment of Dickerson's mills brought further development to the area and by 1792, the town of "Millsborough" was born (Figure 8, p. 24) (Millsboro Chamber of Commerce 2021).

While the War of 1812 is most often associated with sites along the Great Lakes, the Mid-Atlantic region was still an important part of the war. The Delmarva Peninsula, especially, was a center for naval activity and troop movement, because of its strategic location with access to Philadelphia, Washington, D.C., and Baltimore. The British fought hard for control



Figure 8: Map of Delaware (Scott 1795). Pink outline marks the approximate location of Millsboro. Map not to scale.

of the Delaware River and Bay, as Philadelphia was economically the most important city at the time (Lewes Historical Society n.d.). In New Castle County, the flour and textile mills along the Brandywine River, and the DuPont powder mills, were prized targets for the British. With the British bombardment of Lewes in Sussex County on April 6–7, 1813, and the memory of the 1777 invasion by the British during the Revolutionary War, Delawareans were on guard. There was also intelligence suggesting that British raiding parties were coming up the Delaware and Chesapeake Bays, intent on capturing Wilmington. Victor Marie and E.I. DuPont acted quickly, organizing two of their own militia companies, known as the Brandywine Rangers, to protect the city of Wilmington and their powder mills. Fortunately, the attack on Lewes failed, and the British forces moved back down the Bay and turned their attention to Washington, D.C. and Baltimore, thus sparing Wilmington (Hagley 2013).

The series of embargoes leading up to the War of 1812 negatively affected trade in Delaware. From 1800 to 1830, agricultural productivity in Delaware decreased markedly due to depleting soil quality and competition from new lands in the West, and many farmers were forced to sell their land and move to the state's industrial centers to find employment (Frederick et al. 2006:59). To fight decreased soil fertility and improve agriculture, the farmers of New Castle County established the state's first agricultural society in 1804 (Frederick et al. 2006:59). Meanwhile, manufacturing and commerce prospered as the state's population increased. Textiles, paper, snuff, rope, gunpowder, and iron were all produced in New Castle County (Coxe 1814).

The Chesapeake and Delaware Canal (C&D Canal) was opened to traffic in 1829, connecting the Chesapeake Bay with the Delaware River and providing improved market access for area farmers and industrialists (Frederick et al. 2006:62). Overland transportation routes were also constructed at this time and improved to accommodate increased numbers of travelers and trade. The economic depression of 1819, brought on by low costs of wheat and other grains, further decreased the value of agricultural land and crops across the state. During this period, the most successful agrarians became part of central Delaware's rural elite farming class and diversified their interests by purchasing urban properties, investing in banks and manufacturing facilities, and supporting the growth of transportation networks (Siders et al. 1993). Members of this elite class promoted scientific farming and agricultural reform, advocating for the enclosure of farmland and use of new machinery, constructing new farm buildings, increasing livestock production, and controlling patterns of land tenancy (Siders et al. 1993:10).

Industrialization and Early Urbanization (1830–1880)

In southern Delaware, the Industrial Revolution was fueled by the iron enterprises located within Sussex County (Scharf 1888:398). In the late-eighteenth and early-nineteenth centuries, bog ore existed in the vicinity of Georgetown and the manufacture of iron and castings was carried out. A blast furnace was established in Millsboro as early as 1815 and operated until 1879 (Scharf 1888:398). Originally, the town of Millsborough was only on the northeastern side of the Indian River, but eventually the region combined with the southwestern side of the river called "Washington" to form present-day Millsboro in 1837 (Millsboro Chamber of Commerce 2021).

The Dickerson mill was one of several in Millsboro during the early-nineteenth century. Utilizing the natural waterways around Indian River and throughout Millsboro, several mills operated throughout the nineteenth century and even into the early-twentieth (Carter 1980). The establishment of mills changed the landscape as well; mill ponds, which served as a reservoir for water-powered mills, dotted the landscape around Millsboro. For example, Betts Pond, which functioned as a water source for the one of the early mills established by the Burton family, is a large pond located near Areas 1, 2A, and 2B. Early maps of the area show several mills and waterways located near each of the survey areas (Figure 9 and Figure 10, p. 26).

As eastern urban centers grew and farming techniques improved, agriculture in Delaware expanded to include the production of perishable dairy goods, fruits, and vegetables for these markets. Manufacturing in the state grew as well, with roughly 380 factories reported in Delaware at the start of the Civil War, many specializing in brick-making, milling, and canning (Frederick et al. 2006:65). Until the 1870s, peaches were a highly profitable crop for Delaware farmers, especially those with access to rail transportation.

Politically divided as a border state, Delaware was not physically impacted by military conflict during the Civil War, but played an important role in the Underground Railroad, with several stations located across the state. Following the Emancipation Proclamation in 1863, many African Americans came to Delaware from the South in search of economic

opportunity (Frederick et al. 2006:74). This influx of labor worked with the expansion of agriculture and industry to create an economic boom following the war. Delaware farmers were at the center of this growth and demonstrated their financial success through substantial improvements to their farm properties.

Urbanization and Early Suburbanization (1880–1940)

An increase in the population of Delaware in the late-nineteenth and early-twentieth centuries led to an urban expansion as immigrants from Eastern and Central Europe settled in Delaware cities and towns. While most of the growth occurred in New Castle and Kent Counties, Sussex County remained the least populous of the three counties in Delaware, although it was the largest in terms of size. Reflecting a larger trend in population across the country, more people resided in the cities than ever, aided by increased transportation opportunities and the automobile age. Construction of T. Colman DuPont's concrete highway, known as U.S. Highway 13, allowed farmers, merchants, and residents to traverse the state more easily. Constructed in 1923 and open to traffic by 1924, this roadway stretched from Wilmington, at the north end of the state, to the Delaware-Maryland state line in the south (Frederick et al. 2006:79).

Transportation improvements and the growth of manufacturing during this period encouraged farmers to industrialize as increased mechanization began to fill a growing labor shortage. Agriculture in the state continued to be diverse, though rising urban populations fostered growth in the number of dairy, poultry, and truck farming operations (Frederick et al. 2006:77). Large farms became corporations producing goods specifically for markets in Philadelphia, New York, Baltimore, and other urban areas. Additionally, tenant farming had grown since the eighteenth century in Delaware with approximately 60 percent of all farmers in Delaware working as tenants by 1860.

By the 1930s, the number of grist mills, which had been a huge component of the early economic history of Millsboro, declined as a result in the growth of the poultry industry. Historically, the local grist mills could accommodate the demand for poultry feed, but as the market grew, the demand for feed grew with it and soon the small mills could not keep up (Carter 1980). Many millers shifted their careers, left behind milling, and became poultry feed dealers instead (Carter 1980). Others began raising poultry instead. Raising poultry was advantageous in that it could be done year-round, which reduced the risk that many farmers faced when they invested in one individual crop (Millsboro Chamber of Commerce 2021). Improvements in transportation also contributed to the growth of this industry, as they allowed the quick shipping of perishable items such as meat and eggs to market (Carter 1976). The broiler, a type of chicken that is raised for meat consumption, was the main breed of chicken raised in Millsboro and throughout Sussex County (Carter 1976). By 1939, the Millsboro Poultry Company, a poultry processing plant, opened up, which provided local hatcheries a place to process the chickens that they raised prior to selling them (Hudson 1975). A necessary component of the poultry industry was the chicken feed needed to feed the chickens. Several chicken feed companies, such as the Millsboro Feed Company, were also established in Sussex County.

In addition to the poultry industry, Millsboro also became known for other products. Agriculturally, Millsboro was known for its produce, particularly peaches, watermelons, and strawberries (Hudson 1975). As a result of the area's surplus of good produce, several canneries were established in the town; these eventually became another big source of economic profit for the area (Hudson 1975). Well-known canneries such as the Burton Canning Factory (later renamed the Atkins Canning Company) and the Barkers Cannery provided jobs for several residents in Millsboro (Hudson 1975). Finally, one of the more unique industries was that of Christmas greenery. Millsboro first became a center for the production of Christmas greenery in the early-twentieth century (Carter 1976). Every year, holly and pine wreaths were made and sent to Philadelphia, the closest primary market (Hudson 1975). This industry grew substantially; between 1946 and 1956, hundreds of thousands of prepared natural wreaths were shipped (Hudson 1975).

Population expansion in the state's urban areas continued throughout the period, bringing new concerns to towns regarding sewer service, water supplies, and other infrastructure. By the end of this period, the pattern and density of settlement in Delaware had developed into suburban clusters at the edges of urban communities and in close proximity to highways (Frederick et al. 2006:80). Scattered commercial development grew in response to residents' increased reliance on the automobile, particularly along well-traveled highways, resulting in the construction of gas stations, motels, diners, and roadside stands across the state. The downtown area of Millsboro grew in terms of development around this time, but the surrounding regions remained largely rural and sparsely populated (Figure 11; Figure 12, p. 28).



Figure 11: 1938 USGS Topographic Map (USGS 1938). Pink outline marks the approximate location of Areas 1, 2A, and 2B. Map not to scale.



Figure 12: 1938 USGS Topographic Map (USGS 1938). Pink outlines mark the approximate location of Areas 5 and 6. Map not to scale.

Recent History (1940–Present)

After World War II, suburban and commercial development spread slowly across Sussex County, altering the land use patterns and landscape of the region. Sussex County did not have a pronounced population explosion, although it continued to grow at a steady rate (Munroe 1984:243). Between 1940 and 1960, the county population grew by more than 30 percent, rising from 52,502 people to 73,195 (Sheppard et al. 2009:49). In the early 1950s, vegetables and fruits grown on more than 20,000 acres (8,093.7 ha) of Sussex County farms were canned in local factories as several companies expanded to include freezing operations (Sheppard et al. 2009:51).

Townsend, Inc. became one of the leading chicken growers and feed producers in the area (The Morning News 1957). The company, which had a chicken plant in Millsboro, was the first fully integrated poultry company; they dealt with every element of poultry production including hatching eggs and shipping processed chickens to market (Millsboro Chamber of Commerce 2021). The Townsend plant, which was established in the 1940s, continued to operate until the company was purchased by Mountaire Farms in 2000 (Mountaire Farms 2020). Mountaire Farms continues to run the operation and has headquarters in Millsboro.

Planned suburban communities spread as improved roadways and an increase in employment brought more traffic into the state's rural areas. Significant transportation developments included the improvement of existing transportation corridors as well as the construction of Interstate 95 (I-95) and U.S. Highway 13, providing faster travel routes across the state.

During this period, railroad service declined, but large manufacturing companies, such as DuPont and Chrysler, built substantial operations in Delaware to service people worldwide. Despite the growth in industry and transportation, Sussex County remains a largely rural area. Millsboro itself has a populated downtown area to the south of Indian River, but the surrounding regions remain relatively rural in nature and continue to operate largely agricultural ventures (Figure 13).

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culturally sensitive material

Figure 13: Land Use Map of Sussex County (National Cartographic Center 1989). Pink outlines mark the approximate location of Areas, 1, 2A, 2B, 5, and 6. Shading of map indicates that all areas were used as agricultural land. Map not to scale.

RESEARCH DESIGN AND PROJECT METHODOLOGY

The goal of the Phase I survey was to identify any archaeological sites or above-ground features associated with a site, such as building foundations, wells, etc., that may be eligible for listing in the NRHP within the project area. The research design and project methods were selected with these goals in mind.

Background Research

A review of known cultural historic resources and relevant literature at the DE SHPO was conducted between December 2020 and June 2021, supplemented by online research through the DE SHPO's CHRIS. Background research conducted in association with this project gathered secondary sources to learn more about the history of the project area, and cultural resources within it, to inform and support Phase I cultural resource investigations. Dovetail staff visited the DE SHPO and consulted online resources such as DelDOT for information associated with the project area. Primary and secondary sources recovered in this effort include historic maps from the seventeenth through the twentieth centuries, contexts, and Cultural Resource Survey (CRS) forms detailing previously identified historic resources in the project vicinity.

Archaeological Survey

The Phase I APE comprised the proposed locations of five areas with the potential to contain sites, Areas 1, 2A, 2B, 5, and 6. The Phase I survey of these areas consisted of a pedestrian reconnaissance followed by subsurface survey consisting of the excavation of STPs, measured TUs, and metal detecting in those portions of the APE identified as having the potential for intact deposits. No excavations were executed in clearly disturbed areas or areas containing standing water. Clear, visible evidence of disturbance included push-piles, drainages ditches, buried utilities, and existing roads or driveways. These disturbances were photo-documented.

STPs were excavated at 50-foot (15.2-m) intervals along transects across the five areas. Each transect was given a letter designation (A, B, etc.) and STPs on each transect were given a numerical designation. The provenience information for each STP was coded for using a trinomial system that consisted of the location number, the transect designation, and a numerical designation for the STP (i.e., STP 1-B-24 is the 24th STP located on the B transect in Area 1). STPs measured approximately 15 inches (38.1 cm) in diameter and were excavated to penetrate at least 0.3 feet (9.1 cm) into sterile subsoil where possible. Shovel test radials were excavated at 25-foot (7.6-m) intervals in the cardinal directions around STPs that produced cultural materials. Radials were designated by the direction in which they were dug from the initial positive STP on the primary testing grid (i.e., STP 1-B-24 West was located 25 feet [7.6 m] west of STP 1-B-24).

Soils excavated from STPs were passed through 0.25-inch (0.6-cm) hardware mesh cloth. Each natural stratum was given a stratum designation (e.g., Stratum I) in order to delineate

stratigraphic relationships. Artifacts were recovered and bagged by stratum. The shovel test area, transect, numeric designation, level, excavator, date, and material recovered were recorded on field tags for each level. Soil conditions, weather information, notations on disturbances, and other relevant data were recorded in field notes as necessary.

Following the shovel testing, systematic metal detecting was conducted in areas where notable collections of artifacts were recovered that dated prior to the second quarter of the nineteenth century. Metal detecting was performed using a Fisher Gold Bug, Whites 9500 Di Pro, and/or a Tesoro Cibola metal detector. Metal detecting was conducted by swinging the instrument across approximately 6-foot (1.8-m) wide arcs to ensure maximum coverage. The discriminating function of the metal detector was turned off. Positive contacts were identified with pin flags. The locations of the pin flags were excavated to determine if the contact was positive for historic ferrous and/or non-ferrous metal artifacts. All positive contacts were mapped so that artifact distribution maps show the array of materials and recovery locations.

Based on the results of the pedestrian survey, shovel testing, metal detecting, and consultation with DelDOT, TUs were excavated within selected locations of the APE during the Phase I survey. The TUs were used to augment the results of the shovel testing to ascertain the potential for intact stratigraphy and cultural features. The TUs were numbered 1 through 7 in Area 6 and 9 through 13 in Area 2A. TU 8 was not assigned or dug. The units measured either 3.0-by-3.0 feet (0.9-by-0.9 m) or 6-by-3 feet (0.9-by-1.8 m). All TUs were excavated in natural levels. Where unplowed natural levels exceeded 0.3 feet (9.1 cm), arbitrary 0.3-foot (9.1-cm) levels were excavated to provide vertical control of the recovered artifact assemblage. Recovered cultural materials were collected and bagged according to provenience. Profile photographs were taken and a scaled drawing made of at least one wall of each TU. Like the shovel tests, the location of the TUs was documented through a hand-held GPS unit.

Laboratory Methods

All archaeological specimens collected during the Phase I survey were transported to the Dovetail laboratory in Fredericksburg, Virginia for processing and analysis. Prior to washing, each bag was cross-referenced with the field log to confirm provenience information and contents. Stable objects were washed with tap water and a soft brush with special attention paid to edges of ceramics and glass to better aid in identification. After washing, the artifacts were grouped by provenience and placed on a drying rack. Once dry, the artifacts were cataloged for analysis. Specific characteristics were described using currently accepted terminology and were entered into an Access database.

Specific ware types and manufacture dates were identified using Adams (2002), Bartoviks (1980), Greer (1970), Nelson (1968), Noël Hume (1991), Pittman et al. (1987), and South (1977). Non-tool prehistoric lithics were identified using Andrefsky (1998), Odell (2004), and Whittaker (1994). Cobbles which exhibited reddening, crazing, or irregular fracture patterns as a result of heating but with no evidence of flake removal or use as abrading or pounding tools, were classified as thermally altered stone (TAS) (Pagoulatos 1992:115–129; Petraglia 2002:241–269). Hafted bifaces and prehistoric ceramics, if recovered, were

assigned types using standard regional typologies (i.e., Coe 1964; Custer 1989; Ritchie 1971).

Research Design

This cultural resource survey was conducted with the Delaware Statewide Comprehensive Historic Preservation Plan in mind (Ames et al. 1989; Bedell 2002; Catts and DeCunzo 1999; DeCunzo 2004). The state's Historic Preservation Plan identifies six historic periods:

- a. 1630–1730: Exploration and Frontier Settlement
- b. 1730–1770: Intensification and Durable Occupation
- c. 1770–1830: Early Industrialization
- d. 1830–1880: Industrialization and Early Urbanization
- e. 1880–1940: Urbanization and Early Suburbanization
- f. 1940–Present: Recent History

For archaeological purposes, it appears that the periods dating from 1880 to 1960 are the most relevant based on the occupation history of the APE. Data from the known archaeological sites near the APE suggests that any historic resources identified in the APE would date from the late-nineteenth to the mid-twentieth centuries and could have the potential to provide new information on changes in agricultural practices. The Urbanization and Early Suburbanization and the more recently identified “Suburbanization and Early Ex-urbanization period,” extending from 1940–1960 as noted on the CRS forms, are the most relevant from an architectural perspective. Data collected from a review of CRS forms, cultural resource management (CRM) reports, historic maps, and historic contexts published for this area further reveal that developments in agriculture, industrialization, suburbanization, and transportation are particularly pertinent to the history of the APE (Amott et al. 2006; Sheppard et al. 1992; Siders et al. 1993).

Dovetail also conducted the survey in light of the Delaware Management Plan for Prehistoric Resources (Custer 1986) which created models for the likely presence of prehistoric sites from various temporal affiliations in various Delaware locations based on the results of previous work in these locations. The APE is located within the Coastal Bay Management Unit of the Plan. In general, the probability for finding Paleoindian period sites in the Coastal Bay region is low, as the data for this area is considered poor. With respect to Archaic period sites, the Coastal Bay region should have a low probability for the presence of all macro-band base camps, a low to medium probability for micro-band base camps, and a medium probability for procurement sites. Similarly, the data quality for Archaic sites is considered poor and reported site frequencies may not be truly representative. The same probabilities are predicted for both Woodland I and Woodland II period sites as for Archaic sites. Again, the data quality is considered poor. The probability for locating Contact period sites is extremely low, with data quality still lacking. As yet unidentified Archaic and Woodland period sites are considered likely to contribute valuable additional information (Custer 1986). Since the plan was first published in 1983, subsequent local prehistoric archaeological site information indicates that the likelihood of finding sites dating to the Late Archaic and Woodland I periods may be at least moderate.

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BACKGROUND RESEARCH

Prior to conducting fieldwork, the potential of the project area to contain significant archaeological resources was assessed by searching the DE SHPO site and survey file records for all previously conducted surveys and previously recorded resources within a 1-mile (1.6-km) radius of the APE. No previously identified archaeological sites or above-ground resources have been identified within the APE.

Previous Surveys Within and Adjacent to the APE

During the background review, it was found that a total of seven cultural resource surveys have been completed within the North Millsboro Bypass APE and the surrounding 1-mile (1.6-km) radius.

In 1984, an identification survey of the historical bridges located in Kent and Sussex Counties was completed by University of Delaware engineering students Donald Ross Beauchamp and Sidney Scott, III. This investigation included 42 bridges in Kent County and 54 bridges in Sussex County. These bridges were built prior to 1931. It was concluded that most of the bridges surveyed did not warrant any particular significance individually, however, many were included as representative of particular structural types: timber and steel stringer bridges, concrete slab and beam bridges, arch bridges, moveable bridges, and culverts (Beauchamp and Scott 1984).

In 1990, a multiple property nomination was completed by the University of Delaware Center for Historic Architecture and Engineering on the adaptations of bungalows in rural Sussex County from 1880–1940. This investigation included the NRHP nomination of three buildings: McCabe House (S-02320), Rickards-Hudson House (S-02501), and Miller-Hudson House (S-08119). It was concluded that the buildings surveyed embodied distinctive characteristics of early-twentieth century architecture and reflect major economic and cultural developments within the Sussex area (Herman et al. 1990).

In 1992, Louis Berger & Associates Inc. conducted archaeological and architectural surveys on U.S. Route 113, Milford-Georgetown, in Sussex County. During the investigations, a total of 60 architectural resources were identified. Five of these properties were recommended potentially eligible for the NRHP (S-03182, S-08515, S-03940, S-03941, S-03973), and two were listed in the NRHP (S-08151 and S-08384) (LeeDecker et al. 1992). The survey also identified nine previously unrecorded archaeological sites within the right-of-way, including five prehistoric sites dating to the Archaic and Woodland periods, and four historic period sites dating to the nineteenth and twentieth centuries (LeeDecker et al. 1992).

Archaeological monitoring was conducted in 2004 by the URS Corporation for the Delaware Department of Transportation in response to the planned replacement of two bridges (526 and 527) on State Route 326 at Betts Pond, Millsboro, Sussex County. Three structural features were encountered and documented during construction activities for the replacement of Bridge 527. These features consisted of a wood retaining wall or bulkhead, the remnants

of a brick foundation, and a segment of a wooden structural feature. A definitive interpretation of these features could not be provided due to substantial destruction from twentieth-century construction episodes, the small number of recovered artifacts, and insufficient historical documentation. No features were encountered or artifacts recovered during construction of Bridge 526 (Morin et al. 2004).

John Milner Associates, Inc. conducted an archaeological sensitivity analysis in 2005 for the U.S. 113 North/South Study Area from Milford to Georgetown South. A total of 1,240 newly identified resources were documented including S-010761, a dwelling/commercial building at 28225 U.S. 113, within the current APE (Chadwick et al. 2005).

An architectural evaluation survey was completed in 2012 by John Milner Associates, Inc. along U.S. 113 in Kent and Sussex Counties. A total of 799 architectural properties was identified within the Millsboro-South project area as part of this survey. Of the 799 properties surveyed, 67 were not evaluated for individual NRHP eligibility and 136 had been noted as demolished. A total of 596 extant properties in the Millsboro-South project area was evaluated for NRHP eligibility. Of these resources, 28 were recommended for listing or were already listed. A total of 13 potential historic districts was also identified within the Millsboro-South project area (Clark et al. 2012).

A Phase I cultural resource survey was conducted by Dovetail in 2014 and 2015 resulting in a 2017 report for the ESNG 2017 Expansion Project, Seaford Millsboro Connector. The survey spanned 17 miles (27.3 km) and identified 81 architectural resources and 15 archaeological sites (Blondino et al. 2017).

Previously Recorded Archaeological Resources

The DE SHPO records indicated that there are no previously recorded archaeological sites within or immediately adjacent to the current archaeological APE. Three archaeological sites (7S-F-006, 7S-F-064 and 7S-F-065) have been identified within a 1-mile (1.6-km) radius of the APE (Table 2, p. 37). Site 7S-F-006 is located just east of Millsboro on the south side of the Indian River before the County Route 24 bridge crossing. No data is available for this site other than that it was surface collected by H.G. Omwake in 1955. Given the low site number and location, the site likely dates to the prehistoric period. Site 7S-F-064 is located on the south side of Betts Pond, a high bluff overlooking Long Drain Ditch. Identified as a procurement station, the artifacts recovered from the surface include Wolfe Neck ceramics dating to the Woodland I period. Site 7S-F-065 is located 200 feet (60.1 m) south of Long Drain Ditch and 1,000 feet (304.8 m) south of its confluence with Betts Pond. Identified as a procurement station, the artifacts recovered from the surface include a non-diagnostic unifacial flake tool. Neither site exhibited sufficient information to be evaluated for NRHP eligibility.

Table 2: Previously Identified Archaeological Sites Within a 1-Mile (1.6-km) Radius of the APE.

Site Number	Name/Type	Temporal Period	NRHP Designation
7S-F-006	Unknown	Prehistoric?	Not Evaluated
7S-F-064	Procurement Station	Woodland I	Not Evaluated
7S-F-065	Procurement Station	Indeterminate	Not Evaluated

Previously Recorded Architectural Resources

There are 157 previously recorded above-ground resources within a 1-mile (1.6-km) radius of the APE (see Appendix D). Of these resources, three have been listed in the NRHP: Warren's Mill (S00438), the Burton-Blackstone-Carey Store (S12210), and the Ball Theater (S12983). Seven resources have been determined eligible for the NRHP by DE SHPO staff: Betts Pond Bridge No. 508 (S04018), the Tilney House (S04673), the Warren Mill Historic District (S09147), Warren's Mill (S09147.001), Warren's Mill Owner's House (S09147.002), Warren's Mill Dam (S09147.003), and the Warren's Mill Spillway and Tailrace (S09147.004). Fifty-one resources have been determined not eligible for the NRHP by DE SHPO staff (S02953, S03143, S04672, S04674, S04675, S04685, S04687, S09129, S10617–S10620, S10889, S10894–S10897, S10905–S10907, S10925, S10947, S11313, S11323–S11329, S11332, S11333, S11349–S11355, and S11363–S11366). The remaining 96 resources have not been formally evaluated.

Warren's Mill (S00438) was listed in the NRHP in 1978 under Criterion C; when nominated, it was the only known gambrel-roofed mill in lower Delaware. Additionally, Warren's Mill was one of the earliest mills in Millsboro and was constructed between 1910 and 1918 after a fire destroyed the original mill at the site. The first owner, John E. Betts, ran the mill, but eventually it came under the ownership of Wilford B. Warren who operated it until the mid-twentieth century. It should be noted that Warren's Mill is recorded twice in CHRIS, once under this resource number and another time under S09147.001. The mill is located within the Warren's Mill Historic District (S09147) which encompasses the area and resources which made up the operations of Warren's Mill. The resources that comprise the historic district include Warren's Mill (S00438; S09147.001), the Warren's Mill Owner's House (S09147.002), the Warren's Mill Dam (S09147.003), and the Warren's Mill Spillway and Tailrace (S09147.004). All of these resources were determined eligible for the NRHP by DE SHPO staff, with the exception of Warren's Mill (S00438) which was already listed in the NRHP, and are considered contributing to the historic district.

The Burton-Blackstone-Carey Store (S12210) was listed in the NRHP in 2014 files under Criteria B and C; it should be noted that no NRHP form for the store was located in NRHP archives. The circa-1840 store is a two-story commercial building constructed in a vernacular interpretation of the Greek Revival style; it is considered to be Millsboro's oldest-known commercial building. The store is associated with Benjamin Burton, who was one of Millsboro's more affluent historic residents; he was a farmer who had a large number of

enslaved individuals laboring on his properties in Dagsboro Hundred, but he also owned several businesses such as a store, a tannery, grist mills, and a saw mill. Burton owned this store until it was sold to the Blackstone family in the late-nineteenth century. It was under Blackstone ownership when it became a drugstore. Today, it is owned by the Carey family. Finally, the Ball Theater (S12983) was listed in the NRHP in 2018 under Criterion A; it should be noted that no NRHP form for the Ball Theater was located in NRHP archives. The two-story, brick movie theater was constructed between 1937 and 1938 in the downtown area of Millsboro. The Ball Theater has a high-level of historic integrity, particularly in the interior, and it is an example of a small-town theater built during the Great Depression in Sussex County; it is for this reason that it is considered a significant resource.

As noted above, there are seven resources that have been determined eligible for the NRHP by DE SHPO staff. Five of those resources (S09147, S09147.001, S09147.002, S09147.003, and S09147.004), all of which are a part of the Warren's Mill Historic District (S09147), are discussed in detail above. The remaining two resources are the Betts Pond Bridge No. 508 (S04018) and the Tilney House (S04673). Betts Pond Bridge No. 508 was originally constructed in 1912, but had subsequent updates and widenings in 1930, 1946, and 1967. The concrete-slab bridge features concrete wing walls. It is unknown as to why the bridge was determined eligible for the NRHP; a 2005 survey noted the bridge as demolished. The two-and-a-half-story Tilney House was constructed around 1740 and features a hall and parlor plan. The house was relocated to its present spot at an unspecified date and placed upon a concrete block foundation. The wood-frame structural system is clad in weatherboard. The house has additions, but original materials remain, such as wood-framed windows. It is not clear why the Tilney House was determined eligible, but it is likely determined eligible under Criterion C due to its age and high level of integrity.

Fifty-one resources were determined not eligible for the NRHP by DE SHPO staff; over half of these resources (n=32) have no construction date listed on CHRIS. Predominantly, these resources are residential or are agricultural complexes. Only three resources, the Delaware Veterans Memorial Cemetery (S10925), the Shop/Garage (S11324), and the Frame Family Cemetery (S11349), are not residential or agricultural in nature. The remaining 48 resources are either single-family dwellings or agricultural complexes constructed mostly during the late-nineteenth to mid-twentieth centuries.

The remaining 96 resources have not been evaluated for the NRHP by DE SHPO staff. A majority of these (n=65) are either single-family dwellings or agricultural complexes. Fifteen of these resources have been demolished (S02954, S02967, S02980, S03141, S03142, S03147, S03148, S03151, S04670, S04868, S04688–S04691, and S10946). The earliest constructed resource is the Wright-Burton Agricultural Complex (S02984); this resource is also listed under the Gardiner H. Wright House (S03140). The circa-1785 house is one-and-a-half-stories and features a gambrel roof with dormers and interior-end brick chimneys. Outbuildings are also associated with this resource. Several resources have no construction data available or listed in CHRIS; however, for those resources with construction dates listed, there appear to be two main periods of construction. The first ranges from 1870 to 1910. Most resources constructed in that time period represent the Gothic Victorian, Folk Victorian, and vernacular styles. Dwellings range from two- to two-and-a-half stories in

height and largely have frame structural systems. Original materials, such as weatherboard siding or wood-framed windows remain, but there is the presence of some replacement materials such as aluminum or vinyl siding and vinyl-framed windows. The second construction period ranges from 1915 to 1954. Typical styles and forms represented by dwellings constructed in that time period include American Foursquare, Craftsman, Colonial Revival, Cape Cod, and Ranch. These dwellings range from one- to two-and-a-half-stories in height; dormers are common. Many features frame structural systems and typical siding materials includes weatherboard, aluminum, vinyl, or wood-shingles. Wood-framed windows are common, but many houses have replacement fenestration as well. There are three outliers to these two main construction periods: two Ranch-style dwellings (SS12818, S12822) constructed around 1968 and one mobile home (S12821) also constructed around 1968.

In addition to the 65 dwellings or agricultural complexes, the remaining non-evaluated resources include five commercial buildings built between 1920 and 1968 (S10761, S12209, S12212, S12817, and S12819), the Millsboro Furnace site (S00207), a circa-1910 mill (S00321), Down Sockum (S00430), Doe Bridge Mill ruins (S00437), Head of River Mill (S03145), a Pennsylvania Railroad Bridge constructed in 1913 (S06931), Sussex Central Middle School (S09132) built in 1928, a motel (S10951), Saint Marks Episcopal Church and Cemetery constructed between 1870 and 1884 (S12192), a circa-1918 bank (S12211), a circa-1915 store (S12213), and the Millsboro Volunteer Fire Company – Station 83 constructed in 1926 (S12214). Additionally, there are 14 buildings with no noted specifications; CHRIS had no data on their construction dates or additional data on their form or style.

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RESULTS OF THE PHASE I ARCHAEOLOGICAL SURVEY

Dovetail conducted a Phase I archaeological survey of five areas associated with the proposed Millsboro Bypass Project. The five areas with the potential to contain intact sites, totaled 114 acres (46.1 ha). The five areas tested were designated as Areas 1, 2A, 2B, 5, and 6. The survey included pedestrian reconnaissance, metal detecting, and the excavation of 1,966 primary STPs plus 262 radial STPs and 12 TUs (1–7 and 9–13). Soil profiles varied somewhat between and within the five areas. A total of four sites and 7 isolated finds (IF) were identified in Areas 1, 2A, 2B, and 6; no sites or IFs were found in Area 5.

Area 1

Area 1 is located north of the intersection between Betts Pond Road and U.S. 113 (Photo 8). The area is in a large agricultural field. Area 1 abuts the wood line to the north, U.S. 113 to the west, Betts Pond Road to the south, and Patriots Way and agricultural fields to the east. The area was approximately two-thirds unplanted agricultural field with the northern third having grown up with brush. The entire area measures approximately 52.8 acres (21.4 ha) and sits at an elevation of approximately 30 feet (9.1 m) AMSL.



Photo 8: Typical Setting in Area 1, Looking Southeast.

Nine hundred and sixty-one STPs were aligned on 37 transects in Area 1 (Figure 14, p. 42). Though largely undisturbed, soils in Area 1 did hold water and STP 1-O-20, located in an inundated area, was not excavated. STP 1-O-44 was located within a roadside drainage ditch

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Figure 14: Location of Area 1 in the North Millsboro Bypass APE Showing the Limits of
Site 7S-F-174 (FirstMap 2017).

and was likewise not excavated. The average depth of A-horizon soils in this area was 0.9 feet (27.4 cm) with the deepest 1.8 feet (54.9 cm) below the ground surface. The average depth of STPs in Area 1 was 1.3 feet (39.6 cm), with the deepest STP reaching 2.3 feet (70.1 cm). Across Area 1, profiles consisted of a brown (10YR 4/3) sandy to silty loam overlying a light yellowish brown (10YR 6/4) sand subsoil (Figure 15 and Figure 16). Forty-one positive STPs in Area 1 resulted in the identification of one new archaeological site (site 7S-F-174) and four isolated finds (IF1–IF4).

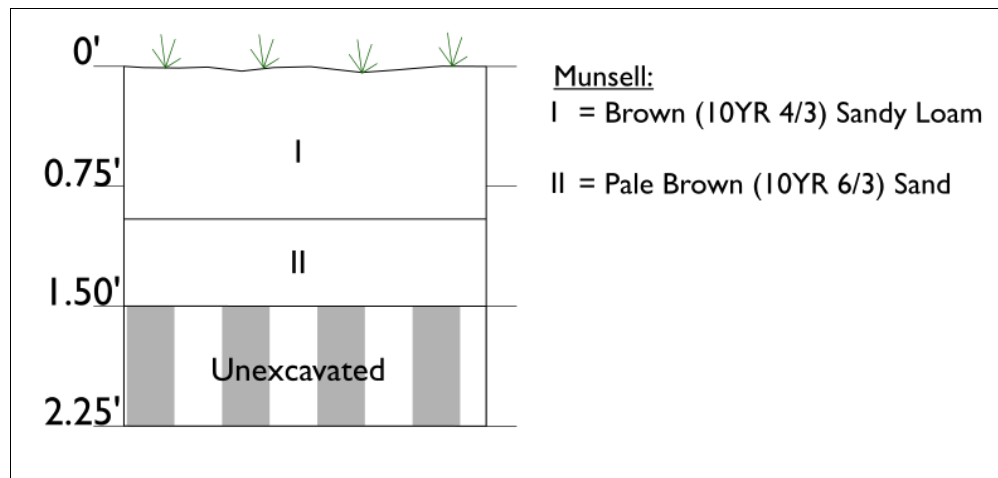


Figure 15: Representative Soil Profile From STP 1-AD-18.

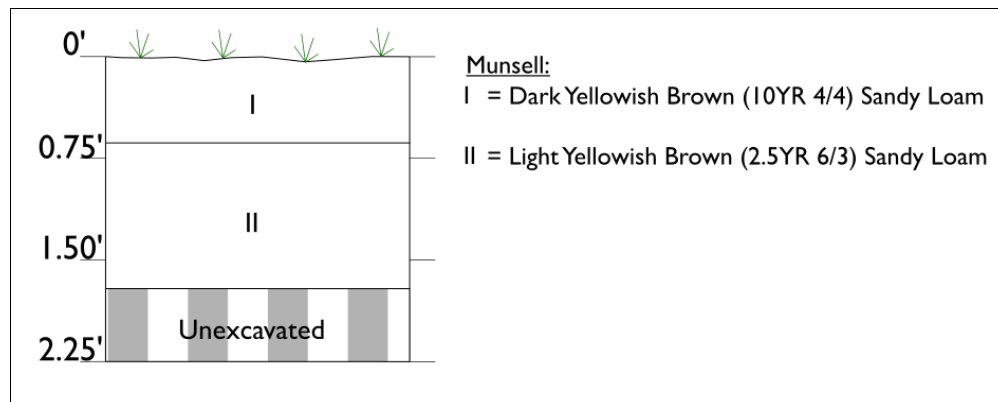


Figure 16: Representative Soil Profile From STP 1-D-30.

Parcel History Area 1

Today, Area 1 is composed of two parcels: #133-11-14 and #133-16-5. Below is a history of both parcels, starting with #133-11-14, followed by #133-16-5. Due to the proximity of both parcels, the two parcels share a similar nineteenth-century history.

Parcel #133-11-14

One of the earliest detailed maps of Area 1 shows that it was once part of the land of G.W.C.H. on which a “Bark Mill” was located (Figure 17, p. 45). “G.W.C.H.” is likely George Washington Cathell Hearn (1824–1871) who was a prominent land owner in Millsboro; in 1870, he had a personal estate value of \$10,000 and a real estate value of \$20,000 which equates, approximately, to \$200,000 and \$400,000 respectively, in today’s currency (Official Data Foundation 2021; United States Federal Population Census [U.S. Census] 1870). According to a family history, Hearn moved away from his hometown of Whitesville, Delaware and bought land near Millsboro in 1854 (Hearne 1907). It was here that Hearn established his home, which in later deed records was noted as the land on which his “mansion house” was located (Sussex County Deed Book [SCDB] n.d. DB 197:30–32). Hearn remained on this property until his death in 1871 (Hearne 1907).

Hearn was a farmer of fruit and other produce, but he also manufactured lumber and cultivated quercitron, a natural dye that came from Eastern Black Oak trees (Hearne 1907). Hearn shipped the quercitron to England where it was largely used to dye fabrics (Hearne 1907). The “Bark Mill” noted on the 1868 map, and situated in the northern portion of Area 1, was likely related to this industry (Beers 1868a). Bark mills were utilized to process bark and other parts of trees; the mill would grind the bark into a fine powder that could then be utilized as an agent in the tanning process or other dying processes (Delmar Historical and Art Society 2021). Like many other mills in Millsboro, the bark mill was located near a small body of water on the Hearn land known as Bark Pond.

The immediate ownership of the land after Hearn’s death in 1871 is not entirely clear; however, it appears that there was a public sale of his lands in the 1880s according to various deed descriptions for the property (SCDB n.d. DB 105:201–202). It is for this reason that the land eventually split into different tracts. By the 1880s, two different tracts of the Hearn land, both a part of parcel #133-11-14, came under Ingram-family ownership. “Tract One,” consisting of 50 acres (20.2 ha) was eventually purchased by George H. Ingram (SCDB n.d. DB 105:201–202, 126:469–471). “Tract Two,” which contained 68 acres (27.5 ha) belonged to Harry Ingram, Emmaline Ingram, Thomas Ingram, and Annie Ingram (SCDB n.d. DB 108:164–165, 108:200–201). For some reason Benjamin Ingram, Annie’s husband was not mentioned on the deed.

The Ingrams were African American farmers in Millsboro; according to census records, Thomas and Harry were brothers (U.S. Census 1860). Unfortunately, definitive census records were not uncovered for Benjamin Ingram, nor his wife, Annie, but it is likely that he was a relation to Thomas and Harry. At least by 1860, according to census data for the family, the Ingrams were a free Black family. The use of slavery had decreased significantly throughout Delaware during the late-eighteenth and early-nineteenth centuries. Some credit abolitionist efforts or religious movements for the decline in slavery, but there were also large economic reasons for its decline in Delaware. It was ultimately cheaper for Delaware farmers to hire African Americans for work rather than to maintain a plantation system based on the slavery model; this economic reasoning was more powerful for most than any moral reasoning against slavery (Marks 1996). Additionally, Delaware did not have a “cash crop”

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Figure 17: Map of the Millsboro, Delaware (Beers 1868a). Pink outlines mark the locations of Areas 1, 2A, and 2B.

like tobacco or cotton as did many states in the South that relied upon an economy based on slavery (Marks 1996). It was for these reasons that by 1860, slavery was essentially extinct in portions of Delaware; in Sussex County, the ratio of free to enslaved persons was three to one (Marks 1996). Free African Americans, like the Ingrams, were able to gradually acquire property and a majority engaged in farming activities (Marks 1996).

By 1890, Tract Two was no longer owned by the Ingram family and belonged to George C. Ellis (SCDB n.d. DB 113:21–22). According to census records, George Cannon Ellis (1832–1910) was a carpenter who predominantly lived in Laurel, Delaware, a town west of Millsboro (U.S. Census 1870, 1880). It is not entirely clear how he utilized the property in Millsboro; however, a newspaper clipping from 1905 notes his retirement as a farmer, suggesting that he was also a farmer who supplemented his income with carpentry (The News Journal 1905). Upon his death in 1910, the executors of his will, his son, George T. Ellis, and his wife, Mary M. Ellis, sold portions of his property at public auction (Find A Grave 2013a; SCDB n.d. DB 176:285–286; U.S. Census 1880). As part of this sale, Paul T. Scott purchased Tract Two, which contained 68 acres (27.5 ha) from the Ellis family (SCDB n.d. DB 176:285–286).

A few years later, in 1915, Tract Two was sold to Victor L. Steele (SCDB n.d. DB 197:30–32). Victor L. Steele (1882–1960) lived on this tract in a house that they owned and was a “truck farmer,” which essentially meant that he produced crops on a large scale in order to ship them to markets that were further away (U.S. Census 1930). In the deed, the property is described as being a part of the “George C. Hearn lands where the mansion house stands;” it isn’t clear if the Steele family lived in the old Hearn house, but topographic maps from 1917 and 1938 indicate the presence of a few buildings on the property, some of which are located in Area 1 (SCDB n.d. DB 197:30–32; United States Geological Survey [USGS] 1917; 1938). An aerial photograph from 1937 shows the presence of a long building in the northwest portion of Area 1. This building is likely a large chicken coop. A smaller building, possibly a short-term tenant house or farm-related building, fronts Patriots Way, with orchards on either side of the road of the western portion of the Area 1. The 1937 image shows two long building also likely to be chicken coops situated in the northeast corner of Area 1 (Figure 18, p. 47).

In 1939, Victor and his wife, Nellie, sold all of Tract Two to John J. Williams, their son-in-law (The News Journal 1960; SCDB n.d. DB 324:15–16). John James Williams (1906–1988) was a co-owner of Millsboro Feed Company and a U.S. Senator (Find a Grave 2003a). Additionally, he was involved in his family’s poultry company, Williams Hatchery, Inc. The poultry industry became a major component of the Millsboro economy during the 1930s and 1940s. Poultry was advantageous in that it could be done year-round, which reduced the risk that many farmers faced when they invested in one individual crop (Millsboro Chamber of Commerce 2021). Improvements in transportation also contributed to the growth of this industry, as it allowed the quick transportation of perishable items such as meat and eggs to market (Carter 1976). By the late 1930s, the Millsboro Poultry Company, a poultry processing plant, provided local hatcheries a place to process the chickens that they raised prior to selling them (Hudson 1975). In addition, chicken feed was needed to feed the chickens and as such, Sussex County had several chicken feed companies, such as the Millsboro Feed Company.

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Figure 18: 1937 Aerial Imagery of Area 1 (FirstMap 1937). Pink outline marks the location of all of Area 1. Yellow outlines mark the locations of buildings. Red circle marks the location of building located outside of Area 1. Not to scale.

Not long after purchasing Tract Two from his in-laws, John J. Williams purchased Tract One from Homer H. and Louise C. Pepper in 1942 (SCDB n.d. DB 334:118–120). It was during the early-twentieth century that Tract One, which had contained 50 acres (20.2 ha), was sold by the Ingram family to a family that lived on the land, but did not utilize it as a farm (SCDB n.d. DB 204:365–368; U.S. Census 1920, 1930). Through several sale transactions in the early-twentieth century, Tract One was whittled down to 6.5 acres (2.6 ha). By 1940, Homer H. Pepper owned the property and, two years later, sold it to John J. Williams. At this point, Tract One and Tract Two were reunited, bringing Williams' total acreage at this location to 74.5 acres (30.1 ha) (SCDB n.d. DB 326:510–511, 328:16–17, 334:118–120).

In 1953, John Williams and his wife, Elsie, sold 26.5 acres (10.7 ha) of this land to Williams Hatchery, Inc., the family hatchery business (SCDB n.d. DB 427:487–488). By the 1950s, one of the buildings, the one formally located near U.S. 113, marked on the earlier topographic maps was no longer standing and further development had taken place in the northeast corner of the property near the Bark Pond (Figure 19, p. 49). It is likely, given the changes to the landscape, that the property was predominantly utilized to support the hatchery and feed businesses of the Williams family and no longer functioned as a farm on which the Williams family lived. The long agricultural building noted on the 1954 topographic map is likely a large chicken coop and the smaller square building immediately to the south is an outbuilding (USGS 1954). The fact that the Williams no longer lived on the farm is further supported by the fact that John J. Williams noted that he did not live on a farm in census records from 1940 (U.S. Census 1940). The company only owned the land for less than 10 years because, in 1962, Williams Hatchery, Inc. sold the 26.5 acres (10.7 ha) to Sussex Realty Company, a real estate development company (SCDB n.d. DB 544: 115–116).

In the 1970s and 1980s, the Williams sold the remainder of their property, which totaled 48 acres (19.4 acres), to their daughter, Blanche, and her husband, John Raymond Baker, Jr. (SCDB n.d. DB 697:197–198, 1481:63, 1541:201). John Raymond Baker, Jr. (1925–2015) owned several different companies. In 1946, he opened a year-round holly wreath business, which preserved natural wreaths and shipped them across the United States (Carter 1976). Millsboro first became an established center for Christmas greenery in the early-twentieth century and continued to be one of the dominant markets for that industry throughout the remainder of the century (Carter 1976). Additionally, Baker founded the Sussex Realty Company and Williams & Baker, Inc., which developed real estate and is the same company that purchased the 26.5 acres (10.7 ha) from Williams Hatchery, Inc. in 1962 (Delaware Wave 2015). Under the ownership of the Baker family and their company, the property continued to be predominantly open and undeveloped; topographic maps indicate the continued presence of one of the three buildings outlined on the map from 1954; the large chicken coop was no longer standing by the 1980s (Figure 20, p. 50). By the 1990s no buildings remained within Area 1 (USGS 1992).

After transferring the land ownership to their own trust, John Raymond and Blanche Baker sold their property, which contained a total of 48 acres (19.4 acres), to Tunnell Properties, LLC. in 2004 (SCDB n.d. DB 3041:160–163). Two years later, Tunnell Properties, LLC. and Sussex Realty Company sold portions of the 48-acre (19.4-acre) tract as well as the 26.5-acre (10.7 ha) tract that Sussex Realty Company had purchased from Williams Hatchery, Inc. in 1962 to Patriots Landing, LLC. (SCDB n.d. DB 3375:40–43). In total, the property sold to Patriots Landing, LLC. was 38.5 acres (15.5 ha). Throughout the early 2000s, the property remained largely rural and undeveloped (United States Department of Agriculture [USDA] 2002). In 2019, Patriots Landing, LLC. sold all 38.5 acres (15.5 ha) to DelDOT; they are the current owners of parcel #133-11-14 in Area 1 (SCDB n.d. DB 5036:269–276).

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Figure 19: 1954 USGS Topographic Map (USGS 1954). Pink outline marks the approximate location of Area 1.

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Figure 20: 1981 USGS Topographic Map (USGS 1981). Pink outline marks the approximate location of Area 1.

Parcel # 133-16-5

Given the proximity of parcel #133-16-5 to parcel #133-11-14, the original land on which this parcel was located was also likely owned by George W. C. Hearn in the mid-nineteenth century. The exact land ownership between the mid-nineteenth century and the early-twentieth is not entirely clear; however, by 1915, James E. Goslee owned the property, which contained 104 acres (42 ha) at that time (SCDB n.d. DB 197:148–150, 197:150–153). In that same year, Goslee sold the property to the Peninsula Real Estate Company (SCDB n.d. DB 196:278–281). The Peninsula Real Estate Company, which was incorporated in 1911, was a fruit farm and real estate agency (The Morning News 1911). They owned the property for five years before they sold it to the company's president, John G. Townsend, Jr. in 1920; it was one of several tracts of land the company sold to Townsend (The Evening Journal 1912; SCDB n.d. DB 219:366–367).

John Gillis Townsend, Jr. (1871–1964) was a successful farmer, businessman, Governor of Delaware, and U.S. Senator (Find A Grave 2003b). Townsend farmed several crops, but he was best known for his strawberries. Deemed the “strawberry king,” Townsend's strawberries were notably delicious; as was the challenge for many fruit farmers, it was difficult to keep fruit fresh before reaching their markets, but Townsend had found a way to package them effectively which led to his success in the market (The Morning News 1957). Townsend was not only a fruit and orchard farmer; he eventually entered the dominant market of Millsboro: raising chickens. John G. Townsend, Jr.'s company Townsends, Inc. became one of the leading chicken growers and feed producers in the area (The Morning News 1957). The company, which had a chicken plant in Millsboro, was the first fully integrated poultry company; they dealt with every element of poultry production including hatching eggs and shipping processed chickens to market (Millsboro Chamber of Commerce 2021). The Townsend plant, which was established in the 1940s, continued to operate until the company was purchased by Mountaire Farms in 2000 (Mountaire Farms 2020).

The 104-acre (42.1-ha) property that Townsend purchased from the Peninsula Real Estate Company in 1920 was utilized for his agricultural and commercial ventures. In 1941, John, and his son, Preston Townsend, sold 39.5 acres (16 ha) of the original purchase from Peninsula Real Estate Company to their family company, Townsends, Inc. (SCDB n.d. DB 331:121–122). The Townsend company owned the 39.584-acre (16-ha) tract until 2004 when they sold it to Patriots Landing, LLC. (SCDB n.d. DB 3073:116–118). In 2019, Patriots Landing, LLC. sold the property to DelDOT in the land sale that also included parcel #133-11-14 (SCDB n.d. DB 5036:269–276). Today, DelDOT is the owner of the parcel.

Agricultural Site 7S-F-174 (CRS S13422)

Site Description

Agricultural site 7S-F-174 (CRS S13422) is a relatively large scatter of primarily late-nineteenth century artifacts lying in a plowed field near the intersection of U.S. 113 and Patriots Way (Photo 9 and Photo 10, p. 52). It was identified when 51 artifacts were



Photo 9: View Along Western Edge of Site 7S-F-174, Looking North.



Photo 10: Overview of Site 7S-F-174, Looking Northeast.

recovered from 40 positive STPs. The site is bounded on the east by negative STPs, on the north by the project boundary, and by a combination of negative STPs and the roads that form the project boundaries to the west and south. Site 7S-F-174 has a generally triangular shape, decreasing in width from approximately 450 feet (137.2 m) east to west in the south, to less than 100 feet (30.5 m) in the north. It stretches approximately 850 feet (259.1 m) from north to south, and has an area of 4.6 acres (1.8 ha). Site 7S-F-174 lies entirely within a level farm field, at an elevation of approximately 30 feet (9.1 m) AMSL.

One hundred and nineteen STPs were excavated within the boundaries of site 7S-F-174. STPs reached an average depth of 1.4 feet (42.7 cm), with the deepest STP excavated to a depth of 2 feet (61.0 cm). Topsoil horizons in the site reached an average depth of 0.9 feet (27.4 cm). STP profiles varied only slightly across site 7S-F-174, and were generally similar to those in the rest of Area 1, consisting of a brown (10YR 4/3) sandy to silty loam overlying a light yellowish brown (10YR 6/4) sand subsoil (see Figure 15 and Figure 16, p. 43). A total of 51 artifacts was recovered from 40 positive STPs. All artifacts were recovered from the plowzone, identified as Stratum 1.

The artifact assemblage from site 7S-F-174 (n=51) consisted entirely of historic artifacts. As in many historic assemblages from the mid- to late-nineteenth century, vessel and bottle glass made up nearly half of the collection (n=21). Clear and aqua were the most common glass colors represented with solarized, purple, blue, and amber included as well. The architectural category, also high in number, primarily included nails, both machine-cut (n=16) (1805–1890) and ungalvanized wire (n=3) (1890–1950), with only a few fragments of window glass being recovered (Adams 2002). The final category for this site includes eight ceramic fragments including ironstone (1840–2000), whiteware (1820–2000), and creamware (1762–1820) (Digital Archaeological Archive of Comparative Slavery [DAACS] 2006).

The predominance of cut nails combined with the mid-to late-nineteenth century ceramics primarily points toward an occupation spanning the nineteenth century. The relatively low concentration of domestic-related artifacts along with the high number of nails indicates that the site likely represents an outbuilding, possibly associated with agricultural activities.

Evaluation and Significance

Agricultural site 7S-F-174, a large scatter of primarily late nineteenth century artifacts likely reflecting an outbuilding and chicken coop shown on the 1937 aerial image (see Figure 18, p. 47), was evaluated with regard to the criteria for NRHP eligibility. Although the earliest development of the parcel can be dated to George Washington Cathell Hearn in the mid nineteenth century, his use of the property for agricultural and the similar use of subsequent owners and tenants throughout the twentieth century is considered common and thus insignificant. Therefore, there are no known significant associations between the site and a significant historical event or pattern of events (Criterion A). Governor John Gillis Townsend, Jr., once owned the featureless agricultural fields within Area 1, but this was only one farm of many he owned in the area. Therefore, there are thus no known associations with significant persons (Criterion B). The lack of features or intact architectural elements associated with agricultural use, preclude the site from being identified with a distinctive architectural style (Criterion C). With regard to Criterion D, the small assemblage and lack of

subsurface features indicate that the site is unlikely to yield further information on late nineteenth and early twentieth century agricultural life in Sussex County. As such, **agricultural site 7S-F-174 is recommended not eligible for inclusion in the NRHP under Criteria A–D.**

Isolated Finds

In addition to site 7S-F-174, four isolated finds (IF 1–IF 4) were recovered from Area 1 (Table 3). The probability that further work at isolated finds will contribute important new information is extremely low; therefore, **by definition, are not eligible for listing in the NRHP.**

Table 3: Summary of Isolated Finds in Area 1.

IF #	Provenience	Description
1	STP 1-S-19	Redware Sherd with Manganese Glaze
2	STP 1-P-35	Undecorated Pearlware Sherd
3	STP 1-V-15	Slipped Redware Sherd
4	STP 1-P-39	Aqua Window Glass Fragment

Area 2A

Area 2A lies approximately 650 feet (198.1 m) east of Area 1 (Figure 21, p. 55; Photo 11, p. 56). Area 2A is bounded to the north, east, and south by forest. The western edge of Area 2A lies along Fox Run Road. The area consists entirely of an unplanted farm field. Area 2A covers approximately 10 acres (4 ha) and sits at an elevation of approximately 30 ft (9.1 m) AMSL.

Two hundred and thirty STPs were aligned on 16 transects in Area 2A. Though largely undisturbed, soils in Area 2A did hold water. As a result, STPs 2A-G-7W, 2A-J-8, and 2A-Q-4, located in inundated areas, were not excavated. The average depth of A-horizon soils in this area was 0.9 feet (27.4 cm) with the deepest 1.7 feet (51.8 cm) below the ground surface. The average depth of STPs in Area 2A was 1.4 feet (0.4 m), with the deepest STP reaching 2.8 feet (85.3 cm). STP profiles across Area 2A were generally similar, consisting of a well-established plowzone overlying sandy, culturally sterile subsoil. An illustrative profile for this area consisted of a brown (10YR 4/3) sandy loam overlying a very pale brown (10YR 7/4) sand subsoil (Figure 22, p. 56). The excavation of 31 positive STPs in Area 2A resulted in the identification of one new archaeological site (site 7S-F-175A) and one isolated find (IF 6).

Parcel History Area 2A

Today, Area 2A is composed of two parcels: #133-11-15 and #133-16-12. Below is a history of both parcels, starting with #133-11-15, followed by #133-16-12. Due to the proximity of both parcels, they share a similar nineteenth-century history. Additionally, given the proximity of Area 2A to Area 1, the initial land ownership of both areas was the same.

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Figure 21: Location of Areas 2A and 2B in the North Millsboro Bypass Project Area,
Showing the Limits of Site 7S-F-175 A & B (FirstMap 2017).



Photo 11: Overview of Area 2A, Looking Northeast.

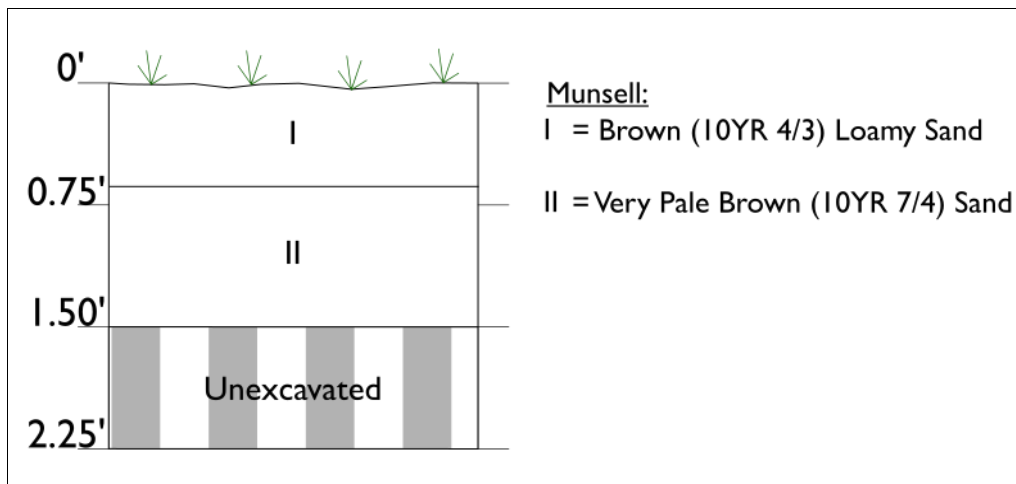


Figure 22: Representative Soil Profile from STP 2A-C-3.

Parcel #133-11-15

Originally, both parcels (133-11-15 and 133-16-2) of Area 2A and parcel #133-11-14 of Area 1 were part of the lands owned by George W. C. Hearn during the mid-nineteenth century, as can be seen on an 1868 map (see Figure 17, p. 45) (Beers 1868a). A saw mill, denoted by “s. mill,” was located to the north and a creek or mill run cut through the land located in the northern portion of Area 2A. Upon the passing of Hearn, portions of his property were put up

for auction and, at an unknown date, Levin Ellis purchased 50 acres (20.2 ha); he sold the land back to Sussex County in 1881 and eventually it came under the ownership of the Ingram family in 1884 (SCDB n.d. DB 105:201–202).

By 1886, George H. Ingram was the owner of the 50-acre (20.2-ha) tract (SCDB n.d. DB 126:469–471). George H. Ingram (1860–1932) was an African American farmer who lived and worked on his own farm in Millsboro (Find A Grave 2019; U.S. Census 1900). It is likely that George Ingram lived on this property and farmed the land until he sold it to Able Ableman (1865–1933), a Jewish immigrant from Russia, in 1917 (Find A Grave 2015; SCDB n.d. DB 204:365–368). Ableman and his family lived on this property but it does not appear that they utilized it as a farm. According to census records, the Ablemans lived on State Street, the road along which Area 2A was located; however, Able Ableman owned a clothing store and general store in 1920 and 1930 (U.S. Census 1920, 1930). Historic topographic maps indicate the presence of a building on the property right along State Road; this is likely the same house that George H. Ingram had lived in and that Able Ableman subsequently occupied (Figure 23, p. 58) (USGS 1917).

Historic topographic maps also show the presence of the Philadelphia, Washington & Baltimore (PW&B) railroad line to the northeast of Area 2A (Figure 23, p. 58). The PW&B Railroad, whose parent company was the Pennsylvania Railroad, was the dominant railroad service in the state of Delaware up until World War II (Lichtenstein Consulting Engineers, Inc. 2000). Established in 1901, the railroad formed after Pennsylvania Railroad combined two of its major lines (Lichtenstein Consulting Engineers, Inc. 2000). Railroads were an integral part of the economic success of some ventures in Millsboro, such as the lumber industry; the PW&B Railroad connected Millsboro to Georgetown in the north and Selbyville to the south, as well as to large cities across the eastern seaboard (Millsboro Chamber of Commerce 2021). The entire line was electrified during the early-twentieth century, a major engineering feat that improved travel (Lichtenstein Consulting Engineers, Inc. 2000). Eventually, like elsewhere in the United States, railroad travel decreased by the mid- to late-twentieth century. The perishable nature of many of the crops grown in the region of Millsboro, such as berries and fruit, made trucks a better option for shipping their commodities to distant markets (Lichtenstein Consulting Engineers, Inc. 2000). Even the chicken industry, the backbone of Millsboro's economy, began utilizing trucks more than the railroad (Lichtenstein Consulting Engineers, Inc. 2000). By the 1990s, Conrail had taken over the line that ran between Georgetown and Millsboro; they continue to operate the line today (Lichtenstein Consulting Engineers, Inc. 2000). In July 2013, the derailment of 15 rail cars full of “crush and run” stone caused the destruction of three quarters of a mile (1,207 m) of track along the northeast boundary of the APE (3CBSP Philly 2013).

In 1931, Able Ableman sold the property, which still contained 50 acres (20.2 ha), to Willis and Ella Vickers (SCDB n.d. DB 282:232–233). The Vickers lived and farmed the land for nine years before the property was sold and eventually came under the ownership of Homer H. Pepper (SCDB n.d. DB 326:510–511, 328:16–17). At the time, a house remained on the property (FirstMap 1937) (Figure 24, p. 59). In 1942, Homer H. Pepper sold 6.5 acres (2.6 ha) of the original 50-acre (20.2-ha) parcel he purchased in 1940 to John J. Williams (SCDB n.d. DB 334:118–120). This is the same land that comprised “Tract One” of parcel #133-11-14 noted above in Area 1; in other words, during the mid-twentieth century, parcel #133-11-

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Figure 23: 1917 USGS Topographic Map (USGS 1917). Pink outline marks the approximate
location of Area 2A.

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Figure 24: 1937 Aerial Imagery (FirstMap 1937). Pink outline marks the approximate location of Area 2A and 2B. Yellow circle marks the approximate location of the house. Map not to scale.

15 of Area 2A and a portion of parcel #133-11-14 of Area 1 were located on the same land. Notable Millsboro citizen John J. Williams owned the property for several years utilizing it for his agricultural and commercial ventures. Throughout the 1940s, a house remained in the same location along the road, but by 1954, the house was no longer there (Figure 25 and Figure 26, pp. 60–61) (USGS 1944, 1954). By the mid-twentieth century, the parcel was no longer occupied and was predominantly utilized for agricultural purposes.

In 1973, the Williams sold the 6.5-acre (2.6-ha) tract to John Raymond Baker Jr. and Blanche Baker (SCDB n.d. DB 697:197–198). The Bakers owned a few different tracts of land in the vicinity of parcel #133-11-15, and after transferring the land ownership to their own trust, they sold this tract, along with another one, to Tunnell Properties, LLC. in 2004 (SCDB n.d. DB 1970:246–249, 3041:160–163). Two years later, 5.1 acres (2 ha) of the property was sold to Patriots Landing, LLC (SCDB n.d. DB 3375:40–43). In 2019, Patriots Landing, LLC. sold all 5.1 acres (2 ha) to DelDOT; they are the current owners of parcel #133-11-15 in Area 2A (SCDB n.d. DB 5036:269–276).

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Figure 25: 1944 USGS Topographic Map (USGS 1944). Pink outline marks the approximate location of Area 2A.

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Figure 26: 1954 USGS Topographic Map (USGS 1954). Pink outline marks the approximate
location of Area 2A.

Parcel #133-16-12

As mentioned above, originally, both parcels (133-11-15 and 133-16-12) of Area 2A were located on the same land as parcel #133-11-14 of Area 1. The history under parcel #133-11-15 covers the early history of this parcel, parcel #133-16-12, as both parcels were located on the same property (see Parcel #133-11-15, p. 56). However, by 1949, Homer H. Pepper sold a half interest on 50 acres (20.2 ha) to Chester V. Townsend, Jr. and another half interest on the same land to George and Lillie Gray (SCDB n.d. DB 384:499–500). Just four years later, both parties sold their portion of interest on the 50-acre (20.2-ha) parcel to Townsends, Inc. (SCDB n.d. DB 423:345–348, 423:502–504). It is likely, given the land’s proximity to other parcels owned by Townsends, Inc., that this land was utilized as part of their agricultural ventures. Townsends, Inc. owned the property until 2005 at which point they sold it to TP One, LLC.; that same year, they sold 40.704 acres (16.4 ha) of the original 50-acre (20.2-ha) property to Patriots Landing, LLC. (SCDB n.d. DB 3134:129–142, 3141:287–293). Fourteen years later, Patriots Landing, LLC. sold the 40.704-acre (16.4-ha) tract to DelDOT; they are the current owners of parcel #133-16-12 in Area 2A (SCDB n.d. DB 5036:269–276).

George W.C. Hearn Dwellings and Agricultural Complex Site, 7S-F-175A (CRS S13424.001)

Site Description

The George W.C. Hearn Dwellings and Agricultural Complex site, 7S-F-175A (CRS S13424.001), is a mid- to late-nineteenth through early-twentieth century domestic site situated in an open agricultural field between Fox Run Road and the Norfolk Southern rail line. The initial recovery of 96 historic artifacts from 34 positive STPs, as well as the observation of a large scatter of small glass and brick fragments on the surface of the plowed field, resulted in the identification of site 7S-F-175A within Area 2A. This site is located in the southwestern quadrant of the field that comprises Area 2A, and is bounded by the project boundaries on the west and south, and by negative STPs on the east and north. Site 7S-F-175A measures approximately 450 feet (137.2 m) at its greatest north to south extent, and 400 feet (121.9 m) at its greatest east to west extent, encompassing an area of 3.05 acres (1.23 ha). The site occupies a level portion of a plowed field, lying at approximately 25 feet (7.6 m) AMSL. A forested area along the banks of Sheep Pen Ditch lies immediately to the west of the site’s western boundary.



Photo 12: Overview of Site 7S-F-175A, Looking Northwest.

A total of 75 STPs was excavated within the boundaries of site 7S-F-175A. STPs reached an average depth of 1.4 feet (42.6 cm), while the deepest STP reached a depth of 2.5 feet (76.2 cm). The A horizon, a plow zone, reached an average depth of 1.0 foot (30.5 cm). STP profiles showed little variance across the site, and were generally similar to those found in Area 2A as a whole (see Figure 22, p. 56). A typical STP profile in site 7S-F-175A consisted of a brown (10YR 4/3) sandy loam topsoil overlying light yellowish brown (10YR 6/4) sand subsoil. Brick crumbs were noted in the plow zone in some STPs.

Test Units

Due to the concentration of artifacts recovered during the STP survey, as well as the artifacts observed on the surface, the site was further examined through the excavation of TUs to explore the possibility of this location being representative of a house site (Table 4, p. 64). Five 3-by-3-foot (0.9 by 0.9-m) TUs (9–13) were placed to examine this area. Soil profiles in the TUs were substantially similar to those in the STPs, consisting of a brown (10YR 4/3) sandy loam plow zone overlying a light yellowish brown (10YR 6/4) or yellowish brown (10YR 5/6) sandy clay, culturally sterile subsoil (Photo 13 and Figure 27, p. 64–65). A total of 522 artifacts was recovered from the TUs, all from plowzone (Stratum I).

The artifact assemblage recovered from site 7S-F-175A totaled 615 objects, all of which were historic (Table 5, p. 65). Ninety-three of these were recovered during the STP portion of the survey, while the remaining 522 were from test unit excavation. Architectural debris (n=332) made up the majority (54 percent) of the assemblage, including nails (n=239) of all

manufacture styles, window glass (n=92), and a spike. Machine-cut nails (1805–1890) were found in the high quantities (n=135) suggesting a mid- to late-nineteenth century potential construction period (Adams 2002). However, nails made both prior to machine-cut and after were also recovered, but in fewer quantities, with five hand-wrought nails (pre-1790) and 87 ungalvanized wire (1890–1950), respectively, indicating modifications to the building into the early-twentieth century.

Table 4: Excavated TUs at the George W.C. Hearn Dwellings and Agricultural Complex Site 7S-F-175A.

Test Unit #	Dimensions	Depth of Plow Zone	Excavated Depth	Features Present	# of Artifacts
9	3-by-3-foot (0.9-by-0.9-m)	1.1 feet (33.5 cm)	1.9 feet (57.9 cm)	N	83
10	3-by-3-foot (0.9-by-0.9-m)	1.0 feet (30.5 cm)	1.8 feet (54.9 cm)	N	175
11	3-by-3-foot (0.9-by-0.9-m)	0.8 feet (24.4 cm)	1.6 feet (48.8 cm)	N	107
12	3-by-3-foot (0.9-by-0.9-m)	0.9 feet (27.4 cm)	1.7 feet (51.8 cm)	N	71
13	3-by-3-foot (0.9-by-0.9-m)	0.9 feet (27.4 cm)	1.7 feet (51.8 cm)	N	86



Photo 13: TU 12, North Wall Profile, Showing Typical Soils in Area 2A, Site 7S-F-175A .

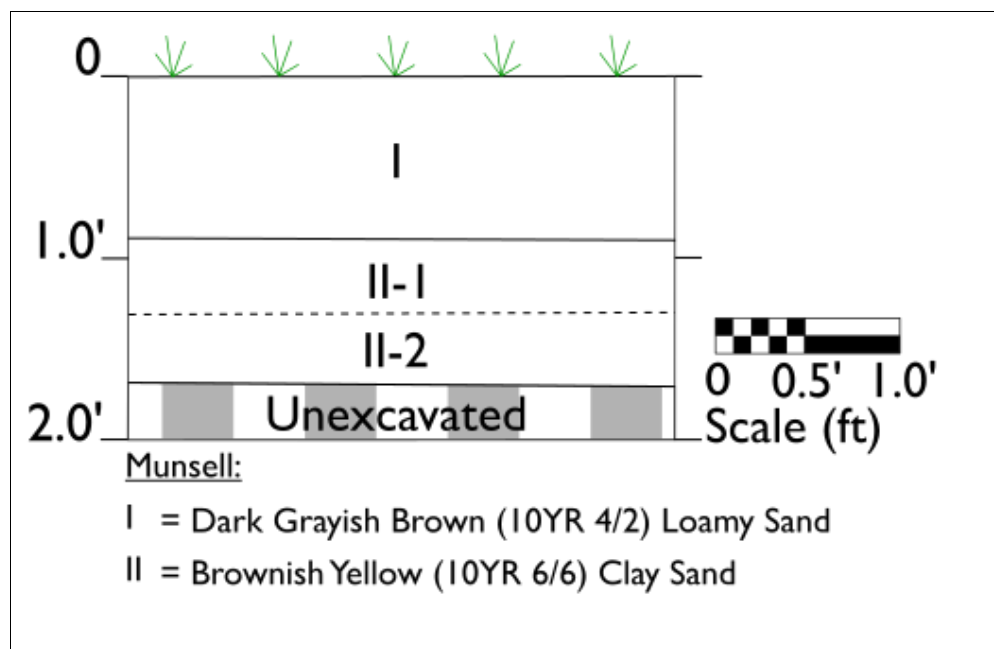


Figure 27: Site 7S-F-175A, Drawing of the North Profile in TU 13, Site 7S-F-175A.

Table 5: Relative Quantities of Artifact Recovered from Site 7S-F-175A.

Artifact Category	Count	Percentage
Architectural	332	54%
Ceramic	91	14.9%
Glass	137	22.2%
Metal	50	8.1%
Personal	4	0.6%
Historic Other	1	0.2
Total	615	100%

The ceramic assemblage included a wide variety of wares, most of which are consistent with a mid- to late-nineteenth through early-twentieth century date (Table 6, p. 66). For instance, nearly seventy percent of the ceramic assemblage consists of whiteware, both decorated and undecorated. Undecorated whiteware has a mean date of 1910, while the decorated ware has a much earlier mean date (DAACS 2006). Only nine of the 63 whiteware fragments displayed decoration, including dipped, which has a mean date of 1890 and blue transferprint (1910) (DAACS 2006). While earlier wares such as creamware and pearlware were also recovered, the bulk of the assemblage dates to the second half of the nineteenth- through early-twentieth century.

The remaining materials from the site consist of vessel and bottle glass, various metal pieces, personal items, and one plastic fragment. The vessel and bottle glass assemblage is largely representative of the mid- to late-nineteenth century, with clear being the most common color recovered (n=70). Other notable glass colors include brilliant green, which is typically

twentieth century, solarized, and olive. In addition to bottle fragments, additional forms within the glass assemblage include hurricane lamp glass and milk glass lid liners for Mason jars. Personal items consist of brass suspender buckle, a machine-made glass bead, a brass jewelry setting for a paste jewel, and a leather fragment.

Table 6: Relative Quantities of Ware Types Recovered from Site 7S-F-175A.

Ware Type	Count	Percentage
American Stoneware	1	1%
Creamware	3	3%
Hard Paste	1	1%
Indeterminate Ware	1	1%
Ironstone	2	2%
Pearlware	8	8.6%
Redware	12	13%
Whiteware	63	68.4%
Yellow Ware	1	1%
Total	92	100%

The prevalence of architectural debris, coupled with the domestic materials and personal items, indicates this site represents a domestic site dating to the mid- to late-nineteenth through early-twentieth century. Historic research further supports this identification, as a dwelling is apparent on historic maps and aerials (see Figure 23–Figure 25, pp. 58–60).

Evaluation and Significance

Site 7S-F-175A comprises a late-nineteenth through early-twentieth century domestic scatter. As in Area 1, the earliest development of the parcel can be traced to George Washington Cathell Hearn in the mid-nineteenth century, his use of the property for agricultural and the subsequent short-term use by multiple owners and tenants throughout the twentieth century is consider common and thus insignificant. As such there are no known significant associations between the site and a significant historical event or pattern of events (Criterion A).

There are no known associations with significant persons (Criterion B) or a distinctive architectural style (Criterion C). With regard to Criterion D, while the site may contain data related to area history in general, numerous similar sites have been recorded and explored throughout the region. These sites are ubiquitous across the landscape. As such, data recovered through additional excavations would not add new information to our knowledge about late-nineteenth through early-twentieth century rural life in Sussex County. Moreover, the Phase I survey suggests that the artifacts are of common types and the potential for significant features is low. Given the general commonality of the domestic artifact assemblage, absence of features, and lack of significant association with key events or people, it is **recommended that the George W.C. Hearn Dwellings and Agricultural Complex site 7S-F-175A is not eligible for the NRHP under Criteria A–D.**

Isolated Finds

In addition to site 7S-F-175A, one isolated find (IF 6) was recovered from STP 2A-O-7 in Area 2A, an aqua glass vessel fragment. The probability that further work at isolated finds will contribute important new information is extremely low; therefore, **by definition, isolated finds are not eligible for listing in the NRHP.**

Area 2B

Area 2B lies approximately 240 ft (73.2 m) southeast of Area 2A along Fox Run Road and is roughly triangular in shape. Area 2B is bounded to the north by forest and to the south by agricultural fields. The western edge of Area 2B lies along Fox Run Road. The area seems to have once been used for agriculture, but is now overgrown with saplings. Area 2B covers approximately 3.1 acres (1.23 ha) and sits at an elevation of approximately 30 feet (9.1 m) AMSL.

Seventy-three STPs were aligned on seven transects in Area 2B (see Figure 21, p. 55). Though mainly undisturbed, two STPs in Area 2B were not excavated. STP 2B-S-7 was located within large push-pile and STP 2B-S-11 was located within a dense scatter of crush and run rock deposited by a derailment. The average depth of A-horizon soils in this area was 0.95 feet (27.4 cm) with the deepest 1.9 feet (57.9 cm) below the ground surface. The average depth of STPs in Area 2B was 1.43 feet (43.5 cm), with the deepest STP reaching 3 feet (91.4 cm). Across Area 2B, profiles generally consisted of a brown (10YR 4/3) sandy to silty loam overlying a yellowish brown (10YR 5/6) sand subsoil (Figure 28). The excavation of 16 Positive STPs in Area 2B resulted in the identification of one new archaeological site (site 7S-F-175B).

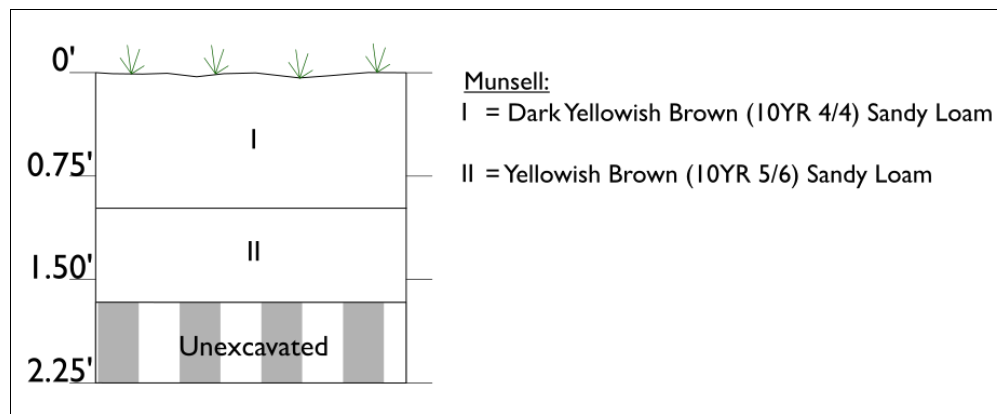


Figure 28: Representative Soil Profile from Area 2B, STP 2B-U-7.

Parcel History Area 2B

Today, Area 2B is composed of two parcels: #133-16-13 and #133-16-13.01. Below is a history of both parcels, starting with #133-16-13, followed by #133-16-13.01. Due to the proximity of both parcels, they share a similar nineteenth- and twentieth-century history.

Parcel #133-16-13

Originally, both parcels (133-16-13 and 133-16-13.01) of Area 2B were part of the lands owned by George W. C. Hearn during the mid-nineteenth century. According to an 1868 map, Area 2B was located on property belonging to Hearn (see Figure 17, p. 45) (Beers 1868a). A building, with “Geo W.C. Hearn” noted beside it, was located to the northwest of Area 2B, and to the south was a large mill pond, utilized by the two mills. Like a majority of Hearn’s land holdings, which were sold at public auction after his passing, this property was also likely sold publicly, although archive records were not uncovered to determine this with certainty.

In 1894, J. Francis Bacon was appointed as a trustee to sell several tracts of land, including the land on which Area 2B is located, to the Directors of the Farmers Bank (SCDB n.d. DB 121:11–15). The Farmers Bank was one of the first banks established in Delaware; founded in 1807, the bank operated out of different branches, including one in Georgetown (Delaware Gazette and State Journal 1895). In the 1894 deed between Bacon and the bank, a 50-acre (20.2-ha) parcel is described as adjoining the lands of Benjamin Ingram, the Millsboro Mill Pond, and the Burton mill lot, containing a tenant house (SCDB n.d. DB 121:11–15). The Farmers Bank owned the land until 1903 when they sold it to Minty Hopkins (SCDB n.d. DB 145:587–589).

Minty Houston (also seen as Minta, Araminta, and Minnie) was born in 1861 (U.S. Census 1870). According to her death record from 1944, she did not know who her parents were; as a child, she lived with John and Addie Houston (Find A Grave 2017; U.S. Census 1870). The Houstons were a white family; however, in the 1870 census records a few Black individuals were listed as members of their household, including Minty (U.S. Census 1870). The connection between Minty and the Houstons is unclear; while it is possible she was either related to them or adopted by them, given the shared last name, it is also possible that she worked for them in some capacity. Minty married James Hopkins, a farmer, in 1879 and they had several children; in 1907, Minty was remarried to a fisherman named Nathaniel Tingle (U.S. Census 1880, 1900, 1910).

It is unclear why Minty purchased the property from the Farmers Bank in 1903; archive records do not indicate that she worked as a farmer or laborer, but that she stayed at home and took care of her children. Minty’s life is an interesting record of the interconnected relations between various families in the area, as well as between white and black residents of Millsboro. It is possible that she and her children occupied the tenant house located on the property after her first husband passed away, but a gap in census records makes this difficult to determine with certainty. In 1909, Minty and Nathaniel Tingle sold the 50-acre (20.2-ha) property to Able Ableman (SCDB n.d. DB 170:142–144). As noted in the parcel history section for Area 2A, Able Ableman also owned a 50-acre (20.2-ha) tract of land to the northwest of Area 2B; however, his ownership of both parcels did not overlap. Able Ableman sold the parcel he purchased from the Tingles to Joseph Moore in 1911, five years before he purchased the other 50-acre parcel (located in Area 2A) (SCDB n.d. DB 180:303–305, 204: 365–368).

Joseph Moore, an Englishman, did not occupy the land for long (U.S. Census 1920). In 1914, he and his wife, Alice, sold all 50 acres (20.2 ha) to Valetta Guernsey, who sold it four years later to Frederick G. Steele (SCDB n.d. DB 192: 324–326, 212:216–217). Historic topographic maps indicate the presence of a building on the property under Steele ownership (Figure 29, p. 70). Situated directly along the main road, it is possible that this house is the same tenant house that was mentioned in earlier deed records.

Frederick G. Steele (1891–1941) and his wife, Olia S. Steele (1895–1952), occupied the property from 1918 until 1944 (Find A Grave 2014a, 2014b). Records indicate that Steele operated a general farm on the property in the 1920s; however, he listed a change in profession in both 1930 and 1940 (U.S. Census 1920, 1930, 1940). In those years, Frederick Steele worked as a blacksmith and mason, respectively, out of his own shop with his sons assisting (U.S. Census 1930, 1940). Although Frederick Steele changed his main profession, he still listed his property as a “farm” in the 1930s, indicating that he might have continued to farm the land (U.S. Census 1930). From the late-1910s to the 1930s, few changes took place on the property. According to a 1937 historic aerial, the house situated along the State Road remained and was surrounded by vegetation; the other areas of the property were open fields, but a southern portion of the parcel boundaries, outside of Area 2B, appears to have had some development (Figure 30, p. 71). Specific details could not be ascertained from the historic aerial.

In 1932, Frederick G. Steele sold the property to Marian G. Parker, who sold it back the same day to Olia S. Steele, Frederick’s wife (SCDB n.d. DB 286:336–337, 286:337–338). The property remained under Olia S. Steele’s ownership until she sold it in 1944; it changed hands several times between 1944 and 1949, at which point Lucien and Ruth Lenhart purchased the land from then-owners Harley P. and Ida White (SCDB n.d. DB 346:360–361, 384:188–190, 384:234).

Lucien Lenhart (1913–2014), who worked for Collins & Ryan, a prominent business in Millsboro and one of the largest suppliers of propane gas in Delaware, and his wife, Ruth, owned the property throughout the late-twentieth century (Delmarva News 1973; Find A Grave 2013b; Hudson 1975). According to topographic maps, the original house located on the parcel was no longer standing by 1954; however, a house was constructed outside of Area 1 in the southern end of the parcel boundaries along Betts Pond Road, in the same area where earlier development was noted in the late-1930s (Figure 31, p. 72). This house, constructed outside of Area 2B, was likely occupied by the Lenhart family, as phone records indicate that Lucien Lenhart lived at 25475 Betts Pond Road, the address of the house (U.S. Phone and Address Directories 1993–2002). According to historic aerials, by the 1980s, the Lenharts built a second house on the parcel northwest of the circa-1954 house (USGS 1981). Following the construction of the second house, Area 2B remained unoccupied and undeveloped into the late-twentieth century (Figure 32, p. 73).

In 1997, Lucien T. Lenhart sold 1.53 acres (0.61 ha) of the original 50-acre (20.2 ha) tract to his daughter, Aleta Esham, and this became parcel 133-16-13.01 (SCDB n.d. DB 2222:227). Upon the passing of Lucien Lenhart in 2014, he bequeathed his land holdings to his children Aleta Esham and Lucien T. Lenhart, Jr.; Lucien T. Lenhart’s will was not uncovered during

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Figure 29: 1917 USGS Topographic Map (USGS 1917). Pink outline marks the approximate location of Area 2B.

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Figure 30: 1937 Aerial Imagery (FirstMap 1937). Pink outline marks the approximate location of Areas 2A and 2B. Yellow circles mark the approximate location of the house and additional development. Map not to scale.

this effort (SCDB 4609:330–332). Further details on that parcel are discussed below. The remaining portions of the original land, which at the time amounted to 40.7 acres (16.4 ha), were split into two parcels; as of 2015, Parcel #133-16-13, the one on which the majority of Area 2B is located, contained 11.33 acres (4.5 ha) and Parcel #133-16-13.02, an area located to the north and northeast of Area 2B, contained 29.447 acres (11.9 ha) (Sussex County Plat Book n.d.:PB 224:75). According to deed records, parcel #133-16-13.02 was left to Lucien T. Lenhart, Jr. and it appears that parcel 133-16-13 was left to Aleta Esham according to the Sussex County property records database (SCDB n.d. DB 4609:330–332; Sussex County Property Records Search 2021). Today, Aleta Esham is the sole owner of parcel #133-16-13, the parcel on which the majority of Area 2B is located. The circa-1954 house located on this parcel remains standing. The 2013 derailment mentioned in the parcel history for Area 2A lead to a massive cleanup effort which left the parcel strewn with iron railroad fixtures and crushed stone (3CBSPhilly 2013). The debris left the parcel unfit for plowing and disking; thus, the owners planted pine trees with the prospect of commercial harvest. To date, the trees have not reached maturity.

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Figure 31: 1954 USGS Topographic Map (USGS 1954). Pink outline marks the approximate location of Area 2B. Yellow circle marks the location of the house on the parcel boundaries.

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Figure 32: 1992 USGS Topographic Map (USGS 1992). Pink outline marks the approximate location of Area 2B. Yellow marks the location of the circa-1954 house and red marks the location of the circa-1980 house in the parcel boundaries.

Parcel #133-16-13.01

As mentioned above, originally, both parcels (133-16-13 and 133-16-13.01) of Area 2B were located on the same land. The history under parcel #133-16-13 covers the nineteenth- and twentieth-century history of this land, parcel #133-16-13.01, as both were located on the same property (see Parcel #133-16-13, p. 68). In the 1980s during Lucien T. Lenhart's ownership, a house was constructed on the portion of the land that would later become parcel #133-16-13.01 (USGS 1981) (see Figure 32, p. 73). In 1997, Lucien T. Lenhart sold 1.53 acres (0.61 ha) of his original 50-acre (20.2-ha) property to his daughter Aleta and her husband, William Esham (SCDB n.d. DB 2222:227). This was the property on which the circa-1980 house was situated. Today, Aleta and William Esham remain the owners of the parcel.

George W.C. Hearn Dwellings and Agricultural Complex Site, 7S-F-175B (CRS S13424.002)

Site Description

The George W.C. Hearn dwellings and agricultural complex site, 7S-F-175B (CRS S13424.002), is a small scatter of primarily late-nineteenth through early-twentieth century artifacts lying in an abandoned field adjacent to the northeast side of Fox Run Road southeast of site 7S-F-175A (Photo 14). It was identified when 19 artifacts were recovered from 12 positive STPs. The site is bounded on the south and east by negative STPs, on the north by the Area 2B boundary, and by Fox Run Road on the west. Site 7S-F-175B has an oval shape, measuring approximately 100 feet (30.5 m) northwest-southeast, by 150 feet (45.7 m) northeast-southwest, and has an area of 1.42 acres (0.57 ha). Site 7S-F-175B lies at an elevation of approximately 25 feet (7.6 m) AMSL.



Photo 14: View of Site 7S-F-175B From Fox Run Road, Looking Northeast.

Twelve positive STPs were excavated within the boundaries of site 7S-F-175B, with an average depth of 1.3 feet (40.5 cm) and the deepest STP excavated to 1.5 feet (45.7 cm). Topsoil horizons in the site reached an average depth of 0.9 feet (27.4 cm). STP profiles varied only slightly across site 7S-F-175B, and were generally similar to those in the rest of Area 2B, consisting of a dark yellowish brown (10YR 4/4) sandy loam overlying a yellowish brown (10YR 5/6) sandy loam subsoil (see Figure 28, p. 67). All artifacts were recovered from the plow zone, identified as Stratum 1.

A total of 19 artifacts were recovered from site 7S-F-175B, all of which are historic. Ceramics and architectural debris were found in the highest quantities, 10 and six respectively. Ceramics within this assemblage are consistent with a mid- to late-nineteenth century date and consist of ironstone (1840–2000), whiteware (1820–2000), and hard paste porcelain (1610–2000). Architectural materials consisted of both machine-cut nails (1805–1890) and ungalvanized wire nails (1890–1950), further solidifying the time period indicated by the ceramic assemblage (Adams 2002). The remaining materials consist of one slag fragment and two clear glass vessel fragments.

Evaluation and Significance

Site 7S-F-175B comprises a small late-nineteenth through early-twentieth century domestic scatter. As in Area 1 and 2A, the earliest development of the parcel can be traced to George Washington Cathell Hearn in the mid-nineteenth century. His use of the property for agricultural and the subsequent short-term use by multiple owners and tenants throughout the mid-twentieth century is considered common and thus insignificant. As such, there are no known significant associations between the site and a significant historical event or pattern of events (Criterion A). There are likewise no known associations with significant persons (Criterion B) or a distinctive architectural style (Criterion C). With regard to Criterion D, while the site may contain data related to area history in general, numerous similar sites have been recorded and explored throughout the region. These sites are ubiquitous across the landscape. As such, data resulting from additional excavations would not add new information to our knowledge about late-nineteenth through early-twentieth century rural life in Sussex County. Moreover, the Phase I survey suggests a general paucity of artifacts and that the potential for significant features is low. Given the general paucity of artifacts, absence of features, and lack of significant association with key events or people, it is **recommended that the George W.C. Hearn Dwellings and Agricultural Complex site 7S-F-175B is not eligible for the NRHP under Criteria A–D.**

Area 5

Area 5 lies along Gravel Hill Road, approximately 0.7 miles (1.2 km) east of Area 2B (Photo 15 and Photo 16, p. 76). Area 5 is roughly rectangular and bounded to the north by forest, to the east and south by farms, and to the west by Gravel Hill Road. The entire area is an unplanted agricultural field. Area 5 covers approximately 31.2 acres (12.6 ha) and sits at an elevation of approximately 25 feet (7.6 m) AMSL.



Photo 15: Overview of Area 5, Looking East.



Photo 16: Overview of Area 5, Looking Southeast.

Five hundred and sixty-four STPs were aligned on 28 transects in Area 5 (Figure 33, p. 77). Though largely undisturbed, eight STPs (5-A-7, 5-B-6, 5-C-8, 5-D-9, 5-E-11, 5-H-17, 5-I-20, and 5-J-22) in Area 5 located within a compacted dirt farm road along the northern woodlot

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Figure 33: Location of Area 5 in the North Millsboro Bypass APE (FirstMap 2017).

were not excavated. The average depth of A-horizon soils in this area was 0.93 feet (0.3 m) with the deepest 1.3 feet (0.4 m) below the ground surface. The average depth of STPs in Area 5 was 1.37 feet (0.4 m), with the deepest STP reaching 2 feet (0.6 m). Across Area 5, profiles generally consisted of a brown (10YR 4/3) sandy to silty loam overlying a yellowish brown (10YR 5/6) sand subsoil (Figure 34). The excavation of 16 positive STPs resulted in the identification of 2 isolated finds (IF 5 and IF 7). The remaining positive finds were considered modern and were discarded in the lab.

The 1868 Beers map (Figure 35, p. 79) shows the location of the Henry Frame house in the vicinity of Area 5. A metal detector sweep was undertaken within the general vicinity of the possible dwelling. Only modern refuse was detected, mainly along Gravel Hill Road. The few metal artifacts located in the field were related to twentieth century farming activities and were not retained. Historic maps show that the Gravel Hill Road had been straightened by 1955 and the Frame house is now subsequently situated either on the west side of the road or beneath the current roadway outside of the APE.

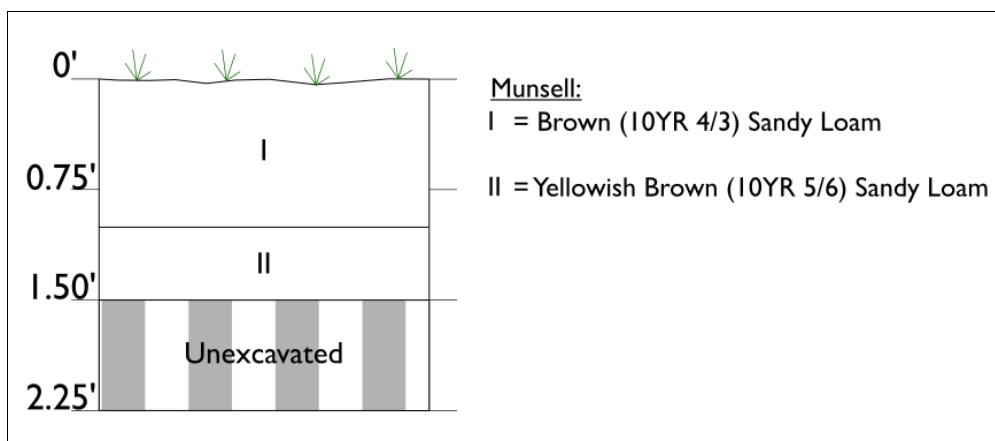


Figure 34: Representative Soil Profile from STP 5-D-5.

Parcel History Area 5

Today, Area 5 is composed of one parcel: #234-27-26. Below is a history of that parcel's occupation and land use.

Parcel #234-27-26

One of the earliest detailed maps of this region shows that Area 5 was occupied by "H. Frame" during the mid-nineteenth century (see Figure 35, p. 79). "H. Frame" is likely Henry C. Frame (1830–1916) a prominent farmer in Millsboro (Find A Grave 2014c; The News Journal 1925). The Frame family was one of the earliest to establish in Sussex County. Henry's father, George Frame, was a State Representative and the Sheriff of the county in the 1830s, and Henry's uncle, Robert Frame, was a prominent lawyer (Find A Grave 2010; Scharf 1888). In addition to the family's political pursuits, they also owned and farmed land.

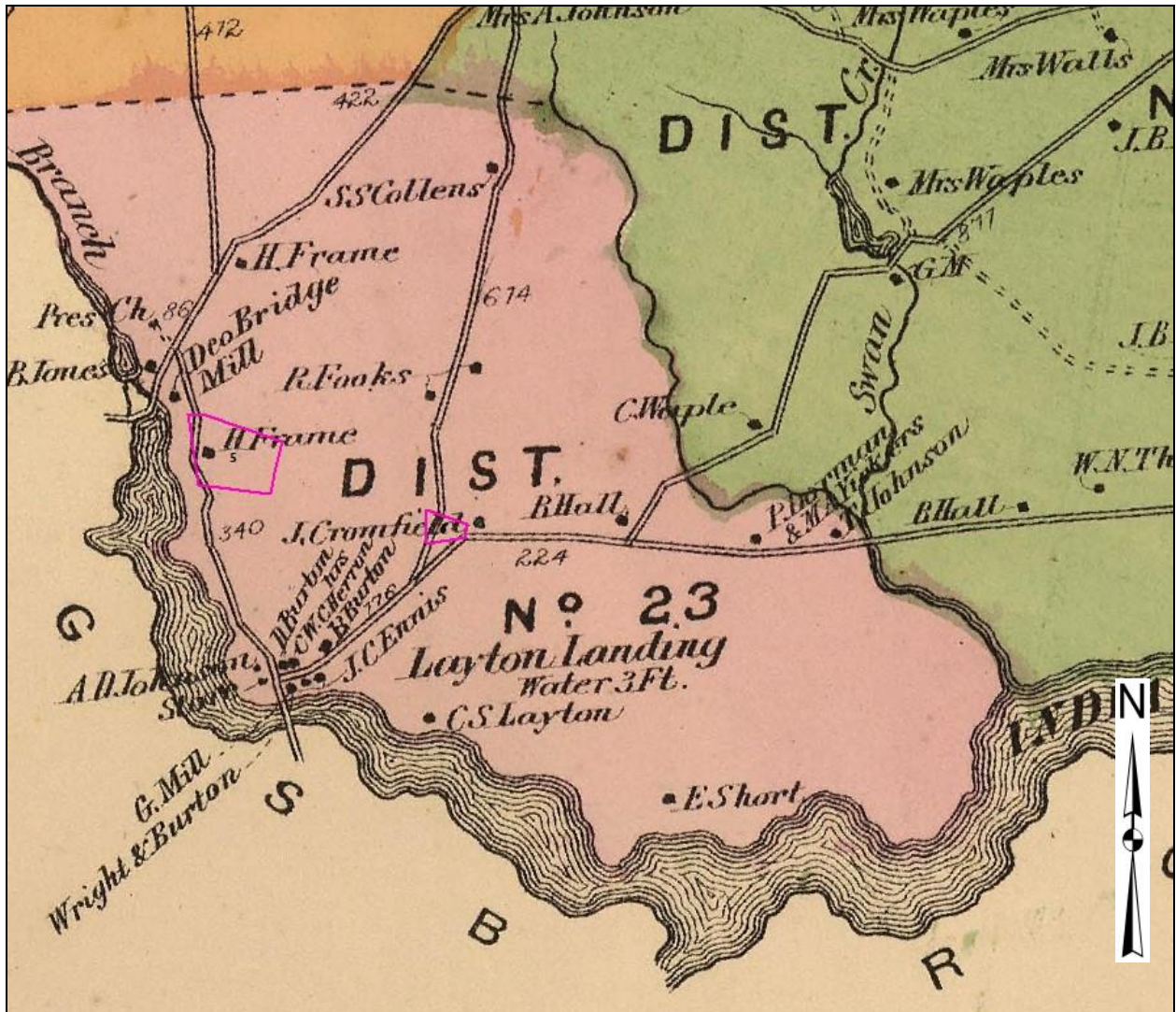


Figure 35: Map of the Millsboro, Delaware (Beers 1868b). Pink outlines mark the location of Area 5 and 6. Map not to scale.

Around 1829, Henry's uncle, Robert, established a dam over a branch of the Indian River called "Cowbranch" in order to construct a grist mill and saw mill; this mill later was called "Doe Bridge Mill," but it is marked on an 1868 map as "Deo Bridge Mill" (Beers 1868b; Delaware Journal 1829; Montgomery 2015). The DE SHPO recorded the ruins of the Doe Bridge Mill (S00437) and noted a construction date of around 1800. In addition to the mill, the Frame family had a fruit orchard and a distillery (White 2015).

By the late 1860s, Henry C. Frame owned the entirety of Area 5, as well as land to the north of Area 5, which included the Doe Bridge Mill (Beers 1868b; White 2015). In 1870, Henry C. Frame's real estate value was \$4,642; when converted to today's currency, this is about \$95,389, a substantial amount of money for the mid-nineteenth century (U.S. Census 1870). In 1860, census records include two Black farm laborers and one Black child as part of Frame's household; later census records also include various farm laborers as part of the

Frame household, which indicates that there was a substantial amount of land to farm and additional labor was needed (U.S. Census 1860, 1870).

By 1900, Henry C. Frame retired as a farmer, and in 1916, he passed away (Find A Grave 2010; U.S. Census 1900). Archival research suggests that the land was passed down through the Frame family; by 1926, the land was owned by Henry C. Frame's grandchildren, Harold Wilson and Annie Williams (SCDB n.d. DB 262:79–81). Harold Wilson and Annie Williams were the children of Henry C. Frame's only daughter, Elizabeth, and her husband, Manlove D. Wilson (The News Journal 1938). According to deed records, Harold Wilson, his wife, Calla, Annie Williams, and her husband, Roger, sold several tracts of land, including the parcel in question, at public auction in 1926 (SCDB n.d. DB 262:79–81). The deed describes the land as containing 88 acres and 100 square perches (35.6 ha) and describes them as "Lots No. 6 & 11" on land "located on or near the public road leading from Millsboro to Zoar Church" (SCDB n.d. DB 262:79–81). No mention of how Harold Wilson and Annie Williams acquired the property was included in the deed; however, a separate deed, for an unrelated parcel of land, between them and another party in 1926 mentions that the land was bequeathed to them in the will of their grandfather, Henry C. Frame (SCDB n.d. DB 258:323–325).

As mentioned above, in 1926, Harold Wilson and Annie Williams, along with their spouses, sold the 88-acre (35.6-ha) property to William Blaine Atkins (also spelled Adkins) and Walter C. Cordrey, operating under the business name of Atkins & Cordrey (SCDB n.d. DB 262:79–81). Dr. William Blaine Atkins (1893–1980) and Walter C. Cordrey (1882–1955) owned and operated Atkins & Cordrey, a lumber firm in Millsboro, from 1925 to 1937 (The Morning News 1980). It is possible that the land on this parcel was used as part of their lumber operation. Historic topographic maps indicate that Area 5 had limited development; no buildings were constructed within the boundaries of Area 5 between 1917 and 1944 (USGS 1917, 1944) (Figure 36 and Figure 37, pp. 81–82). Development in the parcel was limited to the area across Gravel Hill Road, to the west of and outside of Area 5. In the early-twentieth century, topographic maps show a small building (noted in Figure 36 by a yellow circle) located along a roadway, but by 1944, that building is gone (USGS 1917, 1944).

It appears that Walter Cordrey devoted much of his professional life to the lumber industry, but William Atkins was involved in various businesses in Millsboro. He primarily worked as a dentist from 1928 to 1980, but he was also a farmer and involved in the poultry industry as owner of the W.B. Atkins Feed Company in Millsboro for a period of time (The Morning News 1980). Additionally, Atkins was involved in the canning industry, another large economic sector for Millsboro. The substantial amount of fresh produce grown in Millsboro and the early lack of refrigeration led to the essential business of canning. At an unknown date, Atkins purchased one of the older canning operations, Burton Canning Company, which had been in operation since 1895 (Hudson 1975). He renamed the company Atkins Canning Company; eventually, he sold it in 1939 (Hudson 1975). Atkins also owned a portion of Collins & Ryan, another canning corporation in Millsboro (Hudson 1975). Despite Atkins' involvement in several businesses in Millsboro, it is likely, given the land's association with Cordrey, that it was utilized as part of their lumber and milling business rather than any of the many other businesses that Atkins was associated with and owned.

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Figure 36: 1917 USGS Topographic Map (USGS 1917). Pink outline marks the approximate location of Area 5. Yellow outline marks the location of the building on the parcel.

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Figure 37: 1944 USGS Topographic Map (USGS 1944). Pink outline marks the approximate location of Area 5.

By 1945, Walter Cordrey and his wife Blanche were the sole owners of the land and they sold it to John and Elsie Brittingham (SCDB n.d. DB 353:92–93). At the time, the parcel contained only 43 acres (17.4 ha) and 12,540 square feet (0.09 sq m). John and Elsie owned the land for a short period of time, selling it a year later to Joshua and Flossie Hamblin (SCDB n.d. DB 361:436–437). The land remained under Hamblin ownership for several years. Joshua Hamblin (1897–1971) was a farmer; according to the census records from 1930, he was a truck farmer, indicating that he produced crops on a large scale in order to ship them to markets that were further away (Find A Grave 2013c; U.S. Census 1930). Historic topographic maps show development on the parcel, outside of the Area 5 boundaries, during the Hamblin ownership; in 1955, there appears to be a house and several buildings, likely associated with agricultural production, located on the west side of the parcel and across Gravel Hill Road from the Area 5 boundaries (noted with a yellow circle; Figure 38, p. 84). The map also shows that Gravel Hill Road had been straightened. It should be noted that the DE SHPO recorded a house (S02954) in this location, but no details on the house were listed in CHRIS. As the house formerly sat on the east side of the road, it is likely it was moved to the west side when the road was straightened. It is likely that this area was the location of Hamblin’s farming operation; the land on which Area 5 is currently located appears to have been utilized as agricultural fields.

Joshua Hamblin owned the land until his passing and in 1983, John Lee Hamblin, a son of Joshua and Flossie and guardian of the property, sold all 43 acres (17.4 ha) and 12,540 square feet (0.09 sq m) to his brother Paul W. Hamblin (SCDB n.d. DB 1190:187–188). According to deed records, Paul W. Hamblin, and his wife, Sylvia, lived in Georgia and did not occupy the land in Millsboro (SCDB n.d. DB 1190:187–188). Paul was a distinguished veteran and spent several years as a Colonel in the U.S. Army, and John Lee worked at the DuPont fiber manufacturing plant in Seaford (The Daily Times 2019; Find A Grave 2009). Given their career paths, and the fact that Paul and Sylvia, the main owners of the property, lived in Georgia, it is unlikely that the Hamblin family continued to operate their farm. Historic topographic maps further confirm this finding; Area 5 remained undeveloped and the area to the west of it, which originally contained several buildings, only contained a few buildings in 1981, indicating a lack in occupation or a change in use (USGS 1981). By the 1990s, only the house remained to the west of Area 5 (Figure 39, p. 85).

Throughout the late-1990s and early-2000s, several transactions took place in which interest on the land was transferred to the trusts of Paul W. and Sylvia Hamblin, as well as the trusts of Paul W. Hamblin II, Katherine Hamblin, and Paul W. Hamblin III (SCDB n.d. DB 2109:211–212, 3568: 55–57; 3568: 58–60; 3892: 327–329; 3892: 330–333). In 2015, all parties with interest and ownership in the 43-acre (17.4-ha) parcel sold it to Paul W. Hamblin III, the grandson of Paul W. Hamblin (Find A Grave 2009; SCDB n.d. DB 4447:94–102). He remains the current owner of the property.

Isolated Finds

A total of two isolated finds (IF 5 and IF 7) were recovered from Area 5 (Table 7, p. 86). The probability that further work at isolated finds will contribute important new information is extremely low; therefore, **by definition, isolated finds are not eligible for listing in the NRHP.**

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Figure 38: 1955 USGS Topographic Map (USGS 1955). Pink outline marks the approximate location of Area 5. Yellow outline marks the location of buildings on the parcel.

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Figure 39: 1992 USGS Topographic Map (USGS 1992). Pink outline marks the approximate location of Area 5. Yellow outline marks the location of the remaining building on the parcel.

Table 7: Summary of Isolated Finds in Area 5.

IF #	Provenience	Description
5	STP5-M-19	Purple Transfer-printed Whiteware Fragment
7	STP5-W-5	Blue Shell Edge Whiteware Fragment

Area 6

Area 6 lies northeast of the intersection between Hollyville Road and John J. Williams Highway, approximately 0.47 miles (0.8 km) southeast of Area 5. Area 6 is bounded to the north and east by agricultural fields, to the west by Hollyville Road, and to the south by John J. William Highway. The entire area is unplanted agricultural field (Photo 17). Area 6 covers approximately 5.1 acres (2.1 ha) and sits at an elevation of approximately 23 ft (7 m) AMSL.



Photo 17: Overview of Area 6, Looking North.

One hundred and thirty-eight STPs were aligned on ten transects in Area 6 (Figure 40, p. 87). Though largely undisturbed, soils in Area 6 did hold water and STPs 6-B-1 and 6-H-6E, located within inundated areas, were not excavated. Two STPs, 6-I-4S and 6-I-5E, were located with roadside drainage ditches and were also not excavated. The average depth of A-horizon soils in this area was 0.97 feet (0.3 m) with the deepest 1.2 feet (0.4 m) below the ground surface. The average depth of STPs in Area 6 was 1.41 feet (0.4 m), with the deepest STP reaching 1.7 feet (0.5 m). Across Area 6, profiles consisted of a brown (10YR 4/3) sandy to silty loam overlying a yellowish brown (10YR 5/6) sand subsoil (Figure 41, p. 88). The excavation of 39 positive STPs in Area 6 resulted in the identification of one new site (site 7S-F-173).

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Figure 40: Location of Area 6 in the North Millsboro APE, Showing the Limits of Site 7S-F-173 (FirstMap 2017).

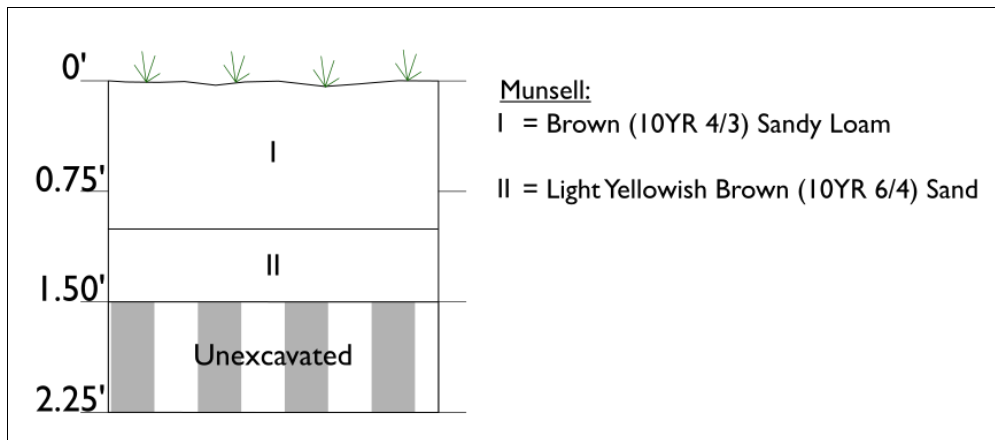


Figure 41: Representative Soil Profile from STP 6-C-8.

Parcel History Area 6

Today, Area 6 is composed of one parcel: #234-32-103. Below is a history of that parcel's occupation and land use. Originally, the parcel on which Area 6 is located started as three different tracts of land that eventually came together by the early 1900s. First a discussion of Tract No. 1 will be presented, followed by a discussion of Tract No. 2, and Tract No. 3.

Parcel #234-32-103

One of the earliest detailed maps of the region shows that Area 6 was occupied by “J. Cramfield” during the mid-nineteenth century (Figure 42, p. 89). “J. Cramfield” is Jacob Cramfield (b. 1830), a farmer in Millsboro; his name is also seen as “Cranfield” or “Crampfield” (U.S. Census 1870, 1880). According to an 1868 map, Cramfield had a house to the east of Area 6 which sat directly along the road that led from Millsboro to Lewes (Beers 1868b). Little to no information was uncovered on the Cramfield family, although it appears that several members of the family lived in Delaware. It is possible that Cramfield owned all three tracts of land that compose the parcel for Area 6, but only one deed related to Cramfield was located, the one related to Tract No. 1. In 1855, Jacob Cramfield purchased 71.2 acres (29 ha) from Joseph Bennett; the land was described as being situated along the “new state road” that led from Millsboro to Lewes (SCDB n.d. DB 62:196–197). The deed made no mention of any dwellings or other buildings on the land.

It is unknown how long Jacob Cramfield owned the land, but by 1895, it was sold at public auction in order to settle a dispute in the Burton family; this would indicate that in between Cramfield's ownership and the public auction, the land was owned by the Burtons. In 1895, Sheriff John H. Truitt sold the 71.5-acre (28.9-ha) property to Edward S. Burton (SCDB n.d. DB 120:468–469). The acreage of the property had increased from 71.2 acres (29 ha) to 71.5 acres (28.9 ha), which might have been due to a measurement error when it was surveyed. The property that Edward S. Burton purchased also included a two-story stone dwelling, stables, and other outbuildings (SCDB n.d. DB 120:468–469). It is probable that the dwelling mentioned in the deed is the same one marked on the 1868 map situated just to the east of Area 6 and originally owned by Jacob Cramfield.

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Figure 42: Map of the Millsboro, Delaware (Beers 1868b). Pink outlines mark the location of Area 5 and 6.

Edward S. Burton (1841–1908), who worked as a farmer and helped in his family’s dry goods store, was a member of the prominent Burton family in Millsboro (Find A Grave 2014d; U.S. Census 1870, 1880). The Burton family at one time owned much of the land on which Millsboro was settled, and also owned one of the earliest mills in the area; by the late-eighteenth century, the family was well established in Millsboro (Carter 1980). Edward S. Burton owned the property for five years before he sold it to Abraham and Bettie Betts (Find A Grave 2014d; SCDB n.d. DB 140:481–482; U.S. Census 1870, 1880). At the time of the sale, the land only contained 71 acres (28.7 ha) and there was no mention of any house or other buildings on the property in the deed. Tract No. 1 remained under Betts ownership into the mid-twentieth century.

Around the same time, they purchased Tract No. 1, the Betts also purchased another tract of land nearby, Tract No.2. While it is unclear how they came to own Tract No. 2 originally, the Betts sold the 18.7-acre (7.56-ha) parcel to Mary L. Downs in 1902 (SCDB n.d. DB

145:308–309). A year later she sold the property to John E. Thomas; the acreage remained the same and the land was described as adjoining the lands of Abraham Betts, likely Tract No. 1 (SCDB n.d. DB 145:306–307). By 1907, the land came back under Abraham and Bettie Betts ownership when John E. Thomas, and his wife, Sarah, sold the entire parcel back to the Betts (SCDB n.d. DB 274:214–216). By 1907, the Betts owned both Tract No.1 and Tract No. 2 for a total of 89.7 acres (36.3 ha).

It was not until 1934 that the Betts also owned Tract No. 3. Abraham Betts purchased the 8-acre (3.2-ha) parcel from Henry and Fayette Barker in that year (SCDB n.d. DB 296:238–239). Prior to selling to the Betts, Henry Barker purchased the land in 1917 from Florence Davidson and Ward Davidson, and his wife, Edith, the heirs of James J. Davidson, a farmer; no deed records were found that demonstrated whom James Davidson had purchased the land from prior to 1917 (SCDB n.d. DB 213:156–157; U.S. Census 1880). With Abraham Betts' purchase of Tract No. 3, his total land holdings in the area came to 97.7 acres (39.5 ha) which included all three tracts.

Based on the descriptions of the land in deed records and past ownership history, it is likely that Tract No. 2 and Tract No.3 were composed of farm land, whereas Tract No. 1 was the only parcel with a dwelling on it. Historic topographic maps show that a house was located within Area 6 in 1917 (Figure 43, p. 91). It is possible that this was the dwelling mentioned in earlier deeds and noted on the 1868 map, although it is also likely that the earlier stone dwelling had been replaced at some point during the late-nineteenth and early-twentieth centuries.

The Betts were another well-established family in Millsboro. Several Betts family members lived in the area; in the late-nineteenth century, a member of the Betts family purchased the Burton mill complex, which was situated to the southwest of Area 6 and southeast of Areas 1, 2A, and 2B (Carter 1980). The Betts rebuilt the property and it was subsequently named after them; Betts Pond is named after the family and remains a permanent marker of their history in the area. Abraham L. Betts (1862–1944) was a member of this family (Find A Grave 2014e). According to census records, Abraham Betts owned his own general farm on which several of his children worked (U.S. Census 1910). He was first married to Henrietta Jane Betts (also seen as Rita and Bettie); after she passed away unexpectedly in 1926, he remarried at a later date (Find A Grave 2014e).

The Betts' farm fit into the surrounding landscape, which was predominantly rural and agricultural; the farm was situated just to the north of Gumboro, a small farming community that was established in the 1830s and 1840s just across the river from downtown Millsboro (The Gumboro Community Center 2021). The Betts' farm operated as a grain farm, a common farming venture in the area (U.S. Census 1930). According to historic maps, the house located in Area 6 remained standing throughout the Betts' ownership (USGS 1944). This house was recorded by the DE SHPO as House (S03147). No construction date is listed in the CHRIS database; however, photographs of the house show that it was a two-and-a-half-story, three-bay dwelling constructed in the vernacular style with a cross-gabled roof.

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Figure 43: 1917 USGS Topographic Map (USGS 1917). Pink outline marks the approximate location of Area 6.

The house had a one-and-a-half story addition or possibly an earlier core. Records indicate that the house's structural system, likely frame, was supported by a brick foundation (Figure 44). The physical components of the Betts' house are different from those mentioned in earlier deeds; the house owned by Jacob Cramfield was called a "stone two-story" dwelling; it is possible that the earlier house noted on the 1868 map and in deed records was demolished at one point during a change in ownership or encapsulated within siding masking its appearance. Regardless, the property, and Area 6 in particular, had a house located within its boundaries between the mid-nineteenth century and into the late-twentieth century. The site was surveyed in 1983 and listed as a Priority 2 building in a survey of National Register eligibility evaluation of Indian River Hundred (Herman et al. 1988:126). By 1992, the farmhouse was no longer extant. In 2004, a survey of the area recorded the farmhouse as demolished and the area had reverted to an active agricultural field.



Figure 44: Survey Photo of the House (CRS# S03147) within Area 6.

Upon the death of Abraham Betts, the property was left to two of his children: Charles Williams Betts, and his wife, Sadie, and Ira C. Betts, and his wife, Miranda (Find A Grave 2014e; SCDB n.d. DB 347:553–555). In 1944, they sold the land, which still contained 97.7 acres (39.5 ha), to Townsends, Inc. (SCDB n.d. DB 347:553–555). As noted above, Townsends, Inc. was one of the largest chicken growers and feed producers in Millsboro (see Figure 20, p. 51) (The Morning News 1957). The Townsends likely utilized the property on which Area 6 is located as part of their chicken operation. During their ownership, the property was further developed; by 1955, there were several outbuildings on the property in addition to the dwelling (Figure 45, p. 93). In 1981, the house remained extant, but the surrounding outbuildings were no longer marked on the topographic map (Figure 46, p. 94). By 1992, the house was no longer standing (USGS 1992).

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Figure 45: 1955 USGS Topographic Map (USGS 1955). Pink outline marks the approximate location of Area 6.

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Figure 46: 1981 USGS Topographic Map (USGS 1981). Pink outline marks the approximate
location of Area 6.

In 2000, Townsends, Inc. and Central Grain, Inc., a grain brokerage company, sold several tracts of land, including parcel #234-32-103, to Mountaire Farms of Delaware, Inc. (SCDB n.d. DB 2484:129–146, 2794:135–152; The News Journal 1991). Established in 1914 as a commercial feed business called Hayes Grain & Commission in Arkansas, Mountaire Farms grew throughout the twentieth century (Mountaire Farms 2020). By the 1950s, the company began processing chickens and changed their name to Mountaire (Mountaire Farms 2020). The company purchased Townsends, Inc. and Central Grain, Inc. in 2000; the former Townsend facilities were renamed Mountaire Farms of Delaware, Inc. (Mountaire Farms 2020). Today, they are the current owners of the property. Headquarters for the company is located at 29005 John J. Williams Highway, just east of Area 6.

J. Cromfield, Dwelling Complex Site, 7S-F-173, CRS S03147

Site Description

The J. Cromfield Dwelling Complex site, 7S-F-173 (CRS S03147) is a mid-nineteenth-through late-twentieth-century farmstead complex recorded in Area 6 (Photo 18, p. 95). Survey photos show that the house was a one-and-a-half story core with a two-and-a-half story, three-bay addition built on a brick foundation. The complex was identified through the excavation of 39 positive STPs, resulting in the recovery of 118 historic artifacts. The site is bounded on the west, north, and east by negative STPs, and on the south by a combination of negative STPs and the project boundary along DE-24. Site 7S-F-173 occupies an area of 3.08 acres (1.2 ha) measuring approximately 425 feet (129.5 m) at its greatest east to west extent,



Photo 18: Overview of Site 7S-F-173, Looking West.

and 375 feet (114.3 m) at its greatest north to south extent. It is located entirely within a generally level farm field, at the intersection of DE-24 and Hollyville Road, near the location of a house and outbuildings that can be seen on historic mapping and aerial photography, from as early as 1917 through 1955 (see Figure 43, p. 91 and Figure 45, p. 93). By 1981, outbuildings are no longer present (see Figure 46, p. 94). By 1992, the farmhouse is no longer and the area had reverted to an active agricultural field.

A total of 68 STPs was excavated within the boundaries of site 7S-F-173. STPs within the site reached an average depth of 1.4 feet (42.7 cm), while the deepest STP reached a depth of 1.6 feet (48.8 cm). The A horizon, a plowzone, reached an average depth of 0.9 feet (27.4 cm). STP profiles across the site were largely similar, to each other and to STPs in Area 6 generally (see Figure 41, p. 88). A typical STP profile in site 7S-F-173 consisted of a brown (10YR 4/3) sandy loam topsoil overlying yellowish brown (10YR 5/6) sand subsoil. Brick crumbs were noted in the plowzone in some STPs. The corner of a cinderblock was noted in STP H-4.

STP survey recovered 118 artifacts, all historic, from 39 positive STPs. Because of the large number of positive STPs, as well as the presence of a house in historic maps, and the presence of a cinder block in one of the STPs, a series of TUs was placed within site 7S-F-173 in order to evaluate the possibility of subsurface features related to the historic occupation of the site.

Test Units

Five 3-foot x 3-foot (0.9-m x 0.9-m) TUs (2–6) and two 6-foot x 3-foot (0.9-m x 1.8-m) TUs (1 and 7) were placed to examine site 7S-F-173. In general, soil profiles in the test units were similar to those observed in the STPs, consisting of a brown (10YR 4/3) plowzone overlying a light yellowish brown (10YR 6/4) or yellowish brown (10YR 5/6), culturally sterile subsoil (Photo 19 and Figure 47, p. 97).

Table 8: Summary of TU Data from Area 6, Site 7S-F-173.

Test Unit #	Dimensions	Depth of Plow Zone	Excavated Depth	Features Present	# of Artifacts
1	6-foot x 3-foot (0.9-m x 1.8-m)	1.3 feet (39.6 cm)	1.3 feet (39.6 cm)	Y	196
2	3-foot x 3-foot (0.9-m x 0.9-m)	1.0 feet (30.5 cm)	1.8 feet (54.9 cm)	N	117
3	3-foot x 3-foot (0.9-m x 0.9-m)	1.0 feet (30.5 cm)	1.4 feet (42.7 cm)	N	131
4	3-foot x 3-foot (0.9-m x 0.9-m)	0.9 feet (27.4 cm)	1.8 feet (54.9 cm)	N	6
5	3-foot x 3-foot (0.9-m x 0.9-m)	0.8 feet (24.4 cm)	1.6 feet (48.8 cm)	N	12
6	3-foot x 3-foot (0.9-m x 0.9-m)	0.9 feet (27.4 cm)	1.7 feet (51.8 cm)	N	131
7	6-foot x 3-foot (0.9-m x 1.8-m)	1.1 feet (33.5 cm)	1.1 feet (33.5 cm)	Y	136



Photo 19: TU 4, North Wall Profile, Showing Typical Soils Within Site 7S-F-173.

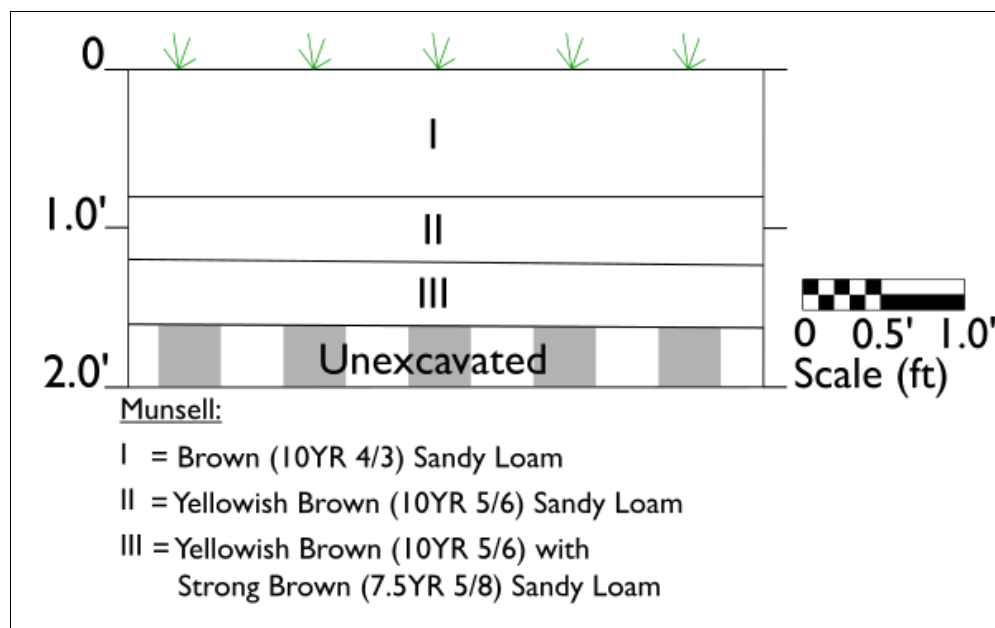


Figure 47: TU 5, North Wall Profile, Site 7S-F-173.

Although TU soil profiles were generally similar to STPs, and few features associated with a probable small outbuilding were encountered in the subsoil, TU 1 was placed around STP H-4 in order to examine the possible feature represented by a cinder-block believed to be in situ. A line of broken cinder blocks dating to the first half of the twentieth century was identified at the base of Stratum I, likely representing the former foundation of a small outbuilding associated with the farmstead.

TU 7 was placed perpendicular to the end of TU 1 in order to determine the orientation of the outbuilding and its possible function. No intact courses of cinderblocks were observed, suggesting the foundation was shallow, but a builder's trench indicates that the orientation likely paralleled DE-24. No other features were found in the remaining excavated TUs.



Photo 20: Site 7S-F-173, Plan View of TU 1, Looking East.



Photo 21: Site 7S-F-173, Plan View of TU 7, Looking North.

An additional 729 artifacts were recovered from the TUs, for a total of 847 artifacts recovered from site 7S-F-173, all of which were historic. Vessel and bottle glass and architectural debris were found in the highest numbers, with fewer quantities of ceramics, metals, organics, and personal items (Table 9, p. 99). Glass, accounting for 46 percent of the

overall assemblage, included bottle glass, vessel glass, mason jar lid liners, and hurricane lamp glass. Of the 244 bottle glass fragments recorded, 152 of these fragments were clear bottle glass, likely being machine-made. Unfortunately, the fragmentary nature of the collection prohibited determination of manufacturing technique on many of the pieces. The remaining portion of the glass assemblage consists of various other jars and bottle fragments in blue, aqua, solarized, amber, olive, and brilliant green.

Table 9: Relative Quantities of Artifact From Site 7S-F-173.

Artifact Category	Count	Percentage
Architectural	319	37.7%
Ceramic	70	8.3%
Glass	388	45.8%
Historic Other	5	0.7%
Metal	59	6.9%
Organic	1	0.1%
Personal	5	0.5%
Total	847	100%

Glass (n=388) and architectural debris (n=319) were found in the highest quantities across the site. Glass was recovered in all forms with clear glass being the most prevalent (n=245; 63 percent). Other types of glass represented in the assemblage include fragments of oil lamp chimneys, Mason jar fragments, and pressed vessel glass.

Architectural materials made up the 38 percent of the overall assemblage, including nails (n=171) of all manufacture styles and window glass (n=145). Machine-cut nails (1805–1890) were found in the high quantities (n=117) suggesting a mid- to late-nineteenth century potential construction period (Adams 2002). However, nails made both prior to machine-cut and after were also recovered, but in fewer quantities. A total of two hand wrought nails (pre-1790) and 30 ungalvanized wire nails (1890–1950) were also recovered and suggest modifications to the building into the early-twentieth century.

The ceramic assemblage included a wide variety of wares, most of which are consistent with a late-nineteenth through early-twentieth century date (Table 10, p. 100). For instance, over half of the ceramic assemblage consists of whiteware, both decorated and undecorated. Undecorated whiteware has a mean date of 1910 (DAACS 2006). Only four of the 38 whiteware fragments displayed decoration. Two of these fragments were red transfer-printed, which has a mean date of 1914 (DAACS 2006). Banded blue and white yellow ware was also present in the assemblage with a mean date of 1895 and American stoneware has a mean date of 1835 (DAACS 2006).

The remaining materials from the site consist of horseshoes, fence staples, spikes, and flat pressed metal fragments, all typical materials found on a working farm. The historic other and organic categories included pieces of plastic and a coal fragment. The final category, personal items, contains typical artifacts for this category and include a clay marble, a rubber button, two white ball clay smoking pipe fragments, and a white metal necklace chain.

Table 10: Relative Quantities of Ware Types Recovered from Site 7S-F-173.

Ware Type	Count	Percentage
American Stoneware	1	1.4%
Indeterminate Ware	1	1.4%
Ironstone	25	35.7%
Whiteware	38	54.4%
Yellow Ware	5	7.1%
Total	70	100%

The high density of artifacts, specifically bottle glass and architectural debris, coupled with the personal items indicates this site likely represents a domestic site dating to the late-nineteenth through early-twentieth century. Historic research further supports this identification as a dwelling as is apparent on historic maps and aerials.

Evaluation and Significance

Site 7S-F-173 is a historic domestic site, generally corresponding to the known location of a mid-nineteenth farmstead that remained occupied until the early 1980s. This site was evaluated with regard to the criteria for NRHP eligibility.

The earliest development of the parcel can be traced to Jacob Cramfield in the mid nineteenth century. His use of the property for agricultural and the subsequent use by owners and tenants throughout the twentieth century is considered common and thus insignificant. Therefore, there are no known significant associations between the site and a significant historical event or pattern of events (Criterion A). There are likewise no known associations with significant persons (Criterion B) or with a distinctive architectural style (Criterion C). With regard to Criterion D, although a large number of positive STPs was excavated, the artifact assemblage is somewhat scant considering the number and size of TUs excavated. The fragmented cinderblock remains of a mid- twentieth century building, likely an outbuilding, were encountered in adjoining TUs but the remaining TUs did not reveal any features, including those dug nearest the projected location of the historic house. Although the artifact assemblage is indicative that the site reflects the remains of a farm house shown on maps and aerial photography, the TUs suggest the house lies outside of the APE.

While the site may contain data related to area history in general, numerous similar sites have been recorded and explored throughout the region. These sites are ubiquitous across the landscape. As such, the data would not add new information to our knowledge about mid-nineteenth through early-twentieth century rural life in Sussex County, Delaware. Moreover, the Phase I survey suggests that the artifacts, commonly associated with farmsteads, are of limited capacity to provide important information and the potential for significant features is low. As such, the site is unlikely to yield further meaningful information about that occupation or about mid-nineteenth through twentieth century rural life in the area more generally. As such, **site 7S-F-173 is recommended not eligible for inclusion in the NRHP under Criteria A–D.**

SUMMARY AND RECOMMENDATIONS

On behalf of the DelDOT, Dovetail conducted a Phase I archaeological survey of the proposed North Millsboro Bypass APE in Sussex County, Delaware. The survey was conducted in association with the proposed bypass around Millsboro off of U.S. 113, and examined areas of potential disturbance along the route of the bypass. The five different discrete areas surveyed by Dovetail are designated Areas 1, 2A, 2B, 5, and 6. Areas 3 and 4 were scheduled to be surveyed by A.D. Marble and thus were not investigated as part of this study. The Phase I archaeological fieldwork by Dovetail was conducted between January 24 and February 27, 2021.

The goal of the investigations was to identify any archaeological sites or above-ground features associated with a site, such as building foundations, wells, etc., that may be eligible for listing in the NRHP within the APE. Dovetail completed a background literature and records review of the project vicinity at the DE SHPO, as well as accessing the DE SHPO's online CHRIS. CHRIS did not depict any previously recorded archaeological sites or above-ground resources located within the proposed footprints of the Millsboro bypass APE.

The Phase I archaeological survey consisted of a pedestrian reconnaissance, metal detecting where appropriate, and the excavation of 2,228 STPs and 12 TU in five locations (Areas 1, 2A, 2B, 5, and 6) with the potential to contain intact sites, which resulted in the identification of seven IFs and four sites (agricultural site 7S-F-174, George W.C. Hearn Dwellings and Agricultural Complex site 7S-F-175A, George W.C. Hearn dwellings and agricultural complex site 7S-F-175B, and J. Cromfield Dwelling Complex 7S-F-173) (Figure 48, p. 102; Table 11, p. 103). While 7S-F-174, 7S-F-175A, 7S-F-175B, and 7S-F-173 may contain data related to area history in general, numerous similar sites have been recorded and explored throughout the region. These sites are ubiquitous across the landscape. As such, the data would not add new information to our understanding about mid-nineteenth- through late-twentieth-century rural life in Sussex County, Delaware. Moreover, the Phase I survey suggests that the artifacts, commonly associated with farmsteads are of limited capacity to provide important information and the potential for significant features is low. In addition, the archival research conducted as part of this project did not uncover any ties with important events or individuals. As such, 7S-F-174, 7S-F-175A, 7S-F-175B, and 7S-F-173 are unlikely to yield further meaningful information about that occupation or about mid-nineteenth-through late-twentieth-century rural life in the area more generally. As such, **Dovetail recommends sites 7S-F-174, 7S-F-175A, 7S-F-175B, and 7S-F-173 are not eligible for inclusion in the NRHP under Criteria A–D.** No further archaeological work at these sites is recommended.

Isolated finds refer to spatially discrete areas marked by surface indications and little else or assemblages that result from simple loss or casual or single-episode discard. Typically, artifacts from a single STP, three or fewer related artifacts from several STPs, or unrelated artifacts recovered from one or a few STPs or collected from the surface are designated isolated finds. The probability that further work at isolated finds will contribute important new information is extremely low; therefore, **IF 1–IF 7, by definition, are not eligible for listing in the NRHP.**

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Figure 48: Sites Identified within the APE (Esri 2021b).

Table 11: Recommendations for Archaeological Loci.

CRS and Site #; IF #	Property Name	Location	Site Type	Period	NRHP Eligibility Recommendation	Recommendation
Site 7S-F-174 S13422	Area 1	Intersection of U.S. 113 and Patriots Way in an open Agricultural Field	Outbuildings	Mid-Nineteenth Through Early Twentieth Century	Not Eligible	No further work
George W.C. Hearn Dwellings and Agricultural Complex Site 7S-F-175A S13424.001	Area 2A	Between Fox Run Road and the Norfolk Southern Rail Line in an Open Agricultural Field	House site	Late-Nineteenth Through Early twentieth Century	Not Eligible	No further work
George W.C. Hearn Dwellings and Agricultural Complex Site 7S-F-175b S13424.001\2	Area 2B	South of 7S-F-175A Between Fox Run Road and the Norfolk Southern Rail Line in a Fallow Field	House site	Late-Nineteenth Century	Not Eligible	No further work
J. Cromfield Dwelling Complex Site 7S-F-173 S03147	Area 6	Intersection of DE-24 and Hollyville Road, in an open Agricultural Field	Farmstead -Outbuildings	Mid-Nineteenth Through Late-Twentieth Century	Not Eligible	No further work
IF 1	Area 1	Intersection of U.S. 113 and Patriots Way in an open Agricultural Field	Unknown; one manganese-glazed redware sherd from STP	Nineteenth Century	Not Eligible	No further work
IF 2	Area 1	Intersection of U.S. 113 and Patriots Way in an open Agricultural Field	Unknown; one undecorated pearlware sherd from STP	Nineteenth Century	Not Eligible	No further work
IF 3	Area 1	Intersection of U.S. 113 and Patriots Way in an open Agricultural Field	Unknown; one slip decorated redware sherd from STP	Nineteenth Century	Not Eligible	No further work
IF 4	Area 1	Intersection of U.S. 113 and Patriots Way in an open Agricultural Field	Unknown; one window glass fragment from STP	Nineteenth Century	Not Eligible	No further work

CRS and Site #; IF #	Property Name	Location	Site Type	Period	NRHP Eligibility Recommendation	Recommendation
IF 5	Area 5	An open Agricultural Field East of Gravel Hill Road	Unknown; one purple transfer-printed whiteware sherd from STP	Nineteenth Century	Not Eligible	No further work
IF 6	Area 2A	Between Fox Run Road and the Norfolk Southern Rail Line in an Open Agricultural Field	Unknown; one aqua vessel glass fragment from STP	Nineteenth Century	Not Eligible	No further work
IF 7	Area 5	An open Agricultural Field East of Gravel Hill Road	Unknown; one blue shell edge whiteware sherd from STP	Nineteenth Century	Not Eligible	No further work

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APPENDIX A: SHOVEL TEST CATALOG

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Area	Transect	STP	Radial	Level	Start Depth (ft.)	End Depth (ft.)	Soil Description	Comments
1	A	5		I	0	0.7	10YR 3/2 very dark grayish brown sandy loam	
1	A	5		II	0.7	1.3	10YR 5/3 brown with 10YR 5/8 yellowish brown sand	
1	A	6		I	0	1.1	10YR 3/2 very dark grayish brown sandy loam	with charcoal inclusions
1	A	6		II	1.1	1.55	10YR 5/3 brown with 10YR 5/8 yellowish brown sand	
1	A	7		I	0	0.9	10YR 3/2 very dark grayish brown with 10YR 8/2 very pale brown and 10YR 5/3 brown sandy loam	disturbed
1	A	8		I	0	0.5	10YR 3/2 very dark grayish brown sandy loam	
1	A	8		II	0.5	1.1	10YR 2/1 black with 10YR 5/8 yellowish brown sand	hydric
1	A	9		I	0	1	10YR 3/2 very dark grayish brown sandy loam	
1	A	9		II	1	1.4	10YR 5/4 yellowish brown sand	
1	A	10		I	0	0.9	10YR 3/2 very dark grayish brown sandy loam	
1	A	10		II	0.9	1.3	10YR 5/4 yellowish brown sand	
1	A	11		I	0	0.75	10YR 3/2 very dark grayish brown sandy loam	
1	A	11		II	0.75	1.15	10YR 5/4 yellowish brown sand	
1	A	12	East	I	0	0.95	10YR 3/2 very dark grayish brown sandy loam	
1	A	12	East	II	0.95	1.35	10YR 5/4 yellowish brown sand	
1	A	12	North	I	0	0.8	10YR 4/3 brown sandy loam	
1	A	12	North	II	0.8	1.2	10YR 6/4 light yellowish brown sandy loam	
1	A	12	South	I	0	0.9	10YR 4/3 brown sandy loam	
1	A	12	South	II	0.9	1.3	10YR 6/4 light yellowish brown sandy loam	
1	A	12		I	0	0.8	10YR 3/2 very dark grayish brown sandy loam	
1	A	12		II	0.8	1.3	10YR 5/4 yellowish brown sand	
1	A	13		I	0	0.75	10YR 3/2 very dark grayish brown sandy loam	
1	A	13		II	0.75	1.3	10YR 5/4 yellowish brown sand	
1	A	14		I	0	0.65	10YR 3/2 very dark grayish brown sandy loam	
1	A	14		II	0.65	1	10YR 5/4 yellowish brown sand	
1	A	15		I	0	0.7	10YR 3/2 very dark grayish brown sandy loam	
1	A	15		II	0.7	1.2	10YR 5/4 yellowish brown sand	
1	A	16		I	0	0.75	10YR 3/2 very dark grayish brown sandy loam	
1	A	16		II	0.75	1.3	10YR 5/4 yellowish brown sand	
1	A	17	East	I	0	1	10YR 4/4 dark yellowish brown sandy loam	
1	A	17	East	II	1	1.4	10YR 7/8 yellow sand	
1	A	17	North	I	0	1	10YR 4/4 dark yellowish brown sandy loam	shell discarded
1	A	17	North	II	1	1.4	10YR 7/8 yellow sand	
1	A	17	South	I	0	0.75	10YR 3/2 very dark grayish brown sandy loam	
1	A	17	South	II	0.75	1.45	10YR 5/4 yellowish brown sand	
1	A	17	West	I	0	1.2	10YR 3/2 very dark grayish brown sandy loam	
1	A	17	West	II	1.2	1.6	10YR 5/4 yellowish brown sand	
1	A	17		I	0	0.9	10YR 3/2 very dark grayish brown sandy loam	discarded brick
1	A	17		II	0.9	1.45	10YR 5/4 yellowish brown sand	
1	A	18		I	0	0.8	10YR 3/2 very dark grayish brown sandy loam	
1	A	18		II	0.8	1.45	10YR 5/4 yellowish brown sand	
1	A	19		I	0	0.8	10YR 3/2 very dark grayish brown sandy loam	
1	A	19		II	0.8	1.5	10YR 5/4 yellowish brown sand	
1	AA	2		I	0	0.9	10YR 4/3 brown sandy loam	EOT
1	AA	2		II	0.9	1.5	10YR 6/4 light yellowish brown sand	
1	AA	3		I	0	1.1	10YR 4/3 brown sandy loam	
1	AA	3		II	1.1	1.5	10YR 6/4 light yellowish brown sand	
1	AA	4		I	0	0.9	10YR 4/3 brown sandy loam	discarded brick

Area	Transect	STP	Radial	Level	Start Depth (ft.)	End Depth (ft.)	Soil Description	Comments
1	AA	4		II	0.9	1.3	10YR 6/4 light yellowish brown sand	
1	AA	5		I	0	0.8	10YR 4/3 brown sandy loam	discarded brick
1	AA	5		II	0.8	1.3	10YR 6/4 light yellowish brown sand	
1	AA	6		I	0	0.8	10YR 4/3 brown sandy loam	discarded brick
1	AA	6		II	0.8	1.2	10YR 6/4 light yellowish brown sand	
1	AA	7		I	0	0.6	10YR 4/3 brown sandy loam	
1	AA	7		II	0.6	1	10YR 6/4 light yellowish brown sand	
1	AA	8		I	0	0.6	10YR 4/3 brown sandy loam	
1	AA	8		II	0.6	1	10YR 6/4 light yellowish brown sand	
1	AA	9		I	0	0.7	10YR 4/3 brown sandy loam	
1	AA	9		II	0.7	1.1	10YR 6/4 light yellowish brown sand	
1	AA	10		I	0	0.9	10YR 4/3 brown sandy loam	
1	AA	10		II	0.9	1.3	10YR 6/4 light yellowish brown sand	
1	AA	11		I	0	1.2	10YR 4/3 brown sandy loam	
1	AA	11		II	1.2	1.6	10YR 6/4 light yellowish brown sand	
1	AA	12		I	0	1.1	10YR 4/3 brown sandy loam	
1	AA	12		II	1.1	1.5	10YR 6/4 light yellowish brown sand	
1	AA	13		I	0	1	10YR 4/4 dark yellowish brown sandy loam	
1	AA	13		II	1	1.4	10YR 6/3 pale brown sandy loam	
1	AA	14		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
1	AA	14		II	0.9	1.3	10YR 6/3 pale brown sandy loam	
1	AA	15		I	0	0.8	10YR 4/4 dark yellowish brown sandy loam	oyster shell
1	AA	15		II	0.8	1.3	10YR 6/3 pale brown sandy loam	
1	AA	16		I	0	0.7	10YR 4/4 dark yellowish brown sandy loam	
1	AA	16		II	0.7	1.2	10YR 6/3 pale brown sandy loam	
1	AA	17		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
1	AA	17		II	0.9	1.3	10YR 6/3 pale brown sandy loam	
1	AA	18		I	0	0.7	10YR 4/4 dark yellowish brown sandy loam	modern glass
1	AA	18		II	0.7	1.1	10YR 6/3 pale brown sandy loam	
1	AA	19		I	0	0.7	10YR 4/4 dark yellowish brown sandy loam	
1	AA	19		II	0.7	1.1	10YR 6/3 pale brown sandy loam	
1	AB	2		I	0	0.8	10YR 4/4 dark yellowish brown sandy loam	
1	AB	2		II	0.8	1.2	2.5Y 6/3 light yellowish brown sandy loam	
1	AB	3		I	0	0.8	10YR 4/4 dark yellowish brown sandy loam	
1	AB	3		II	0.8	1.2	2.5Y 6/3 light yellowish brown sandy loam	
1	AB	4		I	0	0.7	10YR 4/4 dark yellowish brown sandy loam	
1	AB	4		II	0.7	1.1	2.5Y 6/3 light yellowish brown sandy loam	
1	AB	5		I	0	0.8	10YR 4/4 dark yellowish brown sandy loam	
1	AB	5		II	0.8	1.2	2.5Y 6/3 light yellowish brown sandy loam	
1	AB	6		I	0	0.7	10YR 4/4 dark yellowish brown sandy loam	
1	AB	6		II	0.7	1.1	2.5Y 6/3 light yellowish brown sandy loam	
1	AB	7		I	0	0.7	10YR 4/4 dark yellowish brown sandy loam	
1	AB	7		II	0.7	1.1	2.5Y 6/3 light yellowish brown sandy loam	
1	AB	8		I	0	0.8	10YR 4/4 dark yellowish brown sandy loam	
1	AB	8		II	0.8	1.2	2.5Y 6/3 light yellowish brown sandy loam	
1	AB	9		I	0	0.7	10YR 4/4 dark yellowish brown sandy loam	
1	AB	9		II	0.7	1.1	2.5Y 6/3 light yellowish brown sandy loam	
1	AB	10		I	0	0.8	10YR 4/4 dark yellowish brown sandy loam	
1	AB	10		II	0.8	1.2	2.5Y 6/3 light yellowish brown sandy loam	

Area	Transect	STP	Radial	Level	Start Depth (ft.)	End Depth (ft.)	Soil Description	Comments
1	AB	11		I	0	0.8	10YR 4/4 dark yellowish brown sandy loam	
1	AB	11		II	0.8	1.2	2.5Y 6/3 light yellowish brown sandy loam	
1	AB	12		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
1	AB	12		II	0.9	1.3	2.5Y 6/3 light yellowish brown sandy loam	
1	AB	13		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
1	AB	13		II	0.9	1.3	2.5Y 6/3 light yellowish brown sandy loam	
1	AB	14		I	0	1	10YR 4/4 dark yellowish brown sandy loam	
1	AB	14		II	1	1.4	2.5Y 6/3 light yellowish brown sandy loam	
1	AB	15		I	0	1.1	10YR 4/4 dark yellowish brown sandy loam	
1	AB	15		II	1.1	1.5	2.5Y 6/3 light yellowish brown sandy loam	
1	AB	16		I	0	1	10YR 4/4 dark yellowish brown sandy loam	
1	AB	16		II	1	1.4	2.5Y 6/3 light yellowish brown sandy loam	
1	AB	17		I	0	1	10YR 4/4 dark yellowish brown sandy loam	
1	AB	17		II	1	1.4	2.5Y 6/3 light yellowish brown sandy loam	
1	AB	18		I	0	0.9	10YR 4/2 dark grayish brown sandy loam	
1	AB	18		II	0.9	1.3	2.5Y 6/3 light yellowish brown sand	
1	AB	19		I	0	1	10YR 3/3 dark brown sandy loam	
1	AB	19		II	1	1.4	10YR 6/4 light yellowish brown sand	
1	AC	2		I	0	0.95	2.5Y 4/3 olive brown sandy loam	
1	AC	2		II	0.95	1.35	2.5Y 6/3 light yellowish brown sand	
1	AC	3		I	0	0.7	2.5Y 4/3 olive brown sandy loam	
1	AC	3		II	0.7	1.1	2.5Y 6/3 light yellowish brown sand	
1	AC	4		I	0	0.8	2.5Y 4/3 olive brown sandy loam	
1	AC	4		II	0.8	1.2	2.5Y 6/3 light yellowish brown sand	
1	AC	5		I	0	0.9	2.5Y 4/3 olive brown sandy loam	
1	AC	5		II	0.9	1.3	2.5Y 6/3 light yellowish brown sand	
1	AC	6		I	0	0.8	2.5Y 4/3 olive brown sandy loam	
1	AC	6		II	0.8	1.25	2.5Y 6/3 light yellowish brown sand	
1	AC	7		I	0	1	2.5Y 4/3 olive brown sandy loam	
1	AC	7		II	1	1.4	2.5Y 6/3 light yellowish brown sand	
1	AC	8		I	0	0.9	2.5Y 4/3 olive brown sandy loam	
1	AC	8		II	0.9	1.3	2.5Y 6/3 light yellowish brown sand	
1	AC	9		I	0	0.7	2.5Y 4/3 olive brown sandy loam	
1	AC	9		II	0.7	1.1	2.5Y 6/3 light yellowish brown sand	
1	AC	10		I	0	0.85	2.5Y 4/3 olive brown sandy loam	
1	AC	10		II	0.85	1.3	2.5Y 6/3 light yellowish brown sand	
1	AC	11		I	0	0.95	2.5Y 4/3 olive brown sandy loam	
1	AC	11		II	0.95	1.35	2.5Y 6/3 light yellowish brown sand	
1	AC	12		I	0	1	2.5Y 4/3 olive brown sandy loam	
1	AC	12		II	1	1.4	2.5Y 6/3 light yellowish brown sand	
1	AC	13		I	0	0.7	2.5Y 4/3 olive brown sandy loam	
1	AC	13		II	0.7	1.1	2.5Y 6/3 light yellowish brown sand	
1	AC	14		I	0	1	2.5Y 4/3 olive brown sandy loam	
1	AC	14		II	1	1.4	2.5Y 6/3 light yellowish brown sand	
1	AC	15		I	0	1.35	2.5Y 4/3 olive brown sandy loam	
1	AC	15		II	1.35	1.75	2.5Y 6/3 light yellowish brown sand	
1	AC	16		I	0	0.9	2.5Y 4/3 olive brown sandy loam	
1	AC	16		II	0.9	1.3	2.5Y 6/3 light yellowish brown sand	
1	AC	17		I	0	1	2.5Y 4/3 olive brown sandy loam	

Area	Transect	STP	Radial	Level	Start Depth (ft.)	End Depth (ft.)	Soil Description	Comments
1	AC	17		II	1	1.4	2.5Y 6/3 light yellowish brown sand	
1	AC	18		I	0	1.05	2.5Y 4/2 dark grayish brown sandy loam	
1	AC	18		II	1.05	1.45	2.5Y 6/2 light brownish gray sand clay	
1	AC	19		I	0	1.1	2.5Y 4/2 dark grayish brown sandy loam	
1	AC	19		II	1.1	1.5	2.5Y 6/2 light brownish gray sand clay	
1	AD	3		I	0	0.5	10YR 4/3 brown sandy loam	EOT
1	AD	3		II	0.5	0.9	10YR 6/4 light yellowish brown sand	
1	AD	4		I	0	0.8	10YR 4/3 brown sandy loam	
1	AD	4		II	0.8	1.3	10YR 6/4 light yellowish brown sand	
1	AD	5		I	0	0.9	10YR 4/3 brown sandy loam	
1	AD	5		II	0.9	1.3	10YR 6/4 light yellowish brown sand	
1	AD	6		I	0	1.1	10YR 4/3 brown sandy loam	
1	AD	6		II	1.1	1.5	10YR 6/4 light yellowish brown sand	
1	AD	7		I	0	0.7	10YR 4/3 brown sandy loam	
1	AD	7		II	0.7	1.2	10YR 6/8 brownish yellow sand	
1	AD	8		I	0	1	10YR 4/3 brown sandy loam	
1	AD	8		II	1	1.5	10YR 6/4 light yellowish brown sand	
1	AD	9		I	0	1.3	10YR 4/3 brown sandy loam	
1	AD	9		II	1.3	1.7	10YR 6/8 brownish yellow sand	
1	AD	10		I	0	1	10YR 4/3 brown sandy loam	
1	AD	10		II	1	1.5	10YR 6/3 pale brown sand	
1	AD	11		I	0	1	10YR 4/3 brown sandy loam	
1	AD	11		II	1	1.5	10YR 6/3 pale brown sand	
1	AD	12		I	0	0.7	10YR 4/3 brown sandy loam	
1	AD	12		II	0.7	1.1	10YR 6/8 brownish yellow sand	
1	AD	13		I	0	1	10YR 4/3 brown sandy loam	
1	AD	13		II	1	1.5	10YR 6/3 pale brown sand	
1	AD	14		I	0	1	10YR 4/3 brown sandy loam	
1	AD	14		II	1	1.5	10YR 6/3 pale brown sand	
1	AD	15		I	0	1	10YR 4/3 brown sandy loam	
1	AD	15		II	1	1.5	10YR 6/3 pale brown sand	
1	AD	16		I	0	1	10YR 4/3 brown sandy loam	
1	AD	16		II	1	1.5	10YR 6/3 pale brown sand	
1	AD	17		I	0	1	10YR 4/3 brown sandy loam	
1	AD	17		II	1	1.5	10YR 6/3 pale brown sand	
1	AD	18		I	0	1	10YR 4/3 brown sandy loam	
1	AD	18		II	1	1.5	10YR 6/3 pale brown sand	
1	AD	19		I	0	1.3	10YR 4/3 brown sandy loam	
1	AD	19		II	1.3	1.7	10YR 6/4 light yellowish brown sand	
1	AE	7		I	0	1	10YR 4/4 dark yellowish brown sandy loam	
1	AE	7		II	1	1.4	10YR 5/6 yellowish brown sandy loam	
1	AE	8		I	0	1	10YR 4/4 dark yellowish brown sandy loam	
1	AE	8		II	1	1.4	10YR 5/6 yellowish brown sandy loam	
1	AE	9		I	0	1	10YR 4/4 dark yellowish brown sandy loam	
1	AE	9		II	1	1.4	10YR 5/6 yellowish brown sandy loam	
1	AE	10		I	0	1	10YR 4/4 dark yellowish brown sandy loam	
1	AE	10		II	1	1.4	10YR 5/6 yellowish brown sandy loam	
1	AE	11		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
1	AE	11		II	0.9	1.3	10YR 5/6 yellowish brown sandy loam	

Area	Transect	STP	Radial	Level	Start Depth (ft.)	End Depth (ft.)	Soil Description	Comments
1	AE	12		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
1	AE	12		II	0.9	1.3	10YR 5/6 yellowish brown sandy loam	
1	AE	13		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
1	AE	13		II	0.9	1.3	10YR 5/6 yellowish brown sandy loam	
1	AE	14		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
1	AE	14		II	0.9	1.3	10YR 5/6 yellowish brown sandy loam	
1	AE	15		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
1	AE	15		II	0.9	1.3	10YR 5/6 yellowish brown sandy loam	
1	AE	16		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
1	AE	16		II	0.9	1.3	10YR 5/6 yellowish brown sandy loam	
1	AE	17		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
1	AE	17		II	0.9	1.3	10YR 5/6 yellowish brown sandy loam	
1	AE	18		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
1	AE	18		II	0.9	1.3	10YR 5/6 yellowish brown sandy loam	
1	AE	19		I	0	1	2.5Y 4/3 olive brown sandy loam	
1	AE	19		II	1	1.4	2.5Y 6/3 light yellowish brown sand	
1	AF	8		I	0	0.9	10YR 3/3 dark brown sandy loam	EOT
1	AF	8		II	0.9	1.3	2.5Y 6/3 light yellowish brown sand	
1	AF	9		I	0	0.7	10YR 3/3 dark brown sandy loam	
1	AF	9		II	0.7	1.1	2.5Y 6/3 light yellowish brown sand	
1	AF	10		I	0	1.4	10YR 3/3 dark brown sandy loam	
1	AF	10		II	1.4	1.9	2.5Y 6/3 light yellowish brown sand	
1	AF	11		I	0	1.1	10YR 3/3 dark brown sandy loam	
1	AF	11		II	1.1	1.5	2.5Y 6/3 light yellowish brown sand	
1	AF	12		I	0	0.7	10YR 3/3 dark brown sandy loam	
1	AF	12		II	0.7	1.1	2.5Y 6/3 light yellowish brown sand	
1	AF	13		I	0	0.7	10YR 3/3 dark brown sandy loam	
1	AF	13		II	0.7	1.1	2.5Y 6/3 light yellowish brown sand	
1	AF	14		I	0	0.7	10YR 3/3 dark brown sandy loam	
1	AF	14		II	0.7	1.1	2.5Y 6/3 light yellowish brown sand	
1	AF	15		I	0	0.7	10YR 3/3 dark brown sandy loam	
1	AF	15		II	0.7	1.1	2.5Y 6/3 light yellowish brown sand	
1	AF	16		I	0	0.7	10YR 3/3 dark brown sandy loam	
1	AF	16		II	0.7	1.1	2.5Y 6/3 light yellowish brown sand	
1	AF	17		I	0	0.9	10YR 3/3 dark brown sandy loam	
1	AF	17		II	0.9	1.3	2.5Y 6/3 light yellowish brown sand	
1	AF	18		I	0	0.8	10YR 3/3 dark brown sandy loam	
1	AF	18		II	0.8	1.2	2.5Y 6/3 light yellowish brown sand	
1	AF	19		I	0	0.8	10YR 3/3 dark brown sandy loam	
1	AF	19		II	0.8	1.2	2.5Y 6/3 light yellowish brown sand	
1	AG	10		I	0	0.8	10YR 4/4 dark yellowish brown sandy loam	
1	AG	10		II	0.8	1.3	10YR 6/3 pale brown sandy loam	
1	AG	11		I	0	0.8	10YR 4/4 dark yellowish brown sandy loam	
1	AG	11		II	0.8	0.9	10YR 5/4 yellowish brown sandy loam	second plowzone
1	AG	11		III	0.9	1.3	10YR 3/2 very dark grayish brown sandy loam	
1	AG	11		IV	1.3	1.6	2.5Y 6/2 light brownish gray sandy clay loam	with asphalt
1	AG	12		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
1	AG	12		II	0.9	1	10YR 5/4 yellowish brown sandy loam	second plowzone
1	AG	12		III	1	1.5	10YR 3/2 very dark grayish brown sandy loam	

Area	Transect	STP	Radial	Level	Start Depth (ft.)	End Depth (ft.)	Soil Description	Comments
1	AG	12		IV	1.5	1.75	2.5Y 6/2 light brownish gray sandy clay loam	with asphalt
1	AG	13		I	0	0.8	10YR 4/4 dark yellowish brown sandy loam	
1	AG	13		II	0.8	1.2	10YR 6/3 pale brown sandy loam	
1	AG	14		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
1	AG	14		II	0.9	1.3	10YR 6/3 pale brown sandy loam	
1	AG	15		I	0	0.8	10YR 4/4 dark yellowish brown sandy loam	
1	AG	15		II	0.8	1.2	10YR 6/3 pale brown sandy loam	
1	AG	16		I	0	0.7	10YR 4/4 dark yellowish brown sandy loam	
1	AG	16		II	0.7	1.1	10YR 6/3 pale brown sandy loam	
1	AG	17		I	0	0.8	10YR 4/4 dark yellowish brown sandy loam	
1	AG	17		II	0.8	1.2	10YR 6/3 pale brown sandy loam	
1	AG	18		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
1	AG	18		II	0.9	1.3	10YR 6/3 pale brown sandy loam	
1	AG	19		I	0	0.6	10YR 4/4 dark yellowish brown sandy loam	
1	AG	19		II	0.6	1	10YR 6/3 pale brown sandy loam	
1	AH	11		I	0	0.7	10YR 4/4 dark yellowish brown sandy loam	coal discarded
1	AH	11		II	0.7	1.1	2.5Y 6/3 light yellowish brown sandy loam	
1	AH	12		I	0	0.7	10YR 4/3 brown sandy loam	
1	AH	12		II	0.7	1	10YR 3/2 very dark grayish brown sandy loam	
1	AH	12		III	1	1.4	10YR 6/4 light yellowish brown sand	
1	AH	13		I	0	0.8	10YR 4/4 dark yellowish brown sandy loam	coal discarded
1	AH	13		II	0.8	1.2	2.5Y 6/3 light yellowish brown sandy loam	
1	AH	14	East	I	0	0.5	10YR 4/3 brown sandy loam	
1	AH	14	East	II	0.5	1	10YR 6/8 brownish yellow sand	
1	AH	14	North	I	0	0.6	10YR 4/3 brown sandy loam	modern metal pipe
1	AH	14	North	II	0.6	1.4	10YR 3/2 very dark grayish brown sandy loam	
1	AH	14	North	III	1.4	1.8	10YR 6/4 light yellowish brown sand	
1	AH	14	South	I	0	1.3	10YR 4/3 brown sandy loam	
1	AH	14	South	II	1.3	1.8	10YR 6/8 brownish yellow sand	
1	AH	14	West	I	0	0.9	10YR 4/3 brown sandy loam	
1	AH	14	West	II	0.9	1.3	10YR 6/8 brownish yellow sand	
1	AH	14		I	0	1.1	10YR 4/4 dark yellowish brown sandy loam	
1	AH	14		II	1.1	1.5	10YR 6/3 pale brown sandy loam	
1	AH	15		I	0	0.8	10YR 4/4 dark yellowish brown sandy loam	
1	AH	15		II	0.8	1.2	2.5Y 6/3 light yellowish brown sandy loam	
1	AH	16		I	0	0.7	10YR 4/4 dark yellowish brown sandy loam	
1	AH	16		II	0.7	1.1	2.5Y 6/3 light yellowish brown sandy loam	
1	AH	17		I	0	1.2	10YR 4/3 brown sandy loam	
1	AH	17		II	1.2	1.6	10YR 6/8 brownish yellow sand	
1	AH	18		I	0	0.6	10YR 4/3 brown sandy loam	
1	AH	18		II	0.6	1	10YR 6/8 brownish yellow sand	
1	AH	19		I	0	0.8	10YR 4/3 brown sandy loam	
1	AH	19		II	0.8	1.2	10YR 6/8 brownish yellow sand	
1	AI	13		I	0	1	10YR 4/4 dark yellowish brown sandy loam	
1	AI	13		II	1	1.4	10YR 5/6 yellowish brown sandy loam	
1	AI	14		I	0	1.15	2.5Y 4/3 olive brown sandy loam	
1	AI	14		II	1.15	1.6	2.5Y 6/3 light yellowish brown sand	
1	AI	15		I	0	1	10YR 4/4 dark yellowish brown sandy loam	
1	AI	15		II	1	1.4	10YR 5/6 yellowish brown sandy loam	

Area	Transect	STP	Radial	Level	Start Depth (ft.)	End Depth (ft.)	Soil Description	Comments
1	AI	16		I	0	1.1	2.5Y 4/3 olive brown sandy loam	
1	AI	16		II	1.1	1.5	2.5Y 6/3 light yellowish brown sand	
1	AI	17		I	0	1	10YR 4/4 dark yellowish brown sandy loam	
1	AI	17		II	1	1.4	10YR 5/6 yellowish brown sandy loam	
1	AI	18		I	0	1	2.5Y 4/3 olive brown sandy loam	
1	AI	18		II	1	1.4	2.5Y 6/3 light yellowish brown sand	
1	AI	19		I	0	1	10YR 4/4 dark yellowish brown sandy loam	
1	AI	19		II	1	1.4	10YR 5/6 yellowish brown sandy loam	
1	AJ	14		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	discarded coal
1	AJ	14		II	0.9	1.3	10YR 5/6 yellowish brown sandy loam	
1	AJ	15		I	0	0.9	10YR 3/3 dark brown sandy loam	
1	AJ	15		II	0.9	1.3	2.5Y 6/3 light yellowish brown sand	
1	AJ	16		I	0	0.95	2.5Y 4/3 olive brown sandy loam	
1	AJ	16		II	0.95	1.35	2.5Y 6/3 light yellowish brown sand	
1	AJ	17		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	discarded coal
1	AJ	17		II	0.9	1.3	10YR 5/6 yellowish brown sandy loam	
1	AJ	18		I	0	1.8	10YR 4/3 brown sandy loam	
1	AJ	18		II	1.8	2.3	10YR 6/4 light yellowish brown sand	
1	AK	15		I	0	0.7	10YR 4/4 dark yellowish brown sandy loam	
1	AK	15		II	0.7	1.1	10YR 6/3 pale brown sandy loam	
1	AK	16		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
1	AK	16		II	0.9	1.3	2.5Y 6/3 light yellowish brown sandy loam	
1	B	2		I	0	1	10YR 4/4 dark yellowish brown sandy loam	
1	B	2		II	1	1.3	10YR 5/4 yellowish brown sandy loam	
1	B	3		I	0	1	10YR 3/2 very dark grayish brown sandy loam	
1	B	3		II	1	1.4	10YR 5/4 yellowish brown sand	
1	B	4		I	0	0.8	10YR 4/4 dark yellowish brown sandy loam	
1	B	4		II	0.8	1.2	10YR 5/4 yellowish brown sandy loam	
1	B	5	East	I	0	1.2	10YR 3/2 very dark grayish brown sandy loam	
1	B	5	East	II	1.2	1.6	10YR 5/4 yellowish brown sand	
1	B	5	North	I	0	0.8	10YR 2/1 black sandy loam	
1	B	5	North	II	0.8	1.2	10YR 6/3 pale brown sand	
1	B	5	South	I	0	1.1	10YR 2/1 black sandy loam	
1	B	5	South	II	1.1	1.55	10YR 6/3 pale brown sand	
1	B	5		I	0	1.4	10YR 3/2 very dark grayish brown sandy loam	
1	B	5		II	1.4	1.7	10YR 2/1 black with 10YR 5/8 yellowish brown	
1	B	6		I	0	1	10YR 3/2 very dark grayish brown sandy loam	
1	B	6		II	1	1.4	10YR 2/1 black with 10YR 5/8 yellowish brown	charcoal
1	B	7		I	0	1.1	10YR 3/2 very dark grayish brown sandy loam	modern glass
1	B	7		II	1.1	1.4	10YR 5/4 yellowish brown sandy loam	
1	B	8		I	0	1.3	10YR 3/2 very dark grayish brown sandy loam	modern glass
1	B	8		II	1.3	1.6	10YR 5/4 yellowish brown sandy loam	
1	B	9		I	0	0.9	10YR 3/2 very dark grayish brown sandy loam	
1	B	9		II	0.9	1.3	10YR 5/4 yellowish brown sandy loam	
1	B	10		I	0	0.8	10YR 3/2 very dark grayish brown sandy loam	
1	B	10		II	0.8	1.3	10YR 5/4 yellowish brown sandy loam	
1	B	11		I	0	0.8	10YR 3/2 very dark grayish brown sandy loam	
1	B	11		II	0.8	1.2	10YR 5/4 yellowish brown sandy loam	
1	B	12		I	0	0.9	10YR 3/2 very dark grayish brown sandy loam	

Area	Transect	STP	Radial	Level	Start Depth (ft.)	End Depth (ft.)	Soil Description	Comments
1	B	12		II	0.9	1.3	10YR 5/4 yellowish brown sandy loam	
1	B	13		I	0	1	10YR 3/2 very dark grayish brown sandy loam	
1	B	13		II	1	1.3	10YR 5/4 yellowish brown sandy loam	
1	B	14		I	0	1	10YR 3/2 very dark grayish brown sandy loam	
1	B	14		II	1	1.3	10YR 5/4 yellowish brown sandy loam	
1	B	15		I	0	1.1	10YR 3/2 very dark grayish brown sandy loam	
1	B	15		II	1.1	1.4	10YR 5/4 yellowish brown sandy loam	
1	B	16		I	0	1.1	10YR 3/2 very dark grayish brown sandy loam	
1	B	16		II	1.1	1.4	10YR 5/4 yellowish brown sandy loam	
1	B	17		I	0	1	10YR 3/2 very dark grayish brown sandy loam	
1	B	17		II	1	1.1	charcoal layer	
1	B	17		III	1.1	1.4	10YR 5/4 yellowish brown sandy loam	
1	B	18		I	0	0.9	10YR 3/2 very dark grayish brown sandy loam	
1	B	18		II	0.9	1.3	10YR 5/4 yellowish brown sandy loam	
1	B	19		I	0	1	10YR 3/2 very dark grayish brown sandy loam	
1	B	19		II	1	1.4	10YR 5/4 yellowish brown sandy loam	
1	B	20		I	0	0.3	10YR 4/3 brown sandy loam	disturbed
1	B	20		II	0.3	0.6	10YR 5/6 yellowish brown sandy loam	10% gley; 10% gravel; construction fill
1	B	20		III	0.6	1	10YR 4/2 dark grayish brown sandy loam	fill
1	B	21		I	0	1	10YR 4/3 brown sandy loam	
1	B	21		II	1	1.4	10YR 6/4 light yellowish brown sandy loam	
1	B	22		I	0	1	10YR 4/3 brown sandy loam	
1	B	22		II	1	1.4	10YR 6/4 light yellowish brown sandy loam	
1	B	23		I	0	1.1	10YR 4/3 brown sandy loam	
1	B	23		II	1.1	1.5	10YR 6/4 light yellowish brown sandy loam	
1	B	24		I	0	0.9	10YR 4/3 brown sandy loam	
1	B	24		II	0.9	1.3	10YR 6/4 light yellowish brown sandy loam	
1	B	25		I	0	0.95	10YR 4/3 brown sandy loam	
1	B	25		II	0.95	1.35	10YR 6/4 light yellowish brown sandy loam	
1	B	26		I	0	0.8	10YR 4/3 brown sandy loam	
1	B	26		II	0.8	1.2	10YR 6/4 light yellowish brown sandy loam	
1	B	27		I	0	1	10YR 4/3 brown sandy loam	plastic and modern glass discarded
1	B	27		II	1	1.4	10YR 6/4 light yellowish brown sandy loam	
1	B	28		I	0	1	10YR 4/3 brown sandy loam	modern glass
1	B	28		II	1	1.5	10YR 6/4 light yellowish brown sandy loam	
1	B	29		I	0	0.8	10YR 4/3 brown sandy loam	
1	B	29		II	0.8	1.3	10YR 6/4 light yellowish brown sandy loam	
1	B	30		I	0	1	10YR 4/3 brown sandy loam	
1	B	30		II	1	1.5	10YR 6/4 light yellowish brown sandy loam	
1	B	31		I	0	1	10YR 4/3 brown sandy loam	
1	B	31		II	1	1.5	10YR 6/4 light yellowish brown sandy loam	
1	B	32		I	0	1	10YR 4/3 brown sandy loam	
1	B	32		II	1	1.5	10YR 6/4 light yellowish brown sandy loam	
1	B	33		I	0	0.7	10YR 4/3 brown silty sandy loam with 5% gravel	offset 5' N from road, disturbed
1	B	33		II	0.7	1.2	10YR 6/4 light yellowish brown with 5% gravel	
1	C	3	East	I	0	0.75	10YR 3/2 very dark grayish brown sandy loam	

Area	Transect	STP	Radial	Level	Start Depth (ft.)	End Depth (ft.)	Soil Description	Comments
1	C	3	East	II	0.75	1.3	10YR 5/4 yellowish brown sand	
1	C	3	South	I	0	0.9	10YR 3/2 very dark grayish brown sandy loam	
1	C	3	South	II	0.9	1.4	10YR 5/4 yellowish brown sand	
1	C	3	West	I	0	1.05	10YR 3/2 very dark grayish brown sandy loam	
1	C	3	West	II	1.05	1.45	10YR 5/4 yellowish brown sand	
1	C	3		I	0	1	10YR 4/4 dark yellowish brown sandy loam	
1	C	3		II	1	1.4	10YR 5/6 yellowish brown sandy loam	
1	C	4		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
1	C	4		II	0.9	1.3	10YR 5/6 yellowish brown sandy loam	
1	C	5		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
1	C	5		II	0.9	1.3	10YR 5/6 yellowish brown sandy loam	
1	C	6	East	I	0	0.5	10YR 3/2 very dark grayish brown sandy loam	
1	C	6	East	II	0.5	1.1	10YR 5/4 yellowish brown sand	
1	C	6	North	I	0	0.8	10YR 3/2 very dark grayish brown sandy loam	
1	C	6	North	II	0.8	1.25	10YR 5/4 yellowish brown sand	
1	C	6	South	I	0	0.95	10YR 3/2 very dark grayish brown sandy loam	
1	C	6	South	II	0.95	1.4	10YR 5/4 yellowish brown sand	
1	C	6	West	I	0	1	10YR 3/2 very dark grayish brown sandy loam	
1	C	6	West	II	1	1.4	10YR 5/4 yellowish brown sand	
1	C	6		I	0	1.2	10YR 4/4 dark yellowish brown sandy loam	
1	C	6		II	1.2	1.6	10YR 5/6 yellowish brown sandy loam	
1	C	7		I	0	1.2	10YR 4/4 dark yellowish brown sandy loam	
1	C	7		II	1.2	1.6	10YR 5/6 yellowish brown sandy loam	
1	C	8		I	0	1	10YR 4/4 dark yellowish brown sandy loam	
1	C	8		II	1	1.4	10YR 5/6 yellowish brown sandy loam	
1	C	9		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
1	C	9		II	0.9	1.3	10YR 5/6 yellowish brown sandy loam	
1	C	10		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
1	C	10		II	0.9	1.3	10YR 5/6 yellowish brown sandy loam	
1	C	11	North	I	0	0.8	10YR 4/3 brown sandy loam	
1	C	11	North	II	0.8	1.2	10YR 6/4 light yellowish brown sandy loam	
1	C	11	West	I	0	0.75	10YR 4/3 brown sandy loam	
1	C	11	West	II	0.75	1.2	10YR 6/4 light yellowish brown sandy loam	
1	C	11		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
1	C	11		II	0.9	1.3	10YR 5/6 yellowish brown sandy loam	
1	C	12	South	I	0	0.8	10YR 4/3 brown sandy loam	
1	C	12	South	II	0.8	1.2	10YR 6/4 light yellowish brown sandy loam	
1	C	12	West	I	0	0.8	10YR 4/3 brown sandy loam	
1	C	12	West	II	0.8	1.2	10YR 6/4 light yellowish brown sandy loam	
1	C	12		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
1	C	12		II	0.9	1.3	10YR 5/6 yellowish brown sandy loam	
1	C	13		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
1	C	13		II	0.9	1.3	10YR 5/6 yellowish brown sandy loam	
1	C	14		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	coal discarded
1	C	14		II	0.9	1.3	10YR 5/6 yellowish brown sandy loam	
1	C	15		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	coal discarded
1	C	15		II	0.9	1.3	10YR 5/6 yellowish brown sandy loam	
1	C	16		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	coal discarded
1	C	16		II	0.9	1.3	10YR 5/6 yellowish brown sandy loam	

Area	Transect	STP	Radial	Level	Start Depth (ft.)	End Depth (ft.)	Soil Description	Comments
1	C	17		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	coal and modern glass discarded
1	C	17		II	0.9	1.3	10YR 5/6 yellowish brown sandy loam	
1	C	18		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	coal discarded
1	C	18		II	0.9	1.3	10YR 5/6 yellowish brown sandy loam	
1	C	19		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
1	C	19		II	0.9	1.3	10YR 5/6 yellowish brown sandy loam	
1	C	20		I	0	1	10YR 4/4 dark yellowish brown sandy loam	
1	C	20		II	1	1.4	10YR 5/6 yellowish brown sandy loam	
1	C	21		I	0	1	10YR 4/4 dark yellowish brown sandy loam	
1	C	21		II	1	1.4	10YR 5/6 yellowish brown sandy loam	
1	C	22		I	0	1	10YR 4/4 dark yellowish brown sandy loam	
1	C	22		II	1	1.4	10YR 5/6 yellowish brown sandy loam	
1	C	23		I	0	1	10YR 4/4 dark yellowish brown sandy loam	
1	C	23		II	1	1.4	10YR 5/6 yellowish brown sandy loam	
1	C	24		I	0	1	10YR 4/4 dark yellowish brown sandy loam	
1	C	24		II	1	1.4	10YR 5/6 yellowish brown sandy loam	
1	C	25		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
1	C	25		II	0.9	1.3	10YR 5/6 yellowish brown sandy loam	
1	C	26		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
1	C	26		II	0.9	1.3	10YR 5/6 yellowish brown sandy loam	
1	C	27		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
1	C	27		II	0.9	1.3	10YR 5/6 yellowish brown sandy loam	
1	C	28		I	0	1.1	10YR 4/4 dark yellowish brown sandy loam	
1	C	28		II	1.1	1.5	10YR 5/6 yellowish brown sandy loam	
1	C	29		I	0	1.1	10YR 4/4 dark yellowish brown sandy loam	
1	C	29		II	1.1	1.5	10YR 5/6 yellowish brown sandy loam	
1	C	30		I	0	1	10YR 4/4 dark yellowish brown sandy loam	
1	C	30		II	1	1.4	10YR 5/6 yellowish brown sandy loam	
1	C	31		I	0	1	10YR 4/4 dark yellowish brown sandy loam	
1	C	31		II	1	1.4	10YR 5/6 yellowish brown sandy loam	
1	C	32		I	0	1	10YR 4/4 dark yellowish brown sandy loam	
1	C	32		II	1	1.4	10YR 5/6 yellowish brown sandy loam	
1	C	33		I	0	1.1	10YR 4/4 dark yellowish brown sandy loam	
1	C	33		II	1.1	1.5	10YR 5/6 yellowish brown sandy loam	
1	C	34		I	0	1.1	10YR 4/4 dark yellowish brown sandy loam	
1	C	34		II	1.1	1.4	10YR 5/6 yellowish brown sandy loam	
1	D	4		I	0	0.6	10YR 4/4 dark yellowish brown sandy loam	
1	D	4		II	0.6	1	10YR 5/6 yellowish brown sandy loam	
1	D	5		I	0	0.8	10YR 4/4 dark yellowish brown sandy loam	
1	D	5		II	0.8	1	10YR 5/6 yellowish brown sandy loam	
1	D	7		I	0	0.7	10YR 4/4 dark yellowish brown sandy loam	
1	D	7		II	0.7	1.1	10YR 5/6 yellowish brown sandy loam	
1	D	8		I	0	0.7	10YR 4/4 dark yellowish brown sandy loam	
1	D	8		II	0.7	1.1	10YR 5/6 yellowish brown sandy loam	
1	D	9		I	0	0.8	10YR 4/4 dark yellowish brown sandy loam	discarded coal
1	D	9		II	0.8	1.2	10YR 5/6 yellowish brown sandy loam	
1	D	10	East	II	0.85	1.3	10YR 6/4 light yellowish brown sandy loam	
1	D	10	East	I	0	0.85	10YR 4/3 brown sandy loam	

Area	Transect	STP	Radial	Level	Start Depth (ft.)	End Depth (ft.)	Soil Description	Comments
1	D	10	North	I	0	1	10YR 4/3 brown sandy loam	
1	D	10	North	II	1	1.4	10YR 6/4 light yellowish brown sandy loam	
1	D	10	South	I	0	1	10YR 4/3 brown sandy loam	
1	D	10	South	II	1	1.4	10YR 6/4 light yellowish brown sandy loam	
1	D	10		I	0	0.8	10YR 4/4 dark yellowish brown sandy loam	
1	D	10		II	0.8	1.2	10YR 5/6 yellowish brown sandy loam	
1	D	11		I	0	0.8	10YR 4/4 dark yellowish brown sandy loam	
1	D	11		II	0.8	1.2	10YR 5/6 yellowish brown sandy loam	
1	D	12	East	I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
1	D	12	East	II	0.9	1.3	10YR 7/4 very pale brown sand	
1	D	12	South	I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
1	D	12	South	II	0.9	1.3	10YR 7/4 very pale brown sand	
1	D	12		I	0	0.8	10YR 4/4 dark yellowish brown sandy loam	
1	D	12		II	0.8	1.2	10YR 5/6 yellowish brown sandy loam	
1	D	13		I	0	0.65	10YR 4/4 dark yellowish brown sandy loam	
1	D	13		II	0.65	1.05	10YR 5/6 yellowish brown sandy loam	
1	D	14		I	0	0.7	10YR 4/4 dark yellowish brown sandy loam	
1	D	14		II	0.7	1.1	10YR 5/6 yellowish brown sandy loam	
1	D	15		I	0	0.8	10YR 4/4 dark yellowish brown sandy loam	
1	D	15		II	0.8	1.2	10YR 5/6 yellowish brown sandy loam	
1	D	16		I	0	0.7	10YR 4/4 dark yellowish brown sandy loam	
1	D	16		II	0.7	1.1	10YR 5/6 yellowish brown sandy loam	
1	D	17		I	0	0.7	10YR 4/4 dark yellowish brown sandy loam	discarded coal and brick
1	D	17		II	0.7	1.1	10YR 5/6 yellowish brown sandy loam	
1	D	18	North	I	0	1.1	10YR 3/2 very dark grayish brown sandy loam	
1	D	18	North	II	1.1	1.5	10YR 5/4 yellowish brown very sandy loam	
1	D	18	West	I	0	1.2	10YR 3/2 very dark grayish brown sandy loam	
1	D	18	West	II	1.2	1.6	10YR 5/4 yellowish brown very sandy loam	
1	D	18		I	0	0.8	10YR 4/4 dark yellowish brown sandy loam	discarded coal
1	D	18		II	0.8	1.2	10YR 5/6 yellowish brown sandy loam	
1	D	19	East	I	0	0.8	10YR 4/4 dark yellowish brown sandy loam	brick discarded
1	D	19	East	II	0.8	1.2	10YR 7/4 very pale brown sand	
1	D	19	West	I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	shell, brick discarded
1	D	19	West	II	0.9	1.3	10YR 7/4 very pale brown sand	
1	D	19		I	0	0.8	10YR 4/4 dark yellowish brown sandy loam	discarded brick and plastic
1	D	19		II	0.8	1.2	10YR 5/6 yellowish brown sandy loam	
1	D	20		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
1	D	20		II	0.9	1.3	2.5Y 6/3 light yellowish brown sandy loam	
1	D	21		I	0	0.5	10YR 4/4 dark yellowish brown sandy loam	
1	D	21		II	0.5	0.9	2.5Y 6/3 light yellowish brown sandy loam	
1	D	22		I	0	0.6	10YR 4/4 dark yellowish brown sandy loam	
1	D	22		II	0.6	1	2.5Y 6/3 light yellowish brown sandy loam	
1	D	23		I	0	0.8	10YR 4/4 dark yellowish brown sandy loam	
1	D	23		II	0.8	1.2	2.5Y 6/3 light yellowish brown sandy loam	
1	D	24		I	0	0.8	10YR 4/4 dark yellowish brown sandy loam	
1	D	24		II	0.8	1.2	2.5Y 6/3 light yellowish brown sandy loam	
1	D	25		I	0	0.7	10YR 4/4 dark yellowish brown sandy loam	
1	D	25		II	0.7	1.1	2.5Y 6/3 light yellowish brown sandy loam	
1	D	26		I	0	0.6	10YR 4/4 dark yellowish brown sandy loam	

Area	Transect	STP	Radial	Level	Start Depth (ft.)	End Depth (ft.)	Soil Description	Comments
1	D	26		II	0.6	1	2.5Y 6/3 light yellowish brown sandy loam	
1	D	27		I	0	1	10YR 4/4 dark yellowish brown sandy loam	brick discarded
1	D	27		II	1	1.9	2.5Y 6/3 light yellowish brown sandy loam	
1	D	28		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
1	D	28		II	0.9	1.8	2.5Y 6/3 light yellowish brown sandy loam	
1	D	29		I	0	1	10YR 4/4 dark yellowish brown sandy loam	
1	D	29		II	1	1.9	2.5Y 6/3 light yellowish brown sandy loam	
1	D	30		I	0	0.7	10YR 4/4 dark yellowish brown sandy loam	
1	D	30		II	0.7	1.7	2.5Y 6/3 light yellowish brown sandy loam	
1	D	31		I	0	0.8	10YR 4/4 dark yellowish brown sandy loam	
1	D	31		II	0.8	1.5	2.5Y 6/3 light yellowish brown sandy loam	
1	D	32		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	coal discarded
1	D	32		II	0.9	1.6	2.5Y 6/3 light yellowish brown sandy loam	
1	D	33		I	0	0.8	10YR 4/4 dark yellowish brown sandy loam	coal discarded
1	D	33		II	0.8	1.2	2.5Y 6/3 light yellowish brown sandy loam	
1	D	34		I	0	1	10YR 4/4 dark yellowish brown sandy loam	coal discarded
1	D	34		II	1	1.8	2.5Y 6/3 light yellowish brown sandy loam	
1	D	35		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	coal discarded
1	D	35		II	0.9	1.6	2.5Y 6/3 light yellowish brown sandy loam	
1	E	5		I	0	0.8	10YR 4/3 brown sandy loam	EOT
1	E	5		II	0.8	1.2	10YR 5/6 yellowish brown sand	
1	E	6		I	0	0.6	10YR 4/3 brown sandy loam	
1	E	6		II	0.6	1.1	10YR 5/6 yellowish brown sand	
1	E	7		I	0	0.9	10YR 4/3 brown sandy loam	
1	E	7		II	0.9	1.3	10YR 5/6 yellowish brown sand	
1	E	8		I	0	0.8	10YR 4/3 brown sandy loam	
1	E	8		II	0.8	1.2	10YR 5/6 yellowish brown sand	
1	E	9		I	0	0.6	10YR 4/3 brown sandy loam	
1	E	9		II	0.6	1	10YR 5/6 yellowish brown sand	
1	E	10		I	0	1.2	10YR 4/3 brown sandy loam	
1	E	10		II	1.2	1.6	10YR 5/6 yellowish brown sand	
1	E	11		I	0	1.3	10YR 4/3 brown sandy loam	
1	E	11		II	1.3	1.7	10YR 5/6 yellowish brown sand	
1	E	12		I	0	0.8	10YR 4/3 brown sandy loam	
1	E	12		II	0.8	1.2	10YR 5/6 yellowish brown sand	
1	E	13		I	0	0.7	10YR 4/3 brown sandy loam	
1	E	13		II	0.7	1.1	10YR 5/6 yellowish brown sand	
1	E	14		I	0	1.1	10YR 4/3 brown sandy loam	
1	E	14		II	1.1	1.5	10YR 5/6 yellowish brown sand	
1	E	15		I	0	0.8	10YR 4/3 brown sandy loam	
1	E	15		II	0.8	1.3	10YR 5/6 yellowish brown sand	
1	E	16		I	0	0.9	10YR 4/3 brown sandy loam	
1	E	16		II	0.9	1.3	10YR 5/6 yellowish brown sand	
1	E	17		I	0	0.8	10YR 4/3 brown sandy loam	
1	E	17		II	0.8	1.2	10YR 5/6 yellowish brown sand	
1	E	18	East	I	0	0.8	10YR 3/2 very dark grayish brown sandy loam	
1	E	18	East	II	0.8	1.2	10YR 5/4 yellowish brown very sandy loam	
1	E	18	North	I	0	0.9	10YR 3/2 very dark grayish brown sandy loam	
1	E	18	North	II	0.9	1.3	10YR 5/4 yellowish brown very sandy loam	

Area	Transect	STP	Radial	Level	Start Depth (ft.)	End Depth (ft.)	Soil Description	Comments
1	E	18	South	I	0	0.9	10YR 3/2 very dark grayish brown sandy loam	shell discarded
1	E	18	South	II	0.9	1.3	10YR 5/4 yellowish brown very sandy loam	
1	E	18		I	0	0.9	10YR 4/3 brown sandy loam	
1	E	18		II	0.9	1.3	10YR 5/6 yellowish brown sand	
1	E	19		I	0	0.7	10YR 4/3 brown sandy loam	
1	E	19		II	0.7	1.1	10YR 5/6 yellowish brown sand	
1	E	20		I	0	1	10YR 3/2 very dark grayish brown sandy loam	glass discarded
1	E	20		II	1	1.4	10YR 5/4 yellowish brown very sandy loam	
1	E	21		I	0	0.6	10YR 3/2 very dark grayish brown sandy loam	
1	E	21		II	0.6	1	10YR 5/4 yellowish brown very sandy loam	
1	E	22		I	0	0.7	10YR 3/2 very dark grayish brown sandy loam	
1	E	22		II	0.7	1.1	10YR 5/4 yellowish brown very sandy loam	
1	E	23		I	0	0.7	10YR 3/2 very dark grayish brown sandy loam	
1	E	23		II	0.7	1.1	10YR 5/4 yellowish brown very sandy loam	
1	E	24		I	0	1	10YR 3/2 very dark grayish brown sandy loam	
1	E	24		II	1	1.4	10YR 5/4 yellowish brown very sandy loam	
1	E	25		I	0	0.8	10YR 3/2 very dark grayish brown sandy loam	
1	E	25		II	0.8	1.1	10YR 5/4 yellowish brown very sandy loam	
1	E	26		I	0	0.9	10YR 3/2 very dark grayish brown sandy loam	
1	E	26		II	0.9	1.2	10YR 5/4 yellowish brown very sandy loam	
1	E	27		I	0	0.7	10YR 3/2 very dark grayish brown sandy loam	
1	E	27		II	0.7	1.1	10YR 5/4 yellowish brown very sandy loam	
1	E	28		I	0	0.8	10YR 3/2 very dark grayish brown sandy loam	
1	E	28		II	0.8	1.5	10YR 5/4 yellowish brown very sandy loam	
1	E	29		I	0	0.8	10YR 3/2 very dark grayish brown sandy loam	
1	E	29		II	0.8	1.5	10YR 5/4 yellowish brown very sandy loam	
1	E	30		I	0	0.8	10YR 3/2 very dark grayish brown sandy loam	
1	E	30		II	0.8	1.5	10YR 5/4 yellowish brown very sandy loam	
1	E	31		I	0	0.7	10YR 3/2 very dark grayish brown sandy loam	
1	E	31		II	0.7	1.5	10YR 5/4 yellowish brown very sandy loam	
1	E	32		I	0	0.7	10YR 3/2 very dark grayish brown sandy loam	
1	E	32		II	0.7	1.5	10YR 5/4 yellowish brown very sandy loam	
1	E	33		I	0	0.7	10YR 3/2 very dark grayish brown sandy loam	
1	E	33		II	0.7	1.4	10YR 5/4 yellowish brown very sandy loam	
1	E	34		I	0	0.7	10YR 3/2 very dark grayish brown sandy loam	
1	E	34		II	0.7	1.4	10YR 5/4 yellowish brown very sandy loam	
1	E	35		I	0	1	10YR 3/2 very dark grayish brown sandy loam	
1	E	35		II	1	1.5	10YR 5/4 yellowish brown very sandy loam	
1	F	4		I	0	0.8	10YR 3/3 dark brown sandy loam	EOT
1	F	4		II	0.8	1.2	10YR 6/4 light yellowish brown sand	
1	F	5		I	0	0.9	10YR 3/3 dark brown sandy loam	
1	F	5		II	0.9	1.3	10YR 6/4 light yellowish brown sand	
1	F	6		I	0	0.9	10YR 3/3 dark brown sandy loam	
1	F	6		II	0.9	1.3	10YR 6/4 light yellowish brown sand	
1	F	7		I	0	0.8	10YR 3/3 dark brown sandy loam	
1	F	7		II	0.8	1.2	10YR 6/4 light yellowish brown sand	
1	F	8		I	0	0.8	10YR 3/3 dark brown sandy loam	
1	F	8		II	0.8	1.2	10YR 6/4 light yellowish brown sand	
1	F	9		I	0	0.7	10YR 3/3 dark brown sandy loam	

Area	Transect	STP	Radial	Level	Start Depth (ft.)	End Depth (ft.)	Soil Description	Comments
1	F	9		II	0.7	1.1	10YR 6/4 light yellowish brown sand	
1	F	10		I	0	0.9	10YR 3/3 dark brown sandy loam	
1	F	10		II	0.9	1.3	10YR 6/4 light yellowish brown sand	
1	F	11		I	0	0.9	10YR 3/3 dark brown sandy loam	
1	F	11		II	0.9	1.3	10YR 6/4 light yellowish brown sand	
1	F	12		I	0	0.8	10YR 3/3 dark brown sandy loam	
1	F	12		II	0.8	1.2	10YR 6/4 light yellowish brown sand	
1	F	13		I	0	0.9	10YR 3/3 dark brown sandy loam	
1	F	13		II	0.9	1.3	10YR 6/4 light yellowish brown sand	
1	F	14		I	0	0.8	10YR 3/3 dark brown sandy loam	
1	F	14		II	0.8	1.2	10YR 6/4 light yellowish brown sand	
1	F	15		I	0	0.8	10YR 3/3 dark brown sandy loam	
1	F	15		II	0.8	1.2	10YR 6/4 light yellowish brown sand	
1	F	16		I	0	0.8	10YR 3/3 dark brown sandy loam	coal discarded
1	F	16		II	0.8	1.1	10YR 6/4 light yellowish brown sand	
1	F	17		I	0	1	10YR 3/3 dark brown sandy loam	
1	F	17		II	1	1.4	10YR 6/4 light yellowish brown sand	
1	F	18		I	0	0.8	10YR 3/3 dark brown sandy loam	
1	F	18		II	0.8	1.2	10YR 6/4 light yellowish brown sand	
1	F	19		I	0	0.9	10YR 3/3 dark brown sandy loam	
1	F	19		II	0.9	1.3	10YR 6/4 light yellowish brown sand	
1	F	20		I	0	1.2	10YR 3/2 very dark grayish brown sandy loam	
1	F	20		II	1.2	1.6	10YR 5/4 yellowish brown sand	
1	F	21		I	0	0.85	10YR 3/2 very dark grayish brown sandy loam	
1	F	21		II	0.85	1.25	10YR 5/4 yellowish brown sand	
1	F	22		I	0	0.8	10YR 3/2 very dark grayish brown sandy loam	
1	F	22		II	0.8	1.2	10YR 5/4 yellowish brown sand	
1	F	23		I	0	0.95	10YR 3/2 very dark grayish brown sandy loam	
1	F	23		II	0.95	1.35	10YR 5/4 yellowish brown sand	
1	F	24		I	0	0.9	10YR 3/2 very dark grayish brown sandy loam	
1	F	24		II	0.9	1.3	10YR 5/4 yellowish brown sand	
1	F	25		I	0	0.75	10YR 3/2 very dark grayish brown sandy loam	
1	F	25		II	0.75	1.25	10YR 5/4 yellowish brown sand	
1	F	26		I	0	0.75	10YR 3/2 very dark grayish brown sandy loam	
1	F	26		II	0.75	1.25	10YR 5/4 yellowish brown sand	
1	F	27		I	0	0.7	10YR 3/2 very dark grayish brown sandy loam	
1	F	27		II	0.7	1.1	10YR 5/4 yellowish brown sand	
1	F	28		I	0	1	10YR 3/2 very dark grayish brown sandy loam	
1	F	28		II	1	1.7	10YR 5/4 yellowish brown sand	
1	F	29		I	0	0.8	10YR 3/2 very dark grayish brown sandy loam	
1	F	29		II	0.8	1.6	10YR 5/4 yellowish brown sand	
1	F	30		I	0	0.9	10YR 3/2 very dark grayish brown sandy loam	
1	F	30		II	0.9	1.6	10YR 5/4 yellowish brown sand	
1	F	31		I	0	0.85	10YR 3/2 very dark grayish brown sandy loam	
1	F	31		II	0.85	1.65	10YR 5/4 yellowish brown sand	
1	F	32		I	0	0.95	10YR 3/2 very dark grayish brown sandy loam	
1	F	32		II	0.95	1.6	10YR 5/4 yellowish brown sand	
1	F	33		I	0	0.9	10YR 3/2 very dark grayish brown sandy loam	
1	F	33		II	0.9	1.45	10YR 5/4 yellowish brown sand	

Area	Transect	STP	Radial	Level	Start Depth (ft.)	End Depth (ft.)	Soil Description	Comments
1	F	34		I	0	0.85	10YR 3/2 very dark grayish brown sandy loam	
1	F	34		II	0.85	1.35	10YR 5/4 yellowish brown sand	
1	F	35		I	0	0.85	10YR 3/2 very dark grayish brown sandy loam	
1	F	35		II	0.85	1.55	10YR 5/4 yellowish brown sand	
1	F	36		I	0	1	10YR 3/2 very dark grayish brown sandy loam	
1	F	36		II	1	1.5	10YR 5/4 yellowish brown sand	
1	G	7		I	0	1	10YR 4/3 brown sandy loam	
1	G	7		II	1	1.5	10YR 6/3 pale brown sand	
1	G	7		III	1.5	2	10YR 7/2 light gray with 7.5YR 6/6 reddish yellow sand	
1	G	8		I	0	1	10YR 4/3 brown sandy loam	
1	G	8		II	1	1.5	10YR 6/3 pale brown sand	
1	G	8		III	1.5	2	10YR 7/2 light gray with 7.5YR 6/6 reddish yellow sand	
1	G	9		I	0	1	10YR 4/3 brown sandy loam	
1	G	9		II	1	1.5	10YR 6/3 pale brown sand	
1	G	9		III	1.5	2	10YR 7/2 light gray with 7.5YR 6/6 reddish yellow sand	
1	G	10		I	0	1	10YR 4/3 brown sandy loam	
1	G	10		II	1	1.5	10YR 6/3 pale brown sand	
1	G	10		III	1.5	2	10YR 7/2 light gray with 7.5YR 6/6 reddish yellow sand	
1	G	11		I	0	1	10YR 4/3 brown sandy loam	
1	G	11		II	1	1.5	10YR 6/3 pale brown sand	
1	G	11		III	1.5	2	10YR 7/2 light gray with 7.5YR 6/6 reddish yellow sand	
1	G	12		I	0	1	10YR 4/3 brown sandy loam	
1	G	12		II	1	1.6	10YR 6/3 pale brown sand	
1	G	12		III	1.6	2	10YR 7/2 light gray with 7.5YR 6/6 reddish yellow sand	
1	G	13		I	0	1	10YR 4/3 brown sandy loam	
1	G	13		II	1	2	10YR 6/4 light yellowish brown sand	
1	G	14		I	0	0.9	10YR 4/3 brown sandy loam	
1	G	14		II	0.9	1.6	10YR 6/3 pale brown sand	
1	G	14		III	1.6	2	10YR 6/3 pale brown with 7.5YR 6/6 reddish yellow sand	
1	G	15		I	0	0.9	10YR 4/3 brown sandy loam	
1	G	15		II	0.9	1.5	10YR 6/3 pale brown sand	
1	G	15		III	1.5	1.9	10YR 7/2 light gray sand	
1	G	16		I	0	0.9	10YR 4/3 brown sandy loam	
1	G	16		II	0.9	2	10YR 6/3 pale brown sand	
1	G	17		I	0	0.9	10YR 4/3 brown sandy loam	
1	G	17		II	0.9	1.5	10YR 6/3 pale brown sand	
1	G	17		III	1.5	1.9	10YR 6/4 light yellowish brown with 7.5YR 6/6 reddish yellow sand	
1	G	18		I	0	0.9	10YR 4/3 brown sandy loam	
1	G	18		II	0.9	1.5	10YR 6/3 pale brown sand	
1	G	18		III	1.5	1.9	10YR 6/4 light yellowish brown with 7.5YR 6/6 reddish yellow sand	
1	G	19		I	0	0.9	10YR 4/3 brown sandy loam	
1	G	19		II	0.9	1.4	10YR 6/3 pale brown sand	
1	G	19		III	1.4	1.8	10YR 6/4 light yellowish brown with 7.5YR 6/6 reddish yellow sand	
1	G	20		I	0	1.2	10YR 4/3 brown sandy loam	
1	G	20		II	1.2	1.6	10YR 6/4 light yellowish brown sandy loam	
1	G	21		I	0	1	10YR 4/3 brown sandy loam	
1	G	21		II	1	1.4	10YR 6/4 light yellowish brown sandy loam	
1	G	22		I	0	1	10YR 4/3 brown sandy loam	
1	G	22		II	1	1.4	10YR 6/4 light yellowish brown sandy loam	

Area	Transect	STP	Radial	Level	Start Depth (ft.)	End Depth (ft.)	Soil Description	Comments
1	G	23		I	0	1	10YR 4/3 brown sandy loam	
1	G	23		II	1	1.4	10YR 6/4 light yellowish brown sandy loam	
1	G	24	East	I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
1	G	24	East	II	0.9	1.3	2.5Y 6/3 light yellowish brown sandy loam	
1	G	24	North	I	0	0.8	10YR 4/4 dark yellowish brown sandy loam	
1	G	24	North	II	0.8	1.2	2.5Y 6/3 light yellowish brown sandy loam	
1	G	24	South	I	0	1.1	10YR 4/4 dark yellowish brown sandy loam	
1	G	24	South	II	1.1	1.5	2.5Y 6/3 light yellowish brown sandy loam	
1	G	24	West	I	0	1	10YR 4/4 dark yellowish brown sandy loam	
1	G	24	West	II	1	1.5	2.5Y 6/3 light yellowish brown sandy loam	
1	G	24		I	0	1	10YR 4/3 brown sandy loam	shell discarded
1	G	24		II	1	1.4	10YR 6/4 light yellowish brown sandy loam	
1	G	25		I	0	1.1	10YR 4/3 brown sandy loam	
1	G	25		II	1.1	1.5	10YR 6/4 light yellowish brown sandy loam	
1	G	26	East	I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
1	G	26	East	II	0.9	1.3	10YR 5/6 yellowish brown sandy loam	
1	G	26	North	I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
1	G	26	North	II	0.9	1.3	10YR 5/6 yellowish brown sandy loam	
1	G	26	South	I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
1	G	26	South	II	0.9	1.3	10YR 5/6 yellowish brown sandy loam	
1	G	26	West	I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
1	G	26	West	II	0.9	1.3	10YR 5/6 yellowish brown sandy loam	
1	G	26		I	0	1	10YR 4/3 brown sandy loam	
1	G	26		II	1	1.4	10YR 6/4 light yellowish brown sandy loam	
1	G	27		I	0	1	10YR 4/3 brown sandy loam	
1	G	27		II	1	1.4	10YR 6/4 light yellowish brown sandy loam	
1	G	28		I	0	1.1	10YR 4/3 brown sandy loam	
1	G	28		II	1.1	1.5	10YR 6/4 light yellowish brown sandy loam	
1	G	29		I	0	1	10YR 4/3 brown sandy loam	
1	G	29		II	1	1.4	10YR 6/4 light yellowish brown sandy loam	
1	G	30		I	0	1	10YR 4/3 brown sandy loam	
1	G	30		II	1	1.4	10YR 6/4 light yellowish brown sandy loam	
1	G	31		I	0	1.1	10YR 4/3 brown sandy loam	
1	G	31		II	1.1	1.5	10YR 6/4 light yellowish brown sandy loam	
1	G	32		I	0	1	10YR 4/3 brown sandy loam	
1	G	32		II	1	1.4	10YR 6/4 light yellowish brown sandy loam	
1	G	33		I	0	1	10YR 4/3 brown sandy loam	
1	G	33		II	1	1.4	10YR 6/4 light yellowish brown sandy loam	
1	G	34		I	0	1.1	10YR 4/3 brown sandy loam	
1	G	34		II	1.1	1.5	10YR 6/4 light yellowish brown sandy loam	
1	G	35		I	0	0.9	10YR 4/3 brown sandy loam	
1	G	35		II	0.9	1.1	10YR 4/3 brown with 10YR 6/4 light yellowish brown sandy loam	charcoal fragments
1	G	35		III	1.1	1.4	10YR 6/4 light yellowish brown sandy loam	
1	G	36		I	0	0.8	10YR 4/3 brown sandy loam	
1	G	36		II	0.8	1.2	10YR 7/4 very pale brown sand	
1	G	37		I	0	0.8	10YR 4/3 brown sandy loam	
1	G	37		II	0.8	1.2	10YR 7/4 very pale brown sand	
1	H	1		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
1	H	1		II	0.9	1.3	10YR 5/6 yellowish brown sandy loam	

Area	Transect	STP	Radial	Level	Start Depth (ft.)	End Depth (ft.)	Soil Description	Comments
1	H	2		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
1	H	2		II	0.9	1.3	10YR 5/6 yellowish brown sandy loam	
1	H	3		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
1	H	3		II	0.9	1.3	10YR 5/6 yellowish brown sandy loam	
1	H	4		I	0	1	10YR 4/4 dark yellowish brown sandy loam	
1	H	4		II	1	1.4	10YR 5/6 yellowish brown sandy loam	
1	H	5		I	0	1	10YR 4/4 dark yellowish brown sandy loam	
1	H	5		II	1	1.4	10YR 5/6 yellowish brown sandy loam	
1	H	6		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
1	H	6		II	0.9	1.3	10YR 5/6 yellowish brown sandy loam	
1	H	7		I	0	1	10YR 4/4 dark yellowish brown sandy loam	
1	H	7		II	1	1.4	10YR 5/6 yellowish brown sandy loam	
1	H	8		I	0	1	10YR 4/4 dark yellowish brown sandy loam	
1	H	8		II	1	1.4	10YR 5/6 yellowish brown sandy loam	
1	H	9		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
1	H	9		II	0.9	1.3	10YR 5/6 yellowish brown sandy loam	
1	H	10		I	0	1	10YR 4/4 dark yellowish brown sandy loam	
1	H	10		II	1	1.4	10YR 5/6 yellowish brown sandy loam	
1	H	11		I	0	1	10YR 4/4 dark yellowish brown sandy loam	
1	H	11		II	1	1.4	10YR 5/6 yellowish brown sandy loam	
1	H	12		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
1	H	12		II	0.9	1.3	10YR 5/6 yellowish brown sandy loam	
1	H	13		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
1	H	13		II	0.9	1.3	10YR 5/6 yellowish brown sandy loam	
1	H	14		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
1	H	14		II	0.9	1.3	10YR 5/6 yellowish brown sandy loam	
1	H	15		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
1	H	15		II	0.9	1.3	10YR 5/6 yellowish brown sandy loam	
1	H	16		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
1	H	16		II	0.9	1.3	10YR 5/6 yellowish brown sandy loam	
1	H	17		I	0	1	10YR 4/4 dark yellowish brown sandy loam	
1	H	17		II	1	1.4	10YR 5/6 yellowish brown sandy loam	
1	H	18		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
1	H	18		II	0.9	1.3	10YR 5/6 yellowish brown sandy loam	
1	H	19		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
1	H	19		II	0.9	1.3	10YR 5/6 yellowish brown sandy loam	
1	H	20		I	0	0.7	10YR 4/3 brown sandy loam	
1	H	20		II	0.7	1.1	10YR 6/4 light yellowish brown sand	
1	H	21		I	0	0.6	10YR 4/3 brown sandy loam	
1	H	21		II	0.6	1	10YR 6/4 light yellowish brown sand	
1	H	22		I	0	0.9	10YR 4/3 brown sandy loam	
1	H	22		II	0.9	1.4	10YR 6/4 light yellowish brown sand	
1	H	23		I	0	0.7	10YR 4/3 brown sandy loam	
1	H	23		II	0.7	1.1	10YR 6/4 light yellowish brown sand	
1	H	24		I	0	0.7	10YR 4/3 brown sandy loam	
1	H	24		II	0.7	1.2	10YR 6/4 light yellowish brown sand	
1	H	25		I	0	0.8	10YR 4/3 brown sandy loam	
1	H	25		II	0.8	1.2	10YR 6/4 light yellowish brown sand	
1	H	26		I	0	0.6	10YR 4/3 brown sandy loam	

Area	Transect	STP	Radial	Level	Start Depth (ft.)	End Depth (ft.)	Soil Description	Comments
1	H	26		II	0.6	1	10YR 6/4 light yellowish brown sand	
1	H	27		I	0	0.9	10YR 4/3 brown sandy loam	
1	H	27		II	0.9	1.5	10YR 6/4 light yellowish brown sand	
1	H	28		I	0	0.7	10YR 4/3 brown sandy loam	
1	H	28		II	0.7	1.4	10YR 6/4 light yellowish brown sand	
1	H	29		I	0	1	10YR 4/3 brown sandy loam	
1	H	29		II	1	1.5	10YR 6/4 light yellowish brown sand	
1	H	30		I	0	0.8	10YR 4/3 brown sandy loam	
1	H	30		II	0.8	1.3	10YR 6/4 light yellowish brown sand	
1	H	31		I	0	1.2	10YR 4/3 brown sandy loam	
1	H	31		II	1.2	1.7	10YR 6/4 light yellowish brown sand	
1	H	32		I	0	1	10YR 4/3 brown sandy loam	
1	H	32		II	1	1.6	10YR 6/4 light yellowish brown sand	
1	H	33		I	0	0.8	10YR 4/3 brown sandy loam	
1	H	33		II	0.8	1.3	10YR 6/4 light yellowish brown sand	
1	H	34		I	0	0.6	10YR 4/3 brown sandy loam	
1	H	34		II	0.6	1.1	10YR 6/4 light yellowish brown sand	
1	H	35		I	0	0.4	10YR 4/3 brown sandy loam	
1	H	35		II	0.4	0.9	10YR 6/4 light yellowish brown sand	
1	H	36		I	0	1.1	10YR 4/3 brown sandy loam	
1	H	36		II	1.1	1.6	10YR 6/4 light yellowish brown sand	
1	H	37		I	0	1.3	10YR 4/3 brown sandy loam	
1	H	37		II	1.3	1.8	10YR 6/8 brownish yellow sand	
1	H	38		I	0	0.9	10YR 4/3 brown sandy loam	
1	H	38		II	0.9	1.4	10YR 6/8 brownish yellow sand	
1	I	1		I	0	1	10YR 3/2 very dark grayish brown sandy loam	
1	I	1		II	1	1.4	10YR 5/4 yellowish brown sand	
1	I	2		I	0	0.9	10YR 3/2 very dark grayish brown sandy loam	
1	I	2		II	0.9	1.3	10YR 5/4 yellowish brown sand	
1	I	3		I	0	0.65	10YR 3/2 very dark grayish brown sandy loam	
1	I	3		II	0.65	1.05	10YR 5/4 yellowish brown sand	
1	I	4		I	0	0.7	10YR 3/2 very dark grayish brown sandy loam	
1	I	4		II	0.7	1.15	10YR 5/4 yellowish brown sand	
1	I	5		I	0	0.9	10YR 3/2 very dark grayish brown sandy loam	
1	I	5		II	0.9	1.3	10YR 5/4 yellowish brown sand	
1	I	6		I	0	0.7	10YR 3/2 very dark grayish brown sandy loam	
1	I	6		II	0.7	1.1	10YR 5/4 yellowish brown sand	
1	I	7		I	0	0.8	10YR 3/2 very dark grayish brown sandy loam	
1	I	7		II	0.8	1.2	10YR 5/4 yellowish brown sand	
1	I	8		I	0	0.7	10YR 3/2 very dark grayish brown sandy loam	
1	I	8		II	0.7	1.1	10YR 5/4 yellowish brown sand	
1	I	9		I	0	0.8	10YR 3/2 very dark grayish brown sandy loam	
1	I	9		II	0.8	1.2	10YR 5/4 yellowish brown sand	
1	I	10		I	0	1.05	10YR 3/2 very dark grayish brown sandy loam	
1	I	10		II	1.05	1.45	10YR 5/4 yellowish brown sand	
1	I	11		I	0	1	10YR 3/2 very dark grayish brown sandy loam	
1	I	11		II	1	1.4	10YR 5/4 yellowish brown sand	
1	I	12		I	0	0.95	10YR 3/2 very dark grayish brown sandy loam	
1	I	12		II	0.95	1.35	10YR 5/4 yellowish brown sand	

Area	Transect	STP	Radial	Level	Start Depth (ft.)	End Depth (ft.)	Soil Description	Comments
1	I	13		I	0	0.85	10YR 3/2 very dark grayish brown sandy loam	
1	I	13		II	0.85	1.25	10YR 5/4 yellowish brown sand	
1	I	14		I	0	0.9	10YR 3/2 very dark grayish brown sandy loam	
1	I	14		II	0.9	1.3	10YR 5/4 yellowish brown sand	
1	I	15		I	0	1.2	10YR 3/2 very dark grayish brown sandy loam	
1	I	15		II	1.2	1.6	10YR 5/4 yellowish brown sand	
1	I	16		I	0	1.1	10YR 3/2 very dark grayish brown sandy loam	
1	I	16		II	1.1	1.55	10YR 5/4 yellowish brown sand	
1	I	17		I	0	0.95	10YR 3/2 very dark grayish brown sandy loam	
1	I	17		II	0.95	1.35	10YR 5/4 yellowish brown sand	
1	I	18	East	I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
1	I	18	East	II	0.9	1.3	10YR 7/4 very pale brown sand	
1	I	18	North	I	0	1	10YR 3/2 very dark grayish brown sandy loam	
1	I	18	North	II	1	1.4	10YR 5/4 yellowish brown very sandy loam	
1	I	18	South	I	0	1	10YR 3/2 very dark grayish brown sandy loam	
1	I	18	South	II	1	1.4	10YR 5/4 yellowish brown very sandy loam	
1	I	18	West	I	0	0.9	10YR 3/2 very dark grayish brown sandy loam	
1	I	18	West	II	0.9	1.3	10YR 5/4 yellowish brown very sandy loam	
1	I	18		I	0	0.9	10YR 3/2 very dark grayish brown sandy loam	
1	I	18		II	0.9	1.3	10YR 5/4 yellowish brown sand	
1	I	19		I	0	1.1	10YR 3/2 very dark grayish brown sandy loam	
1	I	19		II	1.1	1.5	10YR 5/4 yellowish brown sand	
1	I	20		I	0	1	10YR 3/3 dark brown sandy loam	
1	I	20		II	1	2	10YR 6/4 light yellowish brown sand	
1	I	21		I	0	1	10YR 3/3 dark brown sandy loam	
1	I	21		II	1	2	10YR 6/4 light yellowish brown sand	
1	I	22		I	0	1	10YR 3/3 dark brown sandy loam	
1	I	22		II	1	2	10YR 6/4 light yellowish brown sand	
1	I	23		I	0	0.9	10YR 3/3 dark brown sandy loam	
1	I	23		II	0.9	2	10YR 6/4 light yellowish brown sand	
1	I	24		I	0	1	10YR 3/3 dark brown sandy loam	
1	I	24		II	1	2	10YR 6/4 light yellowish brown sand	
1	I	25		I	0	0.9	10YR 3/3 dark brown sandy loam	
1	I	25		II	0.9	2	10YR 6/4 light yellowish brown sand	
1	I	26		I	0	1	10YR 3/3 dark brown sandy loam	
1	I	26		II	1	2	10YR 6/4 light yellowish brown sand	
1	I	27		I	0	1	10YR 3/3 dark brown sandy loam	
1	I	27		II	1	2	10YR 6/4 light yellowish brown sand	
1	I	28		I	0	0.9	10YR 3/3 dark brown sandy loam	
1	I	28		II	0.9	2	10YR 6/4 light yellowish brown sand	
1	I	29		I	0	1	10YR 3/3 dark brown sandy loam	
1	I	29		II	1	2	10YR 6/4 light yellowish brown sand	
1	I	30		I	0	1	10YR 3/3 dark brown sandy loam	
1	I	30		II	1	2	10YR 6/4 light yellowish brown sand	
1	I	31		I	0	1	10YR 3/3 dark brown sandy loam	
1	I	31		II	1	2	10YR 6/4 light yellowish brown sand	
1	I	32		I	0	0.9	10YR 3/3 dark brown sandy loam	
1	I	32		II	0.9	2	10YR 6/4 light yellowish brown sand	
1	I	33		I	0	1	10YR 3/3 dark brown sandy loam	

Area	Transect	STP	Radial	Level	Start Depth (ft.)	End Depth (ft.)	Soil Description	Comments
1	I	33		II	1	2	10YR 6/4 light yellowish brown sand	
1	I	34		I	0	1	10YR 3/3 dark brown sandy loam	
1	I	34		II	1	2	10YR 6/4 light yellowish brown sand	
1	I	35		I	0	1	10YR 3/3 dark brown sandy loam	
1	I	35		II	1	2	10YR 6/4 light yellowish brown sand	
1	I	36		I	0	1	10YR 3/3 dark brown sandy loam	
1	I	36		II	1	2	10YR 6/4 light yellowish brown sand	
1	I	37		I	0	0.8	10YR 3/2 very dark grayish brown sandy loam	
1	I	37		I	0	1	10YR 3/3 dark brown sandy loam	
1	I	37		II	0.8	1.4	10YR 5/4 yellowish brown sand	
1	I	37		II	1	2	10YR 6/4 light yellowish brown sand	
1	I	38		I	0	1	10YR 3/3 dark brown sandy loam	
1	I	38		II	1	2	10YR 6/4 light yellowish brown sand	
1	I	39		I	0	1	10YR 3/3 dark brown sandy loam	
1	I	39		II	1	2	10YR 6/4 light yellowish brown sand	
1	J	1		I	0	0.8	10YR 4/4 dark yellowish brown sandy loam	
1	J	1		II	0.8	1.1	10YR 5/4 yellowish brown sandy loam	
1	J	2		I	0	0.7	10YR 4/4 dark yellowish brown sandy loam	
1	J	2		II	0.7	1	10YR 5/4 yellowish brown sandy loam	
1	J	3		I	0	0.8	10YR 4/4 dark yellowish brown sandy loam	
1	J	3		II	0.8	1.2	10YR 5/4 yellowish brown sandy loam	
1	J	4		I	0	1	10YR 4/4 dark yellowish brown sandy loam	
1	J	4		II	1	1.4	10YR 5/4 yellowish brown sandy loam	
1	J	5		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
1	J	5		II	0.9	1.2	10YR 5/4 yellowish brown sandy loam	
1	J	6		I	0	0.8	10YR 4/4 dark yellowish brown sandy loam	
1	J	6		II	0.8	1.2	10YR 5/4 yellowish brown sandy loam	
1	J	7		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
1	J	7		II	0.9	1.3	10YR 5/4 yellowish brown sandy loam	
1	J	8		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
1	J	8		II	0.9	1.25	10YR 5/4 yellowish brown sandy loam	
1	J	9		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
1	J	9		II	0.9	1.3	10YR 5/4 yellowish brown sandy loam	
1	J	10		I	0	1	10YR 4/4 dark yellowish brown sandy loam	
1	J	10		II	1	1.4	10YR 5/4 yellowish brown sandy loam	
1	J	11		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
1	J	11		II	0.9	1.3	10YR 5/4 yellowish brown sandy loam	
1	J	12		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
1	J	12		II	0.9	1.3	10YR 5/4 yellowish brown sandy loam	
1	J	13		I	0	0.85	10YR 4/4 dark yellowish brown sandy loam	
1	J	13		II	0.85	1.2	10YR 5/4 yellowish brown sandy loam	
1	J	14		I	0	0.8	10YR 4/4 dark yellowish brown sandy loam	
1	J	14		II	0.8	1.2	10YR 5/4 yellowish brown sandy loam	
1	J	15		I	0	0.8	10YR 4/4 dark yellowish brown sandy loam	
1	J	15		II	0.8	1.2	10YR 5/4 yellowish brown sandy loam	
1	J	16		I	0	0.75	10YR 4/4 dark yellowish brown sandy loam	
1	J	16		II	0.75	1.1	10YR 5/4 yellowish brown sandy loam	
1	J	17		I	0	0.8	10YR 4/4 dark yellowish brown sandy loam	
1	J	17		II	0.8	1.2	10YR 5/4 yellowish brown sandy loam	

Area	Transect	STP	Radial	Level	Start Depth (ft.)	End Depth (ft.)	Soil Description	Comments
1	J	18		I	0	0.8	10YR 4/4 dark yellowish brown sandy loam	
1	J	18		II	0.8	1.2	10YR 5/4 yellowish brown sandy loam	
1	J	19		I	0	1.2	10YR 4/4 dark yellowish brown sandy loam	
1	J	19		II	1.2	1.5	10YR 5/4 yellowish brown sandy loam	
1	J	20		I	0	0.9	10YR 3/3 dark brown sandy loam	
1	J	20		II	0.9	1.3	10YR 6/4 light yellowish brown sand	
1	J	21		I	0	0.8	10YR 3/3 dark brown sandy loam	
1	J	21		II	0.8	1.2	10YR 6/4 light yellowish brown sand	
1	J	22		I	0	0.9	10YR 3/3 dark brown sandy loam	
1	J	22		II	0.9	1.3	10YR 6/4 light yellowish brown sand	
1	J	23		I	0	0.8	10YR 3/3 dark brown sandy loam	
1	J	23		II	0.8	1.2	10YR 6/4 light yellowish brown sand	
1	J	24		I	0	0.7	10YR 3/3 dark brown sandy loam	
1	J	24		II	0.7	1.5	10YR 6/4 light yellowish brown sand	
1	J	25		I	0	0.7	10YR 3/3 dark brown sandy loam	
1	J	25		II	0.7	1.4	10YR 6/4 light yellowish brown sand	
1	J	26	East	I	0	0.8	10YR 4/4 dark yellowish brown sandy loam	
1	J	26	East	II	0.8	1.2	2.5Y 6/3 light yellowish brown sandy loam	
1	J	26	North	I	0	0.8	10YR 4/4 dark yellowish brown sandy loam	
1	J	26	North	II	0.8	1.2	2.5Y 6/3 light yellowish brown sandy loam	
1	J	26	South	I	0	0.7	10YR 4/4 dark yellowish brown sandy loam	
1	J	26	South	II	0.7	1.1	2.5Y 6/3 light yellowish brown sandy loam	
1	J	26	West	I	0	0.7	10YR 4/4 dark yellowish brown sandy loam	
1	J	26	West	II	0.7	1.1	2.5Y 6/3 light yellowish brown sandy loam	
1	J	26		I	0	0.9	10YR 3/3 dark brown sandy loam	
1	J	26		II	0.9	1.6	10YR 6/4 light yellowish brown sand	
1	J	27		I	0	0.9	10YR 3/3 dark brown sandy loam	
1	J	27		II	0.9	1.6	10YR 6/4 light yellowish brown sand	
1	J	28	East	II	0.9	1.3	10YR 5/6 yellowish brown sandy loam	
1	J	28	East	I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
1	J	28	North	I	0	1	10YR 4/4 dark yellowish brown sandy loam	
1	J	28	North	II	1	1.4	10YR 5/6 yellowish brown sandy loam	
1	J	28	South	I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
1	J	28	South	II	0.9	1.3	10YR 5/6 yellowish brown sandy loam	
1	J	28	West	I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
1	J	28	West	II	0.9	1.3	10YR 5/6 yellowish brown sandy loam	
1	J	28		I	0	0.8	10YR 3/3 dark brown sandy loam	
1	J	28		II	0.8	1.6	10YR 6/4 light yellowish brown sand	
1	J	29		I	0	0.9	10YR 3/3 dark brown sandy loam	
1	J	29		II	0.9	1.5	10YR 6/4 light yellowish brown sand	
1	J	30		I	0	0.7	10YR 3/3 dark brown sandy loam	
1	J	30		II	0.7	1.1	10YR 6/4 light yellowish brown sand	
1	J	31		I	0	0.8	10YR 3/3 dark brown sandy loam	
1	J	31		II	0.8	1.2	10YR 6/4 light yellowish brown sand	
1	J	32		I	0	0.8	10YR 3/3 dark brown sandy loam	
1	J	32		II	0.8	1.4	10YR 6/4 light yellowish brown sand	
1	J	33		I	0	0.7	10YR 3/3 dark brown sandy loam	
1	J	33		II	0.7	1.6	10YR 6/4 light yellowish brown sand	
1	J	34		I	0	0.8	10YR 3/3 dark brown sandy loam	

Area	Transect	STP	Radial	Level	Start Depth (ft.)	End Depth (ft.)	Soil Description	Comments
1	J	34		II	0.8	1	10YR 3/3 dark brown sandy loam with 10YR 6/4 light yellowish brown sand	charcoal fragments
1	J	34		III	1	1.4	10YR 6/4 light yellowish brown sand	
1	J	35		I	0	0.7	10YR 3/3 dark brown sandy loam	
1	J	35		II	0.7	1.4	10YR 6/4 light yellowish brown sand	
1	J	36		I	0	0.5	10YR 2/1 black sandy loam	
1	J	36		II	0.5	1	10YR 2/1 black with 10YR 6/4 light yellowish brown sandy loam	charcoal flecking
1	J	36		III	1	1.4	10YR 6/6 brownish yellow sand	
1	J	37		I	0	0.7	10YR 2/1 black sandy loam	
1	J	37		II	0.7	0.9	10YR 4/2 dark grayish brown sandy loam	charcoal flecking
1	J	37		III	0.9	1.3	10YR 6/4 light yellowish brown sand	
1	J	38		I	0	0.7	10YR 3/2 very dark grayish brown sandy loam	
1	J	38		II	0.7	1.1	10YR 6/4 light yellowish brown sand	
1	J	39		I	0	0.9	10YR 3/3 dark brown sandy loam	brick discarded
1	J	39		II	0.9	1.3	10YR 6/4 light yellowish brown sand	
1	J	40		I	0	0.9	10YR 3/3 dark brown sandy loam	
1	J	40		II	0.9	1.3	10YR 6/4 light yellowish brown sand	
1	J	41					NOT EXCAVATED	road disturbance
1	K	1		I	0	1	10YR 4/4 dark yellowish brown sandy loam	
1	K	1		II	1	1.4	2.5Y 6/3 light yellowish brown sandy loam	
1	K	2		I	0	0.8	10YR 4/4 dark yellowish brown sandy loam	
1	K	2		II	0.8	1.2	2.5Y 6/3 light yellowish brown sandy loam	
1	K	3		I	0	0.8	10YR 4/4 dark yellowish brown sandy loam	
1	K	3		II	0.8	1.2	2.5Y 6/3 light yellowish brown sandy loam	
1	K	4		I	0	0.7	10YR 4/4 dark yellowish brown sandy loam	
1	K	4		II	0.7	1.1	2.5Y 6/3 light yellowish brown sandy loam	
1	K	5		I	0	0.8	10YR 4/4 dark yellowish brown sandy loam	
1	K	5		II	0.8	1.2	2.5Y 6/3 light yellowish brown sandy loam	
1	K	6		I	0	0.7	10YR 4/4 dark yellowish brown sandy loam	
1	K	6		II	0.7	1.1	2.5Y 6/3 light yellowish brown sandy loam	
1	K	7		I	0	0.7	10YR 4/4 dark yellowish brown sandy loam	
1	K	7		II	0.7	1.1	2.5Y 6/3 light yellowish brown sandy loam	
1	K	8		I	0	0.7	10YR 4/4 dark yellowish brown sandy loam	
1	K	8		II	0.7	1.1	2.5Y 6/3 light yellowish brown sandy loam	
1	K	9		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
1	K	9		II	0.9	1.3	2.5Y 6/3 light yellowish brown sandy loam	
1	K	10		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
1	K	10		II	0.9	1.3	2.5Y 6/3 light yellowish brown sandy loam	
1	K	11		I	0	0.8	10YR 4/4 dark yellowish brown sandy loam	
1	K	11		II	0.8	1.2	2.5Y 6/3 light yellowish brown sandy loam	
1	K	12		I	0	0.8	10YR 4/4 dark yellowish brown sandy loam	
1	K	12		II	0.8	1.2	2.5Y 6/3 light yellowish brown sandy loam	
1	K	13		I	0	0.8	10YR 4/4 dark yellowish brown sandy loam	
1	K	13		II	0.8	1.2	2.5Y 6/3 light yellowish brown sandy loam	
1	K	14		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
1	K	14		II	0.9	1.3	2.5Y 6/3 light yellowish brown sandy loam	
1	K	15		I	0	0.8	10YR 4/4 dark yellowish brown sandy loam	
1	K	15		II	0.8	1.2	2.5Y 6/3 light yellowish brown sandy loam	
1	K	16		I	0	0.7	10YR 4/4 dark yellowish brown sandy loam	
1	K	16		II	0.7	1.1	2.5Y 6/3 light yellowish brown sandy loam	

Area	Transect	STP	Radial	Level	Start Depth (ft.)	End Depth (ft.)	Soil Description	Comments
1	K	17		I	0	0.7	10YR 4/4 dark yellowish brown sandy loam	
1	K	17		II	0.7	1.1	2.5Y 6/3 light yellowish brown sandy loam	
1	K	18		I	0	0.6	10YR 4/4 dark yellowish brown sandy loam	
1	K	18		II	0.6	1	2.5Y 6/3 light yellowish brown sandy loam	
1	K	19		I	0	0.7	10YR 4/4 dark yellowish brown sandy loam	
1	K	19		II	0.7	1.1	2.5Y 6/3 light yellowish brown sandy loam	
1	K	20		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
1	K	20		II	0.9	1.3	10YR 5/6 yellowish brown sandy loam	
1	K	21		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
1	K	21		II	0.9	1.3	10YR 5/6 yellowish brown sandy loam	
1	K	22		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
1	K	22		II	0.9	1.3	10YR 5/6 yellowish brown sandy loam	
1	K	23		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
1	K	23		II	0.9	1.3	10YR 5/6 yellowish brown sandy loam	
1	K	24		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
1	K	24		II	0.9	1.3	10YR 5/6 yellowish brown sandy loam	
1	K	25		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
1	K	25		II	0.9	1.3	10YR 5/6 yellowish brown sandy loam	
1	K	26		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
1	K	26		II	0.9	1.3	10YR 5/6 yellowish brown sandy loam	
1	K	27		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
1	K	27		II	0.9	1.3	10YR 5/6 yellowish brown sandy loam	
1	K	28		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
1	K	28		II	0.9	1.3	10YR 5/6 yellowish brown sandy loam	
1	K	29		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
1	K	29		II	0.9	1.3	10YR 5/6 yellowish brown sandy loam	
1	K	30		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
1	K	30		II	0.9	1.3	10YR 5/6 yellowish brown sandy loam	
1	K	31		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
1	K	31		II	0.9	1.3	10YR 5/6 yellowish brown sandy loam	
1	K	32		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
1	K	32		II	0.9	1.3	10YR 5/6 yellowish brown sandy loam	
1	K	33		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
1	K	33		II	0.9	1.3	10YR 5/6 yellowish brown sandy loam	
1	K	34		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
1	K	34		II	0.9	1.3	10YR 5/6 yellowish brown sandy loam	
1	K	35		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
1	K	35		II	0.9	1.3	10YR 5/6 yellowish brown sandy loam	
1	K	36		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
1	K	36		II	0.9	1.3	10YR 5/6 yellowish brown sandy loam	
1	K	37		I	0	0.8	10YR 4/4 dark yellowish brown sandy loam	
1	K	37		II	0.8	1.2	10YR 5/6 yellowish brown sandy loam	
1	K	38		I	0	1	10YR 4/4 dark yellowish brown sandy loam	
1	K	38		II	1	1.4	10YR 5/6 yellowish brown sandy loam	
1	K	39		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
1	K	39		II	0.9	1.3	10YR 5/6 yellowish brown sandy loam	
1	K	40		I	0	1	10YR 4/4 dark yellowish brown sandy loam	
1	K	40		II	1	1.4	10YR 5/6 yellowish brown sandy loam	
1	L	1		I	0	1.6	10YR 4/3 brown sandy loam	EOT

Area	Transect	STP	Radial	Level	Start Depth (ft.)	End Depth (ft.)	Soil Description	Comments
1	L	1		II	1.6	2	2.5Y 6/3 light yellowish brown sand	
1	L	2		I	0	0.7	10YR 4/3 brown sandy loam	
1	L	2		II	0.7	1.1	2.5Y 6/3 light yellowish brown sand	
1	L	3		I	0	0.8	10YR 4/3 brown sandy loam	
1	L	3		II	0.8	1.2	2.5Y 6/3 light yellowish brown sand	
1	L	4		I	0	0.5	10YR 4/3 brown sandy loam	
1	L	4		II	0.5	0.9	2.5Y 6/3 light yellowish brown sand	
1	L	5		I	0	0.7	10YR 4/3 brown sandy loam	
1	L	5		II	0.7	1.2	2.5Y 6/3 light yellowish brown sand	
1	L	6		I	0	1.1	10YR 4/3 brown sandy loam	
1	L	6		II	1.1	1.6	2.5Y 6/3 light yellowish brown sand	
1	L	7		I	0	0.8	10YR 4/3 brown sandy loam	
1	L	7		II	0.8	1.3	2.5Y 6/3 light yellowish brown sand	
1	L	8		I	0	0.4	10YR 4/3 brown sandy loam	
1	L	8		II	0.4	0.8	2.5Y 6/3 light yellowish brown sand	
1	L	9		I	0	0.5	10YR 4/3 brown sandy loam	
1	L	9		II	0.5	0.9	2.5Y 6/3 light yellowish brown sand	
1	L	10		I	0	0.7	10YR 4/3 brown sandy loam	
1	L	10		II	0.7	1.2	2.5Y 6/3 light yellowish brown sand	
1	L	11		I	0	0.7	10YR 4/3 brown sandy loam	
1	L	11		II	0.7	1.1	2.5Y 6/3 light yellowish brown sand	
1	L	12		I	0	0.9	10YR 4/3 brown sandy loam	
1	L	12		II	0.9	1.3	2.5Y 6/3 light yellowish brown sand	
1	L	13		I	0	0.6	10YR 4/3 brown sandy loam	
1	L	13		II	0.6	1.1	2.5Y 6/3 light yellowish brown sand	
1	L	14		I	0	0.7	10YR 4/3 brown sandy loam	
1	L	14		II	0.7	1.1	2.5Y 6/3 light yellowish brown sand	
1	L	15		I	0	0.6	10YR 4/3 brown sandy loam	
1	L	15		II	0.6	1	2.5Y 6/3 light yellowish brown sand	
1	L	16		I	0	0.9	10YR 4/3 brown sandy loam	
1	L	16		II	0.9	1.3	2.5Y 6/3 light yellowish brown sand	
1	L	17		I	0	0.5	10YR 4/3 brown sandy loam	
1	L	17		II	0.5	0.9	2.5Y 6/3 light yellowish brown sand	
1	L	18		I	0	0.6	10YR 4/3 brown sandy loam	
1	L	18		II	0.6	1.1	2.5Y 6/3 light yellowish brown sand	
1	L	19		I	0	0.7	10YR 4/3 brown sandy loam	
1	L	19		II	0.7	1.2	2.5Y 6/3 light yellowish brown sand	
1	L	20		I	0	0.9	10YR 4/3 brown sandy loam	
1	L	20		II	0.9	1.3	10YR 6/4 light yellowish brown sandy loam	
1	L	21		I	0	1	10YR 4/3 brown sandy loam	
1	L	21		II	1	1.4	10YR 6/4 light yellowish brown sandy loam	
1	L	22	East	I	0	0.8	10YR 4/4 dark yellowish brown sandy loam	
1	L	22	East	II	0.8	1.2	2.5Y 6/3 light yellowish brown sandy loam	
1	L	22	North	I	0	0.8	10YR 4/4 dark yellowish brown sandy loam	
1	L	22	North	II	0.8	1.2	2.5Y 6/3 light yellowish brown sandy loam	
1	L	22	South	I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
1	L	22	South	II	0.9	1.3	2.5Y 6/3 light yellowish brown sandy loam	
1	L	22	West	I	0	0.7	10YR 4/4 dark yellowish brown sandy loam	
1	L	22	West	II	0.7	1.1	2.5Y 6/3 light yellowish brown sandy loam	

Area	Transect	STP	Radial	Level	Start Depth (ft.)	End Depth (ft.)	Soil Description	Comments
1	L	22		I	0	0.9	10YR 4/3 brown sandy loam	
1	L	22		II	0.9	1.3	10YR 6/4 light yellowish brown sandy loam	
1	L	23		I	0	0.8	10YR 4/3 brown sandy loam	
1	L	23		II	0.8	1.2	10YR 6/4 light yellowish brown sandy loam	
1	L	24	East	I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
1	L	24	East	II	0.9	1.3	10YR 5/6 yellowish brown sandy loam	
1	L	24	North	I	0	1	10YR 4/4 dark yellowish brown sandy loam	
1	L	24	North	II	1	1.4	10YR 5/6 yellowish brown sandy loam	
1	L	24	South	I	0	1	10YR 4/4 dark yellowish brown sandy loam	
1	L	24	South	II	1	1.4	10YR 5/6 yellowish brown sandy loam	
1	L	24	West	I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
1	L	24	West	II	0.9	1.3	10YR 5/6 yellowish brown sandy loam	
1	L	24		I	0	0.9	10YR 4/3 brown sandy loam	
1	L	24		II	0.9	1.3	10YR 6/4 light yellowish brown sandy loam	
1	L	25		I	0	0.7	10YR 3/3 dark brown sandy loam	
1	L	25		II	0.7	1.1	10YR 6/4 light yellowish brown sand	
1	L	26		I	0	0.8	10YR 4/3 brown sandy loam	
1	L	26		II	0.8	1.3	10YR 6/4 light yellowish brown sandy loam	
1	L	27		I	0	0.7	10YR 3/3 dark brown sandy loam	
1	L	27		II	0.7	1.1	10YR 6/4 light yellowish brown sand	
1	L	28		I	0	0.8	10YR 4/3 brown sandy loam	
1	L	28		II	0.8	1.2	10YR 6/4 light yellowish brown sandy loam	
1	L	29		I	0	0.7	10YR 3/3 dark brown sandy loam	
1	L	29		II	0.7	1.1	10YR 6/4 light yellowish brown sand	
1	L	30		I	0	0.75	10YR 4/3 brown sandy loam	
1	L	30		II	0.75	1.15	10YR 6/4 light yellowish brown sandy loam	
1	L	31		I	0	0.8	10YR 3/3 dark brown sandy loam	
1	L	31		II	0.8	1.2	10YR 6/4 light yellowish brown sand	
1	L	32		I	0	0.8	10YR 4/3 brown sandy loam	
1	L	32		II	0.8	1.2	10YR 6/4 light yellowish brown sandy loam	
1	L	33		I	0	0.7	10YR 3/3 dark brown sandy loam	
1	L	33		II	0.7	1.1	10YR 6/4 light yellowish brown sand	
1	L	34		I	0	1	10YR 4/3 brown sandy loam	
1	L	34		II	1	1.5	7.5YR 6/4 light brown sand	
1	L	35		I	0	0.9	10YR 3/3 dark brown sandy loam	
1	L	35		II	0.9	1.3	10YR 6/4 light yellowish brown sand	
1	L	36		I	0	0.75	10YR 4/3 brown sandy loam	
1	L	36		II	0.75	1.2	10YR 6/4 light yellowish brown sandy loam	
1	L	38		I	0	1.2	10YR 4/4 dark yellowish brown sandy loam	
1	L	38		I	0	1	10YR 4/3 brown sandy loam	
1	L	38		II	1.2	1.6	10YR 6/8 brownish yellow with 10YR 7/8 yellow sand	
1	L	38		II	1	1.4	7.5YR 6/4 light brown sand	
1	L	40		I	0	0.6	10YR 3/2 very dark grayish brown sandy loam	
1	L	40		II	0.6	1	10YR 5/4 yellowish brown very sandy loam	
1	L	41		I	0	1	10YR 3/3 dark brown sandy loam	
1	L	41		II	1	1.4	10YR 6/4 light yellowish brown sand	
1	M	1		I	0	0.7	10YR 3/3 dark brown sandy loam	EOT
1	M	1		II	0.7	1.1	2.5Y 6/3 light yellowish brown sand	
1	M	2		I	0	0.7	10YR 3/3 dark brown sandy loam	

Area	Transect	STP	Radial	Level	Start Depth (ft.)	End Depth (ft.)	Soil Description	Comments
1	M	2		II	0.7	1.1	2.5Y 6/3 light yellowish brown sand	
1	M	3		I	0	0.8	10YR 3/3 dark brown sandy loam	
1	M	3		II	0.8	1.2	2.5Y 6/3 light yellowish brown sand	
1	M	4		I	0	0.7	10YR 3/3 dark brown sandy loam	
1	M	4		II	0.7	1.1	2.5Y 6/3 light yellowish brown sand	
1	M	5		I	0	0.9	10YR 3/3 dark brown sandy loam	
1	M	5		II	0.9	1.3	2.5Y 6/3 light yellowish brown sand	
1	M	6		I	0	0.8	10YR 3/3 dark brown sandy loam	
1	M	6		II	0.8	1.2	2.5Y 6/3 light yellowish brown sand	
1	M	7		I	0	0.9	10YR 3/3 dark brown sandy loam	
1	M	7		II	0.9	1.3	2.5Y 6/3 light yellowish brown sand	
1	M	8		I	0	1	10YR 3/3 dark brown sandy loam	
1	M	8		II	1	1.4	2.5Y 6/3 light yellowish brown sand	
1	M	9		I	0	1	10YR 3/3 dark brown sandy loam	
1	M	9		II	1	1.4	2.5Y 6/3 light yellowish brown sand	
1	M	10		I	0	0.9	10YR 3/3 dark brown sandy loam	
1	M	10		II	0.9	1.3	2.5Y 6/3 light yellowish brown sand	
1	M	11		I	0	0.8	10YR 3/3 dark brown sandy loam	
1	M	11		II	0.8	1.2	2.5Y 6/3 light yellowish brown sand	
1	M	12		I	0	1	10YR 3/3 dark brown sandy loam	
1	M	12		II	1	1.4	2.5Y 6/3 light yellowish brown sand	
1	M	13		I	0	0.9	10YR 3/3 dark brown sandy loam	modern glass
1	M	13		II	0.9	1.3	2.5Y 6/3 light yellowish brown sand	
1	M	14		I	0	0.8	10YR 3/3 dark brown sandy loam	
1	M	14		II	0.8	1.2	2.5Y 6/3 light yellowish brown sand	
1	M	15		I	0	0.8	10YR 3/3 dark brown sandy loam	
1	M	15		II	0.8	1.2	2.5Y 6/3 light yellowish brown sand	
1	M	16		I	0	0.8	10YR 3/3 dark brown sandy loam	
1	M	16		II	0.8	1.2	2.5Y 6/3 light yellowish brown sand	
1	M	17		I	0	0.7	10YR 3/3 dark brown sandy loam	
1	M	17		II	0.7	1.1	2.5Y 6/3 light yellowish brown sand	
1	M	18		I	0	0.9	10YR 3/3 dark brown sandy loam	
1	M	18		II	0.9	1.3	10YR 6/4 light yellowish brown sand	
1	M	19		I	0	0.6	10YR 3/3 dark brown sandy loam	
1	M	19		II	0.6	1	10YR 6/4 light yellowish brown sand	
1	M	20		I	0	1.1	10YR 4/3 brown sandy loam	
1	M	20		II	1.1	1.5	10YR 6/4 light yellowish brown sandy loam	
1	M	21		I	0	1	10YR 3/3 dark brown sandy loam	
1	M	21		II	1	1.4	10YR 6/4 light yellowish brown sand	
1	M	22		I	0	0.9	10YR 4/3 brown sandy loam	
1	M	22		II	0.9	1.3	10YR 6/4 light yellowish brown sandy loam	
1	M	23		I	0	1	10YR 3/3 dark brown sandy loam	
1	M	23		II	1	1.4	10YR 6/4 light yellowish brown sand	
1	M	24		I	0	0.9	10YR 4/3 brown sandy loam	
1	M	24		II	0.9	1.3	10YR 6/4 light yellowish brown sandy loam	
1	M	25		I	0	1	10YR 3/3 dark brown sandy loam	
1	M	25		II	1	2	10YR 6/4 light yellowish brown sand	
1	M	26		I	0	0.8	10YR 4/3 brown sandy loam	
1	M	26		II	0.8	1.2	10YR 6/4 light yellowish brown sandy loam	

Area	Transect	STP	Radial	Level	Start Depth (ft.)	End Depth (ft.)	Soil Description	Comments
1	M	27		I	0	0.8	10YR 4/3 brown sandy loam	
1	M	27		II	0.8	1.2	10YR 6/4 light yellowish brown sandy loam	
1	M	28		I	0	1	10YR 4/3 brown sandy loam	
1	M	28		II	1	1.5	10YR 6/3 pale brown sand	
1	M	29		I	0	0.9	10YR 4/3 brown sandy loam	
1	M	29		II	0.9	1.3	10YR 6/4 light yellowish brown sandy loam	
1	M	30		I	0	1	10YR 4/3 brown sandy loam	
1	M	30		II	1	2	10YR 6/3 pale brown sand	
1	M	31		I	0	0.9	10YR 4/3 brown sandy loam	
1	M	31		II	0.9	1.3	10YR 6/4 light yellowish brown sandy loam	
1	M	32		I	0	1	10YR 4/3 brown sandy loam	
1	M	32		II	1	2	10YR 6/3 pale brown sand	
1	M	33		I	0	0.9	10YR 4/3 brown sandy loam	
1	M	33		II	0.9	1.3	10YR 6/4 light yellowish brown sandy loam	
1	M	34		I	0	0.9	10YR 4/3 brown sandy loam	
1	M	34		II	0.9	1.3	10YR 6/4 light yellowish brown sandy loam	
1	M	35		I	0	1	10YR 4/3 brown sandy loam	
1	M	35		II	1	1.5	10YR 6/3 pale brown sand	
1	M	36		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
1	M	36		II	0.9	1.3	10YR 7/4 very pale brown sandy loam	
1	M	37		I	0	1	10YR 4/3 brown sandy loam	
1	M	37		II	1	2	7.5YR 6/4 light brown sand	
1	M	38		I	0	1	10YR 4/3 brown sandy loam	
1	M	38		II	1	1.5	7.5YR 6/4 light brown sand	
1	M	39		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
1	M	39		II	0.9	1.3	10YR 7/4 very pale brown sandy loam	
1	M	40		I	0	1	10YR 4/3 brown sandy loam	
1	M	40		II	1	1.5	7.5YR 6/4 light brown sand	
1	M	41		I	0	1	10YR 4/3 brown sandy loam	
1	M	41		II	1	1.5	7.5YR 6/4 light brown sand	
1	N	1		I	0	1	10YR 4/3 brown sandy loam	
1	N	1		II	1	1.5	10YR 6/8 brownish yellow sand	
1	N	2		I	0	1	10YR 4/3 brown sandy loam	
1	N	2		II	1	1.5	10YR 6/8 brownish yellow sand	
1	N	3		I	0	1	10YR 4/3 brown sandy loam	
1	N	3		II	1	1.5	10YR 6/8 brownish yellow sand	
1	N	4		I	0	1	10YR 4/3 brown sandy loam	
1	N	4		II	1	1.5	10YR 6/3 pale brown sand	
1	N	5		I	0	1	10YR 4/3 brown sandy loam	
1	N	5		II	1	1.5	10YR 6/3 pale brown sand	
1	N	6		I	0	1	10YR 4/3 brown sandy loam	
1	N	6		II	1	1.5	10YR 6/3 pale brown sand	
1	N	7		I	0	0.9	10YR 4/3 brown sandy loam	
1	N	7		II	0.9	1.6	10YR 7/2 light gray sand	
1	N	7		III	1.6	2	7.5YR 7/4 pink clay sand	
1	N	8		I	0	0.8	2.5Y 4/3 olive brown sandy loam	
1	N	8		II	0.8	1.2	10YR 6/3 pale brown sand	
1	N	9		I	0	0.8	2.5Y 4/3 olive brown sandy loam	
1	N	9		II	0.8	1.6	10YR 6/3 pale brown sand	

Area	Transect	STP	Radial	Level	Start Depth (ft.)	End Depth (ft.)	Soil Description	Comments
1	N	10		I	0	1	2.5Y 4/3 olive brown sandy loam	
1	N	10		II	1	1.6	10YR 6/3 pale brown sand	
1	N	11		I	0	1.1	2.5Y 4/3 olive brown sandy loam	
1	N	11		II	1.1	1.5	10YR 6/3 pale brown sand	
1	N	12		I	0	1	10YR 4/3 brown sandy loam	
1	N	12		II	1	1.5	10YR 6/4 light yellowish brown with 7.5YR 6/6 reddish yellow sand	
1	N	13		I	0	1	10YR 4/3 brown sandy loam	
1	N	13		II	1	1.5	10YR 6/4 light yellowish brown with 7.5YR 6/6 reddish yellow sand	
1	N	14		I	0	1.1	10YR 4/3 brown sandy loam	
1	N	14		II	1.1	1.5	10YR 6/4 light yellowish brown with 7.5YR 6/6 reddish yellow sand	
1	N	15		I	0	1	10YR 4/3 brown sandy loam	
1	N	15		II	1	1.8	10YR 6/4 light yellowish brown with 7.5YR 6/6 reddish yellow sand	
1	N	16		I	0	1.2	10YR 4/3 brown sandy loam	
1	N	16		II	1.2	1.6	10YR 6/4 light yellowish brown with 7.5YR 6/6 reddish yellow sand	
1	N	17		I	0	1.1	10YR 4/3 brown sandy loam	
1	N	17		II	1.1	1.5	10YR 6/4 light yellowish brown with 7.5YR 6/6 reddish yellow sand	
1	N	18		I	0	1.1	10YR 4/3 brown sandy loam	
1	N	18		II	1.1	1.5	10YR 6/4 light yellowish brown with 7.5YR 6/6 reddish yellow sand	
1	N	19		I	0	1	10YR 4/3 brown sandy loam	
1	N	19		II	1	1.5	10YR 6/4 light yellowish brown with 7.5YR 6/6 reddish yellow sand	
1	N	20		I	0	1	10YR 3/2 very dark grayish brown sandy loam	
1	N	20		II	1	1.4	10YR 5/4 yellowish brown very sandy loam	
1	N	21		I	0	0.9	10YR 3/2 very dark grayish brown sandy loam	
1	N	21		II	0.9	1.2	10YR 5/4 yellowish brown very sandy loam	
1	N	22		I	0	0.8	10YR 4/4 dark yellowish brown sandy loam	
1	N	22		II	0.8	1.2	2.5Y 6/3 light yellowish brown sandy loam	
1	N	23		I	0	1.1	10YR 3/2 very dark grayish brown sandy loam	
1	N	23		II	1.1	1.5	10YR 5/4 yellowish brown very sandy loam	
1	N	24		I	0	1	10YR 4/4 dark yellowish brown sandy loam	
1	N	24		II	1	1.5	2.5Y 6/3 light yellowish brown sandy loam	
1	N	25		I	0	0.8	10YR 3/2 very dark grayish brown sandy loam	
1	N	25		II	0.8	1.2	10YR 5/4 yellowish brown very sandy loam	
1	N	26		I	0	1	10YR 3/2 very dark grayish brown sandy loam	
1	N	26		II	1	1.4	10YR 5/4 yellowish brown very sandy loam	
1	N	27		I	0	0.8	10YR 4/4 dark yellowish brown sandy loam	
1	N	27		II	0.8	1.2	2.5Y 6/3 light yellowish brown sandy loam	
1	N	28		I	0	0.9	10YR 3/2 very dark grayish brown sandy loam	
1	N	28		II	0.9	1.2	10YR 5/4 yellowish brown very sandy loam	
1	N	29		I	0	0.7	10YR 4/4 dark yellowish brown sandy loam	
1	N	29		II	0.7	1.1	2.5Y 6/3 light yellowish brown sandy loam	
1	N	30		I	0	0.8	10YR 3/2 very dark grayish brown sandy loam	
1	N	30		II	0.8	1.2	10YR 5/4 yellowish brown very sandy loam	
1	N	31		I	0	0.8	10YR 4/4 dark yellowish brown sandy loam	
1	N	31		II	0.8	1.2	2.5Y 6/3 light yellowish brown sandy loam	
1	N	32		I	0	0.7	10YR 3/2 very dark grayish brown sandy loam	
1	N	32		II	0.7	1.1	10YR 5/4 yellowish brown very sandy loam	
1	N	33		I	0	0.6	10YR 4/4 dark yellowish brown sandy loam	
1	N	33		II	0.6	1	2.5Y 6/3 light yellowish brown sandy loam	
1	N	34		I	0	0.7	10YR 3/2 very dark grayish brown sandy loam	

Area	Transect	STP	Radial	Level	Start Depth (ft.)	End Depth (ft.)	Soil Description	Comments
1	N	34		II	0.7	1.1	10YR 5/4 yellowish brown very sandy loam	
1	N	35		I	0	0.9	10YR 4/3 brown sandy loam	
1	N	35		II	0.9	1.3	10YR 6/4 light yellowish brown sandy loam	
1	N	36		I	0	0.6	10YR 3/2 very dark grayish brown sandy loam	
1	N	36		II	0.6	1	10YR 5/4 yellowish brown very sandy loam	
1	N	37		I	0	0.9	10YR 2/1 black sandy loam	charcoal fragments
1	N	37		II	0.9	1	10YR 5/2 grayish brown sandy loam	
1	N	37		III	1	1.4	10YR 6/6 brownish yellow sand	
1	N	38		I	0	0.7	10YR 3/2 very dark grayish brown sandy loam	coal discarded
1	N	38		II	0.7	1.1	10YR 6/4 light yellowish brown sandy loam	
1	N	39		I	0	0.6	10YR 3/2 very dark grayish brown sandy loam	
1	N	39		II	0.6	1	10YR 5/4 yellowish brown very sandy loam	
1	N	40		I	0	1	10YR 4/4 dark yellowish brown sandy loam	
1	N	40		II	1	1.4	10YR 5/6 yellowish brown sandy loam	
1	O	1		I	0	1	10YR 3/2 very dark grayish brown sandy loam	
1	O	1		II	1	1.4	10YR 6/3 pale brown sand	
1	O	2		I	0	1.2	10YR 3/2 very dark grayish brown sandy loam	
1	O	2		II	1.2	1.6	10YR 6/3 pale brown sand	
1	O	3		I	0	1.3	10YR 3/2 very dark grayish brown sandy loam	
1	O	3		II	1.3	1.7	10YR 6/3 pale brown sand	
1	O	4		I	0	0.65	10YR 3/2 very dark grayish brown sandy loam	
1	O	4		II	0.65	1.05	10YR 6/3 pale brown sand	
1	O	5		I	0	0.95	10YR 3/2 very dark grayish brown sandy loam	
1	O	5		II	0.95	1.35	10YR 6/3 pale brown sand	
1	O	6		I	0	0.7	10YR 3/2 very dark grayish brown sandy loam	
1	O	6		II	0.7	1.1	10YR 6/3 pale brown sand	
1	O	7		I	0	0.8	10YR 3/2 very dark grayish brown sandy loam	
1	O	7		II	0.8	1.2	10YR 6/3 pale brown sand	
1	O	8		I	0	0.75	10YR 3/2 very dark grayish brown sandy loam	
1	O	8		II	0.75	1.15	10YR 5/4 yellowish brown sand	
1	O	9		I	0	0.8	10YR 3/2 very dark grayish brown sandy loam	
1	O	9		II	0.8	1.2	10YR 5/4 yellowish brown sand	
1	O	10		I	0	1	10YR 3/2 very dark grayish brown sandy loam	
1	O	10		II	1	1.4	10YR 5/4 yellowish brown sand	
1	O	11		I	0	0.85	10YR 3/2 very dark grayish brown sandy loam	
1	O	11		II	0.85	1.25	10YR 5/4 yellowish brown sand	
1	O	12		I	0	0.65	10YR 3/2 very dark grayish brown sandy loam	
1	O	12		II	0.65	1.05	10YR 5/4 yellowish brown sand	
1	O	13		I	0	0.8	10YR 3/2 very dark grayish brown sandy loam	
1	O	13		II	0.8	1.2	10YR 5/4 yellowish brown sand	
1	O	14		I	0	0.9	10YR 3/2 very dark grayish brown sandy loam	
1	O	14		II	0.9	1.3	10YR 5/4 yellowish brown sand	
1	O	15		I	0	0.8	10YR 3/2 very dark grayish brown sandy loam	
1	O	15		II	0.8	1.2	10YR 5/4 yellowish brown sand	
1	O	16		I	0	1.05	10YR 3/2 very dark grayish brown sandy loam	
1	O	16		II	1.05	1.45	10YR 5/4 yellowish brown sand	
1	O	17		I	0	0.85	10YR 3/2 very dark grayish brown sandy loam	
1	O	17		II	0.85	1.25	10YR 5/4 yellowish brown sand	
1	O	18		I	0	0.6	10YR 3/2 very dark grayish brown sandy loam	

Area	Transect	STP	Radial	Level	Start Depth (ft.)	End Depth (ft.)	Soil Description	Comments
1	O	18		II	0.6	1	10YR 5/4 yellowish brown sand	
1	O	19		I	0	0.85	10YR 3/2 very dark grayish brown sandy loam	
1	O	19		II	0.85	1.25	10YR 5/4 yellowish brown sand	
1	O	20					NOT EXCAVATED	inundation/standing water
1	O	21		I	0	0.85	10YR 3/2 very dark grayish brown sandy loam	
1	O	21		II	0.85	1.25	10YR 5/4 yellowish brown sand	
1	O	22		I	0	0.8	10YR 4/3 brown sandy loam	
1	O	22		II	0.8	1.2	10YR 6/4 light yellowish brown sand	
1	O	23		I	0	0.75	10YR 3/2 very dark grayish brown sandy loam	
1	O	23		II	0.75	1.25	10YR 5/4 yellowish brown sand	
1	O	24		I	0	0.9	10YR 4/3 brown sandy loam	
1	O	24		II	0.9	1.4	10YR 6/4 light yellowish brown sand	
1	O	25		I	0	1.05	10YR 3/2 very dark grayish brown sandy loam	
1	O	25		II	1.05	1.45	10YR 5/4 yellowish brown sand	
1	O	26		I	0	0.7	10YR 4/3 brown sandy loam	
1	O	26		II	0.7	1.2	10YR 6/4 light yellowish brown sand	
1	O	27		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
1	O	27		I	0	0.7	10YR 3/2 very dark grayish brown sandy loam	
1	O	27		II	0.9	1.3	2.5Y 6/3 light yellowish brown sandy loam	
1	O	27		II	0.7	1.2	10YR 5/4 yellowish brown sand	
1	O	28		I	0	1	10YR 4/3 brown sandy loam	
1	O	28		II	1	1.5	10YR 6/4 light yellowish brown sand	
1	O	29		I	0	0.8	10YR 3/2 very dark grayish brown sandy loam	
1	O	29		II	0.8	1.3	10YR 5/4 yellowish brown sand	
1	O	30		I	0	0.6	10YR 4/3 brown sandy loam	
1	O	30		II	0.6	1.1	10YR 6/4 light yellowish brown sand	
1	O	31		I	0	1.1	10YR 3/2 very dark grayish brown sandy loam	
1	O	31		II	1.1	1.5	10YR 5/4 yellowish brown sand	
1	O	32		I	0	0.9	10YR 4/3 brown sandy loam	
1	O	32		II	0.9	1.3	10YR 6/8 brownish yellow sand	
1	O	33		I	0	0.7	10YR 3/2 very dark grayish brown sandy loam	
1	O	33		II	0.7	1.25	10YR 5/4 yellowish brown sand	
1	O	34		I	0	0.7	10YR 4/3 brown sandy loam	
1	O	34		II	0.7	1.4	10YR 6/8 brownish yellow sand	
1	O	35		I	0	1	10YR 3/2 very dark grayish brown sandy loam	
1	O	35		II	1	1.4	10YR 5/4 yellowish brown sand	
1	O	36		I	0	0.5	10YR 4/3 brown sandy loam	
1	O	36		II	0.5	0.9	10YR 6/8 brownish yellow sand	
1	O	37		I	0	1	10YR 4/4 dark yellowish brown sandy loam	
1	O	37		I	0	0.65	10YR 3/2 very dark grayish brown sandy loam	
1	O	37		II	1	1.5	2.5Y 6/3 light yellowish brown sandy loam	
1	O	37		II	0.65	1.25	10YR 5/4 yellowish brown sand	
1	O	38		I	0	0.9	10YR 2/1 black sandy loam	
1	O	38		II	0.9	1.3	10YR 6/8 brownish yellow sand	
1	O	39		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
1	O	39		I	0	0.8	10YR 2/1 black sandy loam	
1	O	39		II	0.9	1.5	2.5Y 6/3 light yellowish brown sandy loam	
1	O	39		II	0.8	1.3	10YR 5/6 yellowish brown sand	
1	O	40		I	0	0.4	10YR 4/3 brown sandy loam	

Area	Transect	STP	Radial	Level	Start Depth (ft.)	End Depth (ft.)	Soil Description	Comments
1	O	40		II	0.4	0.8	10YR 6/8 brownish yellow sand	
1	O	41		I	0	0.9	10YR 3/2 very dark grayish brown sandy loam	
1	O	41		II	0.9	1.35	10YR 5/6 yellowish brown sand	
1	O	42		I	0	0.8	10YR 4/4 dark yellowish brown sandy loam	
1	O	42		I	0	0.6	10YR 4/3 brown sandy loam	EOT
1	O	42		II	0.8	1.2	2.5Y 6/3 light yellowish brown sandy loam	
1	O	42		II	0.6	1.1	10YR 6/8 brownish yellow sand	
1	P	1		I	0	0.9	10YR 6/3 pale brown sandy loam	
1	P	1		II	0.9	1.4	10YR 5/4 yellowish brown sandy clay loam	
1	P	2		I	0	0.6	10YR 6/3 pale brown sandy loam	
1	P	2		II	0.6	1	10YR 3/2 very dark grayish brown sandy loam	
1	P	3		I	0	0.7	10YR 6/3 pale brown sandy loam	
1	P	3		II	0.7	1.1	10YR 3/2 very dark grayish brown sandy loam	
1	P	4		I	0	0.6	10YR 6/3 pale brown sandy loam	
1	P	4		II	0.6	1	10YR 5/4 yellowish brown sandy clay loam	
1	P	5		I	0	0.7	10YR 6/3 pale brown sandy loam	
1	P	5		II	0.7	1.2	10YR 3/2 very dark grayish brown sandy loam	
1	P	6		I	0	0.7	10YR 3/2 very dark grayish brown sandy loam	
1	P	6		II	0.7	1.1	10YR 6/3 pale brown sandy loam	
1	P	7		I	0	0.7	10YR 3/2 very dark grayish brown sandy loam	
1	P	7		II	0.7	1.1	10YR 6/3 pale brown sandy loam	
1	P	8		I	0	0.8	10YR 3/2 very dark grayish brown sandy loam	
1	P	8		II	0.8	1.1	10YR 6/3 pale brown sandy loam	
1	P	9		I	0	0.7	10YR 3/2 very dark grayish brown sandy loam	
1	P	9		II	0.7	1.1	10YR 6/3 pale brown sandy loam	
1	P	10		I	0	0.8	10YR 3/2 very dark grayish brown sandy loam	
1	P	10		II	0.8	1.2	10YR 6/3 pale brown sandy loam	
1	P	11		I	0	0.7	10YR 3/2 very dark grayish brown sandy loam	
1	P	11		II	0.7	1	10YR 6/3 pale brown sandy loam	
1	P	12		I	0	0.9	10YR 3/2 very dark grayish brown sandy loam	
1	P	12		II	0.9	1.3	10YR 6/3 pale brown sandy loam	
1	P	13		I	0	0.8	10YR 3/2 very dark grayish brown sandy loam	
1	P	13		II	0.8	1.2	10YR 6/3 pale brown sandy loam	
1	P	14		I	0	0.9	10YR 3/2 very dark grayish brown sandy loam	
1	P	14		II	0.9	1.3	10YR 6/3 pale brown sandy loam	
1	P	15		I	0	0.7	10YR 3/2 very dark grayish brown sandy loam	
1	P	15		II	0.7	1.1	10YR 6/3 pale brown sandy loam	
1	P	16		I	0	0.9	10YR 3/2 very dark grayish brown sandy loam	
1	P	16		II	0.9	1.3	10YR 6/3 pale brown sandy loam	
1	P	17		I	0	0.8	10YR 3/2 very dark grayish brown sandy loam	
1	P	17		II	0.8	1.1	10YR 6/3 pale brown sandy loam	
1	P	18		I	0	0.6	10YR 3/2 very dark grayish brown sandy loam	
1	P	18		II	0.6	1	10YR 6/3 pale brown sandy loam	
1	P	19		I	0	0.7	10YR 3/2 very dark grayish brown sandy loam	
1	P	19		II	0.7	1.1	10YR 6/3 pale brown sandy loam	
1	P	21		I	0	0.9	10YR 4/3 brown sandy loam	
1	P	21		II	0.9	1.3	10YR 6/4 light yellowish brown sandy loam	
1	P	22		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
1	P	22		II	0.9	1.3	10YR 5/6 yellowish brown sandy loam	

Area	Transect	STP	Radial	Level	Start Depth (ft.)	End Depth (ft.)	Soil Description	Comments
1	P	23		I	0	1.7	10YR 4/3 brown sandy loam	
1	P	23		II	1.7	2.2	10YR 6/4 light yellowish brown sand	
1	P	24		I	0	0.7	10YR 3/2 very dark grayish brown sandy loam	
1	P	24		II	0.7	1.1	10YR 5/4 yellowish brown very sandy loam	
1	P	25		I	0	0.8	10YR 3/2 very dark grayish brown sandy loam	
1	P	25		II	0.8	1.2	10YR 5/4 yellowish brown sand	
1	P	26		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
1	P	26		II	0.9	1.3	10YR 7/8 yellow sand	
1	P	28		I	0	0.9	10YR 3/3 dark brown sandy loam	
1	P	28		II	0.9	1.3	2.5Y 6/3 light yellowish brown sandy loam	
1	P	29		I	0	1	10YR 4/4 dark yellowish brown sandy loam	
1	P	29		II	1	1.4	10YR 7/8 yellow sand	
1	P	30		I	0	1.1	10YR 4/3 brown sandy loam	
1	P	30		II	1.1	1.6	10YR 6/4 light yellowish brown sand	
1	P	31		I	0	1	10YR 4/4 dark yellowish brown sandy loam	
1	P	31		II	1	1.4	10YR 5/6 yellowish brown sandy loam	
1	P	32		I	0	1.05	10YR 4/3 brown sandy loam	
1	P	32		II	1.05	1.5	10YR 6/4 light yellowish brown sandy loam	
1	P	33		I	0	0.8	10YR 3/2 very dark grayish brown sandy loam	
1	P	33		II	0.8	1.2	10YR 5/4 yellowish brown very sandy loam	
1	P	34		I	0	0.7	10YR 3/2 very dark grayish brown sandy loam	
1	P	34		II	0.7	1.1	10YR 5/4 yellowish brown sand	
1	P	35	East	I	0	0.7	10YR 3/3 dark brown sandy loam	
1	P	35	East	II	0.7	1.1	10YR 6/4 light yellowish brown sand	
1	P	35	North	I	0	0.9	10YR 4/3 brown sandy loam	
1	P	35	North	II	0.9	1.3	10YR 6/8 brownish yellow sand	
1	P	35	South	I	0	0.75	10YR 3/2 very dark grayish brown sandy loam	
1	P	35	South	II	0.75	1.35	10YR 5/4 yellowish brown sand	
1	P	35	West	I	0	0.75	10YR 4/3 brown sandy loam	
1	P	35	West	II	0.75	1.2	10YR 6/4 light yellowish brown sandy loam	
1	P	35		I	0	1	10YR 4/4 dark yellowish brown sandy loam	shell discarded
1	P	35		II	1	1.4	10YR 7/8 yellow sand	
1	P	36		I	0	0.9	10YR 3/3 dark brown sandy loam	
1	P	36		II	0.9	1.3	10YR 6/4 light yellowish brown sand	
1	P	38		I	0	1	10YR 4/4 dark yellowish brown sandy loam	
1	P	38		II	1	1.4	10YR 5/6 yellowish brown sandy loam	
1	P	39	East	I	0	1.3	10YR 3/2 very dark grayish brown sandy loam	
1	P	39	East	II	1.3	1.7	10YR 5/4 yellowish brown very sandy loam	
1	P	39	North	I	0	1	10YR 4/4 dark yellowish brown sandy loam	
1	P	39	North	II	1	1.4	10YR 7/8 yellow sand	
1	P	39	South	I	0	0.85	10YR 3/2 very dark grayish brown sandy loam	
1	P	39	South	II	0.85	1.45	10YR 5/4 yellowish brown sand	
1	P	39	West	I	0	0.9	10YR 3/3 dark brown sandy loam	
1	P	39	West	II	0.9	1.3	10YR 6/4 light yellowish brown sand	
1	P	39		I	0	0.9	10YR 3/2 very dark grayish brown sandy loam	
1	P	39		II	0.9	1.3	10YR 5/4 yellowish brown very sandy loam	
1	P	40		I	0	1	10YR 4/4 dark yellowish brown sandy loam	
1	P	40		II	1	1.4	10YR 5/6 yellowish brown sandy loam	
1	P	41		I	0	1.1	10YR 4/3 brown sandy loam	

Area	Transect	STP	Radial	Level	Start Depth (ft.)	End Depth (ft.)	Soil Description	Comments
1	P	41		II	1.1	1.6	10YR 6/8 brownish yellow sand	
1	P	43		I	0	0.7	10YR 3/3 dark brown sandy loam	
1	P	43		II	0.7	1.1	10YR 6/4 light yellowish brown sand	
1	P	44					NOT EXCAVATED	road disturbance
1	P	45					NOT EXCAVATED	road disturbance
1	Q	2		I	0	0.3	10YR 3/2 very dark grayish brown sandy loam	
1	Q	2		II	0.3	0.7	10YR 6/3 pale brown sand	
1	Q	3		I	0	0.35	10YR 3/2 very dark grayish brown sandy loam	
1	Q	3		II	0.35	0.95	10YR 6/3 pale brown sand	
1	Q	4		I	0	0.3	10YR 3/2 very dark grayish brown sandy loam	
1	Q	4		II	0.3	0.7	10YR 6/3 pale brown sand	
1	Q	5		I	0	0.3	10YR 3/2 very dark grayish brown sandy loam	
1	Q	5		II	0.3	0.8	10YR 6/3 pale brown sand	
1	Q	6		I	0	0.9	10YR 4/3 brown sandy loam	
1	Q	6		II	0.9	1.3	10YR 5/6 yellowish brown sandy loam	
1	Q	7		I	0	0.9	10YR 4/3 brown sandy loam	
1	Q	7		II	0.9	1.3	10YR 6/1 gray sandy loam	
1	Q	8		I	0	0.9	10YR 4/3 brown sandy loam	
1	Q	8		II	0.9	1.3	10YR 6/1 gray sandy loam	
1	Q	9		I	0	0.9	10YR 4/3 brown sandy loam	
1	Q	9		II	0.9	1.3	10YR 6/2 light brownish gray sandy loam	
1	Q	10		I	0	0.9	10YR 4/3 brown sandy loam	
1	Q	10		II	0.9	1.3	10YR 6/2 light brownish gray sandy loam	
1	Q	11		I	0	0.9	10YR 4/3 brown sandy loam	
1	Q	11		II	0.9	1.3	10YR 6/2 light brownish gray sandy loam	
1	Q	12		I	0	0.9	10YR 4/3 brown sandy loam	
1	Q	12		II	0.9	1.3	10YR 6/2 light brownish gray sandy loam	
1	Q	13		I	0	0.9	10YR 4/3 brown sandy loam	
1	Q	13		II	0.9	1.3	10YR 6/2 light brownish gray sandy loam	
1	Q	14		I	0	0.9	10YR 4/3 brown sandy loam	
1	Q	14		II	0.9	1.3	10YR 6/2 light brownish gray sandy loam	
1	Q	15		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
1	Q	15		II	0.9	1.3	10YR 5/6 yellowish brown sandy loam	
1	Q	16		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
1	Q	16		II	0.9	1.3	10YR 5/6 yellowish brown sandy loam	
1	Q	17		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
1	Q	17		II	0.9	1.3	10YR 5/6 yellowish brown sandy loam	
1	Q	18		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
1	Q	18		II	0.9	1.3	10YR 5/6 yellowish brown sandy loam	
1	Q	19		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
1	Q	19		II	0.9	1.3	10YR 5/6 yellowish brown sandy loam	
1	R	2		I	0	0.3	10YR 3/2 very dark grayish brown sandy loam	
1	R	2		II	0.3	0.85	10YR 6/3 pale brown sand	
1	R	3		I	0	0.3	10YR 3/2 very dark grayish brown sandy loam	
1	R	3		II	0.3	0.9	10YR 6/3 pale brown sand	
1	R	4		I	0	0.3	10YR 3/2 very dark grayish brown sandy loam	
1	R	4		II	0.3	0.8	10YR 6/3 pale brown sand	
1	R	5		I	0	0.1	10YR 4/3 brown sandy loam	
1	R	5		II	0.1	0.5	10YR 6/3 pale brown sand	

Area	Transect	STP	Radial	Level	Start Depth (ft.)	End Depth (ft.)	Soil Description	Comments
1	R	5		III	0.5	1.6	10YR 4/3 brown sand	
1	R	5		IV	1.6	2	10YR 6/4 light yellowish brown sand	
1	R	6		I	0	0.3	10YR 4/2 dark grayish brown sandy loam	
1	R	6		II	0.3	0.8	2.5Y 6/3 light yellowish brown sand	
1	R	6		III	0.8	1.4	10YR 4/2 dark grayish brown sandy loam	
1	R	6		IV	1.4	1.8	2.5Y 6/3 light yellowish brown sand	
1	R	7		I	0	1.05	10YR 3/2 very dark grayish brown sandy loam	
1	R	7		II	1.05	1.45	10YR 6/3 pale brown sand	
1	R	8		I	0	1	10YR 4/3 brown sandy loam	
1	R	8		II	1	1.4	10YR 6/8 brownish yellow sand	
1	R	9		I	0	0.7	10YR 4/2 dark grayish brown sandy loam	
1	R	9		II	0.7	1.1	2.5Y 6/3 light yellowish brown sand	
1	R	10		I	0	1	10YR 4/3 brown sandy loam	
1	R	10		II	1	1.4	10YR 6/8 brownish yellow sand	
1	R	11		I	0	0.8	10YR 4/2 dark grayish brown sandy loam	
1	R	11		II	0.8	1.2	2.5Y 6/3 light yellowish brown sand	
1	R	12		I	0	0.8	10YR 4/2 dark grayish brown sandy loam	
1	R	12		II	0.8	1.2	2.5Y 6/3 light yellowish brown sand	
1	R	13		I	0	0.9	10YR 3/3 dark brown sandy loam	
1	R	13		II	0.9	1.3	2.5Y 6/3 light yellowish brown sand	
1	R	14		I	0	1.2	10YR 3/3 dark brown sandy loam	
1	R	14		II	1.2	1.6	2.5Y 6/3 light yellowish brown sand	
1	R	15		I	0	0.9	10YR 3/3 dark brown sandy loam	
1	R	15		II	0.9	1.3	2.5Y 6/3 light yellowish brown sand	
1	R	16		I	0	0.8	10YR 3/3 dark brown sandy loam	
1	R	16		II	0.8	1.2	2.5Y 6/3 light yellowish brown sand	
1	R	17		I	0	0.7	10YR 3/3 dark brown sandy loam	
1	R	17		II	0.7	1.1	2.5Y 6/3 light yellowish brown sand	
1	R	18		I	0	0.7	10YR 3/3 dark brown sandy loam	
1	R	18		II	0.7	1.1	2.5Y 6/3 light yellowish brown sand	
1	R	19		I	0	0.7	10YR 3/3 dark brown sandy loam	
1	R	19		II	0.7	1.1	2.5Y 6/3 light yellowish brown sand	
1	S	3		I	0	0.3	10YR 3/2 very dark grayish brown sandy loam	
1	S	3		II	0.3	1	10YR 6/3 pale brown sandy loam	
1	S	3		III	1	1.3	10YR 3/2 very dark grayish brown sandy loam	
1	S	4		I	0	0.4	10YR 4/3 brown sandy loam	
1	S	4		II	0.4	0.8	10YR 6/4 light yellowish brown sand	
1	S	5		I	0	0.3	10YR 4/4 dark yellowish brown sandy loam	
1	S	5		II	0.3	0.8	10YR 6/3 pale brown with 10YR 6/8 brownish yellow sandy loam	
1	S	5		III	0.8	1.8	10YR 4/4 dark yellowish brown sandy loam	buried A horizon
1	S	5		IV	1.8	2.2	10YR 6/3 pale brown sandy loam	
1	S	6		I	0	0.8	10YR 3/2 very dark grayish brown sandy loam	
1	S	6		II	0.8	0.9	10YR 6/3 pale brown sandy loam	
1	S	6		III	0.9	1.4	10YR 3/2 very dark grayish brown sandy loam	
1	S	7		I	0	0.5	10YR 4/3 brown sandy loam	
1	S	7		II	0.5	1.1	10YR 4/1 dark gray sandy loam	
1	S	7		III	1.1	1.6	10YR 6/4 light yellowish brown sand	
1	S	8		I	0	0.8	10YR 4/4 dark yellowish brown sandy loam	
1	S	8		II	0.8	1.2	10YR 6/3 pale brown sand loam	

Area	Transect	STP	Radial	Level	Start Depth (ft.)	End Depth (ft.)	Soil Description	Comments
1	S	9		I	0	1	10YR 4/3 brown sandy loam	
1	S	9		II	1	1.4	2.5Y 6/3 light yellowish brown sand	
1	S	10		I	0	0.8	10YR 4/4 dark yellowish brown sandy loam	
1	S	10		II	0.8	1.2	10YR 6/3 pale brown sand loam	
1	S	11		I	0	0.9	10YR 4/3 brown sandy loam	
1	S	11		II	0.9	1.3	2.5Y 6/3 light yellowish brown sand	
1	S	12		I	0	0.8	10YR 4/4 dark yellowish brown sandy loam	
1	S	12		II	0.8	1.2	2.5Y 6/3 light yellowish brown sandy loam	
1	S	13		I	0	1.1	10YR 4/3 brown sandy loam	
1	S	13		II	1.1	1.6	2.5Y 6/3 light yellowish brown sand	
1	S	14		I	0	0.9	10YR 4/3 brown sandy loam	
1	S	14		II	0.9	1.3	2.5Y 6/3 light yellowish brown sand	
1	S	15		I	0	0.8	10YR 4/4 dark yellowish brown sandy loam	
1	S	15		II	0.8	1.2	2.5Y 6/3 light yellowish brown sandy loam	
1	S	16		I	0	1	10YR 4/3 brown sandy loam	
1	S	16		II	1	1.4	2.5Y 6/3 light yellowish brown sand	
1	S	17		I	0	0.8	10YR 4/4 dark yellowish brown sandy loam	
1	S	17		II	0.8	1.2	2.5Y 6/3 light yellowish brown sandy loam	
1	S	18		I	0	1.1	10YR 4/3 brown sandy loam	
1	S	18		II	1.1	1.5	2.5Y 6/3 light yellowish brown sand	
1	S	19	East	I	0	0.8	10YR 3/3 dark brown sandy loam	
1	S	19	East	II	0.8	1.2	2.5Y 6/3 light yellowish brown sand	
1	S	19	North	I	0	1	10YR 3/3 dark brown sandy loam	
1	S	19	North	II	1	1.4	2.5Y 6/3 light yellowish brown sand	
1	S	19	West	I	0	0.9	10YR 3/3 dark brown sandy loam	
1	S	19	West	II	0.9	1.3	2.5Y 6/3 light yellowish brown sand	
1	S	19		I	0	1.3	10YR 4/3 brown sandy loam	
1	S	19		II	1.3	1.7	2.5Y 6/3 light yellowish brown sand	
1	T	2		I	0	0.7	10YR 3/3 dark brown sandy loam	
1	T	2		II	0.7	1.1	10YR 6/4 light yellowish brown sand	
1	T	3		I	0	0.8	10YR 6/4 light yellowish brown sandy loam	
1	T	3		II	0.8	1.1	10YR 6/2 light brownish gray with 10YR 6/4 light yellowish brown and 2.5Y 6/3 light yellowish brown sandy loam	compact
1	T	3		III	1.1	1.5	10YR 3/3 dark brown sandy loam	compact
1	T	3		IV	1.5	1.9	2.5Y 6/3 light yellowish brown sand	compact
1	T	4		I	0	0.8	10YR 4/2 dark grayish brown sandy loam	asphalt discarded
1	T	4		II	0.8	1.8	2.5Y 6/3 light yellowish brown sand	
1	T	5		I	0	0.5	10YR 4/2 dark grayish brown sandy loam	
1	T	5		II	0.5	0.9	2.5Y 6/3 light yellowish brown sand	
1	T	5		III	0.9	1.5	10YR 4/2 dark grayish brown sandy loam	
1	T	6		I	0	0.2	10YR 4/2 dark grayish brown sandy loam	
1	T	6		II	0.2	0.7	2.5Y 6/3 light yellowish brown sand	
1	T	6		III	0.7	1.4	10YR 4/2 dark grayish brown sandy loam	
1	T	6		IV	1.4	1.8	2.5Y 6/3 light yellowish brown sand	
1	T	7		I	0	0.7	10YR 4/2 dark grayish brown sandy loam	
1	T	7		II	0.7	0.9	2.5Y 6/3 light yellowish brown sand	
1	T	7		III	0.9	1.5	10YR 4/2 dark grayish brown sandy loam	
1	T	7		IV	1.5	1.9	2.5Y 6/3 light yellowish brown sand	
1	T	8		I	0	0.8	10YR 4/2 dark grayish brown sandy loam	

Area	Transect	STP	Radial	Level	Start Depth (ft.)	End Depth (ft.)	Soil Description	Comments
1	T	8		II	0.8	1.2	2.5Y 6/3 light yellowish brown sand	
1	T	9		I	0	0.9	10YR 4/2 dark grayish brown sandy loam	
1	T	9		II	0.9	1.3	2.5Y 6/3 light yellowish brown sand	
1	T	10		I	0	0.9	10YR 4/2 dark grayish brown sandy loam	
1	T	10		II	0.9	1.3	2.5Y 6/3 light yellowish brown sand	
1	T	11		I	0	1	10YR 4/2 dark grayish brown sandy loam	
1	T	11		II	1	1.4	2.5Y 6/3 light yellowish brown sand	
1	T	12		I	0	1.1	10YR 4/2 dark grayish brown sandy loam	
1	T	12		II	1.1	1.4	2.5Y 6/3 light yellowish brown sand	
1	T	13		I	0	0.7	10YR 4/2 dark grayish brown sandy loam	
1	T	13		II	0.7	1.1	2.5Y 6/3 light yellowish brown sand	
1	T	14		I	0	0.8	10YR 4/2 dark grayish brown sandy loam	
1	T	14		II	0.8	1.2	2.5Y 6/3 light yellowish brown sand	
1	T	15		I	0	0.9	10YR 4/2 dark grayish brown sandy loam	
1	T	15		II	0.9	1.1	2.5Y 6/3 light yellowish brown sand	
1	T	16		I	0	0.8	10YR 4/2 dark grayish brown sandy loam	
1	T	16		II	0.8	1.2	2.5Y 6/3 light yellowish brown sand	
1	T	17		I	0	0.9	10YR 4/2 dark grayish brown sandy loam	
1	T	17		II	0.9	1.3	2.5Y 6/3 light yellowish brown sand	
1	T	18		I	0	0.9	10YR 4/2 dark grayish brown sandy loam	
1	T	18		II	0.9	1.1	2.5Y 6/3 light yellowish brown sand	
1	T	19		I	0	0.8	10YR 4/2 dark grayish brown sandy loam	
1	T	19		II	0.8	1.2	2.5Y 6/3 light yellowish brown sand	
1	U	2		I	0	0.9	2.5Y 4/2 dark grayish brown sandy loam	
1	U	2		II	0.9	1.35	2.5Y 6/2 light brownish gray sand clay	
1	U	3		I	0	0.65	2.5Y 4/2 dark grayish brown sandy loam	
1	U	3		II	0.65	0.8	10YR 5/6 yellowish brown sandy clay	
1	U	3		III	0.8	0.9	10YR 3/2 very dark grayish brown sandy loam	
1	U	3		IV	0.9	1.3	2.5Y 6/2 light brownish gray sand clay	
1	U	4		I	0	0.4	2.5Y 4/2 dark grayish brown sandy loam	
1	U	4		II	0.4	0.95	2.5Y 6/2 light brownish gray sand clay	
1	U	5		I	0	0.6	2.5Y 4/2 dark grayish brown sandy loam	
1	U	5		II	0.6	1	2.5Y 6/2 light brownish gray sand	
1	U	6		I	0	0.7	2.5Y 4/2 dark grayish brown sandy loam	
1	U	6		II	0.7	1.1	2.5Y 6/2 light brownish gray sand	
1	U	7		I	0	0.75	2.5Y 4/2 dark grayish brown sandy loam	
1	U	7		II	0.75	1.25	2.5Y 6/2 light brownish gray sand	
1	U	8		I	0	0.7	2.5Y 4/2 dark grayish brown sandy loam	
1	U	8		II	0.7	1.1	2.5Y 6/2 light brownish gray sand	
1	U	9		I	0	0.75	2.5Y 4/2 dark grayish brown sandy loam	
1	U	9		II	0.75	1.15	2.5Y 6/2 light brownish gray sand	
1	U	10		I	0	0.8	2.5Y 4/2 dark grayish brown sandy loam	
1	U	10		II	0.8	1.25	2.5Y 6/2 light brownish gray sand	
1	U	11		I	0	0.85	2.5Y 4/2 dark grayish brown sandy loam	
1	U	11		II	0.85	1.25	2.5Y 6/2 light brownish gray sand	
1	U	12		I	0	0.95	2.5Y 4/2 dark grayish brown sandy loam	
1	U	12		II	0.95	1.4	2.5Y 6/2 light brownish gray sand	
1	U	13		I	0	0.95	2.5Y 4/2 dark grayish brown sandy loam	
1	U	13		II	0.95	1.35	2.5Y 6/2 light brownish gray sand	

Area	Transect	STP	Radial	Level	Start Depth (ft.)	End Depth (ft.)	Soil Description	Comments
1	U	14		I	0	0.7	2.5Y 4/2 dark grayish brown sandy loam	
1	U	14		II	0.7	1.15	2.5Y 6/2 light brownish gray sand	
1	U	15		I	0	0.8	2.5Y 4/2 dark grayish brown sandy loam	
1	U	15		II	0.8	1.2	2.5Y 6/2 light brownish gray sand	
1	U	16		I	0	0.7	2.5Y 4/2 dark grayish brown sandy loam	
1	U	16		II	0.7	1.1	2.5Y 6/2 light brownish gray sand	
1	U	17		I	0	0.9	2.5Y 4/2 dark grayish brown sandy loam	
1	U	17		II	0.9	1.3	2.5Y 6/2 light brownish gray sand	
1	U	18		I	0	0.8	2.5Y 4/2 dark grayish brown sandy loam	
1	U	18		II	0.8	1.2	2.5Y 6/2 light brownish gray sand	
1	U	19		I	0	1	2.5Y 4/2 dark grayish brown sandy loam	
1	U	19		II	1	1.4	2.5Y 6/2 light brownish gray sand	
1	V	2		I	0	1	10YR 3/2 very dark grayish brown sandy loam	
1	V	2		II	1	1.4	10YR 5/4 yellowish brown sandy loam	
1	V	3		I	0	0.8	2.5Y 4/2 dark grayish brown sandy loam	
1	V	3		II	0.8	1.2	2.5Y 6/2 light brownish gray sandy loam	
1	V	4		I	0	0.3	2.5Y 4/2 dark grayish brown sandy loam	
1	V	4		II	0.3	0.8	2.5Y 6/2 light brownish gray sandy loam	
1	V	4		III	0.8	1.1	2.5Y 4/2 dark grayish brown sandy loam	
1	V	5		I	0	0.8	2.5Y 4/2 dark grayish brown sandy loam	
1	V	5		II	0.8	1.2	2.5Y 6/2 light brownish gray sandy loam	
1	V	6		I	0	0.8	2.5Y 4/2 dark grayish brown sandy loam	
1	V	6		II	0.8	1.2	2.5Y 6/2 light brownish gray sandy loam	
1	V	7		I	0	0.7	2.5Y 4/2 dark grayish brown sandy loam	
1	V	7		II	0.7	1.1	2.5Y 6/2 light brownish gray sandy loam	
1	V	8		I	0	0.9	2.5Y 4/2 dark grayish brown sandy loam	
1	V	8		II	0.9	1.4	2.5Y 6/2 light brownish gray sandy loam	
1	V	9		I	0	0.9	2.5Y 4/2 dark grayish brown sandy loam	
1	V	9		II	0.9	1.3	2.5Y 6/2 light brownish gray sandy loam	
1	V	10		I	0	0.8	2.5Y 4/2 dark grayish brown sandy loam	
1	V	10		II	0.8	1.3	2.5Y 6/2 light brownish gray sandy loam	
1	V	11	East	I	0	0.6	10YR 4/3 brown sandy loam	
1	V	11	East	II	0.6	1	10YR 6/4 light yellowish brown sand	
1	V	11	North	I	0	0.8	10YR 4/3 brown sandy loam	
1	V	11	North	II	0.8	1.3	10YR 6/4 light yellowish brown sand	
1	V	11	South	I	0	1.2	10YR 4/3 brown sandy loam	
1	V	11	South	II	1.2	1.6	10YR 6/4 light yellowish brown sand	
1	V	11	West	I	0	1.1	10YR 4/3 brown sandy loam	brick discarded
1	V	11	West	II	1.1	1.5	10YR 6/4 light yellowish brown sand	
1	V	11		I	0	0.8	2.5Y 4/2 dark grayish brown sandy loam	
1	V	11		II	0.8	1.2	2.5Y 6/2 light brownish gray sandy loam	
1	V	12		I	0	0.7	2.5Y 4/2 dark grayish brown sandy loam	
1	V	12		II	0.7	1.1	2.5Y 6/2 light brownish gray sandy loam	
1	V	13		I	0	0.8	2.5Y 4/2 dark grayish brown sandy loam	
1	V	13		II	0.8	1.3	2.5Y 6/2 light brownish gray sandy loam	
1	V	14	East	I	0	0.8	10YR 4/3 brown sandy loam	
1	V	14	East	II	0.8	1.2	10YR 6/4 light yellowish brown sand	
1	V	14	North	I	0	0.6	10YR 4/3 brown sandy loam	
1	V	14	North	II	0.6	1	10YR 6/4 light yellowish brown sand	

Area	Transect	STP	Radial	Level	Start Depth (ft.)	End Depth (ft.)	Soil Description	Comments
1	V	14	West	I	0	1	10YR 4/3 brown sandy loam	
1	V	14	West	II	1	1.5	10YR 6/4 light yellowish brown sand	
1	V	14		I	0	0.7	2.5Y 4/2 dark grayish brown sandy loam	
1	V	14		II	0.7	1.1	2.5Y 6/2 light brownish gray sandy loam	
1	V	15	East	I	0	0.8	10YR 3/3 dark brown sandy loam	
1	V	15	East	II	0.8	1.2	2.5Y 6/3 light yellowish brown sand	
1	V	15	West	I	0	1	10YR 3/3 dark brown sandy loam	
1	V	15	West	II	1	1.4	2.5Y 6/3 light yellowish brown sand	
1	V	15		I	0	0.9	2.5Y 4/2 dark grayish brown sandy loam	
1	V	15		II	0.9	1.3	2.5Y 6/2 light brownish gray sandy loam	
1	V	16		I	0	1	2.5Y 4/2 dark grayish brown sandy loam	
1	V	16		II	1	1.4	2.5Y 6/2 light brownish gray sandy loam	
1	V	17		I	0	0.8	2.5Y 4/2 dark grayish brown sandy loam	
1	V	17		II	0.8	1.2	2.5Y 6/2 light brownish gray sandy loam	
1	V	18		I	0	0.8	2.5Y 4/2 dark grayish brown sandy loam	
1	V	18		II	0.8	1.2	2.5Y 6/2 light brownish gray sandy loam	
1	V	19	East	I	0	0.6	10YR 3/3 dark brown sandy loam	wet
1	V	19	East	II	0.6	1	2.5Y 6/3 light yellowish brown sand	
1	V	19	North	I	0	0.8	10YR 3/3 dark brown sandy loam	wet
1	V	19	North	II	0.8	1.2	2.5Y 6/3 light yellowish brown sand	
1	V	19	West	I	0	0.9	10YR 3/3 dark brown sandy loam	
1	V	19	West	II	0.9	1.3	2.5Y 6/3 light yellowish brown sand	
1	V	19		I	0	0.8	2.5Y 4/2 dark grayish brown sandy loam	
1	V	19		II	0.8	1.2	2.5Y 6/2 light brownish gray sandy loam	
1	W	3		I	0	1.8	10YR 4/3 brown sandy loam	
1	W	3		II	1.8	2.2	10YR 6/8 brownish yellow sand	EOT
1	W	4		I	0	0.6	10YR 4/3 brown sandy loam	
1	W	4		II	0.6	0.8	10YR 6/4 light yellowish brown sand	rock impasse
1	W	5		I	0	1.2	10YR 4/3 brown sandy loam	
1	W	5		II	1.2	1.6	10YR 6/4 light yellowish brown sand	
1	W	6		I	0	0.7	10YR 4/3 brown sandy loam	
1	W	6		II	0.7	1.1	10YR 6/4 light yellowish brown sand	
1	W	7		I	0	0.9	10YR 4/3 brown sandy loam	
1	W	7		II	0.9	1.3	10YR 6/4 light yellowish brown sand	
1	W	8		I	0	1.1	10YR 4/3 brown sandy loam	
1	W	8		II	1.1	1.5	10YR 6/4 light yellowish brown sand	
1	W	9		I	0	0.6	10YR 4/3 brown sandy loam	
1	W	9		II	0.6	1	10YR 6/4 light yellowish brown sand	
1	W	10		I	0	0.5	10YR 4/3 brown sandy loam	
1	W	10		II	0.5	0.9	10YR 6/4 light yellowish brown sand	
1	W	11		I	0	1	10YR 4/3 brown sandy loam	
1	W	11		II	1	1.5	10YR 6/4 light yellowish brown sand	
1	W	12		I	0	0.6	10YR 4/3 brown sandy loam	
1	W	12		II	0.6	1	10YR 6/4 light yellowish brown sand	
1	W	13		I	0	0.9	10YR 4/3 brown sandy loam	
1	W	13		II	0.9	1.3	10YR 6/4 light yellowish brown sand	
1	W	14		I	0	0.4	10YR 4/3 brown sandy loam	
1	W	14		II	0.4	0.8	10YR 6/4 light yellowish brown sand	
1	W	15		I	0	0.6	10YR 4/3 brown sandy loam	brick fragments

Area	Transect	STP	Radial	Level	Start Depth (ft.)	End Depth (ft.)	Soil Description	Comments
1	W	15		II	0.6	1.1	10YR 6/4 light yellowish brown sand	
1	W	16		I	0	0.8	10YR 4/3 brown sandy loam	
1	W	16		II	0.8	1.3	10YR 6/4 light yellowish brown sand	
1	W	17		I	0	0.6	10YR 4/3 brown sandy loam	
1	W	17		II	0.6	1	10YR 6/4 light yellowish brown sand	
1	W	18		I	0	0.8	10YR 4/3 brown sandy loam	
1	W	18		II	0.8	1.2	10YR 6/4 light yellowish brown sand	
1	W	19		I	0	0.7	10YR 4/3 brown sandy loam	
1	W	19		II	0.7	1.1	10YR 6/4 light yellowish brown sand	
1	X	3		I	0	1.5	10YR 4/4 dark yellowish brown sandy loam	discarded coal
1	X	3		II	1.5	1.6	10YR 8/1 white sand	
1	X	3		III	1.6	2	2.5Y 6/3 light yellowish brown sandy loam	
1	X	4		I	0	1.1	10YR 4/4 dark yellowish brown sandy loam	
1	X	4		II	1.1	1.4	2.5Y 6/3 light yellowish brown sandy loam	
1	X	5		I	0	0.8	10YR 4/4 dark yellowish brown sandy loam	
1	X	5		II	0.8	1.2	2.5Y 6/3 light yellowish brown sandy loam	
1	X	6		I	0	0.7	10YR 4/4 dark yellowish brown sandy loam	
1	X	6		II	0.7	1.1	2.5Y 6/3 light yellowish brown sandy loam	
1	X	7		I	0	0.7	10YR 4/4 dark yellowish brown sandy loam	
1	X	7		II	0.7	1.1	2.5Y 6/3 light yellowish brown sandy loam	
1	X	8		I	0	0.8	10YR 4/4 dark yellowish brown sandy loam	
1	X	8		II	0.8	1.2	2.5Y 6/3 light yellowish brown sandy loam	
1	X	9		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
1	X	9		II	0.9	1.3	10YR 5/6 yellowish brown sandy loam	
1	X	10		I	0	0.8	10YR 4/4 dark yellowish brown sandy loam	
1	X	10		II	0.8	1.2	2.5Y 6/3 light yellowish brown sandy loam	
1	X	11		I	0	0.8	10YR 4/4 dark yellowish brown sandy loam	
1	X	11		II	0.8	1.2	2.5Y 6/3 light yellowish brown sandy loam	
1	X	12		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
1	X	12		II	0.9	1.3	2.5Y 6/3 light yellowish brown sandy loam	
1	X	13		I	0	0.8	10YR 4/4 dark yellowish brown sandy loam	
1	X	13		II	0.8	1.2	2.5Y 6/3 light yellowish brown sandy loam	
1	X	14		I	0	0.7	10YR 4/4 dark yellowish brown sandy loam	
1	X	14		II	0.7	1.1	2.5Y 6/3 light yellowish brown sandy loam	
1	X	15		I	0	0.8	10YR 4/4 dark yellowish brown sandy loam	discarded brick
1	X	15		II	0.8	1.2	2.5Y 6/3 light yellowish brown sandy loam	
1	X	16		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
1	X	16		II	0.9	1.3	2.5Y 6/3 light yellowish brown sandy loam	
1	X	17		I	0	0.8	10YR 4/4 dark yellowish brown sandy loam	
1	X	17		II	0.8	1.2	2.5Y 6/3 light yellowish brown sandy loam	
1	X	18		I	0	0.8	10YR 4/4 dark yellowish brown sandy loam	
1	X	18		II	0.8	1.2	2.5Y 6/3 light yellowish brown sandy loam	
1	X	19		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
1	X	19		II	0.9	1.3	2.5Y 6/3 light yellowish brown sandy loam	
1	Y	2		I	0	1	10YR 4/4 dark yellowish brown sandy loam	
1	Y	2		II	1	1.4	10YR 5/6 yellowish brown sandy loam	
1	Y	3		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
1	Y	3		II	0.9	1.3	10YR 5/6 yellowish brown sandy loam	
1	Y	4		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	

Area	Transect	STP	Radial	Level	Start Depth (ft.)	End Depth (ft.)	Soil Description	Comments
1	Y	4		II	0.9	1.3	10YR 5/6 yellowish brown sandy loam	
1	Y	5		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
1	Y	5		II	0.9	1.3	10YR 5/6 yellowish brown sandy loam	
1	Y	6		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	brick discarded
1	Y	6		II	0.9	1.3	10YR 5/6 yellowish brown sandy loam	
1	Y	7		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
1	Y	7		II	0.9	1.3	10YR 5/6 yellowish brown sandy loam	
1	Y	8		I	0	1	10YR 4/4 dark yellowish brown sandy loam	
1	Y	8		II	1	1.4	10YR 5/6 yellowish brown sandy loam	
1	Y	9		I	0	1	10YR 4/4 dark yellowish brown sandy loam	
1	Y	9		II	1	1.4	10YR 5/6 yellowish brown sandy loam	
1	Y	10		I	0	1	10YR 4/4 dark yellowish brown sandy loam	
1	Y	10		II	1	1.4	10YR 5/6 yellowish brown sandy loam	
1	Y	11		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
1	Y	11		II	0.9	1.3	10YR 5/6 yellowish brown sandy loam	
1	Y	12		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
1	Y	12		II	0.9	1.3	10YR 5/6 yellowish brown sandy loam	
1	Y	13		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
1	Y	13		II	0.9	1.3	10YR 5/6 yellowish brown sandy loam	
1	Y	14		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
1	Y	14		II	0.9	1.3	10YR 5/6 yellowish brown sandy loam	
1	Y	15		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
1	Y	15		II	0.9	1.3	10YR 5/6 yellowish brown sandy loam	
1	Y	16		I	0	1	10YR 4/4 dark yellowish brown sandy loam	
1	Y	16		II	1	1.4	10YR 5/6 yellowish brown sandy loam	
1	Y	17		I	0	1	10YR 4/4 dark yellowish brown sandy loam	
1	Y	17		II	1	1.4	10YR 5/6 yellowish brown sandy loam	
1	Y	18		I	0	1.1	10YR 4/4 dark yellowish brown sandy loam	
1	Y	18		II	1.1	1.5	10YR 5/6 yellowish brown sandy loam	
1	Y	19		I	0	1.1	10YR 4/4 dark yellowish brown sandy loam	
1	Y	19		II	1.1	1.5	10YR 5/6 yellowish brown sandy loam	
1	Z	3		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
1	Z	3		II	0.9	1.3	10YR 5/6 yellowish brown sandy loam	
1	Z	4		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
1	Z	4		II	0.9	1.3	10YR 5/6 yellowish brown sandy loam	
1	Z	5		I	0	0.7	10YR 4/4 dark yellowish brown sandy loam	
1	Z	5		II	0.7	1.1	10YR 6/3 pale brown sandy loam	
1	Z	6		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	brick discarded
1	Z	6		II	0.9	1.3	10YR 5/6 yellowish brown sandy loam	
1	Z	7		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
1	Z	7		II	0.9	1.3	10YR 5/6 yellowish brown sandy loam	
1	Z	8		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
1	Z	8		II	0.9	1.3	10YR 5/6 yellowish brown sandy loam	
1	Z	9		I	0	0.8	10YR 4/4 dark yellowish brown sandy loam	
1	Z	9		II	0.8	1.2	10YR 5/6 yellowish brown sandy loam	
1	Z	10		I	0	1	10YR 4/4 dark yellowish brown sandy loam	
1	Z	10		II	1	1.4	10YR 5/6 yellowish brown sandy loam	
1	Z	11		I	0	1	10YR 4/4 dark yellowish brown sandy loam	
1	Z	11		II	1	1.4	10YR 5/6 yellowish brown sandy loam	

Area	Transect	STP	Radial	Level	Start Depth (ft.)	End Depth (ft.)	Soil Description	Comments
1	Z	12		I	0	1	10YR 4/4 dark yellowish brown sandy loam	
1	Z	12		II	1	1.4	10YR 5/6 yellowish brown sandy loam	
1	Z	13		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
1	Z	13		II	0.9	1.3	10YR 5/6 yellowish brown sandy loam	
1	Z	14		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
1	Z	14		II	0.9	1.3	10YR 5/6 yellowish brown sandy loam	
1	Z	15		I	0	0.8	10YR 4/4 dark yellowish brown sandy loam	
1	Z	15		II	0.8	1.2	10YR 5/6 yellowish brown sandy loam	
1	Z	16		I	0	0.8	10YR 4/4 dark yellowish brown sandy loam	
1	Z	16		II	0.8	1.2	10YR 5/6 yellowish brown sandy loam	
1	Z	17		I	0	0.8	10YR 4/4 dark yellowish brown sandy loam	
1	Z	17		II	0.8	1.2	10YR 5/6 yellowish brown sandy loam	
1	Z	18		I	0	0.8	10YR 4/4 dark yellowish brown sandy loam	
1	Z	18		II	0.8	1.2	10YR 5/6 yellowish brown sandy loam	
1	Z	19		I	0	0.8	10YR 4/4 dark yellowish brown sandy loam	
1	Z	19		II	0.8	1.2	10YR 5/6 yellowish brown sandy loam	
5	A	1		I	0	1	10YR 4/3 brown sandy loam	
5	A	1		II	1	1.5	10YR 6/4 light yellowish brown sand	
5	A	2		I	0	1	10YR 4/3 brown sandy loam	
5	A	2		II	1	1.5	10YR 6/4 light yellowish brown sand	
5	A	7					NOT EXCAVATED	disturbed road
5	AA	16		I	0	1	10YR 4/3 brown loamy sand	
5	AA	16		II	1	1.4	10YR 6/4 light yellowish brown clay sand	
5	AA	17		I	0	0.9	10YR 4/3 brown loamy sand	
5	AA	17		II	0.9	1.3	10YR 6/4 light yellowish brown clay sand	
5	AA	18		I	0	0.9	10YR 4/3 brown loamy sand	
5	AA	18		II	0.9	1.3	10YR 6/4 light yellowish brown clay sand	
5	AA	19		I	0	0.9	10YR 4/3 brown loamy sand	
5	AA	19		II	0.9	1.3	10YR 7/4 very pale brown clay sand	
5	AA	20		I	0	1	10YR 4/3 brown loamy sand	
5	AA	20		II	1	1.4	10YR 7/4 very pale brown clay sand	
5	AA	21		I	0	1	10YR 4/3 brown loamy sand	
5	AA	21		II	1	1.4	10YR 7/4 very pale brown clay sand	
5	AA	22		I	0	0.8	10YR 4/3 brown loamy sand	
5	AA	22		II	0.8	1.2	10YR 7/4 very pale brown clay sand	
5	AA	23		I	0	0.9	10YR 4/3 brown loamy sand	
5	AA	23		II	0.9	1.3	10YR 7/4 very pale brown clay sand	
5	AB	20		I	0	1	10YR 4/3 brown loamy sand	
5	AB	20		II	1	1.4	10YR 7/4 very pale brown clay sand	
5	AB	21		I	0	1	10YR 4/3 brown loamy sand	
5	AB	21		II	1	1.4	10YR 7/4 very pale brown clay sand	
5	AB	22		I	0	1	10YR 4/3 brown loamy sand	
5	AB	22		II	1	1.4	10YR 7/4 very pale brown clay sand	
5	B	1		I	0	0.9	10YR 4/3 brown sandy loam	
5	B	1		II	0.9	1.5	10YR 5/6 yellowish brown sandy loam	
5	B	2		I	0	0.9	10YR 4/3 brown sandy loam	
5	B	2		II	0.9	1.4	10YR 5/6 yellowish brown sandy loam	
5	B	3		I	0	0.9	10YR 4/3 brown sandy loam	
5	B	3		II	0.9	1.4	10YR 5/6 yellowish brown sandy loam	

Area	Transect	STP	Radial	Level	Start Depth (ft.)	End Depth (ft.)	Soil Description	Comments
5	B	4		I	0	1	10YR 4/3 brown sandy loam	
5	B	4		II	1	1.5	10YR 5/6 yellowish brown sandy loam	
5	B	5		I	0	0.9	10YR 4/3 brown sandy loam	
5	B	5		II	0.9	1.4	10YR 5/6 yellowish brown sandy loam	
5	B	6					NOT EXCAVATED	road
5	C	1		I	0	1	10YR 4/3 brown sandy loam	
5	C	1		II	1	1.5	10YR 6/4 light yellowish brown sand	
5	C	2		I	0	1	10YR 4/3 brown sandy loam	
5	C	2		II	1	1.5	10YR 6/4 light yellowish brown sand	
5	C	3		I	0	1	10YR 4/3 brown sandy loam	
5	C	3		II	1	1.5	10YR 6/4 light yellowish brown sand	
5	C	4		I	0	1	10YR 4/3 brown sandy loam	
5	C	4		II	1	1.5	10YR 6/4 light yellowish brown sand	
5	C	5		I	0	1	10YR 4/3 brown sandy loam	
5	C	5		II	1	1.5	10YR 6/4 light yellowish brown sand	
5	C	6		I	0	1	10YR 4/3 brown sandy loam	
5	C	6		II	1	1.5	10YR 6/4 light yellowish brown sand	
5	C	7		I	0	1	10YR 4/3 brown sandy loam	
5	C	7		II	1	1.5	10YR 6/4 light yellowish brown sand	
5	C	8					NOT EXCAVATED	disturbed road
5	D	1	South	I	0	1	10YR 4/3 brown sandy loam	
5	D	1	South	II	1	1.5	10YR 5/6 yellowish brown sandy loam	
5	D	1		I	0	1.1	10YR 4/3 brown sandy loam	
5	D	1		II	1.1	1.6	10YR 5/6 yellowish brown sandy loam	
5	D	2		I	0	1.1	10YR 4/3 brown sandy loam	
5	D	2		II	1.1	1.6	10YR 5/6 yellowish brown sandy loam	
5	D	3		I	0	1.1	10YR 4/3 brown sandy loam	
5	D	3		II	1.1	1.6	10YR 5/6 yellowish brown sandy loam	
5	D	4		I	0	1	10YR 4/3 brown sandy loam	
5	D	4		II	1	1.5	10YR 5/6 yellowish brown sandy loam	
5	D	5		I	0	1	10YR 4/3 brown sandy loam	
5	D	5		II	1	1.5	10YR 5/6 yellowish brown sandy loam	
5	D	6		I	0	1.1	10YR 4/3 brown sandy loam	
5	D	6		II	1.1	1.6	10YR 5/6 yellowish brown sandy loam	
5	D	7		I	0	1.1	10YR 4/3 brown sandy loam	
5	D	7		II	1.1	1.6	10YR 5/6 yellowish brown sandy loam	
5	D	8		I	0	1.1	10YR 4/3 brown sandy loam	
5	D	8		II	1.1	1.6	10YR 5/6 yellowish brown sandy loam	
5	D	9					NOT EXCAVATED	road
5	E	1		I	0	0.9	10YR 4/3 brown sandy loam	
5	E	1		II	0.9	1.5	10YR 5/6 yellowish brown sandy loam	
5	E	2		I	0	1	10YR 4/3 brown sandy loam	
5	E	2		II	1	1.5	10YR 6/4 light yellowish brown sand	
5	E	3		I	0	1	10YR 4/3 brown sandy loam	
5	E	3		II	1	1.5	10YR 6/4 light yellowish brown sand	
5	E	4		I	0	1	10YR 4/3 brown sandy loam	
5	E	4		II	1	1.5	10YR 5/6 yellowish brown sandy loam	
5	E	5		I	0	1	10YR 4/3 brown sandy loam	
5	E	5		II	1	1.5	10YR 6/4 light yellowish brown sand	

Area	Transect	STP	Radial	Level	Start Depth (ft.)	End Depth (ft.)	Soil Description	Comments
5	E	6		I	0	1	10YR 4/3 brown sandy loam	
5	E	6		II	1	1.5	10YR 5/6 yellowish brown sandy loam	
5	E	7		I	0	1	10YR 4/3 brown sandy loam	
5	E	7		II	1	1.4	10YR 6/4 light yellowish brown sand	
5	E	8		I	0	1	10YR 4/3 brown sandy loam	
5	E	8		II	1	1.5	10YR 5/6 yellowish brown sandy loam	
5	E	9		I	0	1	10YR 4/3 brown sandy loam	
5	E	9		II	1	1.5	10YR 6/4 light yellowish brown sand	
5	E	10		I	0	0.9	10YR 4/3 brown sandy loam	
5	E	10		II	0.9	1.4	10YR 5/6 yellowish brown sandy loam	
5	E	11					NOT EXCAVATED	disturbed road
5	E	12		I	0	0.5	10YR 4/3 brown sandy loam	at wood edge
5	E	12		II	0.5	1	10YR 6/4 light yellowish brown sand	
5	E	12		III	1	1.5	10YR 6/3 pale brown sand	
5	F	1		I	0	0.9	10YR 3/4 dark yellowish brown sandy loam	
5	F	1		II	0.9	1.3	10YR 5/6 yellowish brown sand	
5	F	2		I	0	0.9	10YR 4/3 brown sandy loam	
5	F	2		II	0.9	1.3	10YR 5/4 yellowish brown sand	
5	F	3		I	0	1	10YR 4/4 dark yellowish brown sandy loam	
5	F	3		II	1	1.5	10YR 5/6 yellowish brown sandy loam	
5	F	4		I	0	0.8	10YR 3/4 dark yellowish brown sandy loam	
5	F	4		II	0.8	1.2	10YR 5/6 yellowish brown sand	
5	F	5		I	0	1.2	10YR 4/3 brown sandy loam	
5	F	5		II	1.2	1.6	10YR 5/4 yellowish brown sand	
5	F	6		I	0	0.85	10YR 3/4 dark yellowish brown sandy loam	
5	F	6		II	0.85	1.25	10YR 5/6 yellowish brown sand	
5	F	7		I	0	1	10YR 4/4 dark yellowish brown sandy loam	
5	F	7		II	1	1.5	10YR 5/6 yellowish brown sandy loam	
5	F	8		I	0	0.9	10YR 4/3 brown sandy loam	
5	F	8		II	0.9	1.3	10YR 6/4 light yellowish brown sandy loam	
5	F	9		I	0	0.8	10YR 3/4 dark yellowish brown sandy loam	
5	F	9		II	0.8	1.2	10YR 5/6 yellowish brown sand	
5	F	10		I	0	0.8	10YR 4/3 brown sandy loam	
5	F	10		II	0.8	1.2	10YR 5/4 yellowish brown sand	
5	F	11		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
5	F	11		II	0.9	1.4	10YR 5/6 yellowish brown sandy loam	
5	F	12		I	0	0.85	10YR 3/4 dark yellowish brown sandy loam	
5	F	12		II	0.85	1.25	10YR 5/6 yellowish brown sand	
5	F	13		I	0	1.2	10YR 4/4 dark yellowish brown sandy loam	
5	F	13		II	1.2	1.6	10YR 6/4 light yellowish brown sandy loam	
5	G	1		I	0	0.6	10YR 4/3 brown sandy loam	EOT
5	G	1		II	0.6	1	10YR 5/4 yellowish brown sand	
5	G	2		I	0	0.9	10YR 3/4 dark yellowish brown sandy loam	
5	G	2		II	0.9	1.3	10YR 5/6 yellowish brown sand	
5	G	3		I	0	0.8	10YR 4/3 brown sandy loam	
5	G	3		II	0.8	1.2	10YR 5/4 yellowish brown sand	
5	G	4		I	0	0.95	10YR 3/4 dark yellowish brown sandy loam	
5	G	4		II	0.95	1.35	10YR 5/6 yellowish brown sand	
5	G	5		I	0	0.9	10YR 4/3 brown sandy loam	

Area	Transect	STP	Radial	Level	Start Depth (ft.)	End Depth (ft.)	Soil Description	Comments
5	G	5		II	0.9	1.3	10YR 5/4 yellowish brown sand	
5	G	6		I	0	0.85	10YR 3/4 dark yellowish brown sandy loam	
5	G	6		II	0.85	1.25	10YR 5/6 yellowish brown sand	
5	G	7		I	0	0.7	10YR 4/3 brown sandy loam	
5	G	7		II	0.7	1.2	10YR 5/4 yellowish brown sand	
5	G	8		I	0	0.9	10YR 3/4 dark yellowish brown sandy loam	
5	G	8		II	0.9	1.3	10YR 5/6 yellowish brown sand	
5	G	9		I	0	0.9	10YR 4/3 brown sandy loam	
5	G	9		II	0.9	1.3	10YR 5/4 yellowish brown sand	
5	G	11		I	0	0.5	10YR 4/3 brown sandy loam	
5	G	11		II	0.5	0.9	10YR 5/4 yellowish brown sand	
5	G	12		I	0	0.95	10YR 3/4 dark yellowish brown sandy loam	
5	G	12		II	0.95	1.35	10YR 5/6 yellowish brown sand	
5	G	13		I	0	1	10YR 4/3 brown sandy loam	
5	G	13		II	1	1.5	10YR 5/4 yellowish brown sand	
5	G	14		I	0	0.95	10YR 3/4 dark yellowish brown sandy loam	
5	G	14		II	0.95	1.35	10YR 5/6 yellowish brown sand	
5	G	18		I	0	0.75	10YR 3/4 dark yellowish brown sandy loam	
5	G	18		II	0.75	1.15	10YR 5/6 yellowish brown sand	
5	H	1		I	0	0.9	10YR 4/3 brown sandy loam	modern glass discarded
5	H	1		II	0.9	1.3	10YR 6/4 light yellowish brown sandy loam	
5	H	2		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
5	H	2		II	0.9	1.4	10YR 5/6 yellowish brown sandy loam	
5	H	3		I	0	0.9	10YR 4/3 brown sandy loam	
5	H	3		II	0.9	1.3	10YR 6/4 light yellowish brown sandy loam	
5	H	4		I	0	1	10YR 4/4 dark yellowish brown sandy loam	
5	H	4		II	1	1.5	10YR 5/6 yellowish brown sandy loam	
5	H	5		I	0	0.85	10YR 4/3 brown sandy loam	
5	H	5		II	0.85	1.3	10YR 6/4 light yellowish brown sandy loam	
5	H	6		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	coal discarded
5	H	6		II	0.9	1.4	10YR 5/6 yellowish brown sandy loam	
5	H	7		I	0	0.9	10YR 4/3 brown sandy loam	
5	H	7		II	0.9	1.3	10YR 6/4 light yellowish brown sandy loam	
5	H	8		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
5	H	8		II	0.9	1.4	10YR 5/6 yellowish brown sandy loam	
5	H	9		I	0	1	10YR 4/4 dark yellowish brown sandy loam	
5	H	9		II	1	1.5	10YR 5/6 yellowish brown sandy loam	
5	H	10		I	0	0.9	10YR 4/3 brown sandy loam	
5	H	10		II	0.9	1.3	10YR 6/4 light yellowish brown sandy loam	
5	H	11		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
5	H	11		II	0.9	1.4	10YR 5/6 yellowish brown sandy loam	
5	H	12		I	0	0.8	10YR 4/3 brown sandy loam	
5	H	12		II	0.8	1.2	10YR 6/4 light yellowish brown sandy loam	
5	H	13		I	0	1	10YR 4/4 dark yellowish brown sandy loam	
5	H	13		II	1	1.5	10YR 5/6 yellowish brown sandy loam	
5	H	14		I	0	1	10YR 4/4 dark yellowish brown sandy loam	
5	H	14		II	1	1.5	10YR 5/6 yellowish brown sandy loam	
5	H	15		I	0	0.9	10YR 4/3 brown sandy loam	
5	H	15		II	0.9	1.3	10YR 6/4 light yellowish brown sandy loam	

Area	Transect	STP	Radial	Level	Start Depth (ft.)	End Depth (ft.)	Soil Description	Comments
5	H	16		I	0	0.85	10YR 4/3 brown sandy loam	
5	H	16		II	0.85	1.25	10YR 6/4 light yellowish brown sandy loam	
5	H	17	East	I	0	0.7	10YR 4/4 dark yellowish brown sandy loam	
5	H	17	East	II	0.7	1.1	10YR 5/6 yellowish brown sandy loam	
5	H	17	North	I	0	0.8	10YR 4/4 dark yellowish brown sandy loam	
5	H	17	North	II	0.8	1.3	10YR 5/6 yellowish brown sandy loam	
5	H	17	South	I	0	1	10YR 4/4 dark yellowish brown sandy loam	
5	H	17	South	II	1	1.5	10YR 5/6 yellowish brown sandy loam	
5	H	17	West				NOT EXCAVATED	in road
5	H	17		I	0	1	10YR 4/4 dark yellowish brown sandy loam	
5	H	17		II	1	1.5	10YR 5/6 yellowish brown sandy loam	
5	I	1		I	0	1	10YR 4/3 brown sandy loam	
5	I	1		II	1	1.5	10YR 6/4 light yellowish brown sand	
5	I	2		I	0	1	10YR 4/3 brown sandy loam	
5	I	2		II	1	1.5	10YR 6/4 light yellowish brown sand	
5	I	3		I	0	1	10YR 4/3 brown sandy loam	
5	I	3		II	1	1.5	10YR 6/4 light yellowish brown sand	
5	I	4		I	0	1	10YR 4/3 brown sandy loam	
5	I	4		II	1	1.5	10YR 6/4 light yellowish brown sand	
5	I	5		I	0	1	10YR 4/3 brown sandy loam	
5	I	5		II	1	1.5	10YR 6/4 light yellowish brown sand	
5	I	6		I	0	1	10YR 4/3 brown sandy loam	
5	I	6		II	1	1.5	10YR 6/4 light yellowish brown sand	
5	I	7		I	0	1	10YR 4/3 brown sandy loam	
5	I	7		II	1	1.5	10YR 6/4 light yellowish brown sand	
5	I	8		I	0	1	10YR 4/3 brown sandy loam	
5	I	8		II	1	1.5	10YR 6/4 light yellowish brown sand	
5	I	9		I	0	1	10YR 4/3 brown sandy loam	
5	I	9		II	1	1.5	10YR 6/4 light yellowish brown sand	
5	I	10		I	0	1	10YR 4/3 brown sandy loam	
5	I	10		II	1	2	10YR 6/4 light yellowish brown sand	
5	I	11		I	0	1	10YR 4/3 brown sandy loam	
5	I	11		II	1	2	10YR 6/4 light yellowish brown sand	
5	I	12		I	0	1	10YR 4/3 brown sandy loam	
5	I	12		II	1	2	10YR 6/4 light yellowish brown sand	
5	I	13		I	0	1	10YR 4/3 brown sandy loam	
5	I	13		II	1	1.5	10YR 6/4 light yellowish brown sand	
5	I	14		I	0	1	10YR 4/3 brown sandy loam	
5	I	14		II	1	1.4	10YR 6/4 light yellowish brown sand	
5	I	15		I	0	1	10YR 4/3 brown sandy loam	
5	I	15		II	1	1.5	10YR 6/4 light yellowish brown sand	
5	I	16		I	0	1	10YR 4/3 brown sandy loam	
5	I	16		II	1	1.5	10YR 6/4 light yellowish brown sand	
5	I	17		I	0	1	10YR 4/3 brown sandy loam	
5	I	17		II	1	1.5	10YR 6/4 light yellowish brown sand	
5	I	18		I	0	1	10YR 4/3 brown sandy loam	
5	I	18		II	1	1.5	10YR 6/4 light yellowish brown sand	
5	I	19		I	0	1	10YR 4/3 brown sandy loam	
5	I	19		II	1	1.5	10YR 6/4 light yellowish brown sand	

Area	Transect	STP	Radial	Level	Start Depth (ft.)	End Depth (ft.)	Soil Description	Comments
5	I	20					NOT EXCAVATED	disturbed road
5	J	1		I	0	1.1	10YR 4/3 brown sandy loam	
5	J	1		II	1.1	1.6	10YR 5/6 yellowish brown sandy loam	
5	J	2		I	0	1.1	10YR 4/3 brown sandy loam	
5	J	2		II	1.1	1.6	10YR 5/6 yellowish brown sandy loam	
5	J	3		I	0	1.1	10YR 4/3 brown sandy loam	
5	J	3		II	1.1	1.6	10YR 5/6 yellowish brown sandy loam	
5	J	4		I	0	1	10YR 4/3 brown sandy loam	
5	J	4		II	1	1.6	10YR 5/6 yellowish brown sandy loam	
5	J	5		I	0	0.9	10YR 4/3 brown sandy loam	
5	J	5		II	0.9	1.4	10YR 5/6 yellowish brown sandy loam	
5	J	6		I	0	1	10YR 4/3 brown sandy loam	
5	J	6		II	1	1.5	10YR 5/6 yellowish brown sandy loam	
5	J	7		I	0	1	10YR 4/3 brown sandy loam	
5	J	7		II	1	1.5	10YR 5/6 yellowish brown sandy loam	
5	J	8		I	0	1	10YR 4/3 brown sandy loam	
5	J	8		II	1	1.5	10YR 5/6 yellowish brown sandy loam	
5	J	9		I	0	1	10YR 4/3 brown sandy loam	
5	J	9		II	1	1.5	10YR 5/6 yellowish brown sandy loam	
5	J	10		I	0	1	10YR 4/3 brown sandy loam	
5	J	10		II	1	1.5	10YR 5/6 yellowish brown sandy loam	
5	J	11		I	0	0.9	10YR 4/3 brown sandy loam	
5	J	11		II	0.9	1.4	10YR 5/6 yellowish brown sandy loam	
5	J	12		I	0	0.9	10YR 4/3 brown sandy loam	
5	J	12		II	0.9	1.4	10YR 5/6 yellowish brown sandy loam	
5	J	13		I	0	1	10YR 4/3 brown sandy loam	
5	J	13		II	1	1.4	10YR 5/6 yellowish brown sandy loam	
5	J	14		I	0	1	10YR 4/3 brown sandy loam	
5	J	14		II	1	1.4	10YR 5/6 yellowish brown sandy loam	
5	J	15		I	0	1	10YR 4/3 brown sandy loam	
5	J	15		II	1	1.5	10YR 5/6 yellowish brown sandy loam	
5	J	16		I	0	1	10YR 4/3 brown sandy loam	
5	J	16		II	1	1.5	10YR 5/6 yellowish brown sandy loam	
5	J	17		I	0	1	10YR 4/3 brown sandy loam	
5	J	17		II	1	1.5	10YR 5/6 yellowish brown sandy loam	
5	J	18		I	0	1	10YR 4/3 brown sandy loam	
5	J	18		II	1	1.5	10YR 5/6 yellowish brown sandy loam	
5	J	19		I	0	1	10YR 4/3 brown sandy loam	
5	J	19		II	1	1.5	10YR 5/6 yellowish brown sandy loam	
5	J	20		I	0	1	10YR 4/3 brown sandy loam	
5	J	20		II	1	1.5	10YR 5/6 yellowish brown sandy loam	
5	J	21		I	0	1	10YR 4/3 brown sandy loam	
5	J	21		II	1	1.5	10YR 5/6 yellowish brown sandy loam	
5	J	22					NOT EXCAVATED	road
5	JM	1		I	0	0.9	10YR 4/3 brown sandy loam	located at surface brick - 15' west of 5-J-6
5	JM	1		II	0.9	1.5	10YR 6/4 light yellowish brown sand	
5	JM	4		I	0	0.9	10YR 4/3 brown sandy loam	radial around brick
5	JM	4		II	0.9	1.3	10YR 6/4 light yellowish brown sand	

Area	Transect	STP	Radial	Level	Start Depth (ft.)	End Depth (ft.)	Soil Description	Comments
5	JM	5		I	0	0.9	10YR 4/3 brown sandy loam	radial around brick
5	JM	5		II	0.9	1.3	10YR 6/4 light yellowish brown sand	
5	K	1		I	0	0.8	10YR 4/3 brown sandy loam	
5	K	1		II	0.8	1.5	10YR 6/4 light yellowish brown sand	
5	K	2		I	0	0.9	10YR 4/3 brown sandy loam	
5	K	2		II	0.9	1.5	10YR 6/4 light yellowish brown sand	
5	K	3		I	0	1	10YR 4/3 brown sandy loam	
5	K	3		II	1	1.4	10YR 6/4 light yellowish brown sand	
5	K	4		I	0	1	10YR 4/3 brown sandy loam	
5	K	4		II	1	1.5	10YR 6/4 light yellowish brown sand	
5	K	5		I	0	1	10YR 4/3 brown sandy loam	
5	K	5		II	1	1.5	10YR 6/4 light yellowish brown sand	
5	K	6		I	0	1	10YR 4/3 brown sandy loam	
5	K	6		II	1	1.5	10YR 6/4 light yellowish brown sand	
5	K	7		I	0	1	10YR 4/3 brown sandy loam	
5	K	7		II	1	1.5	10YR 6/4 light yellowish brown sand	
5	K	8		I	0	1	10YR 4/3 brown sandy loam	
5	K	8		II	1	1.5	10YR 6/4 light yellowish brown sand	
5	K	9		I	0	1	10YR 4/3 brown sandy loam	
5	K	9		II	1	1.5	10YR 6/4 light yellowish brown sand	
5	K	10		I	0	1	10YR 4/3 brown sandy loam	
5	K	10		II	1	1.5	10YR 6/4 light yellowish brown sand	
5	K	11		I	0	1	10YR 4/3 brown sandy loam	
5	K	11		II	1	1.5	10YR 6/4 light yellowish brown sand	
5	K	12		I	0	1	10YR 4/3 brown sandy loam	
5	K	12		II	1	1.5	10YR 6/4 light yellowish brown sand	
5	K	13		I	0	1	10YR 4/3 brown sandy loam	
5	K	13		II	1	1.5	10YR 6/4 light yellowish brown sand	
5	K	14		I	0	1	10YR 4/3 brown sandy loam	
5	K	14		II	1	1.5	10YR 6/4 light yellowish brown sand	
5	K	15		I	0	1	10YR 4/3 brown sandy loam	
5	K	15		II	1	1.5	10YR 6/4 light yellowish brown sand	
5	K	16		I	0	1	10YR 4/3 brown sandy loam	
5	K	16		II	1	1.5	10YR 6/4 light yellowish brown sand	
5	K	17		I	0	1	10YR 4/3 brown sandy loam	
5	K	17		II	1	1.5	10YR 6/4 light yellowish brown sand	
5	K	18		I	0	1	10YR 4/3 brown sandy loam	
5	K	18		II	1	1.5	10YR 6/4 light yellowish brown sand	
5	K	19		I	0	1.2	10YR 4/3 brown sandy loam	
5	K	19		II	1.2	1.6	10YR 6/4 light yellowish brown sand	
5	K	20		I	0	1	10YR 4/3 brown sandy loam	
5	K	20		II	1	1.5	10YR 6/4 light yellowish brown sand	
5	K	21		I	0	1	10YR 4/3 brown sandy loam	
5	K	21		II	1	1.4	10YR 6/4 light yellowish brown sand	
5	K	22		I	0	1	10YR 4/3 brown sandy loam	
5	K	22		II	1	1.5	10YR 6/4 light yellowish brown sand	
5	K	23		I	0	1	10YR 4/3 brown sandy loam	
5	K	23		II	1	1.5	10YR 6/4 light yellowish brown sand	
5	K	24		I	0	1	10YR 4/3 brown sandy loam	

Area	Transect	STP	Radial	Level	Start Depth (ft.)	End Depth (ft.)	Soil Description	Comments
5	K	24		II	1	1.6	10YR 6/4 light yellowish brown sand	
5	L	1		I	0	0.7	10YR 4/3 brown sandy loam	
5	L	1		II	0.7	1.1	10YR 6/4 light yellowish brown sand	
5	L	2		I	0	0.5	10YR 4/3 brown sandy loam	
5	L	2		II	0.5	0.9	10YR 6/4 light yellowish brown sand	
5	L	3		I	0	0.7	10YR 4/3 brown sandy loam	
5	L	3		II	0.7	1.2	10YR 6/4 light yellowish brown sand	
5	L	4		I	0	0.6	10YR 4/3 brown sandy loam	
5	L	4		II	0.6	1	10YR 6/4 light yellowish brown sand	
5	L	5		I	0	0.8	10YR 4/3 brown sandy loam	
5	L	5		II	0.8	1.2	10YR 6/4 light yellowish brown sand	
5	L	6		I	0	1	10YR 4/3 brown sandy loam	
5	L	6		II	1	1.4	10YR 6/4 light yellowish brown sand	
5	L	7		I	0	1.1	10YR 4/3 brown sandy loam	
5	L	7		II	1.1	1.5	10YR 5/4 yellowish brown sand	
5	L	8		I	0	0.8	10YR 4/3 brown sandy loam	
5	L	8		II	0.8	1.2	10YR 5/4 yellowish brown sand	
5	L	9		I	0	0.6	10YR 4/3 brown sandy loam	
5	L	9		II	0.6	1	10YR 5/4 yellowish brown sand	
5	L	10		I	0	0.5	10YR 4/3 brown sandy loam	
5	L	10		II	0.5	0.9	10YR 5/4 yellowish brown sand	
5	L	11		I	0	0.9	10YR 4/3 brown sandy loam	
5	L	11		II	0.9	1.3	10YR 5/4 yellowish brown sand	
5	L	12		I	0	0.8	10YR 4/3 brown sandy loam	
5	L	12		II	0.8	1.3	10YR 5/4 yellowish brown sand	
5	L	13		I	0	0.7	10YR 4/3 brown sandy loam	
5	L	13		II	0.7	1.2	10YR 6/2 light brownish gray with 10YR 5/6 yellowish brown sand	
5	L	14		I	0	0.8	10YR 4/3 brown sandy loam	
5	L	14		II	0.8	1.2	10YR 5/4 yellowish brown sand	
5	L	15		I	0	1	10YR 4/3 brown sandy loam	
5	L	15		II	1	1.4	10YR 5/4 yellowish brown sand	
5	L	16		I	0	1.1	10YR 4/3 brown sandy loam	
5	L	16		II	1.1	1.5	10YR 5/4 yellowish brown sand	
5	L	17		I	0	0.6	10YR 4/3 brown sandy loam	
5	L	17		II	0.6	1.1	10YR 5/4 yellowish brown sand	
5	L	18		I	0	0.7	10YR 4/3 brown sandy loam	
5	L	18		II	0.7	1.1	10YR 5/4 yellowish brown sand	
5	L	19		I	0	0.7	10YR 4/3 brown sandy loam	
5	L	19		II	0.7	1.2	10YR 6/4 light yellowish brown sand	
5	L	20		I	0	0.5	10YR 4/3 brown sandy loam	
5	L	20		II	0.5	0.9	10YR 5/4 yellowish brown sand	
5	L	21		I	0	0.7	10YR 4/3 brown sandy loam	
5	L	21		II	0.7	1.1	10YR 5/4 yellowish brown sand	
5	L	22		I	0	0.9	10YR 4/3 brown sandy loam	
5	L	22		II	0.9	1.3	10YR 6/4 light yellowish brown sand	
5	L	23		I	0	0.7	10YR 4/3 brown sandy loam	
5	L	23		II	0.7	1.1	10YR 5/4 yellowish brown sand	
5	L	24		I	0	0.6	10YR 4/3 brown sandy loam	
5	L	24		II	0.6	1	10YR 5/4 yellowish brown sand	

Area	Transect	STP	Radial	Level	Start Depth (ft.)	End Depth (ft.)	Soil Description	Comments
5	L	25		I	0	1.1	10YR 4/3 brown sandy loam	EOT
5	L	25		II	1.1	1.5	10YR 5/4 yellowish brown sand	
5	M	1	East	I	0	0.95	10YR 3/4 dark yellowish brown sandy loam	
5	M	1	East	II	0.95	1.35	10YR 5/6 yellowish brown sand	
5	M	1	North	I	0	0.9	10YR 3/4 dark yellowish brown sandy loam	
5	M	1	North	II	0.9	1.3	10YR 5/6 yellowish brown sand	
5	M	1	South	I	0	1	10YR 3/4 dark yellowish brown sandy loam	
5	M	1	South	II	1	1.4	10YR 5/6 yellowish brown sand	
5	M	1		I	0	0.8	10YR 4/3 brown sandy loam	
5	M	1		II	0.8	1.2	10YR 6/4 light yellowish brown sandy loam	
5	M	2		I	0	0.9	10YR 4/3 brown sandy loam	
5	M	2		II	0.9	1.3	10YR 6/4 light yellowish brown sandy loam	
5	M	3		I	0	1.1	10YR 4/3 brown sandy loam	
5	M	3		II	1.1	1.5	10YR 6/4 light yellowish brown sandy loam	
5	M	4		I	0	0.9	10YR 4/3 brown sandy loam	
5	M	4		II	0.9	1.3	10YR 6/4 light yellowish brown sandy loam	
5	M	5		I	0	0.8	10YR 4/3 brown sandy loam	
5	M	5		II	0.8	1.2	10YR 6/4 light yellowish brown sandy loam	
5	M	6		I	0	0.7	10YR 4/3 brown sandy loam	
5	M	6		II	0.7	1.1	10YR 6/4 light yellowish brown sandy loam	
5	M	7		I	0	0.8	10YR 4/3 brown sandy loam	
5	M	7		II	0.8	1.2	10YR 6/4 light yellowish brown sandy loam	
5	M	8		I	0	0.9	10YR 4/3 brown sandy loam	
5	M	8		II	0.9	1.3	10YR 6/4 light yellowish brown sandy loam	
5	M	9		I	0	0.9	10YR 4/3 brown sandy loam	
5	M	9		II	0.9	1.3	10YR 6/4 light yellowish brown sandy loam	
5	M	10		I	0	1	10YR 4/3 brown sandy loam	
5	M	10		II	1	1.4	10YR 6/4 light yellowish brown sandy loam	
5	M	11		I	0	1	10YR 4/3 brown sandy loam	
5	M	11		II	1	1.4	10YR 6/4 light yellowish brown sandy loam	
5	M	12		I	0	1	10YR 4/3 brown sandy loam	
5	M	12		II	1	1.4	10YR 6/4 light yellowish brown sandy loam	
5	M	13		I	0	0.9	10YR 4/3 brown sandy loam	
5	M	13		II	0.9	1.3	10YR 6/4 light yellowish brown sandy loam	
5	M	14		I	0	0.9	10YR 4/3 brown sandy loam	
5	M	14		II	0.9	1.3	10YR 6/4 light yellowish brown sandy loam	
5	M	15	East	I	0	1	10YR 4/3 brown sandy loam	
5	M	15	East	II	1	1.5	10YR 5/6 yellowish brown sandy loam	
5	M	15	North	I	0	0.9	10YR 4/3 brown sandy loam	
5	M	15	North	II	0.9	1.4	10YR 5/6 yellowish brown sandy loam	
5	M	15	South	I	0	1.1	10YR 4/3 brown sandy loam	
5	M	15	South	II	1.1	1.6	10YR 5/6 yellowish brown sandy loam	
5	M	15	West	I	0	0.9	10YR 4/3 brown sandy loam	
5	M	15	West	II	0.9	1.4	10YR 5/6 yellowish brown sandy loam	
5	M	15		I	0	0.75	10YR 4/3 brown sandy loam	
5	M	15		II	0.75	1.2	10YR 6/4 light yellowish brown sandy loam	
5	M	16		I	0	1	10YR 4/3 brown sandy loam	
5	M	16		II	1	1.4	10YR 6/4 light yellowish brown sandy loam	
5	M	17		I	0	1	10YR 4/2 dark grayish brown sandy loam	

Area	Transect	STP	Radial	Level	Start Depth (ft.)	End Depth (ft.)	Soil Description	Comments
5	M	17		II	1	1.4	10YR 6/4 light yellowish brown sandy loam	
5	M	18		I	0	0.9	10YR 4/2 dark grayish brown sandy loam	
5	M	18		II	0.9	1.3	10YR 6/4 light yellowish brown sandy loam	
5	M	19	East	I	0	1	10YR 4/3 brown sandy loam	
5	M	19	East	II	1	1.5	10YR 5/6 yellowish brown sandy loam	
5	M	19	North	I	0	1	10YR 4/3 brown sandy loam	
5	M	19	North	II	1	1.5	10YR 5/6 yellowish brown sandy loam	
5	M	19	South	I	0	1	10YR 4/3 brown sandy loam	
5	M	19	South	II	1	1.5	10YR 5/6 yellowish brown sandy loam	
5	M	19	West	I	0	1	10YR 4/3 brown sandy loam	
5	M	19	West	II	1	1.5	10YR 5/6 yellowish brown sandy loam	
5	M	19		I	0	0.75	10YR 4/3 brown sandy loam	
5	M	19		II	0.75	1.2	10YR 6/4 light yellowish brown sandy loam	
5	M	20		I	0	0.9	10YR 4/3 brown sandy loam	
5	M	20		II	0.9	1.3	10YR 6/4 light yellowish brown sandy loam	
5	M	21		I	0	0.8	10YR 4/3 brown sandy loam	
5	M	21		II	0.8	1.2	10YR 6/4 light yellowish brown sandy loam	
5	M	22		I	0	0.8	10YR 4/3 brown sandy loam	
5	M	22		II	0.8	1.2	10YR 6/4 light yellowish brown sandy loam	
5	M	23		I	0	0.8	10YR 4/3 brown sandy loam	
5	M	23		II	0.8	1.2	10YR 6/4 light yellowish brown sandy loam	
5	M	24		I	0	0.85	10YR 4/3 brown sandy loam	
5	M	24		II	0.85	1.3	10YR 6/4 light yellowish brown sandy loam	
5	M	25	East	I	0	1	10YR 4/3 brown sandy loam	
5	M	25	East	II	1	1.5	10YR 5/6 yellowish brown sandy loam	
5	M	25	North	I	0	0.9	10YR 3/4 dark yellowish brown sandy loam	
5	M	25	North	II	0.9	1.3	10YR 5/6 yellowish brown sand	
5	M	25	South	I	0	1	10YR 4/3 brown sandy loam	
5	M	25	South	II	1	1.5	10YR 5/6 yellowish brown sandy loam	
5	M	25	West	I	0	1	10YR 4/3 brown sandy loam	
5	M	25	West	II	1	1.5	10YR 5/6 yellowish brown sandy loam	
5	M	25		I	0	0.7	10YR 4/3 brown sandy loam	
5	M	25		II	0.7	1.1	10YR 6/4 light yellowish brown sandy loam	
5	M	26		I	0	0.9	10YR 4/3 brown sandy loam	
5	M	26		II	0.9	1.3	2.5Y 7/2 light gray sandy loam	
5	M	27		I	0	0.8	10YR 4/3 brown sandy loam	
5	M	27		II	0.8	1.2	10YR 6/4 light yellowish brown sandy loam	
5	M	28		I	0	0.8	10YR 4/3 brown sandy loam	
5	M	28		II	0.8	1.2	10YR 6/4 light yellowish brown sandy loam	
5	N	1		I	0	1	10YR 4/4 dark yellowish brown sandy loam	
5	N	1		II	1	1.5	10YR 5/6 yellowish brown sandy loam	
5	N	2		I	0	1	10YR 4/4 dark yellowish brown sandy loam	
5	N	2		II	1	1.5	10YR 5/6 yellowish brown sandy loam	
5	N	3		I	0	1	10YR 4/4 dark yellowish brown sandy loam	
5	N	3		II	1	1.5	10YR 5/6 yellowish brown sandy loam	
5	N	4		I	0	1.1	10YR 4/4 dark yellowish brown sandy loam	
5	N	4		II	1.1	1.6	10YR 5/6 yellowish brown sandy loam	
5	N	5		I	0	1	10YR 4/4 dark yellowish brown sandy loam	modern glass discarded
5	N	5		II	1	1.5	10YR 5/6 yellowish brown sandy loam	

Area	Transect	STP	Radial	Level	Start Depth (ft.)	End Depth (ft.)	Soil Description	Comments
5	N	6		I	0	1	10YR 4/4 dark yellowish brown sandy loam	
5	N	6		II	1	1.5	10YR 5/6 yellowish brown sandy loam	
5	N	7		I	0	1	10YR 4/4 dark yellowish brown sandy loam	modern glass discarded
5	N	7		II	1	1.5	10YR 5/6 yellowish brown sandy loam	
5	N	8		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
5	N	8		II	0.9	1.4	10YR 5/6 yellowish brown sandy loam	
5	N	9		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	coal discarded
5	N	9		II	0.9	1.4	10YR 5/6 yellowish brown sandy loam	
5	N	10		I	0	1	10YR 4/4 dark yellowish brown sandy loam	asphalt discarded
5	N	10		II	1	1.5	10YR 5/6 yellowish brown sandy loam	
5	N	11		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
5	N	11		II	0.9	1.4	10YR 5/6 yellowish brown sandy loam	
5	N	12		I	0	1	10YR 4/4 dark yellowish brown sandy loam	
5	N	12		II	1	1.5	10YR 5/6 yellowish brown sandy loam	
5	N	13		I	0	1.1	10YR 4/4 dark yellowish brown sandy loam	
5	N	13		II	1.1	1.6	10YR 5/6 yellowish brown sandy loam	
5	N	14		I	0	1	10YR 4/4 dark yellowish brown sandy loam	
5	N	14		II	1	1.5	10YR 5/6 yellowish brown sandy loam	
5	N	15		I	0	1.1	10YR 4/4 dark yellowish brown sandy loam	
5	N	15		II	1.1	1.6	10YR 5/6 yellowish brown sandy loam	
5	N	16		I	0	1	10YR 4/4 dark yellowish brown sandy loam	
5	N	16		II	1	1.5	10YR 5/6 yellowish brown sandy loam	
5	N	17		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
5	N	17		II	0.9	1.4	10YR 5/6 yellowish brown sandy loam	
5	N	18		I	0	1	10YR 4/4 dark yellowish brown sandy loam	coal discarded
5	N	18		II	1	1.5	10YR 5/6 yellowish brown sandy loam	
5	N	19		I	0	1	10YR 4/4 dark yellowish brown sandy loam	
5	N	19		II	1	1.5	10YR 5/6 yellowish brown sandy loam	
5	N	20		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
5	N	20		II	0.9	1.4	10YR 5/6 yellowish brown sandy loam	
5	N	21		I	0	1	10YR 4/4 dark yellowish brown sandy loam	
5	N	21		II	1	1.5	10YR 5/6 yellowish brown sandy loam	
5	N	22		I	0	1	10YR 4/4 dark yellowish brown sandy loam	
5	N	22		II	1	1.5	10YR 5/6 yellowish brown sandy loam	
5	N	23		I	0	1.1	10YR 4/4 dark yellowish brown sandy loam	
5	N	23		II	1.1	1.6	10YR 5/6 yellowish brown sandy loam	
5	N	24		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
5	N	24		II	0.9	1.4	10YR 5/6 yellowish brown sandy loam	
5	N	25		I	0	1	10YR 4/4 dark yellowish brown sandy loam	
5	N	25		II	1	1.5	10YR 5/6 yellowish brown sandy loam	
5	N	26		I	0	1	10YR 4/4 dark yellowish brown sandy loam	
5	N	26		II	1	1.5	10YR 5/6 yellowish brown sandy loam	
5	N	27		I	0	1	10YR 4/4 dark yellowish brown sandy loam	
5	N	27		II	1	1.5	10YR 5/6 yellowish brown sandy loam	
5	N	28		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
5	N	28		II	0.9	1.4	10YR 5/6 yellowish brown sandy loam	
5	O	1		I	0	1	10YR 4/3 brown sandy loam	
5	O	1		II	1	1.5	10YR 5/6 yellowish brown sandy loam	
5	O	2		I	0	0.9	10YR 4/3 brown sandy loam	

Area	Transect	STP	Radial	Level	Start Depth (ft.)	End Depth (ft.)	Soil Description	Comments
5	O	2		II	0.9	1.4	10YR 5/6 yellowish brown sandy loam	
5	O	3		I	0	0.9	10YR 4/3 brown sandy loam	
5	O	3		II	0.9	1.4	10YR 5/6 yellowish brown sandy loam	
5	O	4		I	0	0.9	10YR 4/3 brown sandy loam	
5	O	4		II	0.9	1.4	10YR 5/6 yellowish brown sandy loam	
5	O	5		I	0	1.1	10YR 4/3 brown sandy loam	
5	O	5		II	1.1	1.6	10YR 5/6 yellowish brown sandy loam	
5	O	6		I	0	1	10YR 4/3 brown sandy loam	
5	O	6		II	1	1.5	10YR 5/6 yellowish brown sandy loam	
5	O	7		I	0	1	10YR 4/3 brown sandy loam	
5	O	7		II	1	1.5	10YR 5/6 yellowish brown sandy loam	
5	O	8		I	0	1	10YR 4/3 brown sandy loam	
5	O	8		II	1	1.5	10YR 5/6 yellowish brown sandy loam	
5	O	9		I	0	1	10YR 4/3 brown sandy loam	
5	O	9		II	1	1.5	10YR 5/6 yellowish brown sandy loam	
5	O	10		I	0	1	10YR 4/3 brown sandy loam	
5	O	10		II	1	1.5	10YR 5/6 yellowish brown sandy loam	
5	O	11		I	0	1	10YR 4/3 brown sandy loam	
5	O	11		II	1	1.5	10YR 5/6 yellowish brown sandy loam	
5	O	12		I	0	1	10YR 4/3 brown sandy loam	
5	O	12		II	1	1.5	10YR 5/6 yellowish brown sandy loam	
5	O	13		I	0	1	10YR 4/3 brown sandy loam	
5	O	13		II	1	1.5	10YR 5/6 yellowish brown sandy loam	
5	O	14		I	0	1	10YR 4/3 brown sandy loam	
5	O	14		II	1	1.5	10YR 5/6 yellowish brown sandy loam	
5	O	15		I	0	1	10YR 4/3 brown sandy loam	
5	O	15		II	1	1.5	10YR 5/6 yellowish brown sandy loam	
5	O	16		I	0	1	10YR 4/3 brown sandy loam	
5	O	16		II	1	1.5	10YR 5/6 yellowish brown sandy loam	
5	O	17		I	0	1	10YR 4/3 brown sandy loam	
5	O	17		II	1	1.5	10YR 5/6 yellowish brown sandy loam	
5	O	18		I	0	1	10YR 4/3 brown sandy loam	
5	O	18		II	1	1.5	10YR 5/6 yellowish brown sandy loam	
5	O	19		I	0	1	10YR 4/3 brown sandy loam	
5	O	19		II	1	1.4	10YR 5/6 yellowish brown sandy loam	
5	O	20		I	0	1	10YR 4/3 brown sandy loam	
5	O	20		II	1	1.6	10YR 5/6 yellowish brown sandy loam	
5	O	21		I	0	0.9	10YR 4/3 brown sandy loam	
5	O	21		II	0.9	1.4	10YR 5/6 yellowish brown sandy loam	
5	O	22		I	0	1	10YR 4/3 brown sandy loam	
5	O	22		II	1	1.5	10YR 5/6 yellowish brown sandy loam	
5	O	23		I	0	1	10YR 4/3 brown sandy loam	
5	O	23		II	1	1.5	10YR 5/6 yellowish brown sandy loam	
5	O	24		I	0	1.1	10YR 4/3 brown sandy loam	
5	O	24		II	1.1	1.7	10YR 5/6 yellowish brown sandy loam	
5	O	25		I	0	1	10YR 4/3 brown sandy loam	
5	O	25		II	1	1.5	10YR 5/6 yellowish brown sandy loam	
5	O	26		I	0	1	10YR 4/3 brown sandy loam	
5	O	26		II	1	1.6	10YR 5/6 yellowish brown sandy loam	

Area	Transect	STP	Radial	Level	Start Depth (ft.)	End Depth (ft.)	Soil Description	Comments
5	O	27		I	0	1	10YR 4/3 brown sandy loam	
5	O	27		II	1	1.5	10YR 5/6 yellowish brown sandy loam	
5	O	28		I	0	1	10YR 4/3 brown sandy loam	
5	O	28		II	1	1.5	10YR 5/6 yellowish brown sandy loam	
5	P	1		I	0	1	10YR 3/4 dark yellowish brown sandy loam	
5	P	1		II	1	1.4	10YR 5/6 yellowish brown sand	
5	P	2		I	0	0.8	10YR 3/4 dark yellowish brown sandy loam	
5	P	2		II	0.8	1.2	10YR 5/6 yellowish brown sand	
5	P	3		I	0	1.1	10YR 3/4 dark yellowish brown sandy loam	
5	P	3		II	1.1	1.5	10YR 5/6 yellowish brown sand	
5	P	4		I	0	0.75	10YR 3/4 dark yellowish brown sandy loam	
5	P	4		II	0.75	1.15	10YR 5/6 yellowish brown sand	
5	P	5		I	0	0.9	10YR 3/4 dark yellowish brown sandy loam	
5	P	5		II	0.9	1.3	10YR 5/6 yellowish brown sand	
5	P	6		I	0	0.85	10YR 3/4 dark yellowish brown sandy loam	
5	P	6		II	0.85	1.25	10YR 5/6 yellowish brown sand	
5	P	7		I	0	0.8	10YR 3/4 dark yellowish brown sandy loam	
5	P	7		II	0.8	1.2	10YR 5/6 yellowish brown sand	
5	P	8		I	0	0.75	10YR 3/4 dark yellowish brown sandy loam	
5	P	8		II	0.75	1.15	10YR 5/6 yellowish brown sand	
5	P	9		I	0	1	10YR 3/4 dark yellowish brown sandy loam	
5	P	9		II	1	1.4	10YR 5/6 yellowish brown sand	
5	P	10		I	0	0.95	10YR 3/4 dark yellowish brown sandy loam	
5	P	10		II	0.95	1.35	10YR 5/6 yellowish brown sand	
5	P	11		I	0	1.1	10YR 3/4 dark yellowish brown sandy loam	
5	P	11		II	1.1	1.5	10YR 5/6 yellowish brown sand	
5	P	12		I	0	0.7	10YR 3/4 dark yellowish brown sandy loam	
5	P	12		II	0.7	1.2	10YR 5/6 yellowish brown sand	
5	P	13	East	I	0	1	10YR 4/3 brown sandy loam	
5	P	13	East	II	1	1.4	10YR 6/4 light yellowish brown sandy loam	
5	P	13	North	I	0	1	10YR 4/3 brown sandy loam	
5	P	13	North	II	1	1.4	10YR 6/4 light yellowish brown sandy loam	
5	P	13	South	I	0	1	10YR 4/3 brown sandy loam	
5	P	13	South	II	1	1.4	10YR 5/8 yellowish brown sandy loam	
5	P	13	West	I	0	0.9	10YR 4/3 brown sandy loam	
5	P	13	West	II	0.9	1.3	10YR 6/4 light yellowish brown sandy loam	
5	P	13		I	0	0.9	10YR 3/4 dark yellowish brown sandy loam	
5	P	13		II	0.9	1.4	10YR 5/6 yellowish brown sand	
5	P	14		I	0	0.95	10YR 3/4 dark yellowish brown sandy loam	
5	P	14		II	0.95	1.35	10YR 5/6 yellowish brown sand	
5	P	15		I	0	1	10YR 3/4 dark yellowish brown sandy loam	
5	P	15		II	1	1.4	10YR 5/6 yellowish brown sand	
5	P	16		I	0	0.95	10YR 3/4 dark yellowish brown sandy loam	
5	P	16		II	0.95	1.35	10YR 5/6 yellowish brown sand	
5	P	17		I	0	1	10YR 3/4 dark yellowish brown sandy loam	
5	P	17		II	1	1.4	10YR 5/6 yellowish brown sand	
5	P	18		I	0	0.7	10YR 3/4 dark yellowish brown sandy loam	
5	P	18		II	0.7	1.1	10YR 5/6 yellowish brown sand	
5	P	19		I	0	0.85	10YR 3/4 dark yellowish brown sandy loam	

Area	Transect	STP	Radial	Level	Start Depth (ft.)	End Depth (ft.)	Soil Description	Comments
5	P	19		II	0.85	1.25	10YR 5/6 yellowish brown sand	
5	P	20		I	0	0.8	10YR 3/4 dark yellowish brown sandy loam	
5	P	20		II	0.8	1.2	10YR 5/6 yellowish brown sand	
5	P	21		I	0	0.9	10YR 3/4 dark yellowish brown sandy loam	
5	P	21		II	0.9	1.3	10YR 5/6 yellowish brown sand	
5	P	22		I	0	0.8	10YR 3/4 dark yellowish brown sandy loam	
5	P	22		II	0.8	1.2	10YR 5/6 yellowish brown sand	
5	P	23		I	0	0.9	10YR 3/4 dark yellowish brown sandy loam	
5	P	23		II	0.9	1.3	10YR 5/6 yellowish brown sand	
5	P	24		I	0	0.7	10YR 3/4 dark yellowish brown sandy loam	
5	P	24		II	0.7	1.1	10YR 5/6 yellowish brown sand	
5	P	25		I	0	0.8	10YR 3/4 dark yellowish brown sandy loam	
5	P	25		II	0.8	1.2	10YR 5/6 yellowish brown sand	
5	P	26		I	0	0.9	10YR 3/4 dark yellowish brown sandy loam	
5	P	26		II	0.9	1.3	10YR 5/6 yellowish brown sand	
5	P	27		I	0	0.85	10YR 3/4 dark yellowish brown sandy loam	
5	P	27		II	0.85	1.25	10YR 5/6 yellowish brown sand	
5	Q	1		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
5	Q	1		II	0.9	1.2	10YR 6/4 light yellowish brown sandy loam	
5	Q	2		I	0	0.95	10YR 4/4 dark yellowish brown sandy loam	
5	Q	2		II	0.95	1.35	10YR 6/4 light yellowish brown sandy loam	
5	Q	3		I	0	0.8	10YR 4/4 dark yellowish brown sandy loam	
5	Q	3		II	0.8	1.2	10YR 6/4 light yellowish brown sandy loam	
5	Q	4		I	0	0.8	10YR 4/4 dark yellowish brown sandy loam	
5	Q	4		II	0.8	1.2	10YR 6/4 light yellowish brown sandy loam	
5	Q	5		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
5	Q	5		II	0.9	1.3	10YR 6/4 light yellowish brown sandy loam	
5	Q	6		I	0	0.8	10YR 4/4 dark yellowish brown sandy loam	
5	Q	6		II	0.8	1.2	10YR 6/4 light yellowish brown sandy loam	
5	Q	7		I	0	1	10YR 4/4 dark yellowish brown sandy loam	
5	Q	7		II	1	1.4	10YR 6/4 light yellowish brown sandy loam	
5	Q	8		I	0	0.8	10YR 4/4 dark yellowish brown sandy loam	
5	Q	8		II	0.8	1.2	10YR 6/4 light yellowish brown sandy loam	
5	Q	9		I	0	0.8	10YR 4/4 dark yellowish brown sandy loam	
5	Q	9		II	0.8	1.2	10YR 6/4 light yellowish brown sandy loam	
5	Q	10		I	0	0.8	10YR 4/4 dark yellowish brown sandy loam	
5	Q	10		II	0.8	1.2	10YR 6/4 light yellowish brown sandy loam	
5	Q	11		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
5	Q	11		II	0.9	1.3	10YR 6/4 light yellowish brown sandy loam	
5	Q	12		I	0	0.8	10YR 4/4 dark yellowish brown sandy loam	
5	Q	12		II	0.8	1.2	10YR 6/4 light yellowish brown sandy loam	
5	Q	13		I	0	0.8	10YR 4/3 brown sandy loam	
5	Q	13		II	0.8	1.2	10YR 6/4 light yellowish brown sandy loam	
5	Q	14		I	0	0.9	10YR 4/3 brown sandy loam	
5	Q	14		II	0.9	1.3	10YR 6/4 light yellowish brown sandy loam	
5	Q	15		I	0	0.9	10YR 4/3 brown sandy loam	
5	Q	15		II	0.9	1.3	10YR 6/4 light yellowish brown sandy loam	
5	Q	16		I	0	1	10YR 4/2 dark grayish brown sandy loam	
5	Q	16		II	1	1.4	2.5Y 6/4 light yellowish brown sandy loam	

Area	Transect	STP	Radial	Level	Start Depth (ft.)	End Depth (ft.)	Soil Description	Comments
5	Q	17		I	0	1	10YR 4/2 dark grayish brown sandy loam	
5	Q	17		II	1	1.4	10YR 6/4 light yellowish brown sandy loam	
5	Q	18		I	0	0.85	10YR 4/2 dark grayish brown sandy loam	
5	Q	18		II	0.85	1.3	10YR 6/4 light yellowish brown sandy loam	
5	Q	19		I	0	0.9	10YR 4/3 brown sandy loam	
5	Q	19		II	0.9	1.3	10YR 6/4 light yellowish brown sandy loam	
5	Q	20		I	0	1.1	10YR 4/2 dark grayish brown sandy loam	
5	Q	20		II	1.1	1.5	10YR 6/4 light yellowish brown sandy loam	
5	Q	21		I	0	0.9	10YR 4/3 brown sandy loam	
5	Q	21		II	0.9	1.3	10YR 6/4 light yellowish brown sandy loam	
5	Q	22		I	0	0.95	10YR 4/3 brown sandy loam	
5	Q	22		II	0.95	1.4	10YR 6/4 light yellowish brown sandy loam	
5	Q	23		I	0	0.9	10YR 4/3 brown sandy loam	
5	Q	23		II	0.9	1.3	10YR 6/4 light yellowish brown sandy loam	
5	Q	24		I	0	0.9	10YR 4/3 brown sandy loam	
5	Q	24		II	0.9	1.3	10YR 6/4 light yellowish brown sandy loam	
5	Q	25		I	0	1	10YR 4/3 brown sandy loam	
5	Q	25		II	1	1.5	10YR 5/6 yellowish brown sandy loam	
5	Q	26		I	0	1	10YR 4/3 brown sandy loam	
5	Q	26		II	1	1.5	10YR 5/6 yellowish brown sandy loam	
5	Q	27		I	0	1	10YR 4/3 brown sandy loam	
5	Q	27		II	1	1.5	10YR 5/6 yellowish brown sandy loam	
5	R	1		I	0	0.9	10YR 4/3 brown sandy loam	
5	R	1		II	0.9	1.3	10YR 5/6 yellowish brown sandy loam	
5	R	2		I	0	0.9	10YR 4/3 brown sandy loam	
5	R	2		II	0.9	1.3	10YR 5/6 yellowish brown sandy loam	
5	R	3		I	0	1	10YR 4/3 brown sandy loam	
5	R	3		II	1	1.4	10YR 5/6 yellowish brown sandy loam	
5	R	4		I	0	1.1	10YR 4/3 brown sandy loam	
5	R	4		II	1.1	1.5	10YR 5/6 yellowish brown sandy loam	
5	R	5		I	0	1.1	10YR 4/3 brown sandy loam	
5	R	5		II	1.1	1.6	10YR 5/6 yellowish brown sandy loam	
5	R	6		I	0	1.1	10YR 4/3 brown sandy loam	
5	R	6		II	1.1	1.6	10YR 5/6 yellowish brown sandy loam	
5	R	7		I	0	1	10YR 4/3 brown sandy loam	
5	R	7		II	1	1.5	10YR 5/6 yellowish brown sandy loam	
5	R	8		I	0	1	10YR 4/3 brown sandy loam	
5	R	8		II	1	1.5	10YR 5/6 yellowish brown sandy loam	
5	R	9		I	0	1	10YR 4/3 brown sandy loam	
5	R	9		II	1	1.5	10YR 5/6 yellowish brown sandy loam	
5	R	10		I	0	1	10YR 4/3 brown sandy loam	
5	R	10		II	1	1.5	10YR 5/6 yellowish brown sandy loam	
5	R	11		I	0	1	10YR 4/3 brown sandy loam	
5	R	11		II	1	1.5	10YR 5/6 yellowish brown sandy loam	
5	R	12		I	0	1.1	10YR 4/3 brown sandy loam	
5	R	12		II	1.1	1.6	10YR 5/6 yellowish brown sandy loam	
5	R	13		I	0	1.1	10YR 4/3 brown sandy loam	
5	R	13		II	1.1	1.6	10YR 5/6 yellowish brown sandy loam	
5	R	14		I	0	1.2	10YR 4/3 brown sandy loam	

Area	Transect	STP	Radial	Level	Start Depth (ft.)	End Depth (ft.)	Soil Description	Comments
5	R	14		II	1.2	1.7	10YR 5/6 yellowish brown sandy loam	
5	R	15		I	0	1.1	10YR 4/3 brown sandy loam	
5	R	15		II	1.1	1.5	10YR 5/6 yellowish brown sandy loam	
5	R	16		I	0	0.9	10YR 4/3 brown sandy loam	
5	R	16		II	0.9	1.4	10YR 5/6 yellowish brown sandy loam	
5	R	17		I	0	0.9	10YR 4/3 brown sandy loam	
5	R	17		II	0.9	1.4	10YR 5/6 yellowish brown sandy loam	
5	R	18		I	0	0.9	10YR 4/3 brown sandy loam	
5	R	18		II	0.9	1.4	10YR 5/6 yellowish brown sandy loam	
5	R	19		I	0	0.9	10YR 4/3 brown sandy loam	
5	R	19		II	0.9	1.4	10YR 5/6 yellowish brown sandy loam	
5	R	20		I	0	0.9	10YR 4/3 brown sandy loam	
5	R	20		II	0.9	1.4	10YR 5/6 yellowish brown sandy loam	
5	R	21		I	0	1	10YR 4/3 brown sandy loam	
5	R	21		II	1	1.5	10YR 5/6 yellowish brown sandy loam	
5	R	22		I	0	1	10YR 4/3 brown sandy loam	
5	R	22		II	1	1.5	10YR 5/6 yellowish brown sandy loam	
5	R	23		I	0	1	10YR 4/3 brown sandy loam	
5	R	23		II	1	1.5	10YR 5/6 yellowish brown sandy loam	
5	R	24		I	0	0.9	10YR 4/3 brown sandy loam	
5	R	24		II	0.9	1.4	10YR 5/6 yellowish brown sandy loam	
5	R	25		I	0	0.9	10YR 4/3 brown sandy loam	
5	R	25		II	0.9	1.4	10YR 5/6 yellowish brown sandy loam	
5	R	26		I	0	0.9	10YR 4/3 brown sandy loam	
5	R	26		II	0.9	1.5	10YR 5/6 yellowish brown sandy loam	
5	S	1		I	0	1	10YR 4/4 dark yellowish brown sandy loam	discarded plastic, glass, dental insurance card
5	S	1		II	1	1.5	10YR 5/6 yellowish brown sandy loam	
5	S	2		I	0	1	10YR 4/4 dark yellowish brown sandy loam	discarded plastic
5	S	2		II	1	1.5	10YR 5/6 yellowish brown sandy loam	
5	S	3		I	0	1	10YR 4/4 dark yellowish brown sandy loam	
5	S	3		II	1	1.5	10YR 5/6 yellowish brown sandy loam	
5	S	4		I	0	1.1	10YR 4/4 dark yellowish brown sandy loam	
5	S	4		II	1.1	1.6	10YR 5/6 yellowish brown sandy loam	
5	S	5		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
5	S	5		II	0.9	1.5	10YR 5/6 yellowish brown sandy loam	
5	S	6		I	0	1	10YR 4/4 dark yellowish brown sandy loam	coal discarded
5	S	6		II	1	1.5	10YR 5/6 yellowish brown sandy loam	
5	S	7		I	0	0.8	10YR 4/4 dark yellowish brown sandy loam	
5	S	7		II	0.8	1.4	10YR 5/6 yellowish brown sandy loam	
5	S	8		I	0	1	10YR 4/4 dark yellowish brown sandy loam	
5	S	8		II	1	1.5	10YR 5/6 yellowish brown sandy loam	
5	S	9		I	0	1.1	10YR 4/4 dark yellowish brown sandy loam	
5	S	9		II	1.1	1.6	10YR 5/6 yellowish brown sandy loam	
5	S	10		I	0	1	10YR 4/4 dark yellowish brown sandy loam	
5	S	10		II	1	1.5	10YR 5/6 yellowish brown sandy loam	
5	S	11		I	0	1	10YR 4/4 dark yellowish brown sandy loam	
5	S	11		II	1	1.5	10YR 5/6 yellowish brown sandy loam	
5	S	12		I	0	1.1	10YR 4/4 dark yellowish brown sandy loam	

Area	Transect	STP	Radial	Level	Start Depth (ft.)	End Depth (ft.)	Soil Description	Comments
5	S	12		II	1.1	1.5	10YR 5/6 yellowish brown sandy loam	
5	S	13		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
5	S	13		II	0.9	1.4	10YR 5/6 yellowish brown sandy loam	
5	S	14		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
5	S	14		II	0.9	1.4	10YR 5/6 yellowish brown sandy loam	
5	S	15		I	0	1	10YR 4/4 dark yellowish brown sandy loam	
5	S	15		II	1	1.5	10YR 5/6 yellowish brown sandy loam	
5	S	16		I	0	1.1	10YR 4/4 dark yellowish brown sandy loam	
5	S	16		II	1.1	1.6	10YR 5/6 yellowish brown sandy loam	
5	S	17		I	0	1.1	10YR 4/4 dark yellowish brown sandy loam	
5	S	17		II	1.1	1.6	10YR 5/6 yellowish brown sandy loam	
5	S	18		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
5	S	18		II	0.9	1.4	10YR 5/6 yellowish brown sandy loam	
5	S	19		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
5	S	19		II	0.9	1.4	10YR 5/6 yellowish brown sandy loam	
5	S	20		I	0	1	10YR 4/4 dark yellowish brown sandy loam	
5	S	20		II	1	1.5	10YR 5/6 yellowish brown sandy loam	
5	S	21		I	0	1.1	10YR 4/4 dark yellowish brown sandy loam	
5	S	21		II	1.1	1.6	10YR 5/6 yellowish brown sandy loam	
5	S	22		I	0	0.8	10YR 4/4 dark yellowish brown sandy loam	
5	S	22		II	0.8	1.2	10YR 5/6 yellowish brown sandy loam	
5	S	23		I	0	0.9	10YR 4/3 brown sandy loam	
5	S	23		II	0.9	1.3	10YR 6/4 light yellowish brown sandy loam	
5	S	24		I	0	1	10YR 4/3 brown sandy loam	
5	S	24		II	1	1.5	10YR 5/6 yellowish brown sandy loam	
5	S	25		I	0	1	10YR 4/3 brown sandy loam	
5	S	25		II	1	1.5	10YR 5/6 yellowish brown sandy loam	
5	S	26		I	0	1	10YR 4/3 brown sandy loam	
5	S	26		II	1	1.5	10YR 5/6 yellowish brown sandy loam	
5	T	1		I	0	1	10YR 4/3 brown sandy loam	
5	T	1		II	1	1.8	10YR 5/6 yellowish brown sand	
5	T	2		I	0	1	10YR 4/3 brown sandy loam	
5	T	2		II	1	1.5	10YR 5/6 yellowish brown sand	
5	T	3		I	0	1	10YR 4/3 brown sandy loam	
5	T	3		II	1	1.5	10YR 5/6 yellowish brown sand	
5	T	4		I	0	1	10YR 4/3 brown sandy loam	
5	T	4		II	1	1.5	10YR 5/6 yellowish brown sand	
5	T	5		I	0	1	10YR 4/3 brown sandy loam	
5	T	5		II	1	1.5	10YR 5/6 yellowish brown sand	
5	T	6		I	0	1	10YR 4/3 brown sandy loam	
5	T	6		II	1	1.5	10YR 5/6 yellowish brown sand	
5	T	7		I	0	1	10YR 4/3 brown sandy loam	
5	T	7		II	1	1.5	10YR 5/6 yellowish brown sand	
5	T	8		I	0	1	10YR 4/3 brown sandy loam	
5	T	8		II	1	1.5	10YR 5/6 yellowish brown sand	
5	T	9		I	0	1	10YR 4/3 brown sandy loam	
5	T	9		II	1	1.5	10YR 6/4 light yellowish brown sand	
5	T	10		I	0	1	10YR 4/3 brown sandy loam	
5	T	10		II	1	1.5	10YR 6/4 light yellowish brown sand	

Area	Transect	STP	Radial	Level	Start Depth (ft.)	End Depth (ft.)	Soil Description	Comments
5	T	11		I	0	1	10YR 4/3 brown sandy loam	
5	T	11		II	1	1.5	10YR 6/4 light yellowish brown sand	
5	T	12		I	0	1	10YR 4/3 brown sandy loam	
5	T	12		II	1	1.5	10YR 6/4 light yellowish brown sand	
5	T	13		I	0	1	10YR 4/3 brown sandy loam	
5	T	13		II	1	1.5	10YR 6/4 light yellowish brown sand	
5	T	14		I	0	1	10YR 4/3 brown sandy loam	
5	T	14		II	1	1.5	10YR 6/4 light yellowish brown sand	
5	T	15		I	0	1	10YR 4/3 brown sandy loam	
5	T	15		II	1	1.5	10YR 6/4 light yellowish brown sand	
5	T	16		I	0	1	10YR 4/3 brown sandy loam	
5	T	16		II	1	1.5	10YR 6/4 light yellowish brown sand	
5	T	17		I	0	1	10YR 4/3 brown sandy loam	
5	T	17		II	1	1.5	10YR 6/4 light yellowish brown sand	
5	T	18		I	0	1	10YR 4/3 brown sandy loam	
5	T	18		II	1	1.5	10YR 6/4 light yellowish brown sand	
5	T	19		I	0	1	10YR 4/3 brown sandy loam	
5	T	19		II	1	1.5	10YR 6/4 light yellowish brown sand	
5	T	20		I	0	1	10YR 4/3 brown sandy loam	
5	T	20		II	1	1.5	10YR 6/4 light yellowish brown sand	
5	T	21		I	0	1	10YR 4/3 brown sandy loam	
5	T	21		II	1	1.5	10YR 6/4 light yellowish brown sand	
5	T	22		I	0	1	10YR 4/3 brown sandy loam	
5	T	22		II	1	1.5	10YR 6/4 light yellowish brown sand	
5	T	23		I	0	1	10YR 4/3 brown sandy loam	
5	T	23		II	1	1.5	10YR 6/4 light yellowish brown sand	
5	T	24		I	0	1	10YR 4/3 brown sandy loam	
5	T	24		II	1	1.5	10YR 6/4 light yellowish brown sand	
5	T	25		I	0	1	10YR 4/3 brown sandy loam	
5	T	25		II	1	1.5	10YR 6/4 light yellowish brown sand	
5	T	26		I	0	1	10YR 4/3 brown sandy loam	
5	T	26		II	1	1.5	10YR 6/4 light yellowish brown sand	
5	U	1		I	0	0.95	10YR 3/4 dark yellowish brown sandy loam	
5	U	1		II	0.95	1.35	10YR 5/6 yellowish brown sand	
5	U	2		I	0	1	10YR 3/4 dark yellowish brown sandy loam	
5	U	2		II	1	1.4	10YR 5/6 yellowish brown sand	
5	U	3		I	0	0.8	10YR 3/4 dark yellowish brown sandy loam	
5	U	3		II	0.8	1.2	10YR 5/6 yellowish brown sand	
5	U	4		I	0	1.05	10YR 3/4 dark yellowish brown sandy loam	
5	U	4		II	1.05	1.45	10YR 5/6 yellowish brown sand	
5	U	5		I	0	1.1	10YR 3/4 dark yellowish brown sandy loam	
5	U	5		II	1.1	1.5	10YR 5/6 yellowish brown sand	
5	U	6		I	0	0.9	10YR 3/4 dark yellowish brown sandy loam	
5	U	6		II	0.9	1.3	10YR 5/6 yellowish brown sand	
5	U	7		I	0	1.05	10YR 3/4 dark yellowish brown sandy loam	
5	U	7		II	1.05	1.45	10YR 5/6 yellowish brown sand	
5	U	8		I	0	0.8	10YR 3/4 dark yellowish brown sandy loam	
5	U	8		II	0.8	1.2	10YR 5/6 yellowish brown sand	
5	U	9		I	0	1.1	10YR 3/4 dark yellowish brown sandy loam	

Area	Transect	STP	Radial	Level	Start Depth (ft.)	End Depth (ft.)	Soil Description	Comments
5	U	9		II	1.1	1.5	10YR 5/6 yellowish brown sand	
5	U	10		I	0	0.9	10YR 3/4 dark yellowish brown sandy loam	
5	U	10		II	0.9	1.3	10YR 5/6 yellowish brown sand	
5	U	11		I	0	0.8	10YR 3/4 dark yellowish brown sandy loam	
5	U	11		II	0.8	1.2	10YR 5/6 yellowish brown sand	
5	U	12		I	0	0.75	10YR 3/4 dark yellowish brown sandy loam	
5	U	12		II	0.75	1.15	10YR 5/6 yellowish brown sand	
5	U	13		I	0	0.9	10YR 3/4 dark yellowish brown sandy loam	
5	U	13		II	0.9	1.3	10YR 5/6 yellowish brown sand	
5	U	14		I	0	0.8	10YR 3/4 dark yellowish brown sandy loam	
5	U	14		II	0.8	1.2	10YR 5/6 yellowish brown sand	
5	U	15		I	0	1	10YR 3/4 dark yellowish brown sandy loam	
5	U	15		II	1	1.4	10YR 5/6 yellowish brown sand	
5	U	16		I	0	1.05	10YR 3/4 dark yellowish brown sandy loam	
5	U	16		II	1.05	1.45	10YR 5/6 yellowish brown sand	
5	U	17		I	0	0.95	10YR 3/4 dark yellowish brown sandy loam	
5	U	17		II	0.95	1.35	10YR 5/6 yellowish brown sand	
5	U	18		I	0	0.85	10YR 3/4 dark yellowish brown sandy loam	
5	U	18		II	0.85	1.25	10YR 5/6 yellowish brown sand	
5	U	19		I	0	0.95	10YR 3/4 dark yellowish brown sandy loam	
5	U	19		II	0.95	1.35	10YR 5/6 yellowish brown sand	
5	U	20		I	0	0.9	10YR 3/4 dark yellowish brown sandy loam	
5	U	20		II	0.9	1.3	10YR 5/6 yellowish brown sand	
5	U	21		I	0	0.85	10YR 3/4 dark yellowish brown sandy loam	
5	U	21		II	0.85	1.3	10YR 5/6 yellowish brown sand	
5	U	22		I	0	0.9	10YR 3/4 dark yellowish brown sandy loam	
5	U	22		II	0.9	1.3	10YR 5/6 yellowish brown sand	
5	U	23		I	0	0.85	10YR 3/4 dark yellowish brown sandy loam	
5	U	23		II	0.85	1.25	10YR 5/6 yellowish brown sand	
5	U	24		I	0	1	10YR 4/3 brown sandy loam	
5	U	24		II	1	1.5	10YR 6/4 light yellowish brown sand	
5	U	25		I	0	1	10YR 4/3 brown sandy loam	
5	U	25		II	1	1.5	10YR 6/4 light yellowish brown sand	
5	V	1		I	0	0.7	10YR 4/3 brown sandy loam	
5	V	1		II	0.7	1.1	10YR 6/8 brownish yellow sand	
5	V	2		I	0	0.8	10YR 4/3 brown sandy loam	
5	V	2		II	0.8	1.2	10YR 6/8 brownish yellow sand	
5	V	3		I	0	1.3	10YR 4/3 brown sandy loam	
5	V	3		II	1.3	1.7	10YR 6/8 brownish yellow sand	
5	V	4		I	0	0.9	10YR 4/3 brown sandy loam	
5	V	4		II	0.9	1.4	10YR 6/8 brownish yellow sand	
5	V	5		I	0	1.1	10YR 4/3 brown sandy loam	
5	V	5		II	1.1	1.5	10YR 6/4 light yellowish brown sand	
5	V	6		I	0	0.9	10YR 4/3 brown sandy loam	
5	V	6		II	0.9	1.3	10YR 6/4 light yellowish brown sand	
5	V	7		I	0	1	10YR 4/3 brown sandy loam	
5	V	7		II	1	1.5	10YR 6/4 light yellowish brown sand	
5	V	8		I	0	0.7	10YR 4/3 brown sandy loam	
5	V	8		II	0.7	1.3	10YR 6/4 light yellowish brown sand	

Area	Transect	STP	Radial	Level	Start Depth (ft.)	End Depth (ft.)	Soil Description	Comments
5	V	9		I	0	0.8	10YR 4/3 brown sandy loam	
5	V	9		II	0.8	1.2	10YR 6/4 light yellowish brown sand	
5	V	10		I	0	0.8	10YR 4/3 brown sandy loam	
5	V	10		II	0.8	1.3	10YR 6/4 light yellowish brown sand	
5	V	11		I	0	0.6	10YR 4/3 brown sandy loam	
5	V	11		II	0.6	1	10YR 6/4 light yellowish brown sand	
5	V	12		I	0	0.5	10YR 4/3 brown sandy loam	
5	V	12		II	0.5	0.9	10YR 6/4 light yellowish brown sand	
5	V	13		I	0	0.9	10YR 4/3 brown sandy loam	
5	V	13		II	0.9	1.4	10YR 6/4 light yellowish brown sand	
5	V	14		I	0	1.1	10YR 4/3 brown sandy loam	
5	V	14		II	1.1	1.5	10YR 6/4 light yellowish brown sand	
5	V	15		I	0	0.8	10YR 4/3 brown sandy loam	
5	V	15		II	0.8	1.2	10YR 6/4 light yellowish brown sand	
5	V	16		I	0	0.7	10YR 4/3 brown sandy loam	
5	V	16		II	0.7	1.1	10YR 6/4 light yellowish brown sand	
5	V	17		I	0	0.8	10YR 4/3 brown sandy loam	
5	V	17		II	0.8	1.2	10YR 6/4 light yellowish brown sand	
5	V	18		I	0	0.7	10YR 4/3 brown sandy loam	
5	V	18		II	0.7	1.1	10YR 6/4 light yellowish brown sand	
5	V	19		I	0	1	10YR 4/3 brown sandy loam	
5	V	19		II	1	1.4	10YR 6/4 light yellowish brown sand	
5	V	20		I	0	0.7	10YR 4/3 brown sandy loam	
5	V	20		II	0.7	1.1	10YR 6/4 light yellowish brown sand	
5	V	21		I	0	0.8	10YR 4/3 brown sandy loam	
5	V	21		II	0.8	1.3	10YR 6/4 light yellowish brown sand	
5	V	22		I	0	1	10YR 4/3 brown loamy sand	
5	V	22		II	1	1.4	10YR 7/4 very pale brown clay sand	
5	V	23	East	I	0	0.9	10YR 4/3 brown loamy sand	
5	V	23	East	II	0.9	1.3	10YR 7/4 very pale brown clay sand	
5	V	23	North	I	0	0.9	10YR 4/3 brown loamy sand	
5	V	23	North	II	0.9	1.3	10YR 7/4 very pale brown clay sand	
5	V	23	South	I	0	0.9	10YR 4/3 brown loamy sand	brick discarded
5	V	23	South	II	0.9	1.3	10YR 7/4 very pale brown clay sand	
5	V	23	West	I	0	0.9	10YR 4/3 brown loamy sand	
5	V	23	West	II	0.9	1.3	10YR 7/4 very pale brown clay sand	
5	V	23		I	0	1	10YR 4/3 brown loamy sand	
5	V	23		II	1	1.4	10YR 7/4 very pale brown clay sand	
5	V	24		I	0	1	10YR 4/3 brown loamy sand	
5	V	24		II	1	1.4	10YR 7/4 very pale brown clay sand	
5	V	25	North	I	0	0.9	10YR 4/3 brown loamy sand	
5	V	25	North	II	0.9	1.3	10YR 7/4 very pale brown clay sand	
5	V	25	South	I	0	1	10YR 4/3 brown loamy sand	
5	V	25	South	II	1	1.4	10YR 7/4 very pale brown clay sand	
5	V	25	West	I	0	1	10YR 4/3 brown loamy sand	
5	V	25	West	II	1	1.4	10YR 7/4 very pale brown clay sand	
5	V	25		I	0	1	10YR 4/3 brown loamy sand	
5	V	25		II	1	1.4	10YR 7/4 very pale brown clay sand	
5	W	1		I	0	1	10YR 3/4 dark yellowish brown loamy sand	

Area	Transect	STP	Radial	Level	Start Depth (ft.)	End Depth (ft.)	Soil Description	Comments
5	W	1		II	1	1.4	10YR 6/6 brownish yellow clay sand	
5	W	2		I	0	0.9	10YR 3/4 dark yellowish brown loamy sand	
5	W	2		II	0.9	1.3	10YR 6/6 brownish yellow clay sand	
5	W	3	East	I	0	1.1	10YR 4/3 brown sandy loam	
5	W	3	East	II	1.1	1.5	10YR 6/4 light yellowish brown sand	
5	W	3	North	I	0	0.9	10YR 4/3 brown sandy loam	
5	W	3	North	II	0.9	1.3	10YR 6/4 light yellowish brown sand	
5	W	3	South	I	0	1	10YR 4/3 brown loamy sand	
5	W	3	South	II	1	1.4	10YR 7/4 very pale brown clay sand	
5	W	3	West	I	0	1	10YR 4/3 brown loamy sand	
5	W	3	West	II	1	1.4	10YR 7/4 very pale brown clay sand	
5	W	3		I	0	1	10YR 4/3 brown loamy sand	
5	W	3		II	1	1.4	10YR 6/4 light yellowish brown clay sand	
5	W	4		I	0	1	10YR 4/3 brown loamy sand	
5	W	4		II	1	1.4	10YR 6/4 light yellowish brown clay sand	
5	W	5	East	I	0	1	10YR 4/3 brown loamy sand	
5	W	5	East	II	1	1.4	10YR 7/4 very pale brown clay sand	
5	W	5	North	I	0	0.9	10YR 4/3 brown loamy sand	
5	W	5	North	II	0.9	1.3	10YR 7/4 very pale brown clay sand	
5	W	5	South	I	0	1	10YR 4/3 brown loamy sand	
5	W	5	South	II	1	1.4	10YR 7/4 very pale brown clay sand	
5	W	5	West	I	0	1	10YR 4/3 brown loamy sand	
5	W	5	West	II	1	1.4	10YR 7/4 very pale brown clay sand	
5	W	5		I	0	0.8	10YR 4/3 brown loamy sand	
5	W	5		II	0.8	1.2	10YR 7/4 very pale brown clay sand	
5	W	6		I	0	1.1	10YR 4/3 brown loamy sand	
5	W	6		II	1.1	1.5	10YR 7/4 very pale brown clay sand	
5	W	7		I	0	1.1	10YR 4/3 brown loamy sand	
5	W	7		II	1.1	1.5	10YR 7/4 very pale brown clay sand	
5	W	8		I	0	1	10YR 4/3 brown loamy sand	
5	W	8		II	1	1.4	10YR 7/4 very pale brown clay sand	
5	W	9		I	0	0.9	10YR 4/3 brown loamy sand	
5	W	9		II	0.9	1.3	10YR 7/4 very pale brown clay sand	
5	W	10		I	0	0.9	10YR 4/3 brown loamy sand	
5	W	10		II	0.9	1.3	10YR 7/4 very pale brown clay sand	
5	W	11		I	0	0.9	10YR 3/4 dark yellowish brown loamy sand	wet
5	W	11		II	0.9	1.3	10YR 7/4 very pale brown clay sand	wet
5	W	12		I	0	0.8	10YR 3/4 dark yellowish brown loamy sand	
5	W	12		II	0.8	1.2	10YR 7/4 very pale brown clay sand	
5	W	13		I	0	0.8	10YR 3/4 dark yellowish brown loamy sand	
5	W	13		II	0.8	1.2	10YR 7/4 very pale brown clay sand	
5	W	14		I	0	0.8	10YR 4/3 brown loamy sand	
5	W	14		II	0.8	1.2	10YR 7/4 very pale brown clay sand	
5	W	15		I	0	0.9	10YR 4/3 brown loamy sand	
5	W	15		II	0.9	1.3	10YR 7/4 very pale brown clay sand	
5	W	16	East	I	0	0.8	10YR 4/3 brown sandy loam	
5	W	16	East	II	0.8	1.2	10YR 6/4 light yellowish brown sand	
5	W	16	North	I	0	0.7	10YR 4/3 brown sandy loam	
5	W	16	North	II	0.7	1.1	10YR 6/4 light yellowish brown sand	

Area	Transect	STP	Radial	Level	Start Depth (ft.)	End Depth (ft.)	Soil Description	Comments
5	W	16	South	I	0	1	10YR 4/3 brown sandy loam	
5	W	16	South	II	1	1.4	10YR 6/4 light yellowish brown sand	
5	W	16	West	I	0	1.2	10YR 4/3 brown sandy loam	
5	W	16	West	II	1.2	1.6	10YR 6/4 light yellowish brown sand	
5	W	16		I	0	1.1	10YR 5/3 brown loamy sand	
5	W	16		II	1.1	1.5	10YR 7/4 very pale brown clay sand	
5	W	17		I	0	1	10YR 5/3 brown loamy sand	
5	W	17		II	1	1.4	10YR 6/6 brownish yellow clay sand	
5	W	18		I	0	1	10YR 5/3 brown loamy sand	
5	W	18		II	1	1.4	10YR 6/6 brownish yellow clay sand	
5	W	19		I	0	1	10YR 4/3 brown loamy sand	
5	W	19		II	1	1.4	10YR 7/4 very pale brown clay sand	
5	W	20		I	0	1	10YR 4/3 brown loamy sand	
5	W	20		II	1	1.4	10YR 7/4 very pale brown clay sand	
5	W	21		I	0	1	10YR 4/3 brown loamy sand	
5	W	21		II	1	1.4	10YR 7/4 very pale brown clay sand	
5	W	22		I	0	1	10YR 4/3 brown loamy sand	
5	W	22		II	1	1.4	10YR 7/4 very pale brown clay sand	
5	W	23		I	0	1	10YR 4/3 brown loamy sand	
5	W	23		II	1	1.4	10YR 7/4 very pale brown clay sand	
5	W	24		I	0	1.1	10YR 4/3 brown loamy sand	
5	W	24		II	1.1	1.5	10YR 7/4 very pale brown clay sand	
5	X	5		I	0	0.8	10YR 4/3 brown loamy sand	
5	X	5		II	0.8	1.2	10YR 7/4 very pale brown clay sand	
5	X	6		I	0	0.9	10YR 4/3 brown loamy sand	
5	X	6		II	0.9	1.3	10YR 7/4 very pale brown clay sand	
5	X	7		I	0	1	10YR 4/3 brown loamy sand	
5	X	7		II	1	1.4	10YR 7/4 very pale brown clay sand	
5	X	8		I	0	1	10YR 4/3 brown loamy sand	
5	X	8		II	1	1.4	10YR 7/4 very pale brown clay sand	
5	X	9		I	0	1	10YR 4/3 brown loamy sand	
5	X	9		II	1	1.4	10YR 7/4 very pale brown clay sand	
5	X	10		I	0	1	10YR 5/3 brown loamy sand	
5	X	10		II	1	1.4	10YR 6/6 brownish yellow clay sand	
5	X	11		I	0	0.5	10YR 5/3 brown clay sand	watertable
5	X	12		I	0	0.5	10YR 5/3 brown clay sand	watertable
5	X	13		I	0	0.7	10YR 5/3 brown clay sand	watertable
5	X	14		I	0	0.7	10YR 5/3 brown clay sand	watertable
5	X	15	East	I	0	1	10YR 4/3 brown sandy loam	
5	X	15	East	II	1	1.4	10YR 6/4 light yellowish brown sand	
5	X	15	North	I	0	1.2	10YR 4/3 brown sandy loam	
5	X	15	North	II	1.2	1.6	10YR 6/4 light yellowish brown sand	
5	X	15	South	I	0	1	10YR 4/3 brown sandy loam	
5	X	15	South	II	1	1.4	10YR 6/4 light yellowish brown sandy loam	
5	X	15	West	I	0	0.95	10YR 4/3 brown sandy loam	
5	X	15	West	II	0.95	1.35	10YR 6/4 light yellowish brown sandy loam	
5	X	15		I	0	1	10YR 5/3 brown clay sand	
5	X	15		II	1	1.4	10YR 7/4 very pale brown clay sand	
5	X	16		I	0	0.9	10YR 5/3 brown clay sand	

Area	Transect	STP	Radial	Level	Start Depth (ft.)	End Depth (ft.)	Soil Description	Comments
5	X	16		II	0.9	1.3	10YR 7/4 very pale brown clay sand	
5	X	17		I	0	0.9	10YR 4/3 brown loamy sand	
5	X	17		II	0.9	1.3	10YR 7/4 very pale brown clay sand	
5	X	18		I	0	0.9	10YR 4/3 brown loamy sand	
5	X	18		II	0.9	1.3	10YR 6/4 light yellowish brown clay sand	
5	X	19		I	0	1.1	10YR 4/3 brown loamy sand	
5	X	19		II	1.1	1.5	10YR 7/4 very pale brown clay sand	
5	X	20		I	0	1	10YR 4/3 brown loamy sand	
5	X	20		II	1	1.4	10YR 7/4 very pale brown clay sand	
5	X	21		I	0	1	10YR 4/3 brown loamy sand	
5	X	21		II	1	1.4	10YR 7/4 very pale brown clay sand	
5	X	22		I	0	1	10YR 4/3 brown loamy sand	
5	X	22		II	1	1.4	10YR 7/4 very pale brown clay sand	
5	X	23		I	0	1	10YR 4/3 brown loamy sand	
5	X	23		II	1	1.4	10YR 7/4 very pale brown clay sand	
5	X	24		I	0	1	10YR 4/3 brown loamy sand	
5	X	24		II	1	1.4	10YR 7/4 very pale brown clay sand	
5	Y	9		I	0	0.8	10YR 5/3 brown loamy sand	
5	Y	9		II	0.8	1.2	10YR 7/4 very pale brown clay sand	
5	Y	10		I	0	0.8	10YR 5/3 brown loamy sand	
5	Y	10		II	0.8	1.2	10YR 7/4 very pale brown clay sand	
5	Y	11		I	0	0.9	10YR 5/3 brown loamy sand	
5	Y	11		II	0.9	1.3	10YR 7/4 very pale brown clay sand	
5	Y	12		I	0	0.5	10YR 5/3 brown clay sand	watertable
5	Y	13		I	0	0.5	10YR 5/3 brown clay sand	watertable
5	Y	14		I	0	0.5	10YR 5/3 brown clay sand	watertable
5	Y	15		I	0	0.3	10YR 5/3 brown clay sand	watertable
5	Y	16		I	0	0.9	10YR 5/3 brown loamy sand	
5	Y	16		II	0.9	1.3	10YR 7/4 very pale brown clay sand	
5	Y	17		I	0	1	10YR 4/3 brown loamy sand	
5	Y	17		II	1	1.4	10YR 6/4 light yellowish brown clay sand	
5	Y	18		I	0	1	10YR 4/3 brown loamy sand	
5	Y	18		II	1	1.4	10YR 6/4 light yellowish brown clay sand	
5	Y	19		I	0	1	10YR 5/3 brown loamy sand	
5	Y	19		II	1	1.4	10YR 7/4 very pale brown clay sand	
5	Y	20		I	0	1.1	10YR 5/3 brown loamy sand	
5	Y	20		II	1.1	1.5	10YR 7/4 very pale brown clay sand	
5	Y	21		I	0	1.1	10YR 5/3 brown loamy sand	
5	Y	21		II	1.1	1.5	10YR 7/4 very pale brown clay sand	
5	Y	22		I	0	1	10YR 4/3 brown loamy sand	
5	Y	22		II	1	1.4	10YR 7/4 very pale brown clay sand	
5	Y	23		I	0	1	10YR 4/3 brown loamy sand	
5	Y	23		II	1	1.4	10YR 7/4 very pale brown clay sand	
5	Y	24		I	0	1	10YR 4/3 brown loamy sand	
5	Y	24		II	1	1.4	10YR 7/4 very pale brown clay sand	
5	Z	12		I	0	0.8	10YR 4/3 brown loamy sand	
5	Z	12		II	0.8	1.2	10YR 7/4 very pale brown clay sand	
5	Z	13		I	0	0.6	10YR 5/3 brown clay sand	watertable
5	Z	14		I	0	0.8	10YR 5/3 brown clay sand	

Area	Transect	STP	Radial	Level	Start Depth (ft.)	End Depth (ft.)	Soil Description	Comments
5	Z	14		II	0.8	1.2	10YR 7/4 very pale brown clay sand	
5	Z	15		I	0	0.2	10YR 5/3 brown clay sand	watertable
5	Z	16		I	0	0.7	10YR 5/3 brown clay sand	
5	Z	16		II	0.7	1.1	10YR 7/4 very pale brown clay sand	
5	Z	17		I	0	0.8	10YR 5/3 brown clay sand	
5	Z	17		II	0.8	1.2	10YR 7/4 very pale brown clay sand	
5	Z	18		I	0	0.9	10YR 4/3 brown loamy sand	
5	Z	18		II	0.9	1.3	10YR 7/4 very pale brown clay sand	
5	Z	19		I	0	1.1	10YR 4/3 brown loamy sand	
5	Z	19		II	1.1	1.5	10YR 7/4 very pale brown clay sand	
5	Z	20		I	0	1	10YR 4/3 brown loamy sand	
5	Z	20		II	1	1.4	10YR 7/4 very pale brown clay sand	
5	Z	21		I	0	1	10YR 4/3 brown loamy sand	
5	Z	21		II	1	1.4	10YR 7/4 very pale brown clay sand	
5	Z	22		I	0	0.8	10YR 4/3 brown loamy sand	
5	Z	22		II	0.8	1.2	10YR 6/4 light yellowish brown clay sand	
5	Z	23		I	0	0.8	10YR 4/3 brown loamy sand	
5	Z	23		II	0.8	1.2	10YR 6/4 light yellowish brown clay sand	
6	A	1		I	0	1	10YR 4/3 brown sandy loam	
6	A	1		II	1	1.5	10YR 5/6 yellowish brown sandy loam	
6	A	2		I	0	1.1	10YR 4/3 brown sandy loam	
6	A	2		II	1.1	1.6	10YR 5/6 yellowish brown sandy loam	
6	A	3		I	0	1.1	10YR 4/3 brown sandy loam	
6	A	3		II	1.1	1.6	10YR 5/6 yellowish brown sandy loam	
6	B	1					NOT EXCAVATED	standing water
6	B	2		I	0	1	10YR 4/3 brown loamy sand	
6	B	2		II	1	1.4	10YR 6/4 light yellowish brown clay sand	
6	B	3	East	I	0	1.1	10YR 4/3 brown sandy loam	
6	B	3	East	II	1.1	1.6	10YR 5/6 yellowish brown sandy loam	
6	B	3	North	I	0	1	10YR 4/3 brown sandy loam	
6	B	3	North	II	1	1.5	10YR 5/6 yellowish brown sandy loam	
6	B	3	South	I	0	1	10YR 4/3 brown sandy loam	
6	B	3	South	II	1	1.5	10YR 5/6 yellowish brown sandy loam	
6	B	3	West	I	0	1.1	10YR 4/3 brown sandy loam	
6	B	3	West	II	1.1	1.6	10YR 5/6 yellowish brown sandy loam	
6	B	3		I	0	1	10YR 4/3 brown loamy sand	
6	B	3		II	1	1.4	10YR 6/4 light yellowish brown clay sand	
6	B	4		I	0	1	10YR 4/3 brown loamy sand	5% gravel
6	B	4		II	1	1.4	10YR 6/4 light yellowish brown clay sand	5% gravel
6	B	5		I	0	1	10YR 4/3 brown loamy sand	
6	B	5		II	1	1.4	10YR 7/4 very pale brown clay sand	
6	B	6		I	0	1	10YR 4/3 brown loamy sand	5% gravel
6	B	6		II	1	1.4	10YR 7/4 very pale brown clay sand	5% gravel
6	C	2		I	0	1.2	10YR 4/3 brown sandy loam	
6	C	2		II	1.2	1.6	10YR 6/4 light yellowish brown sand	
6	C	3		I	0	1	10YR 4/3 brown sandy loam	
6	C	3		II	1	1.4	10YR 6/4 light yellowish brown sand	
6	C	4		I	0	1	10YR 4/3 brown sandy loam	
6	C	4		II	1	1.4	10YR 6/4 light yellowish brown sand	

Area	Transect	STP	Radial	Level	Start Depth (ft.)	End Depth (ft.)	Soil Description	Comments
6	C	5		I	0	1	10YR 4/3 brown sandy loam	
6	C	5		II	1	1.5	10YR 6/4 light yellowish brown sand	
6	C	6		I	0	1.2	10YR 4/3 brown sandy loam	
6	C	6		II	1.2	1.6	10YR 6/4 light yellowish brown sand	
6	C	7		I	0	1	10YR 4/3 brown sandy loam	
6	C	7		II	1	1.5	10YR 6/4 light yellowish brown sand	
6	C	8	East	I	0	1.1	10YR 4/3 brown sandy loam	
6	C	8	East	II	1.1	1.6	10YR 5/6 yellowish brown sandy loam	
6	C	8	North	I	0	1.1	10YR 4/3 brown sandy loam	
6	C	8	North	II	1.1	1.6	10YR 5/6 yellowish brown sandy loam	
6	C	8	South	I	0	1.1	10YR 4/3 brown sandy loam	
6	C	8	South	II	1.1	1.7	10YR 5/6 yellowish brown sandy loam	
6	C	8	West	I	0	1.1	10YR 4/3 brown sandy loam	
6	C	8	West	II	1.1	1.6	10YR 5/6 yellowish brown sandy loam	
6	C	8		I	0	1	10YR 4/3 brown sandy loam	
6	C	8		II	1	1.5	10YR 6/4 light yellowish brown sand	
6	C	9		I	0	1.2	10YR 4/3 brown sandy loam	
6	C	9		II	1.2	1.6	10YR 6/4 light yellowish brown sand	
6	C	10		I	0	1.2	10YR 4/3 brown sandy loam	
6	C	10		II	1.2	1.6	10YR 6/4 light yellowish brown sand	
6	D	1	East	I	0	1.1	10YR 4/3 brown sandy loam	
6	D	1	East	II	1.1	1.6	10YR 5/6 yellowish brown sandy loam	
6	D	1	North	I	0	0.9	10YR 4/3 brown sandy loam	
6	D	1	North	II	0.9	1.4	10YR 5/6 yellowish brown sandy loam	
6	D	1		I	0	0.75	10YR 3/4 dark yellowish brown sandy loam	
6	D	1		II	0.75	1.15	10YR 5/6 yellowish brown sand	
6	D	2		I	0	1	10YR 4/3 brown sandy loam	
6	D	2		II	1	1.4	10YR 6/4 light yellowish brown sand	
6	D	3	North	I	0	1	10YR 4/3 brown loamy sand	
6	D	3	North	II	1	1.4	10YR 7/4 very pale brown clay sand	
6	D	3	South	I	0	1	10YR 4/3 brown loamy sand	10% gravel - brick discarded
6	D	3	South	II	1	1.4	10YR 7/4 very pale brown clay sand	10% gravel
6	D	3	West	I	0	1	10YR 4/3 brown loamy sand	
6	D	3	West	II	1	1.4	10YR 7/4 very pale brown clay sand	
6	D	3		I	0	1	10YR 3/4 dark yellowish brown sandy loam	
6	D	3		II	1	1.4	10YR 5/6 yellowish brown sand	
6	D	4	North	I	0	1	10YR 4/3 brown loamy sand	
6	D	4	North	II	1	1.4	10YR 7/4 very pale brown clay sand	
6	D	4	South	I	0	1	10YR 4/3 brown loamy sand	
6	D	4	South	II	1	1.4	10YR 7/4 very pale brown clay sand	
6	D	4		I	0	1.15	10YR 3/4 dark yellowish brown sandy loam	
6	D	4		II	1.15	1.55	10YR 5/6 yellowish brown sand	
6	D	5	North	I	0	1	10YR 4/3 brown loamy sand	brick discarded
6	D	5	North	II	1	1.4	10YR 7/4 very pale brown clay sand	
6	D	5		I	0	1.1	10YR 3/4 dark yellowish brown sandy loam	
6	D	5		II	1.1	1.5	10YR 5/6 yellowish brown sand	
6	D	6	North	I	0	1.2	10YR 4/3 brown loamy sand	10% gravel
6	D	6	North	II	1.2	1.6	10YR 7/4 very pale brown clay sand	10% gravel
6	D	6		I	0	1.05	10YR 3/4 dark yellowish brown sandy loam	

Area	Transect	STP	Radial	Level	Start Depth (ft.)	End Depth (ft.)	Soil Description	Comments
6	D	6		II	1.05	1.45	10YR 5/6 yellowish brown sand	
6	D	7	East	I	0	1.1	10YR 4/3 brown loamy sand	brick discarded
6	D	7	East	II	1.1	1.5	10YR 7/4 very pale brown clay sand	
6	D	7	North	I	0	1.1	10YR 4/3 brown loamy sand	
6	D	7	North	II	1.1	1.5	10YR 7/4 very pale brown clay sand	
6	D	7		I	0	0.9	10YR 3/4 dark yellowish brown sandy loam	
6	D	7		II	0.9	1.3	10YR 5/6 yellowish brown sand	
6	D	8		I	0	0.95	10YR 3/4 dark yellowish brown sandy loam	
6	D	8		II	0.95	1.35	10YR 5/6 yellowish brown sand	
6	D	9		I	0	1	10YR 4/3 brown loamy sand	
6	D	9		II	1	1.4	10YR 6/4 light yellowish brown clay sand	
6	D	10		I	0	1.1	10YR 3/4 dark yellowish brown sandy loam	
6	D	10		II	1.1	1.5	10YR 5/6 yellowish brown sand	
6	D	11		I	0	1	10YR 4/3 brown loamy sand	
6	D	11		II	1	1.4	10YR 6/4 light yellowish brown clay sand	
6	D	12		I	0	1	10YR 4/3 brown loamy sand	5% gravel
6	D	12		II	1	1.4	10YR 7/4 very pale brown clay sand	5% gravel
6	D	13		I	0	1	10YR 3/4 dark yellowish brown sandy loam	
6	D	13		II	1	1.4	10YR 5/6 yellowish brown sand	
6	E	1		I	0	0.7	10YR 4/4 dark yellowish brown sandy loam	modern glass discarded
6	E	1		II	0.7	1.2	10YR 5/6 yellowish brown sandy loam	
6	E	2		I	0	0.8	10YR 4/4 dark yellowish brown sandy loam	
6	E	2		II	0.8	1.3	10YR 5/6 yellowish brown sandy loam	
6	E	3		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
6	E	3		II	0.9	1.4	10YR 5/6 yellowish brown sandy loam	
6	E	4		I	0	0.8	10YR 4/4 dark yellowish brown sandy loam	brick, coal, plastic discarded
6	E	4		II	0.8	1.3	10YR 5/6 yellowish brown sandy loam	
6	E	5		I	0	1	10YR 4/4 dark yellowish brown sandy loam	coal discarded
6	E	5		II	1	1.5	10YR 5/6 yellowish brown sandy loam	
6	E	6		I	0	1	10YR 4/4 dark yellowish brown sandy loam	coal discarded
6	E	6		II	1	1.5	10YR 5/6 yellowish brown sandy loam	
6	E	7	East	I	0	1	10YR 4/3 brown loamy sand	shell discarded
6	E	7	East	II	1	1.4	10YR 7/4 very pale brown clay sand	
6	E	7	West	I	0	1	10YR 4/3 brown loamy sand	
6	E	7	West	II	1	1.4	10YR 7/4 very pale brown clay sand	
6	E	7		I	0	1	10YR 4/3 brown sandy loam	
6	E	7		II	1	1.4	10YR 6/4 light yellowish brown sand	
6	E	8		I	0	1	10YR 4/4 dark yellowish brown sandy loam	coal discarded
6	E	8		II	1	1.5	10YR 5/6 yellowish brown sandy loam	
6	E	9		I	0	1	10YR 4/3 brown loamy sand	
6	E	9		II	1	1.4	10YR 7/4 very pale brown clay sand	
6	E	10		I	0	1	10YR 4/3 brown loamy sand	
6	E	10		II	1	1.4	10YR 7/4 very pale brown clay sand	
6	E	11		I	0	1	10YR 4/3 brown loamy sand	5% gravel
6	E	11		II	1	1.4	10YR 7/4 very pale brown clay sand	5% gravel
6	E	12		I	0	0.5	10YR 4/3 brown sandy loam	
6	E	12		II	0.5	0.9	10YR 6/4 light yellowish brown sand	
6	E	13		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
6	E	13		II	0.9	1.4	10YR 5/6 yellowish brown sandy loam	

Area	Transect	STP	Radial	Level	Start Depth (ft.)	End Depth (ft.)	Soil Description	Comments
6	F	1		I	0	0.7	10YR 4/3 brown sandy loam	
6	F	1		II	0.7	1.2	10YR 6/4 light yellowish brown sand	
6	F	2		I	0	1.1	10YR 4/3 brown sandy loam	
6	F	2		II	1.1	1.5	10YR 6/4 light yellowish brown sand	
6	F	3		I	0	0.8	10YR 4/3 brown sandy loam	
6	F	3		II	0.8	1.2	10YR 6/4 light yellowish brown sand	
6	F	4	West	I	0	0.8	10YR 4/3 brown sandy loam	brick and modern glass discarded
6	F	4	West	II	0.8	1.2	10YR 6/4 light yellowish brown sandy loam	
6	F	4		I	0	0.6	10YR 4/3 brown sandy loam	
6	F	4		II	0.6	1	10YR 6/4 light yellowish brown sand	
6	F	5	East	I	0	1.1	10YR 4/3 brown sandy loam	brick discarded - 15% coal
6	F	5	East	II	1.1	1.5	10YR 6/4 light yellowish brown sandy loam	
6	F	5		I	0	0.9	10YR 4/3 brown sandy loam	
6	F	5		II	0.9	1.3	10YR 6/4 light yellowish brown sand	
6	F	6		I	0	1	10YR 4/3 brown sandy loam	
6	F	6		II	1	1.4	10YR 6/4 light yellowish brown sand	
6	F	7	West	I	0	0.8	10YR 4/3 brown sandy loam	5% coal
6	F	7	West	II	0.8	1.2	10YR 6/4 light yellowish brown sandy loam	
6	F	7		I	0	1	10YR 4/3 brown sandy loam	
6	F	7		II	1	1.4	10YR 6/4 light yellowish brown sand	
6	F	8	North	I	0	0.85	10YR 4/3 brown sandy loam	
6	F	8	North	II	0.85	1.3	10YR 6/4 light yellowish brown sandy loam	
6	F	8		I	0	0.7	10YR 4/3 brown sandy loam	
6	F	8		II	0.7	1.1	10YR 6/4 light yellowish brown sand	
6	F	9	North	I	0	0.8	10YR 4/3 brown sandy loam	
6	F	9	North	II	0.8	1.2	10YR 6/4 light yellowish brown sandy loam	
6	F	9	South	I	0	1	10YR 4/3 brown sandy loam	coal and brick discarded
6	F	9	South	II	1	1.4	10YR 6/4 light yellowish brown sand	
6	F	9		I	0	1.1	10YR 4/3 brown sandy loam	
6	F	9		II	1.1	1.6	10YR 5/6 yellowish brown sandy loam	
6	F	10	East	I	0	1	10YR 4/3 brown sandy loam	
6	F	10	East	II	1	1.4	10YR 6/4 light yellowish brown sand	
6	F	10	North	I	0	0.9	10YR 4/3 brown sandy loam	
6	F	10	North	II	0.9	1.3	10YR 6/4 light yellowish brown sandy loam	
6	F	10	South	I	0	1	10YR 4/3 brown sandy loam	
6	F	10	South	II	1	1.4	10YR 6/4 light yellowish brown sand	
6	F	10		I	0	0.8	10YR 4/3 brown sandy loam	
6	F	10		II	0.8	1.2	10YR 6/4 light yellowish brown sand	
6	F	11		I	0	1.1	10YR 4/3 brown sandy loam	
6	F	11		II	1.1	1.6	10YR 5/6 yellowish brown sandy loam	
6	F	12		I	0	0.7	10YR 4/3 brown sandy loam	
6	F	12		II	0.7	1.1	10YR 6/4 light yellowish brown sand	
6	F	13		I	0	1.1	10YR 4/3 brown sandy loam	
6	F	13		II	1.1	1.6	10YR 5/6 yellowish brown sandy loam	
6	G	1		I	0	0.9	10YR 4/3 brown sandy loam	
6	G	1		II	0.9	1.3	10YR 6/4 light yellowish brown sandy loam	
6	G	2		I	0	0.85	10YR 4/3 brown sandy loam	
6	G	2		II	0.85	1.3	10YR 6/4 light yellowish brown sandy loam	

Area	Transect	STP	Radial	Level	Start Depth (ft.)	End Depth (ft.)	Soil Description	Comments
6	G	3	North	I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
6	G	3	North	II	0.9	1.4	10YR 5/6 yellowish brown sandy loam	
6	G	3	South	I	0	0.8	10YR 4/4 dark yellowish brown sandy loam	
6	G	3	South	II	0.8	1.3	10YR 5/6 yellowish brown sandy loam	
6	G	3	West	I	0	1	10YR 4/4 dark yellowish brown sandy loam	
6	G	3	West	II	1	1.5	10YR 5/6 yellowish brown sandy loam	
6	G	3		I	0	0.8	10YR 4/3 brown sandy loam	
6	G	3		II	0.8	1.2	10YR 6/4 light yellowish brown sandy loam	
6	G	4	South	I	0	0.7	10YR 4/4 dark yellowish brown sandy loam	
6	G	4	South	II	0.7	1.2	10YR 5/6 yellowish brown sandy loam	
6	G	4		I	0	0.9	10YR 4/3 brown sandy loam	
6	G	4		II	0.9	1.3	10YR 6/4 light yellowish brown sandy loam	
6	G	5	East	I	0	0.7	10YR 4/4 dark yellowish brown sandy loam	brick discarded
6	G	5	East	II	0.7	1.1	10YR 3/2 very dark grayish brown sandy loam	
6	G	5	East	III	1.1	1.6	10YR 5/6 yellowish brown sandy loam	
6	G	5		I	0	0.8	10YR 4/2 dark grayish brown sandy loam	5% gravel
6	G	5		II	0.8	1.2	10YR 5/6 yellowish brown sandy loam	10% gravel
6	G	6		I	0	0.9	10YR 4/3 brown sandy loam	
6	G	6		II	0.9	1.3	10YR 6/4 light yellowish brown sandy loam	
6	G	7	South	I	0	0.8	10YR 4/4 dark yellowish brown sandy loam	
6	G	7	South	II	0.8	1.3	10YR 5/6 yellowish brown sandy loam	
6	G	7	West	I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
6	G	7	West	II	0.9	1.4	10YR 5/6 yellowish brown sandy loam	
6	G	7		I	0	0.85	10YR 4/3 brown sandy loam	
6	G	7		II	0.85	1.3	10YR 6/4 light yellowish brown sandy loam	
6	G	8	East	I	0	1	10YR 4/3 brown sandy loam	
6	G	8	East	II	1	1.4	10YR 6/3 pale brown sand	
6	G	8	South	I	0	1	10YR 4/3 brown sandy loam	coal discarded
6	G	8	South	II	1	1.4	10YR 6/3 pale brown sand	
6	G	8		I	0	1	10YR 4/3 brown sandy loam	
6	G	8		II	1	1.4	10YR 6/4 light yellowish brown sandy loam	
6	G	9		I	0	1.2	10YR 4/3 brown sandy loam	brick discarded
6	G	9		II	1.2	1.6	10YR 6/4 light yellowish brown sandy loam	
6	G	10		I	0	1.1	10YR 4/3 brown sandy loam	
6	G	10		II	1.1	1.6	10YR 5/6 yellowish brown sandy loam	
6	G	11	East	I	0	1	10YR 4/4 dark yellowish brown sandy loam	
6	G	11	East	I	0	1	10YR 4/3 brown sandy loam	brick discarded
6	G	11	East	II	1	1.5	10YR 5/6 yellowish brown sandy loam	
6	G	11	East	II	1	1.4	10YR 6/4 light yellowish brown sand	
6	G	11	North	I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	shell discarded
6	G	11	North	II	0.9	1.4	10YR 5/6 yellowish brown sandy loam	
6	G	11	South	I	0	1	10YR 4/3 brown sandy loam	
6	G	11	South	II	1	1.4	10YR 6/4 light yellowish brown sand	
6	G	11		I	0	1.2	10YR 4/3 brown sandy loam	
6	G	11		II	1.2	1.6	10YR 6/4 light yellowish brown sandy loam	
6	G	12		I	0	1.1	10YR 4/3 brown loamy sand	
6	G	12		II	1.1	1.5	10YR 7/4 very pale brown clay sand	
6	H	1		I	0	1.1	10YR 4/3 brown sandy loam	
6	H	1		II	1.1	1.6	10YR 5/6 yellowish brown sandy loam	

Area	Transect	STP	Radial	Level	Start Depth (ft.)	End Depth (ft.)	Soil Description	Comments
6	H	2		I	0	1.1	10YR 4/3 brown sandy loam	
6	H	2		II	1.1	1.6	10YR 5/6 yellowish brown sandy loam	
6	H	3		I	0	1.1	10YR 4/3 brown sandy loam	
6	H	3		II	1.1	1.6	10YR 5/6 yellowish brown sandy loam	
6	H	4		I	0	1.2	10YR 4/3 brown sandy loam	concrete impasse
6	H	5	East				NOT EXCAVATED	inundated
6	H	5	West	I	0	1	10YR 4/3 brown sandy loam	brick discarded
6	H	5	West	II	1	1.4	10YR 6/3 pale brown sand	
6	H	5		I	0	1	10YR 4/3 brown sandy loam	
6	H	5		II	1	1.5	10YR 5/6 yellowish brown sandy loam	
6	H	6		I	0	1	10YR 4/3 brown sandy loam	
6	H	6		II	1	1.5	10YR 5/6 yellowish brown sandy loam	
6	H	7		I	0	1	10YR 4/3 brown sandy loam	
6	H	7		II	1	1.5	10YR 5/6 yellowish brown sandy loam	
6	H	8		I	0	1	10YR 4/3 brown sandy loam	
6	H	8		II	1	1.5	10YR 5/6 yellowish brown sandy loam	
6	H	9		I	0	1.1	10YR 4/3 brown sandy loam	
6	H	9		II	1.1	1.6	10YR 5/6 yellowish brown sandy loam	
6	H	10		I	0	1.2	10YR 4/3 brown sandy loam	
6	H	10		II	1.2	1.7	10YR 5/6 yellowish brown sandy loam	
6	H	11		I	0	1.1	10YR 4/3 brown sandy loam	
6	H	11		II	1.1	1.6	10YR 5/6 yellowish brown sandy loam	
6	H	12		I	0	0.9	10YR 4/3 brown sandy loam	
6	H	12		II	0.9	1.4	10YR 5/6 yellowish brown sandy loam	
6	I	1		I	0	0.9	10YR 4/3 brown loamy sand	10% gravel
6	I	1		II	0.9	1.3	10YR 7/4 very pale brown clay sand	10% gravel
6	I	2	South	I	0	1	10YR 4/3 brown sandy loam	modern trash discarded
6	I	2	South	II	1	1.4	10YR 6/4 light yellowish brown sand	
6	I	2	West	I	0	1	10YR 4/3 brown sandy loam	
6	I	2	West	II	1	1.4	10YR 6/4 light yellowish brown sand	
6	I	2		I	0	1	10YR 4/3 brown loamy sand	10% gravel
6	I	2		II	1	1.4	10YR 7/4 very pale brown clay sand	10% gravel
6	I	3	North	I	0	1	10YR 4/3 brown sandy loam	brick discarded
6	I	3	North	II	1	1.4	10YR 6/3 pale brown sand	
6	I	3	South	I	0	1	10YR 4/3 brown sandy loam	modern trash discarded
6	I	3	South	II	1	1.4	10YR 6/3 pale brown sand	
6	I	3		I	0	1.1	10YR 4/3 brown loamy sand	
6	I	3		II	1.1	1.5	10YR 7/4 very pale brown clay sand	
6	I	4	North	I	0	1	10YR 4/3 brown sandy loam	brick discarded
6	I	4	North	II	1	1.4	10YR 6/3 pale brown sand	
6	I	4	South				NOT EXCAVATED	disturbed - graded ditch
6	I	4		I	0	1.1	10YR 4/3 brown loamy sand	brick discarded
6	I	4		II	1.1	1.5	10YR 7/4 very pale brown clay sand	
6	I	5	East				NOT EXCAVATED	disturbed - graded ditch
6	I	5		I	0	1	10YR 4/3 brown loamy sand	brick discarded
6	I	5		II	1	1.4	10YR 7/4 very pale brown clay sand	
6	I	6		I	0	0.8	10YR 4/3 brown loamy sand	brick discarded
6	I	6		II	0.8	1.2	10YR 7/4 very pale brown clay sand	
6	I	7		I	0	0.9	10YR 3/4 dark yellowish brown loamy sand	10% gravel

Area	Transect	STP	Radial	Level	Start Depth (ft.)	End Depth (ft.)	Soil Description	Comments
6	I	7		II	0.9	1.3	10YR 7/4 very pale brown clay sand	10% gravel
6	J	1		I	0	1	10YR 4/4 dark yellowish brown sandy loam	modern glass discarded
6	J	1		II	1	1.5	10YR 5/6 yellowish brown sandy loam	
6	J	2		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	plastic discarded
6	J	2		II	0.9	1.4	10YR 5/6 yellowish brown sandy loam	
6	J	3		I	0	0.8	10YR 4/4 dark yellowish brown sandy loam	
6	J	3		II	0.8	1.3	10YR 5/6 yellowish brown sandy loam	
2A	B	1		I	0	1	10YR 4/3 brown sandy loam	
2A	B	1		II	1	1.4	10YR 5/6 yellowish brown sandy loam	
2A	B	2		I	0	1	10YR 4/3 brown sandy loam	brick, coal discarded
2A	B	2		II	1	1.4	10YR 5/6 yellowish brown sandy loam	
2A	B	3		I	0	1.1	10YR 4/3 brown sandy loam	
2A	B	3		II	1.1	1.5	10YR 5/6 yellowish brown sandy loam	
2A	C	1		I	0	0.9	10YR 4/3 brown loamy sand	brick discarded
2A	C	1		II	0.9	1.3	10YR 6/4 light yellowish brown sand	
2A	C	2		I	0	1.2	10YR 4/3 brown loamy sand	shell, brick, coal discarded
2A	C	2		II	1.2	1.6	10YR 6/4 light yellowish brown sand	
2A	C	3	East	I	0	1.1	10YR 4/3 brown loamy sand	brick discarded
2A	C	3	East	II	1.1	1.5	10YR 7/4 very pale brown clay sand	
2A	C	3	North	I	0	1	10YR 4/3 brown loamy sand	brick and shell discarded
2A	C	3	North	II	1	1.4	10YR 7/4 very pale brown clay sand	
2A	C	3	West	I	0	1.2	10YR 4/3 brown loamy sand	brick and shell discarded
2A	C	3	West	II	1.2	1.6	10YR 7/4 very pale brown clay sand	
2A	C	3		I	0	1.1	10YR 4/3 brown loamy sand	shell discarded
2A	C	3		II	1.1	1.5	10YR 7/4 very pale brown sand	
2A	C	4		I	0	1.1	10YR 4/3 brown loamy sand	
2A	C	4		II	1.1	1.5	10YR 7/4 very pale brown sand	
2A	C	5		I	0	1	10YR 4/3 brown loamy sand	
2A	C	5		II	1	1.4	10YR 7/4 very pale brown sand	
2A	C	6	East	I	0	1	10YR 4/3 brown loamy sand	
2A	C	6	East	II	1	1.4	10YR 7/4 very pale brown clay sand	
2A	C	6	North	I	0	1.1	10YR 4/3 brown loamy sand	
2A	C	6	North	II	1.1	1.5	10YR 7/4 very pale brown sand	
2A	C	6	South	I	0	1	10YR 4/3 brown loamy sand	brick discarded
2A	C	6	South	II	1	1.4	10YR 7/4 very pale brown clay sand	
2A	C	6	West	I	0	1.1	10YR 4/3 brown loamy sand	
2A	C	6	West	II	1.1	1.5	10YR 7/4 very pale brown clay sand	
2A	C	6		I	0	0.9	10YR 4/3 brown loamy sand	coal discarded
2A	C	6		II	0.9	1.3	10YR 7/4 very pale brown sand	
2A	C	7	East	I	0	1	10YR 4/3 brown loamy sand	brick flecking
2A	C	7	East	II	1	1.4	10YR 7/2 light gray clay sand	
2A	C	7	North	I	0	1.3	10YR 4/3 brown loamy sand	brick discarded
2A	C	7	North	II	1.3	2.1	10YR 5/3 brown loamy sand	
2A	C	7	North	III	2.1	2.5	10YR 6/6 brownish yellow sand	
2A	C	7	South	I	0	0.8	10YR 4/3 brown loamy sand	
2A	C	7	South	II	0.8	1.2	10YR 7/2 light gray clay sand	
2A	C	7		I	0	1.2	10YR 4/3 brown loamy sand	
2A	C	7		II	1.2	1.6	10YR 7/4 very pale brown sand	
2A	C	8		I	0	1	10YR 4/3 brown loamy sand	

Area	Transect	STP	Radial	Level	Start Depth (ft.)	End Depth (ft.)	Soil Description	Comments
2A	C	8		II	1	2	10YR 5/3 brown loamy sand	brick flecking
2A	C	8		III	2	2.4	10YR 7/6 yellow sand	
2A	C	9		I	0	1	10YR 4/3 brown loamy sand	
2A	C	9		II	1	2.4	10YR 5/3 brown loamy sand	brick discarded
2A	C	9		III	2.4	2.8	10YR 7/6 yellow sand	
2A	C	10		I	0	1.7	10YR 5/3 brown loamy sand	
2A	C	10		II	1.7	2.1	10YR 7/6 yellow sand	
2A	D	1		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	coal discarded
2A	D	1		II	0.9	1.3	10YR 5/6 yellowish brown sandy loam	
2A	D	2		I	0	0.8	10YR 4/4 dark yellowish brown sandy loam	brick discarded
2A	D	2		II	0.8	1.2	10YR 5/6 yellowish brown sandy loam	
2A	D	3		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	coal and brick discarded
2A	D	3		II	0.9	1.3	10YR 5/6 yellowish brown sandy loam	
2A	D	4	East	I	0	0.9	10YR 4/3 brown loamy sand	brick discarded
2A	D	4	East	II	0.9	1.3	10YR 7/2 light gray clay sand	
2A	D	4	North	I	0	1	10YR 4/3 brown loamy sand	brick discarded
2A	D	4	North	II	1	1.4	10YR 7/2 light gray clay sand	
2A	D	4		I	0	0.8	10YR 4/4 dark yellowish brown sandy loam	shell discarded
2A	D	4		II	0.8	1.2	10YR 5/6 yellowish brown sandy loam	
2A	D	5		I	0	1	10YR 4/4 dark yellowish brown sandy loam	
2A	D	5		II	1	1.4	10YR 5/6 yellowish brown sandy loam	
2A	D	6		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	coal discarded
2A	D	6		II	0.9	1.3	10YR 5/6 yellowish brown sandy loam	
2A	D	7		I	0	0.8	10YR 4/4 dark yellowish brown sandy loam	brick discarded
2A	D	7		II	0.8	1.2	10YR 5/6 yellowish brown sandy loam	
2A	D	8		I	0	1.1	10YR 4/4 dark yellowish brown sandy loam	
2A	D	8		II	1.1	1.5	10YR 6/2 light brownish gray with 7.5YR 5/6 strong brown silty clay	
2A	D	9		I	0	0.8	10YR 4/4 dark yellowish brown sandy loam	
2A	D	9		II	0.8	1.2	10YR 5/6 yellowish brown sandy loam	
2A	D	10		I	0	0.8	10YR 4/3 brown loamy sand	
2A	D	10		II	0.8	1.2	10YR 7/4 very pale brown sand	
2A	D	11		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	coal discarded
2A	D	11		II	0.9	1.3	10YR 5/6 yellowish brown sandy loam	
2A	E	1		I	0	0.7	10YR 4/3 brown sandy loam	
2A	E	1		II	0.7	1.2	10YR 6/4 light yellowish brown sandy loam	
2A	E	2		I	0	0.9	10YR 4/3 brown sandy loam	brick discarded
2A	E	2		II	0.9	1.3	10YR 6/4 light yellowish brown sandy loam	
2A	E	3		I	0	0.9	10YR 4/3 brown sandy loam	brick discarded
2A	E	3		II	0.9	1.3	10YR 6/4 light yellowish brown sandy loam	
2A	E	4		I	0	0.8	10YR 4/3 brown sandy loam	
2A	E	4		II	0.8	1.2	10YR 6/4 light yellowish brown sandy loam	
2A	E	5		I	0	1	10YR 4/3 brown sandy loam	brick discarded
2A	E	5		II	1	1.4	10YR 6/4 light yellowish brown sandy loam	
2A	E	6		I	0	0.8	10YR 4/3 brown sandy loam	brick discarded
2A	E	6		II	0.8	1.2	10YR 6/4 light yellowish brown sandy loam	
2A	E	7		I	0	0.9	10YR 4/3 brown sandy loam	
2A	E	7		II	0.9	1.3	10YR 6/4 light yellowish brown sandy loam	
2A	E	8		I	0	0.9	10YR 4/3 brown sandy loam	
2A	E	8		II	0.9	1.3	10YR 6/4 light yellowish brown sandy loam	

Area	Transect	STP	Radial	Level	Start Depth (ft.)	End Depth (ft.)	Soil Description	Comments
2A	E	9		I	0	0.8	10YR 4/3 brown sandy loam	
2A	E	9		II	0.8	1.2	10YR 6/4 light yellowish brown sandy loam	
2A	E	10		I	0	1	10YR 4/3 brown sandy loam	coal discarded
2A	E	10		II	1	1.4	10YR 6/4 light yellowish brown sandy loam	
2A	E	11		I	0	1	10YR 4/4 dark yellowish brown sandy loam	coal discarded
2A	E	11		II	1	1.4	10YR 5/8 yellowish brown sandy loam	
2A	E	12		I	0	1	10YR 4/3 brown sandy loam	
2A	E	12		II	1	1.4	10YR 5/6 yellowish brown sandy loam	
2A	F	1	West	I	0	1.1	10YR 4/3 brown sandy loam	modern glass discarded
2A	F	1	West	II	1.1	1.5	10YR 5/6 yellowish brown sandy loam	
2A	F	1		I	0	0.9	10YR 4/3 brown sandy loam	
2A	F	1		II	0.9	1.3	10YR 5/6 yellowish brown sandy loam	
2A	F	2		I	0	0.9	10YR 4/3 brown sandy loam	
2A	F	2		II	0.9	1.3	10YR 5/6 yellowish brown sandy loam	
2A	F	3		I	0	1	10YR 4/3 brown sandy loam	brick discarded
2A	F	3		II	1	1.4	10YR 5/6 yellowish brown sandy loam	
2A	F	4		I	0	1	10YR 4/3 brown sandy loam	
2A	F	4		II	1	1.4	10YR 5/6 yellowish brown sandy loam	
2A	F	5		I	0	1	10YR 4/3 brown sandy loam	coal discarded
2A	F	5		II	1	1.4	10YR 5/6 yellowish brown sandy loam	
2A	F	6		I	0	1	10YR 4/3 brown sandy loam	
2A	F	6		II	1	1.4	10YR 5/6 yellowish brown sandy loam	
2A	F	7		I	0	1	10YR 4/3 brown sandy loam	coal discarded
2A	F	7		II	1	1.4	10YR 5/6 yellowish brown sandy loam	
2A	F	8		I	0	1	10YR 4/3 brown sandy loam	
2A	F	8		II	1	1.4	10YR 5/6 yellowish brown sandy loam	
2A	F	9		I	0	1	10YR 4/3 brown sandy loam	
2A	F	9		II	1	1.4	10YR 5/6 yellowish brown sandy loam	
2A	F	10		I	0	1	10YR 4/3 brown sandy loam	
2A	F	10		II	1	1.4	10YR 5/6 yellowish brown sandy loam	
2A	F	11		I	0	1	10YR 4/3 brown sandy loam	
2A	F	11		II	1	1.4	10YR 5/6 yellowish brown sandy loam	
2A	F	12		I	0	1	10YR 4/3 brown sandy loam	
2A	F	12		II	1	1.4	10YR 5/6 yellowish brown sandy loam	
2A	G	1	East	I	0	0.9	10YR 4/3 brown sandy loam	
2A	G	1	East	II	0.9	1.3	10YR 5/6 yellowish brown sandy loam	
2A	G	1		I	0	0.8	10YR 4/3 brown loamy sand	brick and shell discarded
2A	G	1		II	0.8	1.2	10YR 7/4 very pale brown sand	
2A	G	2		I	0	1	10YR 4/3 brown loamy sand	brick and shell discarded
2A	G	2		II	1	1.4	10YR 7/4 very pale brown sand	
2A	G	3		I	0	1	10YR 4/3 brown loamy sand	brick and shell discarded
2A	G	3		II	1	1.6	10YR 4/2 dark grayish brown loamy sand	with carbon flecking/stopped excavating for possible feature
2A	G	4		I	0	0.8	10YR 4/3 brown loamy sand	brick discarded
2A	G	4		II	0.8	1.2	10YR 7/4 very pale brown sand	
2A	G	5	East	I	0	0.9	10YR 4/3 brown sandy loam	
2A	G	5	East	II	0.9	1.4	10YR 5/6 yellowish brown sandy loam	
2A	G	5	North	I	0	0.9	10YR 4/3 brown sandy loam	

Area	Transect	STP	Radial	Level	Start Depth (ft.)	End Depth (ft.)	Soil Description	Comments
2A	G	5	North	II	0.9	1.4	10YR 5/6 yellowish brown sandy loam	
2A	G	5	West	I	0	0.9	10YR 4/3 brown sandy loam	
2A	G	5	West	II	0.9	1.4	10YR 5/6 yellowish brown sandy loam	
2A	G	5		I	0	1	10YR 4/3 brown loamy sand	
2A	G	5		II	1	1.4	10YR 7/2 light gray clay sand	
2A	G	6		I	0	0.9	10YR 4/3 brown clay sand	
2A	G	6		II	0.9	1.3	10YR 7/2 light gray clay sand	
2A	G	7	East	I	0	1	10YR 4/3 brown sandy loam	brick discarded
2A	G	7	East	II	1	1.5	10YR 5/6 yellowish brown sandy loam	
2A	G	7	North	I	0	1	10YR 4/3 brown sandy loam	
2A	G	7	North	II	1	1.4	10YR 5/6 yellowish brown sandy loam	
2A	G	7	South	I	0	0.9	10YR 4/3 brown sandy loam	
2A	G	7	South	II	0.9	1.4	10YR 5/6 yellowish brown sandy loam	
2A	G	7	West				NOT EXCAVATED	water
2A	G	7		I	0	1	10YR 4/3 brown loamy sand	
2A	G	7		II	1	1.4	10YR 7/4 very pale brown sand	
2A	G	8		I	0	1	10YR 4/3 brown loamy sand	
2A	G	8		II	1	1.4	10YR 7/4 very pale brown sand	
2A	G	9		I	0	1	10YR 4/3 brown loamy sand	shell discarded
2A	G	9		II	1	1.4	10YR 7/4 very pale brown sand	
2A	G	10	East	I	0	1	10YR 4/3 brown sandy loam	
2A	G	10	East	II	1	1.4	10YR 5/6 yellowish brown sandy loam	
2A	G	10	North	I	0	0.9	10YR 4/3 brown sandy loam	
2A	G	10	North	II	0.9	1.3	10YR 5/6 yellowish brown sandy loam	
2A	G	10	South	I	0	0.9	10YR 4/3 brown sandy loam	
2A	G	10	South	II	0.9	1.3	10YR 5/6 yellowish brown sandy loam	
2A	G	10	West	I	0	1	10YR 4/3 brown sandy loam	
2A	G	10	West	II	1	1.5	10YR 5/6 yellowish brown sandy loam	
2A	G	10		I	0	0.9	10YR 4/3 brown loamy sand	
2A	G	10		II	0.9	1.3	10YR 7/4 very pale brown sand	
2A	G	11		I	0	1	10YR 4/3 brown loamy sand	brick flecking
2A	G	11		II	1	1.4	10YR 7/2 light gray clay sand	
2A	G	12		I	0	1	10YR 4/3 brown loamy sand	
2A	G	12		II	1	1.4	10YR 7/2 light gray clay sand	
2A	H	1		I	0	0.8	10YR 4/3 brown sandy loam	
2A	H	1		II	0.8	1.5	10YR 5/6 yellowish brown sandy loam	
2A	H	2		I	0	0.8	10YR 4/3 brown sandy loam	
2A	H	2		II	0.8	1.4	10YR 5/6 yellowish brown sandy loam	
2A	H	3		I	0	0.8	10YR 4/3 brown sandy loam	brick discarded
2A	H	3		II	0.8	1.4	10YR 5/6 yellowish brown sandy loam	
2A	H	4		I	0	0.9	10YR 4/3 brown sandy loam	
2A	H	4		II	0.9	1.4	10YR 5/6 yellowish brown sandy loam	
2A	H	5		I	0	0.9	10YR 4/3 brown sandy loam	
2A	H	5		II	0.9	1.4	10YR 5/6 yellowish brown sandy loam	
2A	H	6		I	0	0.9	10YR 4/3 brown sandy loam	
2A	H	6		II	0.9	1.3	10YR 5/6 yellowish brown sandy loam	
2A	H	7		I	0	0.9	10YR 4/3 brown silty sand	
2A	H	7		II	0.9	1.3	10YR 5/6 yellowish brown silty sand	
2A	H	8		I	0	0.8	10YR 4/3 brown silty sand	

Area	Transect	STP	Radial	Level	Start Depth (ft.)	End Depth (ft.)	Soil Description	Comments
2A	H	8		II	0.8	1.3	10YR 5/6 yellowish brown silty sand	
2A	H	9		I	0	0.9	10YR 4/3 brown silty sand	
2A	H	9		II	0.9	1.4	10YR 5/6 yellowish brown silty sand	
2A	H	10		I	0	0.9	10YR 4/3 brown silty sand	
2A	H	10		II	0.9	1.6	10YR 5/6 yellowish brown silty sand	
2A	H	11		I	0	0.9	10YR 4/3 brown silty sand	
2A	H	11		II	0.9	1.6	10YR 5/6 yellowish brown silty sand	
2A	H	12		I	0	0.9	10YR 4/3 brown silty sand	
2A	H	12		II	0.9	1.6	10YR 5/6 yellowish brown silty sand	
2A	I	1	West	I	0	1.3	10YR 4/4 dark yellowish brown sandy loam	discarded 5 modern bottle glass, 2 plastic
2A	I	1	West	II	1.3	1.8	10YR 5/6 yellowish brown sandy loam	
2A	I	1		I	0	0.8	10YR 4/4 dark yellowish brown sandy loam	coal discarded
2A	I	1		II	0.8	1.2	10YR 5/6 yellowish brown sandy loam	
2A	I	2		I	0	1	10YR 4/4 dark yellowish brown sandy loam	coal and brick discarded
2A	I	2		II	1	1.4	10YR 5/6 yellowish brown sandy loam	
2A	I	3	East	I	0	1.1	10YR 4/4 dark yellowish brown sandy loam	
2A	I	3	East	II	1.1	1.6	10YR 5/6 yellowish brown sandy loam	
2A	I	3	North	I	0	1.2	10YR 4/4 dark yellowish brown sandy loam	
2A	I	3	North	II	1.2	1.6	10YR 5/6 yellowish brown sandy loam	
2A	I	3		I	0	0.8	10YR 4/4 dark yellowish brown sandy loam	
2A	I	3		II	0.8	1.2	10YR 5/6 yellowish brown sandy loam	
2A	I	4		I	0	0.8	10YR 4/4 dark yellowish brown sandy loam	modern plastic discarded
2A	I	4		II	0.8	1.2	10YR 5/6 yellowish brown sandy loam	
2A	I	5	East	I	0	0.8	10YR 4/4 dark yellowish brown sandy loam	
2A	I	5	East	II	0.8	1.3	10YR 5/6 yellowish brown sandy loam	
2A	I	5	North	I	0	1	10YR 4/4 dark yellowish brown sandy loam	clam shell discarded
2A	I	5	North	II	1	1.5	10YR 5/6 yellowish brown sandy loam	
2A	I	5	South	I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
2A	I	5	South	II	0.9	1.4	10YR 5/6 yellowish brown sandy loam	
2A	I	5	West	I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
2A	I	5	West	II	0.9	1.4	10YR 5/6 yellowish brown sandy loam	
2A	I	5		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
2A	I	5		II	0.9	1.3	10YR 5/6 yellowish brown sandy loam	
2A	I	6		I	0	0.7	10YR 4/4 dark yellowish brown sandy loam	
2A	I	6		II	0.7	1.1	10YR 5/6 yellowish brown sandy loam	
2A	I	7	East	I	0	0.8	10YR 4/4 dark yellowish brown sandy loam	
2A	I	7	East	II	0.8	1.3	10YR 5/6 yellowish brown sandy loam	
2A	I	7	North	I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
2A	I	7	North	II	0.9	1.4	10YR 5/6 yellowish brown sandy loam	
2A	I	7	South	I	0	0.8	10YR 4/4 dark yellowish brown sandy loam	brick discarded
2A	I	7	South	II	0.8	1.4	10YR 5/6 yellowish brown sandy loam	
2A	I	7	West	I	0	0.8	10YR 4/4 dark yellowish brown sandy loam	
2A	I	7	West	II	0.8	1.4	10YR 5/6 yellowish brown sandy loam	
2A	I	7		I	0	0.7	10YR 4/4 dark yellowish brown sandy loam	
2A	I	7		II	0.7	1.1	10YR 5/6 yellowish brown sandy loam	
2A	I	8		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
2A	I	8		II	0.9	1.4	10YR 5/6 yellowish brown sandy loam	
2A	I	9		I	0	0.8	10YR 4/4 dark yellowish brown sandy loam	

Area	Transect	STP	Radial	Level	Start Depth (ft.)	End Depth (ft.)	Soil Description	Comments
2A	I	9		II	0.8	1.2	10YR 5/6 yellowish brown sandy loam	
2A	I	10		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
2A	I	10		II	0.9	1.5	10YR 5/6 yellowish brown sandy loam	
2A	I	11		I	0	1.1	10YR 4/4 dark yellowish brown sandy loam	
2A	I	11		II	1.1	1.5	10YR 5/6 yellowish brown sandy loam	
2A	I	12	East	I	0	1	10YR 4/4 dark yellowish brown sandy loam	
2A	I	12	East	II	1	1.5	10YR 5/6 yellowish brown sandy loam	
2A	I	12	South	I	0	1	10YR 4/4 dark yellowish brown sandy loam	
2A	I	12	South	II	1	1.5	10YR 5/6 yellowish brown sandy loam	
2A	I	12	West	I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
2A	I	12	West	II	0.9	1.4	10YR 5/6 yellowish brown sandy loam	
2A	I	12		I	0	1.1	10YR 4/4 dark yellowish brown sandy loam	coal discarded
2A	I	12		I	0	1.2	10YR 4/3 brown loamy sand	
2A	I	12		II	1.1	1.5	10YR 5/6 yellowish brown sandy loam	
2A	I	12		II	1.2	1.6	10YR 7/2 light gray clay sand	
2A	J	1		I	0	1	10YR 4/2 dark grayish brown sandy loam	modern glass discarded
2A	J	1		II	1	1.4	10YR 6/4 light yellowish brown sandy loam	
2A	J	2		I	0	0.8	10YR 4/2 dark grayish brown sandy loam	
2A	J	2		II	0.8	1.2	10YR 6/4 light yellowish brown sandy loam	
2A	J	3		I	0	0.75	10YR 4/3 brown sandy loam	
2A	J	3		II	0.75	1.1	10YR 6/4 light yellowish brown sandy loam	
2A	J	4		I	0	0.8	10YR 4/3 brown sandy loam	
2A	J	4		II	0.8	1.2	10YR 6/4 light yellowish brown sandy loam	
2A	J	5		I	0	0.9	10YR 4/3 brown sandy loam	
2A	J	5		II	0.9	1.3	2.5Y 7/2 light gray sandy loam	
2A	J	6		I	0	0.8	10YR 4/3 brown sandy loam	
2A	J	6		II	0.8	1.2	10YR 6/4 light yellowish brown sandy loam	
2A	J	7		I	0	0.8	10YR 4/3 brown sandy loam	
2A	J	7		II	0.8	1.2	10YR 6/4 light yellowish brown sandy loam	
2A	J	8					NOT EXCAVATED	standing water
2A	J	9		I	0	0.8	10YR 4/3 brown sandy loam	
2A	J	9		II	0.8	1.2	10YR 6/4 light yellowish brown sandy loam	
2A	J	10		I	0	0.9	10YR 4/3 brown sandy loam	
2A	J	10		II	0.9	1.3	10YR 6/4 light yellowish brown sandy loam	
2A	J	11	East	I	0	1.1	10YR 4/2 dark grayish brown sandy loam	
2A	J	11	East	II	1.1	1.5	10YR 6/2 light brownish gray sandy loam	
2A	J	11	North	I	0	1.35	10YR 4/3 brown sandy loam	
2A	J	11	North	II	1.35	1.75	10YR 6/4 light yellowish brown sandy loam	
2A	J	11	South	I	0	0.9	10YR 4/2 dark grayish brown sandy loam	
2A	J	11	South	II	0.9	1.3	10YR 6/2 light brownish gray sandy loam	
2A	J	11	West	I	0	1.1	10YR 4/2 dark grayish brown sandy loam	
2A	J	11	West	II	1.1	1.5	10YR 6/2 light brownish gray sandy loam	
2A	J	11		I	0	0.9	10YR 4/3 brown sandy loam	
2A	J	11		II	0.9	1.3	2.5Y 7/2 light gray sandy loam	
2A	K	1		I	0	0.9	10YR 4/3 brown sandy loam	
2A	K	1		II	0.9	1.4	10YR 5/6 yellowish brown sandy loam	
2A	K	2		I	0	0.8	10YR 4/3 brown sandy loam	
2A	K	2		II	0.8	1.8	10YR 5/6 yellowish brown sandy loam	
2A	K	3		I	0	1	10YR 4/3 brown sandy loam	

Area	Transect	STP	Radial	Level	Start Depth (ft.)	End Depth (ft.)	Soil Description	Comments
2A	K	3		II	1	1.6	10YR 5/6 yellowish brown sandy loam	
2A	K	4		I	0	0.8	10YR 4/3 brown sandy loam	
2A	K	4		II	0.8	1.7	10YR 5/6 yellowish brown sandy loam	
2A	K	5		I	0	1	10YR 4/3 brown sandy loam	
2A	K	5		II	1	1.5	10YR 5/6 yellowish brown sandy loam	
2A	K	6		I	0	0.8	10YR 4/3 brown sandy loam	
2A	K	6		II	0.8	1.8	10YR 5/6 yellowish brown sandy loam	
2A	K	7		I	0	0.8	10YR 4/3 brown sandy loam	
2A	K	7		II	0.8	1.3	10YR 5/6 yellowish brown sandy loam	
2A	K	8		I	0	0.8	10YR 4/3 brown sandy loam	
2A	K	8		II	0.8	1.6	10YR 5/6 yellowish brown sandy loam	
2A	K	9		I	0	0.9	10YR 4/3 brown sandy loam	
2A	K	9		II	0.9	1.6	10YR 5/6 yellowish brown sandy loam	
2A	K	10		I	0	0.8	10YR 4/3 brown sandy loam	
2A	K	10		II	0.8	1.5	10YR 5/6 yellowish brown sandy loam	
2A	K	11		I	0	0.9	10YR 4/3 brown sandy loam	
2A	K	11		II	0.9	1.5	10YR 5/6 yellowish brown sandy loam	
2A	K	12		I	0	0.8	10YR 4/3 brown sandy loam	
2A	K	12		II	0.8	1.7	10YR 5/6 yellowish brown sandy loam	
2A	L	1		I	0	0.8	10YR 4/3 brown sandy loam	
2A	L	1		II	0.8	1.2	10YR 6/4 light yellowish brown sandy loam	
2A	L	2		I	0	0.9	10YR 4/3 brown sandy loam	
2A	L	2		II	0.9	1.3	10YR 6/4 light yellowish brown sandy loam	
2A	L	3		I	0	0.9	10YR 4/3 brown sandy loam	
2A	L	3		II	0.9	1.3	10YR 6/4 light yellowish brown sandy loam	
2A	L	4		I	0	0.8	10YR 4/3 brown sandy loam	
2A	L	4		II	0.8	1.2	2.5Y 7/2 light gray with 10YR 5/6 yellowish brown sandy loam	
2A	L	5	East	I	0	0.9	10YR 4/2 dark grayish brown sandy loam	
2A	L	5	East	II	0.9	1.6	10YR 6/4 light yellowish brown sandy loam	
2A	L	5	North	I	0	0.9	10YR 4/2 dark grayish brown sandy loam	
2A	L	5	North	II	0.9	1.8	10YR 6/4 light yellowish brown sandy loam	
2A	L	5	South	I	0	0.8	10YR 4/2 dark grayish brown sandy loam	
2A	L	5	South	II	0.8	1.7	10YR 6/4 light yellowish brown sandy loam	
2A	L	5	West	I	0	0.9	10YR 4/2 dark grayish brown sandy loam	
2A	L	5	West	II	0.9	1.6	10YR 6/4 light yellowish brown sandy loam	
2A	L	5		I	0	0.8	10YR 4/3 brown sandy loam	
2A	L	5		II	0.8	1.2	10YR 6/4 light yellowish brown sandy loam	
2A	L	6		I	0	0.7	10YR 4/3 brown sandy loam	
2A	L	6		II	0.7	1.1	10YR 6/4 light yellowish brown sandy loam	
2A	L	7		I	0	1	10YR 4/3 brown sandy loam	
2A	L	7		II	1	1.4	2.5Y 7/2 light gray sandy loam	
2A	L	8		I	0	1.1	10YR 4/3 brown sandy loam	
2A	L	8		II	1.1	1.5	10YR 6/4 light yellowish brown sandy loam	
2A	L	9		I	0	0.9	10YR 4/3 brown sandy loam	
2A	L	9		II	0.9	1.3	10YR 6/4 light yellowish brown sandy loam	
2A	L	10		I	0	0.7	10YR 4/3 brown sandy loam	
2A	L	10		II	0.7	1.1	10YR 6/4 light yellowish brown sandy loam	
2A	L	11		I	0	1.1	10YR 4/3 brown sandy loam	
2A	L	11		II	1.1	1.9	10YR 5/6 yellowish brown sandy loam	

Area	Transect	STP	Radial	Level	Start Depth (ft.)	End Depth (ft.)	Soil Description	Comments
2A	L	12		I	0	1	10YR 4/3 brown sandy loam	
2A	L	12		II	1	1.6	10YR 5/6 yellowish brown sandy loam	
2A	M	1		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	coal discarded
2A	M	1		II	0.9	1.4	10YR 5/6 yellowish brown sandy loam	
2A	M	2		I	0	1	10YR 4/4 dark yellowish brown sandy loam	coal and clam shell discarded
2A	M	2		II	1	1.5	10YR 5/6 yellowish brown sandy loam	
2A	M	3		I	0	0.8	10YR 4/4 dark yellowish brown sandy loam	
2A	M	3		II	0.8	1.2	10YR 5/6 yellowish brown sandy loam	
2A	M	4		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
2A	M	4		II	0.9	1.4	10YR 5/6 yellowish brown sandy loam	
2A	M	5		I	0	1	10YR 4/4 dark yellowish brown sandy loam	
2A	M	5		II	1	1.5	10YR 5/6 yellowish brown sandy loam	
2A	M	6		I	0	0.8	10YR 4/4 dark yellowish brown sandy loam	
2A	M	6		II	0.8	1.2	10YR 5/6 yellowish brown sandy loam	
2A	M	7		I	0	0.7	10YR 4/4 dark yellowish brown sandy loam	
2A	M	7		II	0.7	1.2	10YR 5/6 yellowish brown sandy loam	
2A	M	8		I	0	1	10YR 4/4 dark yellowish brown sandy loam	
2A	M	8		II	1	1.5	10YR 5/6 yellowish brown sandy loam	
2A	M	9		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
2A	M	9		II	0.9	1.4	10YR 5/6 yellowish brown sandy loam	
2A	M	10		I	0	0.7	10YR 4/4 dark yellowish brown sandy loam	
2A	M	10		II	0.7	1.2	10YR 5/6 yellowish brown sandy loam	
2A	M	11		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	coal discarded
2A	M	11		II	0.9	1.4	10YR 5/6 yellowish brown sandy loam	
2A	M	12		I	0	1.2	10YR 4/4 dark yellowish brown sandy loam	coal discarded/on slight rise on edge of PA
2A	M	12		II	1.2	1.7	10YR 5/6 yellowish brown sandy loam	
2A	N	1	East	I	0	0.8	10YR 4/2 dark grayish brown sandy loam	
2A	N	1	East	II	0.8	1.8	10YR 6/4 light yellowish brown sandy loam	
2A	N	1	North	I	0	0.9	10YR 4/2 dark grayish brown sandy loam	
2A	N	1	North	II	0.9	1.8	10YR 6/4 light yellowish brown sandy loam	
2A	N	1	South	I	0	1	10YR 4/2 dark grayish brown sandy loam	
2A	N	1	South	II	1	1.9	10YR 6/4 light yellowish brown sandy loam	
2A	N	1		I	0	0.9	10YR 4/3 brown loamy sand	coal discarded
2A	N	1		II	0.9	1.3	10YR 7/4 very pale brown sandy clay	
2A	N	2		I	0	1	10YR 4/3 brown loamy sand	
2A	N	2		II	1	1.4	10YR 7/4 very pale brown sandy clay	
2A	N	3		I	0	1	10YR 4/3 brown loamy sand	
2A	N	3		II	1	1.4	10YR 7/4 very pale brown sandy clay	
2A	N	4		I	0	0.8	10YR 4/3 brown loamy sand	brick discarded
2A	N	4		II	0.8	1.2	10YR 7/4 very pale brown sandy clay	
2A	N	5		I	0	0.8	10YR 4/3 brown loamy sand	
2A	N	5		II	0.8	1.2	10YR 7/2 light gray sand	
2A	N	6		I	0	0.8	10YR 4/4 dark yellowish brown clay sand	area flooded
2A	N	6		II	0.8	1.2	10YR 7/2 light gray clay sand	
2A	N	7		I	0	0.8	10YR 4/4 dark yellowish brown clay sand	area flooded
2A	N	7		II	0.8	1.2	10YR 7/2 light gray clay sand	
2A	N	8		I	0	0.3	10YR 4/4 dark yellowish brown clay sand	standing water
2A	N	9		I	0	0.9	10YR 4/4 dark yellowish brown clay sand	

Area	Transect	STP	Radial	Level	Start Depth (ft.)	End Depth (ft.)	Soil Description	Comments
2A	N	9		II	0.9	1.3	10YR 7/2 light gray clay sand	
2A	N	10	East	I	0	0.85	10YR 4/2 dark grayish brown sandy loam	
2A	N	10	East	II	0.85	1.3	10YR 6/4 light yellowish brown sandy loam	
2A	N	10	North	I	0	0.9	10YR 4/2 dark grayish brown sandy loam	
2A	N	10	North	II	0.9	1.3	10YR 6/4 light yellowish brown sandy loam	
2A	N	10	South	I	0	0.9	10YR 4/2 dark grayish brown sandy loam	
2A	N	10	South	II	0.9	1.3	10YR 6/4 light yellowish brown sandy loam	
2A	N	10	West	I	0	0.9	10YR 4/2 dark grayish brown sandy loam	
2A	N	10	West	II	0.9	1.3	10YR 6/4 light yellowish brown sandy loam	
2A	N	10		I	0	1	10YR 4/3 brown loamy sand	
2A	N	10		II	1	1.4	10YR 7/4 very pale brown clay sand	
2A	N	11		I	0	1	10YR 4/3 brown loamy sand	
2A	N	11		II	1	1.4	10YR 7/4 very pale brown clay sand	
2A	N	12		I	0	1.1	10YR 4/3 brown loamy sand	
2A	N	12		II	1.1	1.5	10YR 7/2 light gray clay sand	
2A	O	1		I	0	0.8	10YR 4/4 dark yellowish brown sandy loam	
2A	O	1		II	0.8	1.3	10YR 5/6 yellowish brown sandy loam	
2A	O	2	East	I	0	0.9	10YR 4/2 dark grayish brown sandy loam	
2A	O	2	East	I	0	1.1	10YR 4/3 brown loamy sand	
2A	O	2	East	II	0.9	1.6	10YR 6/4 light yellowish brown sandy loam	
2A	O	2	East	II	1.1	1.5	10YR 7/4 very pale brown clay sand	
2A	O	2	North	I	0	0.9	10YR 4/3 brown sandy loam	
2A	O	2	North	II	0.9	1.3	10YR 5/6 yellowish brown sandy loam	
2A	O	2	South	I	0	0.8	10YR 4/4 dark yellowish brown sandy loam	
2A	O	2	South	II	0.8	1.2	10YR 5/6 yellowish brown sandy loam	
2A	O	2		I	0	1	10YR 4/3 brown loamy sand	
2A	O	2		II	1	1.4	10YR 7/4 very pale brown clay sand	
2A	O	3		I	0	1.1	10YR 4/3 brown loamy sand	
2A	O	3		II	1.1	1.5	10YR 7/4 very pale brown clay sand	
2A	O	4		I	0	0.9	10YR 4/3 brown loamy sand	
2A	O	4		II	0.9	1.3	10YR 7/4 very pale brown clay sand	
2A	O	5		I	0	1	10YR 4/3 brown loamy sand	
2A	O	5		II	1	1.4	10YR 7/4 very pale brown clay sand	
2A	O	6		I	0	1	10YR 4/3 brown loamy sand	
2A	O	6		II	1	1.4	10YR 7/4 very pale brown clay sand	
2A	O	7		I	0	1.1	10YR 5/3 brown clay sand	
2A	O	7		II	1.1	1.5	10YR 7/2 light gray with 10YR 5/3 brown clay sand	hydric
2A	O	8		I	0	0.9	10YR 4/3 brown loamy sand	clam shell discarded
2A	O	8		II	0.9	1.3	10YR 7/2 light gray clay sand	
2A	O	9		I	0	1	10YR 4/3 brown loamy sand	
2A	O	9		II	1	1.4	10YR 7/4 very pale brown clay sand	
2A	O	10		I	0	1	10YR 4/3 brown loamy sand	
2A	O	10		II	1	1.4	10YR 7/4 very pale brown clay sand	
2A	O	11		I	0	1	10YR 4/3 brown loamy sand	
2A	O	11		II	1	1.4	10YR 7/4 very pale brown clay sand	
2A	O	12		I	0	1.2	10YR 4/3 brown loamy sand	
2A	O	12		II	1.2	1.6	10YR 7/2 light gray clay sand	
2A	P	1		I	0	0.8	10YR 4/3 brown sandy loam	
2A	P	1		II	0.8	1.2	10YR 6/4 light yellowish brown sandy loam	

Area	Transect	STP	Radial	Level	Start Depth (ft.)	End Depth (ft.)	Soil Description	Comments
2A	P	2		I	0	0.95	10YR 4/3 brown sandy loam	
2A	P	2		II	0.95	1.4	2.5Y 7/2 light gray sandy loam	
2A	P	3		I	0	0.95	10YR 4/3 brown sandy loam	
2A	P	3		II	0.95	1.4	10YR 6/4 light yellowish brown sandy loam	
2A	P	4		I	0	0.8	10YR 4/3 brown sandy loam	
2A	P	4		II	0.8	1.2	10YR 6/4 light yellowish brown sandy loam	
2A	P	5		I	0	0.85	10YR 4/3 brown sandy loam	modern glass discarded
2A	P	5		II	0.85	1.3	10YR 6/4 light yellowish brown sandy loam	
2A	P	6		I	0	1	10YR 4/3 brown sandy loam	
2A	P	6		II	1	1.4	10YR 6/4 light yellowish brown sandy loam	
2A	P	7		I	0	0.9	10YR 4/3 brown sandy loam	
2A	P	7		II	0.9	1.3	10YR 6/4 light yellowish brown sandy loam	
2A	P	8		I	0	0.8	10YR 4/4 dark yellowish brown sandy loam	
2A	P	8		II	0.8	1.3	10YR 5/6 yellowish brown sandy loam	
2A	P	9		I	0	0.7	10YR 4/4 dark yellowish brown sandy loam	
2A	P	9		II	0.7	1.2	10YR 5/6 yellowish brown sandy loam	
2A	P	10		I	0	0.9	10YR 4/3 brown sandy loam	
2A	P	10		II	0.9	1.3	10YR 6/4 light yellowish brown sandy loam	
2A	P	11		I	0	0.6	10YR 4/4 dark yellowish brown sandy loam	
2A	P	11		II	0.6	1.1	10YR 5/6 yellowish brown sandy loam	
2A	P	12		I	0	0.75	10YR 4/2 dark grayish brown sandy loam	offset 5' west
2A	P	12		II	0.75	1.2	10YR 6/4 light yellowish brown sandy loam	
2A	Q	1		I	0	0.8	10YR 4/4 dark yellowish brown sandy loam	
2A	Q	1		II	0.8	1.3	10YR 5/6 yellowish brown sandy loam	
2A	Q	2		I	0	0.9	10YR 4/4 dark yellowish brown sandy loam	
2A	Q	2		II	0.9	1.6	10YR 5/6 yellowish brown sandy loam	
2A	Q	3		I	0	0.7	10YR 4/4 dark yellowish brown sandy loam	
2A	Q	3		II	0.7	1.2	10YR 5/6 yellowish brown sandy loam	
2A	Q	4					NOT EXCAVATED	inundated at surface
2A	Q	5		I	0	0.8	10YR 4/4 dark yellowish brown sandy loam	
2A	Q	5		II	0.8	1.3	10YR 5/6 yellowish brown sandy loam	
2A	Q	6		I	0	0.7	10YR 4/4 dark yellowish brown sandy loam	
2A	Q	6		II	0.7	1.2	10YR 5/6 yellowish brown sandy loam	
2A	Q	7		I	0	1.1	10YR 4/4 dark yellowish brown sandy loam	
2A	Q	7		II	1.1	1.6	10YR 5/6 yellowish brown sandy loam	

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APPENDIX B: ARTIFACT CATALOG

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Site/IF	Area	STP/TU	Strat	Level	Count	Object	Part	Material	Color	Ware	Exterior Decoration	Interior Decoration	Pattern/Motif	Manufacture Tech.	Comments
IF 1	1	S-19	I	1	1	Hollowware	Body	Coarse Earthenware		Redware	Manganese Lead Glaze	Glaze Missing			
IF 2	1	P-35	I	1	1	Hollowware	Foot Rim/Foot Ring	Refined Earthenware		Pearlware	None Present	None Present			
IF 3	1	V-15	I	1	1	Hollowware	Body	Coarse Earthenware	Yellow	Redware	Clear Lead Glazed	Unglazed	Interior Slip		
IF 4	1	P-39	I	1	1	Window Glass	Fragment	Glass	Aqua						
IF 5	5	M-19	I	1	1	Tableware	Rim	Refined Earthenware	Purple	Whiteware	Transfer Print Underglaze	None Present			
IF 6	2A	O-7	I	1	1	Vessel, hollow	Body	Glass	Aqua						
IF 7	5	W-5	I	1	1	Plate	Rim	Refined Earthenware	Blue	Whiteware	Edged		Shell Edge, Unscaloped, Impressed Repetitive		
7S-F-174	1	A-12	I	1	1	Indeterminate	Indeterminate	Glass	Purple					Indeterminate	
7S-F-174	1	A-17	I	1	2	Hollowware	Body	Refined Earthenware		Ironstone	None Present	None Present			
7S-F-174	1	A-17	I	1	2	Vessel, hollow	Body	Glass	Clear					Indeterminate	
7S-F-174	1	B-18	I	1	1	Nail	Complete	Iron						Cut, Machine Cut Head	
7S-F-174	1	B-18 East	I	1	4	Nail	Shaft	Iron						Cut, No head	
7S-F-174	1	B-18 East	I	1	1	Nail	Complete	Iron						Cut, Machine Cut Head	
7S-F-174	1	B-5	I	1	1	Nail	Complete	Iron						Ungalvanized Wire	
7S-F-174	1	B-5	I	1	1	Hollowware	Body	Refined Earthenware		Creamware	None Present	None Present			
7S-F-174	1	C-11	I	1	1	Indeterminate	Indeterminate	Glass	Aqua					Indeterminate	Melted
7S-F-174	1	C-11 North	I	1	1	Glass Fragment, Curved	Body	Glass	Aqua					Indeterminate	
7S-F-174	1	C-12	I	1	1	Hollowware	Foot Rim/Foot Ring	Refined Earthenware		Ironstone	None Present	None Present			
7S-F-174	1	C-12 South	I	1	2	Indeterminate	Body	Glass	Aqua					Indeterminate	Melted
7S-F-174	1	C-3	I	1	1	Nail	Complete	Iron						Cut, Machine Cut Head	
7S-F-174	1	C-3 East	I	1	1	Nail	Head and Shaft	Iron						Cut, Machine Cut Head	
7S-F-174	1	C-3 South	I	1	1	Nail	Complete	Iron						Ungalvanized Wire	
7S-F-174	1	C-6	I	1	1	Nail	Complete	Iron						Cut, Machine Cut Head	
7S-F-174	1	C-6 South	I	1	1	Nail	Complete	Iron						Ungalvanized Wire	
7S-F-174	1	C-6 South	I	1	1	Hollowware	Body	Glass	Amber					Indeterminate	
7S-F-174	1	D-10	I	1	1	Nail	Shaft	Iron						Cut, No head	

Site/IF	Area	STP/TU	Strat	Level	Count	Object	Part	Material	Color	Ware	Exterior Decoration	Interior Decoration	Pattern/Motif	Manufacture Tech.	Comments
174															
7S-F-174	1	D-10 East	I	1	1	Glass Fragment, Curved	Body	Glass	Clear						Crizzled
7S-F-174	1	D-12	I	1	1	Hollowware	Body	Refined Earthenware		Whiteware	None Present	None Present			
7S-F-174	1	D-12	I	1	1	Indeterminate	Indeterminate	Glass							Melted
7S-F-174	1	D-12 South	I	1	1	Indeterminate	Body	Glass	Aqua					Indeterminate	
7S-F-174	1	D-12 South	I	1	1	Glass Fragment, Curved	Body	Glass	Solarized					Indeterminate	
7S-F-174	1	D-18	I	1	2	Window Glass	Fragment	Glass	Aqua						
7S-F-174	1	D-18 North	I	1	1	Hollowware	Body	Refined Earthenware		Ironstone	None Present	None Present			
7S-F-174	1	D-18 West	I	1	1	Vessel, hollow	Body	Glass	Aqua					Indeterminate	
7S-F-174	1	D-18 West	I	1	1	Vessel, hollow	Body	Glass	Clear					Indeterminate	
7S-F-174	1	D-19	I	1	3	Nail	Shaft	Iron						Cut, No head	
7S-F-174	1	D-19	I	1	2	Vessel, hollow	Body	Glass	Clear					Indeterminate	
7S-F-174	1	D-19 East	I	1	1	Nail	Complete	Iron						Cut, Machine Cut Head	
7S-F-174	1	D-19 East	I	1	2	Nail	Shaft	Iron						Cut, No head	
7S-F-174	1	D-19 East	I	1	1	Vessel, hollow	Body	Glass	Clear					Indeterminate	
7S-F-174	1	D-19 East	I	1	2	Vessel, hollow	Body	Glass	Aqua					Indeterminate	
7S-F-174	1	D-19 West	I	1	1	Window Glass	Fragment	Glass	Aqua						
7S-F-174	1	D-19 West	I	1	1	Vessel, hollow	Shoulder	Glass	Blue					Molded	
7S-F-174	1	D-19 West	I	1	1	Indeterminate	Body	Glass	Clear						
7S-F-174	1	E-18	I	1	1	Hollowware	Body	Refined Earthenware		Whiteware	Glaze Missing	None Present			
7S-F-174	1	I-18	I	1	1	Hollowware	Body	Refined Earthenware		Whiteware	None Present	None Present			
7S-F-175A	2A	C-1	I	1	1	Nail	Shaft	Iron						Cut, No head	
7S-F-175A	2A	C-1	I	1	1	Window Glass	Fragment	Glass	Aqua						
7S-F-175A	2A	C-2	I	1	1	Window Glass	Fragment	Glass	Aqua						
7S-F-175A	2A	C-2	I	1	1	Nail	Complete	Iron						Cut, Machine Cut Head	

Site/IF	Area	STP/TU	Strat	Level	Count	Object	Part	Material	Color	Ware	Exterior Decoration	Interior Decoration	Pattern/Motif	Manufacture Tech.	Comments
7S-F-175A	2A	C-2	I	1	2	Tableware	Body	Refined Earthenware		Whiteware	None Present	Glaze Missing			
7S-F-175A	2A	C-3	I	1	1	Tableware	Body	Refined Earthenware		Pearlware	None Present	None Present			
7S-F-175A	2A	C-3	I	1	1	Tableware	Body	Refined Earthenware		Whiteware	None Present	None Present			
7S-F-175A	2A	C-3 East	I	1	1	Bottle	Base	Glass	Aqua					Cup Mold	
7S-F-175A	2A	C-3 West	I	1	1	Window Glass	Fragment	Glass	Aqua						
7S-F-175A	2A	C-3 West	I	1	2	Nail	Shaft	Iron						Cut, No head	
7S-F-175A	2A	C-3 West	I	1	1	Tableware	Body	Refined Earthenware		Pearlware	None Present	Glaze Missing			
7S-F-175A	2A	C-3 West	I	1	1	Tableware	Body	Refined Earthenware		Whiteware	None Present	Glaze Missing			
7S-F-175A	2A	C-3 West	I	1	2	Hollowware	Body	Coarse Earthenware		Redware	Black Lead Glaze				
7S-F-175A	2A	C-3 West	I	1	1	Bottle	Body	Glass	Aqua		Embossed				
7S-F-175A	2A	C-6	I	1	1	Nail	Shaft	Iron						Cut, No head	
7S-F-175A	2A	C-6	I	1	1	Nail	Complete	Iron						Cut, Machine Cut Head	
7S-F-175A	2A	C-6 East	I	1	1	Vessel, hollow	Body	Glass	Aqua						
7S-F-175A	2A	C-6 South	I	1	1	Nail	Shaft	Iron						Cut, No head	
7S-F-175A	2A	C-7	I	1	1	Tableware	Body	Refined Earthenware		Ironstone	None Present	None Present			
7S-F-175A	2A	C-7 East	I	1	1	Nail	Head and Shaft	Iron						Cut, Machine Cut Head	
7S-F-175A	2A	C-7 North	I	1	1	Tableware	Body	Refined Earthenware	Blue	Pearlware	Painted	Glaze Missing	Indeterminate Pattern/Motif		
7S-F-175A	2A	C-7 North	I	1	1	Bottle	Neck	Glass	Clear					Molded	
7S-F-175A	2A	C-7 South	I	1	1	Tableware	Body	Refined Earthenware		Whiteware	None Present	Glaze Missing			
7S-F-175A	2A	D-1	I	1	1	Nail	Complete	Iron						Cut, Machine Cut Head	
7S-F-175A	2A	D-1	I	1	1	Tableware	Body	Refined Earthenware		Whiteware	None Present	None Present			
7S-F-175A	2A	D-2	I	1	1	Nail	Head and Shaft	Iron						Cut, Machine Cut Head	
7S-F-175A	2A	D-2	I	1	1	Tableware	Body	Refined Earthenware	Purple	Whiteware	Painted		Indeterminate Pattern/Motif		
7S-F-175A	2A	D-4	I	1	1	Nail	Complete	Iron						Cut, Machine Cut Head	
7S-F-	2A	D-4 East	I	1	1	Window Glass	Fragment	Glass	Aqua						

Site/IF	Area	STP/TU	Strat	Level	Count	Object	Part	Material	Color	Ware	Exterior Decoration	Interior Decoration	Pattern/Motif	Manufacture Tech.	Comments
175A															
7S-F-175A	2A	E-2	I	1	1	Tableware	Body	Refined Earthenware		Whiteware	None Present	Glaze Missing			
7S-F-175A	2A	E-2	I	1	1	Tableware	Body	Refined Earthenware	Blue	Whiteware	None Present	None Present			
7S-F-175A	2A	E-2	I	1	1	Hollowware	Body	Coarse Earthenware		Redware	Clear Lead Glazed	Clear Lead Glazed			
7S-F-175A	2A	E-2	I	1	1	Bottle	Neck	Glass	Clear					Molded	
7S-F-175A	2A	E-3	I	1	1	Window Glass	Fragment	Glass	Aqua						
7S-F-175A	2A	E-3	I	1	1	Tableware	Body	Refined Earthenware		Pearlware	None Present	Glaze Missing			
7S-F-175A	2A	F-1	I	1	2	Nail	Complete	Iron						Cut, Machine Cut Head	
7S-F-175A	2A	F-1	I	1	1	Tableware	Body	Refined Earthenware		Whiteware	None Present	Glaze Missing			
7S-F-175A	2A	F-2	I	1	1	Nail	Shaft	Iron						Indeterminate	
7S-F-175A	2A	F-2	I	1	1	Tableware	Body	Refined Earthenware	Red	Whiteware	Decal Overglaze	Glaze Missing			
7S-F-175A	2A	F-2	I	1	1	Bottle	Body	Glass	Clear						
7S-F-175A	2A	G-1	I	1	1	Nail	Complete	Iron						Cut, Machine Cut Head	
7S-F-175A	2A	G-1	I	1	1	Tableware	Body	Refined Earthenware	Blue	Whiteware	None Present	Glaze Missing			
7S-F-175A	2A	G-1	I	1	1	Vessel, hollow	Body	Glass	Aqua						
7S-F-175A	2A	G-1	I	1	1	Indeterminate	Fragment	Glass	Aqua						Melted
7S-F-175A	2A	G-1 East	I	1	1	Nail	Complete	Iron						Cut, Machine Cut Head	
7S-F-175A	2A	G-1 East	I	1	1	Nail	Complete	Iron						Cut, Machine Cut Head	
7S-F-175A	2A	G-1 East	I	1	2	Nail	Complete	Iron						Ungalvanized Wire	
7S-F-175A	2A	G-1 East	I	1	1	Window Glass	Fragment	Glass	Aqua						
7S-F-175A	2A	G-2	I	1	1	Nail	Shaft	Iron						Hand Wrought	
7S-F-175A	2A	G-2	I	1	1	Nail	Complete	Iron						Ungalvanized Wire	
7S-F-175A	2A	G-2	I	1	2	Nail	Head and Shaft	Iron						Cut, Machine Cut Head	
7S-F-175A	2A	G-2	I	1	4	Window Glass	Fragment	Glass	Aqua						
7S-F-175A	2A	G-2	I	1	2	Nail	Shaft	Iron						Cut, No head	

Site/IF	Area	STP/TU	Strat	Level	Count	Object	Part	Material	Color	Ware	Exterior Decoration	Interior Decoration	Pattern/Motif	Manufacture Tech.	Comments
7S-F-175A	2A	G-2	I	1	1	Nail	Shaft	Iron						Ungalvanized Wire	
7S-F-175A	2A	G-2	I	1	1	Plate	Foot Rim/Foot Ring	Refined Earthenware		Creamware	None Present	None Present			
7S-F-175A	2A	G-2	I	1	1	Tableware	Body	Refined Earthenware		Creamware	None Present	None Present			
7S-F-175A	2A	G-2	I	1	1	Lamp, Chimney	Body	Glass	Clear						
7S-F-175A	2A	G-2	I	1	1	Vessel, hollow	Body	Glass	Clear						
7S-F-175A	2A	G-2	I	1	1	Indeterminate	Indeterminate	Iron							
7S-F-175A	2A	G-2	I	1	2	Strap	Fragment	Iron							
7S-F-175A	2A	G-2	I	1	1	Flat Pressed Metal	Fragment	Iron							
7S-F-175A	2A	G-3	I	1	1	Nail	Head and Shaft	Iron						Cut, Machine Cut Head	
7S-F-175A	2A	G-3	I	1	3	Window Glass	Fragment	Glass	Aqua						
7S-F-175A	2A	G-3	I	1	3	Nail	Shaft	Iron						Ungalvanized Wire	
7S-F-175A	2A	G-3	I	1	1	Tableware	Body	Refined Earthenware		Whiteware	None Present	Glaze Missing			
7S-F-175A	2A	G-3	I	1	1	Vessel, unknown	Body	Glass	Clear						
7S-F-175A	2A	G-3	I	1	1	Vessel, unknown	Body	Glass	Aqua						
7S-F-175A	2A	G-3	I	1	1	Flat Pressed Metal	Fragment	Iron							
7S-F-175A	2A	G-4	I	1	1	Window Glass	Fragment	Glass	Aqua						
7S-F-175A	2A	G-4	I	1	1	Tableware	Rim	Refined Earthenware	Blue	Pearlware	Indeterminate Decoration	Glaze Missing			
7S-F-175A	2A	G-5	I	1	1	Tableware	Body	Refined Earthenware		Pearlware	None Present	Glaze Missing			
7S-F-175A	2A	G-7	I	1	1	Vessel, unknown	Body	Glass	Aqua						
7S-F-175A	2A	I-1	I	1	1	Tableware	Body	Refined Earthenware		Whiteware	None Present	None Present			
7S-F-175A	2A	I-1	I	1	1	Bottle	Body	Glass	Clear						
7S-F-175A	2A	I-3	I	1	1	Window Glass	Fragment	Glass	Aqua						
7S-F-175A	2A	I-3	I	1	1	Tableware	Body	Refined Earthenware		Pearlware	None Present	Glaze Missing			
7S-F-175A	2A	I-7 East	I	1	1	Nail	Shaft	Iron						Cut, No head	
7S-F-175A	2A	J-1	I	1	1	Nail	Complete	Iron						Cut, Machine	

Site/IF	Area	STP/TU	Strat	Level	Count	Object	Part	Material	Color	Ware	Exterior Decoration	Interior Decoration	Pattern/Motif	Manufacture Tech.	Comments
175A														Cut Head	
7S-F-175A	2A	9	I	1	11	Nail	Shaft	Iron						Ungalvanized Wire	
7S-F-175A	2A	9	I	1	6	Nail	Complete	Iron						Cut, Machine Cut Head	
7S-F-175A	2A	9	I	1	1	Nail	Shaft	Iron						Indeterminate	
7S-F-175A	2A	9	I	1	1	Nail, Roofing	Complete	Iron						Ungalvanized Wire	
7S-F-175A	2A	9	I	1	6	Nail	Complete	Iron						Ungalvanized Wire	
7S-F-175A	2A	9	I	1	6	Nail	Shaft	Iron						Cut, No head	
7S-F-175A	2A	9	I	1	9	Window Glass	Fragment	Glass	Aqua						
7S-F-175A	2A	9	I	1	8	Tableware	Body	Refined Earthenware		Whiteware	None Present	None Present			
7S-F-175A	2A	9	I	1	1	Tableware	Body	Refined Earthenware	Blue	Whiteware	Dipped	Glaze Missing			
7S-F-175A	2A	9	I	1	1	Hollowware	Body	Coarse Earthenware		Redware	Black Lead Glaze	Lead Glazed			
7S-F-175A	2A	9	I	1	1	Tableware	Body	Refined Earthenware	Brown	Pearlware	Painted	Glaze Missing			
7S-F-175A	2A	9	I	1	1	Tableware	Body	Refined Earthenware	Blue	Whiteware	Painted	None Present			
7S-F-175A	2A	9	I	1	9	Bottle	Body	Glass	Clear					Indeterminate	
7S-F-175A	2A	9	I	1	1	Bottle	Neck	Glass	Clear					Pressed	
7S-F-175A	2A	9	I	1	1	Bottle	Base/Body	Glass	Blue					Cup Mold	
7S-F-175A	2A	9	I	1	1	Bottle	Base	Glass	Blue					Molded	
7S-F-175A	2A	9	I	1	2	Bottle	Body	Glass	Amber					Indeterminate	
7S-F-175A	2A	9	I	1	1	Bottle	Body	Glass	Brilliant Green					Indeterminate	
7S-F-175A	2A	9	I	1	2	Bottle	Body	Glass	Clear				Paneled	Indeterminate	
7S-F-175A	2A	9	I	1	1	Grommet	Complete	Brass							
7S-F-175A	2A	9	I	1	8	Flat Pressed Metal	Fragment	Iron						Machine-made	
7S-F-175A	2A	9	I	1	1	Stud	Head	Iron						Machine-made	
7S-F-175A	2A	9	I	1	1	Staple	Complete	Iron						Machine-made	
7S-F-175A	2A	9	I	1	1	Nut	Complete	Iron						Machine-made	

Site/IF	Area	STP/TU	Strat	Level	Count	Object	Part	Material	Color	Ware	Exterior Decoration	Interior Decoration	Pattern/Motif	Manufacture Tech.	Comments
7S-F-175A	2A	9	I	1	1	Bead	Almost Complete	Glass	Blue						
7S-F-175A	2A	9	I	1	1	Fabric	Fragment	Leather	Black						
7S-F-175A	2A	10	I	1	1	Spike	Complete	Iron						Ungalvanized Wire	
7S-F-175A	2A	10	I	1	19	Nail	Shaft	Iron						Ungalvanized Wire	
7S-F-175A	2A	10	I	1	2	Nail	Complete	Iron						Ungalvanized Wire	
7S-F-175A	2A	10	I	1	1	Nail, Roofing	Complete	Iron						Ungalvanized Wire	
7S-F-175A	2A	10	I	1	6	Nail	Shaft	Iron						Indeterminate	
7S-F-175A	2A	10	I	1	38	Window Glass	Fragment	Glass	Aqua						
7S-F-175A	2A	10	I	1	8	Nail	Shaft	Iron						Cut, No head	
7S-F-175A	2A	10	I	1	25	Nail	Complete	Iron						Ungalvanized Wire	
7S-F-175A	2A	10	I	1	16	Nail	Complete	Iron						Cut, Machine Cut Head	
7S-F-175A	2A	10	I	1	1	Cap	Fragment	Plastic							
7S-F-175A	2A	10	I	1	2	Tableware	Body	Refined Earthenware		Redware	None Present	None Present			
7S-F-175A	2A	10	I	1	2	Hollowware	Body	Coarse Earthenware		Redware	Glaze Missing	Glaze Missing			
7S-F-175A	2A	10	I	1	1	Tableware	Body	Refined Earthenware	Blue	Whiteware	Dipped	Glaze Missing			
7S-F-175A	2A	10	I	1	1	Tableware	Body	Refined Earthenware	Blue	Whiteware	Transfer Print Underglaze	Glaze Missing			
7S-F-175A	2A	10	I	1	1	Tableware	Body	Refined Earthenware		Ironstone	None Present	None Present			
7S-F-175A	2A	10	I	1	11	Tableware	Body	Refined Earthenware		Whiteware	None Present	None Present			
7S-F-175A	2A	10	I	1	2	Bottle	Base	Glass	Aqua					Molded	
7S-F-175A	2A	10	I	1	1	Bottle, Pharmacy Oval	Base	Glass	Clear		Embossed				
7S-F-175A	2A	10	I	1	1	Lid Liner	Body	Milk Glass						Machine-made	
7S-F-175A	2A	10	I	1	2	Bottle	Body	Glass	Amber						
7S-F-175A	2A	10	I	1	2	Vessel, hollow	Body	Glass	Aqua					Molded	
7S-F-175A	2A	10	I	1	1	Bottle	Neck	Glass	Aqua						
7S-F-	2A	10	I	1	1	Bottle, Panel	Body	Glass	Aqua					Molded	

Site/IF	Area	STP/TU	Strat	Level	Count	Object	Part	Material	Color	Ware	Exterior Decoration	Interior Decoration	Pattern/Motif	Manufacture Tech.	Comments
175A															
7S-F-175A	2A	10	I	1	2	Bottle	Body	Glass	Solarized						
7S-F-175A	2A	10	I	1	1	Lamp, Chimney	Body	Glass	Clear						
7S-F-175A	2A	10	I	1	1	Jar	Rim	Glass	Clear					Pressed	
7S-F-175A	2A	10	I	1	1	Bottle	Finish	Glass	Clear						
7S-F-175A	2A	10	I	1	18	Vessel, hollow	Body	Glass	Clear						
7S-F-175A	2A	10	I	1	1	Ring	Almost Complete	Iron						Machine-made	
7S-F-175A	2A	10	I	1	2	Flat Pressed Metal	Fragment	Iron						Machine-made	
7S-F-175A	2A	10	I	1	2	Staple	Complete	Iron						Machine-made	
7S-F-175A	2A	10	I	1	1	Spring	Complete	Iron						Machine-made	
7S-F-175A	2A	10	I	1	1	Jewelry	Complete	Brass							
7S-F-175A	2A	11	I	1	7	Window Glass	Fragment	Glass	Aqua						
7S-F-175A	2A	11	I	1	17	Nail	Shaft	Iron						Cut, No head	
7S-F-175A	2A	11	I	1	10	Nail	Shaft	Iron						Ungalvanized Wire	
7S-F-175A	2A	11	I	1	2	Nail	Complete	Iron						Ungalvanized Wire	
7S-F-175A	2A	11	I	1	19	Nail	Complete	Iron						Cut, Machine Cut Head	
7S-F-175A	2A	11	I	1	1	Vessel, hollow	Body	Porcelain		Hard Paste	None Present	None Present			
7S-F-175A	2A	11	I	1	1	Jar/Crock	Base	Stoneware		American Stoneware	Albany-Type Slip	Bristol-Type Slip			
7S-F-175A	2A	11	I	1	1	Plate	Foot Rim/Foot Ring	Refined Earthenware		Whiteware	None Present	None Present			
7S-F-175A	2A	11	I	1	11	Tableware	Body	Refined Earthenware		Whiteware	None Present	None Present			
7S-F-175A	2A	11	I	1	1	Hollowware	Body	Coarse Earthenware		Redware	Glaze Missing	Glaze Missing			
7S-F-175A	2A	11	I	1	1	Tableware	Body	Refined Earthenware	Blue	Whiteware	Dipped	Glaze Missing			
7S-F-175A	2A	11	I	1	1	Hollowware	Rim	Refined Earthenware	Blue/Green	Indeterminate Ware	Painted	Glaze Missing	Linear		
7S-F-175A	2A	11	I	1	1	Tableware	Body	Refined Earthenware	Blue	Whiteware	Transfer Print Underglaze	Glaze Missing			
7S-F-175A	2A	11	I	1	9	Vessel, unknown	Body	Glass	Clear						

Site/IF	Area	STP/TU	Strat	Level	Count	Object	Part	Material	Color	Ware	Exterior Decoration	Interior Decoration	Pattern/Motif	Manufacture Tech.	Comments
7S-F-175A	2A	11	I	1	4	Vessel, hollow	Body	Glass	Aqua						
7S-F-175A	2A	11	I	1	3	Bottle	Body	Glass	Aqua		Embossed				
7S-F-175A	2A	11	I	1	1	Vessel, hollow	Body	Glass	Clear					Leaded	
7S-F-175A	2A	11	I	1	3	Lamp, Chimney	Body	Glass	Clear						
7S-F-175A	2A	11	I	1	1	Bottle	Body	Glass	Clear					Three-piece mold	
7S-F-175A	2A	11	I	1	3	Vessel, hollow	Body	Glass	Solarized						
7S-F-175A	2A	11	I	1	1	Vessel, hollow	Body	Glass	Clear					Pressed	
7S-F-175A	2A	11	I	1	8	Flat Pressed Metal	Fragment	Iron						Indeterminate	
7S-F-175A	2A	11	I	1	1	Buckle, Suspender	Complete	Brass						Machine-made	
7S-F-175A	2A	12	I	1	1	Nail	Complete	Iron						Hand Wrought	
7S-F-175A	2A	12	I	1	2	Nail	Shaft	Iron						Hand Wrought	
7S-F-175A	2A	12	I	1	11	Nail	Shaft	Iron						Cut, No head	
7S-F-175A	2A	12	I	1	1	Nail	Indeterminate	Iron						Indeterminate	
7S-F-175A	2A	12	I	1	3	Nail	Head and Shaft	Iron						Cut, Machine Cut Head	
7S-F-175A	2A	12	I	1	3	Nail	Complete	Iron						Ungalvanized Wire	
7S-F-175A	2A	12	I	1	12	Window Glass	Fragment	Glass	Aqua						
7S-F-175A	2A	12	I	1	1	Hollowware	Base	Coarse Earthenware		Redware	Glaze Missing	Unglazed			Underfired
7S-F-175A	2A	12	I	1	1	Tableware	Body	Refined Earthenware	Blue	Whiteware	None Present	None Present			
7S-F-175A	2A	12	I	1	1	Hollowware	Body	Coarse Earthenware		Redware	Clear Lead Glazed	Glaze Missing			
7S-F-175A	2A	12	I	1	5	Tableware	Body	Refined Earthenware		Whiteware	None Present	None Present			
7S-F-175A	2A	12	I	1	1	Tableware	Rim	Refined Earthenware		Whiteware	None Present	None Present			
7S-F-175A	2A	12	I	1	1	Lamp, Chimney	Body	Glass	Clear						
7S-F-175A	2A	12	I	1	3	Bottle	Base	Glass	Blue					Cup Mold	
7S-F-175A	2A	12	I	1	1	Bottle	Body	Glass	Amber		Stippled			Indeterminate	
7S-F-	2A	12	I	1	5	Bottle	Body	Glass	Brilliant					Indeterminate	Crizzled

Site/IF	Area	STP/TU	Strat	Level	Count	Object	Part	Material	Color	Ware	Exterior Decoration	Interior Decoration	Pattern/Motif	Manufacture Tech.	Comments
175A									Green						
7S-F-175A	2A	12	I	1	3	Vessel, hollow	Body	Glass	Clear					Indeterminate	
7S-F-175A	2A	12	I	1	2	Vessel, hollow	Body	Glass	Green					Indeterminate	
7S-F-175A	2A	12	I	1	5	Vessel, hollow	Body	Glass	Aqua					Indeterminate	
7S-F-175A	2A	12	I	1	1	Bottle	Finish	Glass	Clear					Two-Piece Mold	
7S-F-175A	2A	12	I	1	1	Bottle	Body	Glass	Blue						
7S-F-175A	2A	12	I	1	1	Lid Liner	Body	Milk Glass			Embossed			Molded	
7S-F-175A	2A	12	I	1	1	Bottle	Body	Glass	Clear		Stippled				
7S-F-175A	2A	12	I	1	2	Wire	Fragment	Iron							
7S-F-175A	2A	12	I	1	1	Indeterminate	Indeterminate	Iron						Indeterminate	
7S-F-175A	2A	12	I	1	1	Nut	Complete	Iron						Machine-made	
7S-F-175A	2A	12	I	1	1	Flat Pressed Metal	Fragment	Iron							
7S-F-175A	2A	13	I	1	11	Nail	Complete	Iron						Cut, Machine Cut Head	
7S-F-175A	2A	13	I	1	15	Nail	Shaft	Iron						Cut, No head	
7S-F-175A	2A	13	I	1	2	Nail	Complete	Iron						Ungalvanized Wire	
7S-F-175A	2A	13	I	1	1	Nail	Shaft	Iron						Hand Wrought	
7S-F-175A	2A	13	I	1	1	Nail, Roofing	Complete	Iron						Ungalvanized Wire	
7S-F-175A	2A	13	I	1	11	Window Glass	Fragment	Glass	Aqua						
7S-F-175A	2A	13	I	1	1	Tableware	Rim	Refined Earthenware		Whiteware	None Present	None Present			
7S-F-175A	2A	13	I	1	1	Tableware	Body	Refined Earthenware		Yellow Ware	None Present	Glaze Missing			
7S-F-175A	2A	13	I	1	1	Tableware	Body	Refined Earthenware		Creamware	None Present	Glaze Missing			
7S-F-175A	2A	13	I	1	4	Tableware	Body	Refined Earthenware		Whiteware	None Present	None Present			
7S-F-175A	2A	13	I	1	7	Bottle	Body	Glass	Clear						
7S-F-175A	2A	13	I	1	9	Bottle	Body	Glass	Aqua					Indeterminate	
7S-F-175A	2A	13	I	1	1	Bottle	Body	Glass	Olive						

Site/IF	Area	STP/TU	Strat	Level	Count	Object	Part	Material	Color	Ware	Exterior Decoration	Interior Decoration	Pattern/Motif	Manufacture Tech.	Comments
7S-F-175A	2A	13	I	1	2	Bottle	Body	Glass	Amber						
7S-F-175A	2A	13	I	1	4	Bottle	Body	Glass	Brilliant Green						
7S-F-175A	2A	13	I	1	1	Vessel, hollow	Rim	Glass	Clear					Leaded	
7S-F-175A	2A	13	I	1	12	Indeterminate	Body	Iron						Indeterminate	
7S-F-175A	2A	13	I	1	2	Flat Pressed Metal	Fragment	Tin			Pressed			Indeterminate	
7S-F-175B	2B	R-2	I	1	1	Nail	Shaft	Iron						Cut, No head	
7S-F-175B	2B	R-2	I	1	1	Tableware	Rim	Refined Earthenware		Whiteware	None Present	None Present			
7S-F-175B	2B	R-2	I	1	1	Slag	Fragment	Lead							
7S-F-175B	2B	S-1	I	1	1	Tableware	Body	Porcelain		Hard Paste	None Present	None Present			
7S-F-175B	2B	S-1	I	1	1	Tableware	Rim	Refined Earthenware		Whiteware	None Present	None Present			
7S-F-175B	2B	S-10	I	1	1	Nail	Complete	Iron						Ungalvanized Wire	
7S-F-175B	2B	S-2	I	1	1	Nail	Complete	Iron						Cut, Machine Cut Head	
7S-F-175B	2B	S-3	I	1	1	Tableware	Body	Refined Earthenware		Whiteware	None Present	Glaze Missing			
7S-F-175B	2B	S-3	I	1	1	Vessel, hollow	Body	Glass	Clear						
7S-F-175B	2B	S-8	I	1	1	Tableware	Body	Refined Earthenware		Ironstone	Molded Pattern	None Present	Floral		
7S-F-175B	2B	S-8 West	I	1	1	Hollowware	Body	Refined Earthenware		Whiteware	None Present	Glaze Missing			
7S-F-175B	2B	T-2	I	1	2	Tableware	Body	Refined Earthenware		Whiteware	None Present	Glaze Missing			
7S-F-175B	2B	T-2 West	I	1	1	Window Glass	Fragment	Glass	Aqua						
7S-F-175B	2B	T-2 West	I	1	1	Nail	Shaft	Iron						Cut, No head	
7S-F-175B	2B	T-8	I	1	2	Tableware	Body	Refined Earthenware		Whiteware	None Present	None Present			
7S-F-175B	2B	T-9	I	1	1	Window Glass	Fragment	Glass	Aqua						
7S-F-175B	2B	U-7	I	1	1	Vessel, hollow	Body	Glass	Clear					Molded	
7S-F-173	6	B-3	I	1	1	Bottle	Body	Glass	Clear					Molded	
7S-F-173	6	C-8	I	1	5	Window Glass	Fragment	Glass	Aqua						
7S-F-	6	D-1	I	1	1	Bottle	Body	Glass	Clear					Indeterminate	

Site/IF	Area	STP/TU	Strat	Level	Count	Object	Part	Material	Color	Ware	Exterior Decoration	Interior Decoration	Pattern/Motif	Manufacture Tech.	Comments
173															
7S-F-173	6	D-3	I	1	1	Window Glass	Fragment	Glass	Aqua						
7S-F-173	6	D-3 South	I	1	1	Window Glass	Fragment	Glass	Aqua						
7S-F-173	6	D-4	I	1	1	Nail	Shaft	Iron						Cut, No head	
7S-F-173	6	D-4 South	I	1	1	Nail	Complete	Iron						Cut, Machine Cut Head	
7S-F-173	6	D-4 South	I	1	1	Bottle	Body	Glass	Amber					Indeterminate	
7S-F-173	6	D-4 South	I	1	1	Bottle	Body	Glass	Clear		Pressed		Linear	Indeterminate	
7S-F-173	6	D-4 South	I	1	4	Bottle	Body	Glass	Clear					Molded	
7S-F-173	6	D-5	I	1	1	Nail	Shaft	Iron						Cut, No head	
7S-F-173	6	D-5	I	1	1	Bottle	Body	Glass	Clear					Molded	
7S-F-173	6	D-5 North	I	1	1	Vessel, hollow	Body	Glass	Clear		Pressed		Stippled Surface		
7S-F-173	6	D-6	I	1	1	Window Glass	Fragment	Glass	Aqua						
7S-F-173	6	D-6	I	1	1	Bottle	Body	Glass	Clear						
7S-F-173	6	D-6	I	1	1	Bottle	Base	Glass	Clear					Indeterminate	
7S-F-173	6	D-6 North	I	1	3	Window Glass	Fragment	Glass	Aqua						
7S-F-173	6	D-7	I	1	1	Window Glass	Fragment	Glass	Aqua						
7S-F-173	6	E-5	I	1	2	Nail	Shaft	Iron						Cut, No head	
7S-F-173	6	E-5	I	1	1	Bowl	Rim	Refined Earthenware	Green	Ironstone	Transfer Print Underglaze	None Present	Classical		
7S-F-173	6	E-5	I	1	1	Tableware	Body	Refined Earthenware		Yellow Ware	None Present	Glaze Missing			
7S-F-173	6	E-5	I	1	2	Bottle	Body	Glass	Amber		Pressed		Stippled Surface	Molded	
7S-F-173	6	E-5	I	1	3	Bottle	Body	Glass	Clear					Indeterminate	
7S-F-173	6	E-5	I	1	1	Vessel, hollow	Body	Milk Glass						Indeterminate	
7S-F-173	6	E-5	I	1	1	Spring	Fragment	Iron						Machine-made	
7S-F-173	6	E-7	I	1	2	Nail	Shaft	Iron						Cut, No head	
7S-F-173	6	E-7	I	1	1	Tableware	Body	Refined Earthenware		Whiteware	None Present	Glaze Missing			

Site/IF	Area	STP/TU	Strat	Level	Count	Object	Part	Material	Color	Ware	Exterior Decoration	Interior Decoration	Pattern/Motif	Manufacture Tech.	Comments
7S-F-173	6	E-7	I	1	1	Bottle	Body	Glass	Clear					Indeterminate	
7S-F-173	6	E-7 East	I	1	1	Bottle	Body	Glass	Clear					Indeterminate	
7S-F-173	6	E-7 East	I	1	1	Bottle	Body	Glass	Amber					Indeterminate	
7S-F-173	6	E-7 West	I	1	1	Nail	Shaft	Iron						Cut, No head	
7S-F-173	6	E-7 West	I	1	1	Bottle	Body	Glass	Clear		Pressed		Dotted		
7S-F-173	6	F-10	I	1	1	Nail	Complete	Iron						Ungalvanized Wire	
7S-F-173	6	F-4	I	1	1	Tableware	Body	Refined Earthenware		Whiteware	None Present	Glaze Missing			
7S-F-173	6	F-4	I	1	1	Tableware	Rim	Refined Earthenware		Whiteware	None Present	None Present			
7S-F-173	6	F-4	I	1	1	Bottle	Body	Glass	Yellow		Embossed		Starburst/Asterisk		
7S-F-173	6	F-4	I	1	4	Bottle	Body	Glass	Clear					Indeterminate	
7S-F-173	6	F-4	I	1	1	Indeterminate	Fragment	Plastic	Blue						
7S-F-173	6	F-5	I	1	1	Nail	Shaft	Iron						Cut, No head	
7S-F-173	6	F-5	I	1	1	Bottle	Base	Glass	Aqua					Cup Mold	
7S-F-173	6	F-5	I	1	1	Bottle	Body	Glass	Clear				Scalloped	Molded	
7S-F-173	6	F-5	I	1	4	Lid Liner	Fragment	Milk Glass			Embossed			Machine-made	
7S-F-173	6	F-5 East	I	1	1	Nail	Complete	Iron						Ungalvanized Wire	
7S-F-173	6	F-5 East	I	1	1	Tableware	Body	Refined Earthenware		Whiteware	None Present	None Present			
7S-F-173	6	F-5 East	I	1	5	Bottle	Body	Glass	Clear					Indeterminate	
7S-F-173	6	F-7	I	1	1	Tableware	Foot Rim/Foot Ring	Refined Earthenware		Whiteware	None Present	Glaze Missing			
7S-F-173	6	F-7	I	1	1	Bottle	Body	Glass	Clear					Indeterminate	
7S-F-173	6	F-7	I	1	1	Indeterminate	Body	Milk Glass						Indeterminate	
7S-F-173	6	F-8	I	1	1	Nail	Complete	Iron						Ungalvanized Wire	
7S-F-173	6	F-8	I	1	1	Nail	Head and Shaft	Iron						Ungalvanized Wire	
7S-F-173	6	F-8	I	1	1	Vessel, hollow	Body	Glass	Clear					Indeterminate	Exposed to Heat
7S-F-	6	F-9	I	1	1	Window Glass	Fragment	Glass	Aqua						

Site/IF	Area	STP/TU	Strat	Level	Count	Object	Part	Material	Color	Ware	Exterior Decoration	Interior Decoration	Pattern/Motif	Manufacture Tech.	Comments
173															
7S-F-173	6	F-9	I	1	1	Hollowware	Base	Refined Earthenware		Whiteware	None Present	None Present			
7S-F-173	6	F-9	I	1	1	Lid Liner	Fragment	Milk Glass							
7S-F-173	6	G-11	I	1	1	Tableware	Rim	Refined Earthenware		Ironstone	None Present	None Present			
7S-F-173	6	G-3	I	1	1	Bottle	Body	Glass	Solarized		Embossed			Indeterminate	
7S-F-173	6	G-3 South	I	1	1	Thumbscrew	Complete	Iron						Machine-made	
7S-F-173	6	G-3 South	I	1	1	Nail	Shaft	Iron						Cut, No head	
7S-F-173	6	G-3 South	I	1	1	Lid Liner	Fragment	Milk Glass						Indeterminate	
7S-F-173	6	G-3 South	I	1	1	Vessel, hollow	Base	Glass	Aqua					Indeterminate	
7S-F-173	6	G-4	I	1	1	Nail	Complete	Iron						Ungalvanized Wire	
7S-F-173	6	G-4	I	1	2	Nail	Shaft	Iron						Cut, No head	
7S-F-173	6	G-5	I	1	1	Tableware	Body	Refined Earthenware		Whiteware	None Present	Glaze Missing			
7S-F-173	6	G-5 East	I	1	1	Nail	Complete	Iron						Indeterminate	
7S-F-173	6	G-5 East	I	1	1	Nail	Complete	Iron						Ungalvanized Wire	
7S-F-173	6	G-5 East	I	1	1	Bottle	Body	Glass	Amber					Indeterminate	
7S-F-173	6	G-7	I	1	1	Lid Liner	Fragment	Milk Glass							
7S-F-173	6	G-7 South	I	1	1	Tableware	Rim	Refined Earthenware		Whiteware	None Present	None Present			
7S-F-173	6	G-7 South	I	1	1	Indeterminate	Indeterminate	Iron						Indeterminate	
7S-F-173	6	G-8	I	1	1	Nail	Shaft	Iron						Cut, No head	
7S-F-173	6	G-8	I	1	1	Nail	Complete	Iron						Cut, Machine Cut Head	
7S-F-173	6	G-8 East	I	1	1	Stopper	Almost Complete	Glass	Clear					Machine-made	
7S-F-173	6	G-9 South	I	1	7	Bottle	Body	Glass	Clear					Indeterminate	
7S-F-173	6	G-9 South	I	1	1	Bottle	Base	Glass	Clear					Leaded	
7S-F-173	6	G-9 South	I	1	1	Bottle	Body	Glass	Aqua					Indeterminate	
7S-F-173	6	H-5	I	1	1	Nail	Shaft	Iron						Cut, No head	

Site/IF	Area	STP/TU	Strat	Level	Count	Object	Part	Material	Color	Ware	Exterior Decoration	Interior Decoration	Pattern/Motif	Manufacture Tech.	Comments
7S-F-173	6	I-3	I	1	1	Tableware	Body	Refined Earthenware		Whiteware	None Present	Glaze Missing			
7S-F-173	6	I-4	I	1	2	Lid Liner	Fragment	Milk Glass						Machine-made	
7S-F-173	6	I-4	I	1	1	Bottle	Body	Glass	Clear					Indeterminate	
7S-F-173	6	I-5	I	1	1	Window Glass	Fragment	Glass	Aqua						
7S-F-173	6	I-5	I	1	1	Lid Liner	Fragment	Milk Glass						Indeterminate	
7S-F-173	6	I-5	I	1	2	Vessel, hollow	Body	Glass	Clear					Indeterminate	
7S-F-173	6	I-7	I	1	1	Nail	Shaft	Iron						Cut, No head	
7S-F-173	6	I-7	I	1	1	Lid Liner	Fragment	Milk Glass						Machine-made	
7S-F-173	6	I-7	I	1	1	Vessel, unknown	Base	Glass	Teal					Indeterminate	
7S-F-173	6	1	I	1	15	Nail	Indeterminate	Iron						Indeterminate	
7S-F-173	6	1	I	1	31	Window Glass	Fragment	Glass	Aqua						
7S-F-173	6	1	I	1	8	Nail	Complete	Iron						Cut, Machine Cut Head	
7S-F-173	6	1	I	1	8	Nail	Complete	Iron						Ungalvanized Wire	
7S-F-173	6	1	I	1	1	Staple	Complete	Iron						Machine-made	
7S-F-173	6	1	I	1	6	Nail	Shaft	Iron						Ungalvanized Wire	
7S-F-173	6	1	I	1	17	Nail	Shaft	Iron						Cut, No head	
7S-F-173	6	1	I	1	1	Tableware	Body	Refined Earthenware	Red	Whiteware	Transfer Print Underglaze	Glaze Missing	Indeterminate Pattern/Motif		
7S-F-173	6	1	I	1	2	Tableware	Body	Refined Earthenware		Whiteware	None Present	None Present			
7S-F-173	6	1	I	1	1	Tableware	Body	Refined Earthenware		Yellow Ware	Molded Pattern		Linear		
7S-F-173	6	1	I	1	1	Tableware	Rim	Refined Earthenware		Ironstone	Molded Pattern		Scalloped		
7S-F-173	6	1	I	1	1	Tableware	Base	Refined Earthenware		Ironstone	None Present	None Present			
7S-F-173	6	1	I	1	1	Hollowware	Body	Refined Earthenware		Yellow Ware	Incised	Glaze Missing	Floral		
7S-F-173	6	1	I	1	10	Tableware	Body	Refined Earthenware		Ironstone	None Present	None Present			
7S-F-173	6	1	I	1	1	Jar/Crock	Body	Stoneware		American Stoneware	Albany-Type Slip	Albany-Type Slip			
7S-F-	6	1	I	1	1	Tableware	Foot Rim/Foot	Refined		Ironstone	None Present	None Present			

Site/IF	Area	STP/TU	Strat	Level	Count	Object	Part	Material	Color	Ware	Exterior Decoration	Interior Decoration	Pattern/Motif	Manufacture Tech.	Comments
173							Ring	Earthenware							
7S-F-173	6	1	I	1	1	Lid Liner	Fragment	Milk Glass							
7S-F-173	6	1	I	1	1	Bottle	Base	Glass	Clear						
7S-F-173	6	1	I	1	2	Bottle	Base	Glass	Clear				Paneled	Two-Piece Mold	
7S-F-173	6	1	I	1	42	Bottle	Body	Glass	Clear					Indeterminate	
7S-F-173	6	1	I	1	1	Jar	Rim	Glass	Clear					Indeterminate	
7S-F-173	6	1	I	1	3	Bottle	Body	Glass	Amber					Indeterminate	
7S-F-173	6	1	I	1	2	Bottle	Body	Glass	Olive					Indeterminate	
7S-F-173	6	1	I	1	3	Bottle	Body	Glass	Solarized					Indeterminate	
7S-F-173	6	1	I	1	1	Indeterminate	Fragment	Glass	Aqua						Melted
7S-F-173	6	1	I	1	1	Bottle, Panel	Base	Glass	Clear					Two-Piece Mold	
7S-F-173	6	1	I	1	1	Bottle	Base	Glass	Clear		Embossed			Three-piece mold	
7S-F-173	6	1	I	1	1	Jar	Base	Glass	Aqua					Indeterminate	
7S-F-173	6	1	I	1	11	Bottle	Body	Glass	Aqua						
7S-F-173	6	1	I	1	1	Bottle	Shoulder	Glass	Aqua					Indeterminate	
7S-F-173	6	1	I	1	1	Indeterminate	Fragment	Glass	Aqua		Incised		Linear	Indeterminate	
7S-F-173	6	1	I	1	1	Jar	Rim	Glass	Blue					Indeterminate	
7S-F-173	6	1	I	1	3	Lamp, Chimney	Body	Glass	Clear					Leaded	
7S-F-173	6	1	I	1	5	Lamp, Chimney	Body	Glass	Clear						
7S-F-173	6	1	I	1	1	Jar	Rim	Glass	Clear		Incised		Linear	Indeterminate	
7S-F-173	6	1	I	1	3	Bottle	Body	Glass	Clear		Embossed				
7S-F-173	6	1	I	1	2	Bottle	Body	Glass	Solarized		Pressed		Checkerboard	Pressed	
7S-F-173	6	1	I	1	2	Horseshoe	Fragment	Iron							
7S-F-173	6	1	I	1	1	Indeterminate	Fragment	Iron							
7S-F-173	6	1	I	1	1	Marble	Complete	Clay	Tan						

Site/IF	Area	STP/TU	Strat	Level	Count	Object	Part	Material	Color	Ware	Exterior Decoration	Interior Decoration	Pattern/Motif	Manufacture Tech.	Comments
7S-F-173	6	2	I	1	23	Window Glass	Fragment	Glass	Aqua						
7S-F-173	6	2	I	1	1	Indeterminate	Fragment	Concrete						Indeterminate	
7S-F-173	6	2	I	1	9	Nail	Shaft	Iron						Cut, No head	
7S-F-173	6	2	I	1	3	Nail	Complete	Iron						Cut, Machine Cut Head	
7S-F-173	6	2	I	1	3	Nail	Complete	Iron						Ungalvanized Wire	
7S-F-173	6	2	I	1	2	Nail	Shaft	Iron						Hand Wrought	
7S-F-173	6	2	I	1	3	Nail	Complete	Iron						Indeterminate	
7S-F-173	6	2	I	1	1	Tableware	Rim	Refined Earthenware		Ironstone	None Present	None Present			
7S-F-173	6	2	I	1	2	Tableware	Rim	Refined Earthenware		Whiteware	None Present	None Present			
7S-F-173	6	2	I	1	3	Tableware	Body	Refined Earthenware		Whiteware	None Present	None Present			
7S-F-173	6	2	I	1	3	Tableware	Body	Refined Earthenware	Yellow	Whiteware	None Present	None Present			
7S-F-173	6	2	I	1	4	Bottle	Body	Glass	Amber					Indeterminate	
7S-F-173	6	2	I	1	12	Bottle	Body	Glass	Aqua						
7S-F-173	6	2	I	1	1	Lamp, Chimney	Rim	Glass	Clear						
7S-F-173	6	2	I	1	8	Lamp, Chimney	Body	Glass	Clear						
7S-F-173	6	2	I	1	2	Indeterminate	Body	Milk Glass						Molded	
7S-F-173	6	2	I	1	22	Bottle	Body	Glass	Clear					Indeterminate	
7S-F-173	6	2	I	1	1	Bottle	Base/Body	Glass	Clear		Embossed		Paneled	Indeterminate	
7S-F-173	6	2	I	1	2	Bottle	Body	Glass	Clear				Paneled	Indeterminate	
7S-F-173	6	2	I	1	2	Bottle	Base	Glass	Clear					Two-Piece Mold	
7S-F-173	6	2	I	1	2	Bottle	Body	Glass	Clear					Leaded	
7S-F-173	6	2	I	1	2	Indeterminate	Fragment	Glass	Aqua						Crizzled
7S-F-173	6	2	I	1	1	Indeterminate	Body	Plastic	White						
7S-F-173	6	2	I	1	1	Nut	Complete	Iron							
7S-F-	6	2	I	1	3	Indeterminate	Fragment	Iron						Indeterminate	

Site/IF	Area	STP/TU	Strat	Level	Count	Object	Part	Material	Color	Ware	Exterior Decoration	Interior Decoration	Pattern/Motif	Manufacture Tech.	Comments
173															
7S-F-173	6	2	I	1	1	Button, 2-Hole	Almost Complete	Rubber	Brown					Pressed	
7S-F-173	6	3	I	1	2	Nail	Complete	Iron						Cut, Machine Cut Head	
7S-F-173	6	3	I	1	13	Window Glass	Fragment	Glass	Aqua						
7S-F-173	6	3	I	1	1	Nail	Head and Shaft	Iron						Ungalvanized Wire	
7S-F-173	6	3	I	1	20	Nail	Shaft	Iron						Cut, No head	
7S-F-173	6	3	I	1	4	Nail	Head and Shaft	Iron						Cut, Machine Cut Head	
7S-F-173	6	3	I	1	3	Tableware	Body	Refined Earthenware		Whiteware	None Present	None Present			
7S-F-173	6	3	I	1	1	Indeterminate	Body	Plastic							
7S-F-173	6	3	I	1	5	Bottle	Body	Glass	Amber		Stippled			Indeterminate	
7S-F-173	6	3	I	1	1	Indeterminate	Indeterminate	Glass	Clear					Indeterminate	Melted
7S-F-173	6	3	I	1	1	Indeterminate	Fragment	Glass	Brilliant Green					Indeterminate	
7S-F-173	6	3	I	1	1	Indeterminate	Fragment	Glass	Cobalt					Indeterminate	
7S-F-173	6	3	I	1	1	Bottle	Finish	Glass	Brilliant Green		Embossed			Molded	
7S-F-173	6	3	I	1	3	Bottle	Base	Glass	Amber		Stippled			Cup Mold	
7S-F-173	6	3	I	1	7	Bottle	Body	Glass	Aqua					Indeterminate	
7S-F-173	6	3	I	1	1	Lamp, Chimney	Body	Glass	Clear						
7S-F-173	6	3	I	1	1	Vessel, hollow	Base	Glass	Clear				Paneled		
7S-F-173	6	3	I	1	29	Vessel, hollow	Body	Glass	Clear					Indeterminate	
7S-F-173	6	3	I	1	1	Wide Mouthed Jar	Finish	Glass	Clear						
7S-F-173	6	3	I	1	1	Vessel, hollow	Base	Glass	Clear					Two-Piece Mold	
7S-F-173	6	3	I	1	1	Vessel, hollow	Body	Glass	Clear				Geometric Pattern	Pressed	
7S-F-173	6	3	I	1	1	Bottle, Beer/Soda	Body	Glass	Clear		Embossed			Indeterminate	
7S-F-173	6	3	I	1	1	Lid Liner	Fragment	Milk Glass						Machine-made	
7S-F-173	6	3	I	1	1	Bottle	Base	Glass	Clear		Embossed		Paneled	Molded	

Site/IF	Area	STP/TU	Strat	Level	Count	Object	Part	Material	Color	Ware	Exterior Decoration	Interior Decoration	Pattern/Motif	Manufacture Tech.	Comments
7S-F-173	6	3	I	1	1	Wide Mouthed Jar	Finish	Glass	Clear					Machine-made	
7S-F-173	6	3	I	1	12	Bottle	Body	Glass	Amber					Indeterminate	
7S-F-173	6	3	I	1	1	Bottle	Finish	Glass	Clear						
7S-F-173	6	3	I	1	1	Bottle	Finish	Glass	Clear						
7S-F-173	6	3	I	1	2	Indeterminate	Indeterminate	Iron						Indeterminate	
7S-F-173	6	3	I	1	1	Staple	Complete	Iron						Machine-made	
7S-F-173	6	3	I	1	1	Horseshoe	Fragment	Iron						Machine-made	
7S-F-173	6	3	I	1	7	Indeterminate	Indeterminate	Iron						Indeterminate	
7S-F-173	6	3	I	1	1	Spike	Shaft	Bronze						Machine-made	
7S-F-173	6	3	I	1	1	Flat Pressed Metal	Fragment	Iron						Indeterminate	
7S-F-173	6	3	I	1	2	Strap	Fragment	Iron						Machine-made	
7S-F-173	6	3	I	1	1	Spike	Complete	Iron						Cut, Machine Cut Head	
7S-F-173	6	4	I	1	3	Nail	Shaft	Iron						Cut, No head	
7S-F-173	6	4	I	1	2	Bottle	Body	Glass	Clear					Indeterminate	
7S-F-173	6	4	I	1	1	Hollowware	Base	Glass	Solarized					Indeterminate	
7S-F-173	6	5	I	1	2	Nail	Complete	Iron						Cut, Machine Cut Head	
7S-F-173	6	5	I	1	1	Nail	Shaft	Iron						Cut, No head	
7S-F-173	6	5	I	1	6	Window Glass	Fragment	Glass	Clear						
7S-F-173	6	5	I	1	1	Bottle	Body	Glass	Clear		Embossed			Indeterminate	
7S-F-173	6	5	I	1	1	Indeterminate	Body	Glass	Aqua						Melted
7S-F-173	6	5	I	1	1	Bottle	Base	Glass	Amber		Embossed		Stippled Surface	Cup Mold	
7S-F-173	6	6	I	1	2	Nail	Complete	Iron						Ungalvanized Wire	
7S-F-173	6	6	I	1	33	Window Glass	Fragment	Glass	Aqua						
7S-F-173	6	6	I	1	6	Nail	Complete	Iron						Cut, Machine Cut Head	
7S-F-	6	6	I	1	1	Nail, Roofing	Complete	Iron						Ungalvanized	

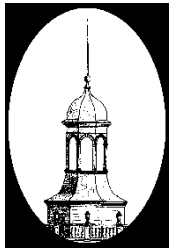
Site/IF	Area	STP/TU	Strat	Level	Count	Object	Part	Material	Color	Ware	Exterior Decoration	Interior Decoration	Pattern/Motif	Manufacture Tech.	Comments
173														Wire	
7S-F-173	6	6	I	1	6	Nail	Shaft	Iron						Cut, No head	
7S-F-173	6	6	I	1	1	Tableware	Base	Refined Earthenware	Red/Green	Ironstone	Decal Overglaze	None Present			
7S-F-173	6	6	I	1	1	Tableware	Base	Refined Earthenware		Ironstone	None Present	None Present			
7S-F-173	6	6	I	1	6	Tableware	Body	Refined Earthenware		Ironstone	None Present	None Present			
7S-F-173	6	6	I	1	1	Bottle	Base	Glass	Clear				Stippled Surface	Two-Piece Mold	
7S-F-173	6	6	I	1	1	Bottle	Body	Glass	Pink		Pressed		Fluted	Indeterminate	
7S-F-173	6	6	I	1	21	Bottle	Body	Glass	Clear					Indeterminate	
7S-F-173	6	6	I	1	1	Bottle	Body	Glass	Clear		Stippled			Indeterminate	
7S-F-173	6	6	I	1	1	Bottle	Base	Glass	Clear		Embossed			Two-Piece Mold	
7S-F-173	6	6	I	1	2	Bottle	Body	Glass	Green, Light					Indeterminate	
7S-F-173	6	6	I	1	3	Bottle	Body	Glass	Aqua					Indeterminate	
7S-F-173	6	6	I	1	1	Wide Mouthed Jar	Rim	Glass	Clear					Indeterminate	String Rim
7S-F-173	6	6	I	1	1	Jar	Base	Glass	Aqua					Two-Piece Mold	
7S-F-173	6	6	I	1	1	Bottle	Body	Glass	Solarized						
7S-F-173	6	6	I	1	5	Bottle	Body	Glass	Amber						
7S-F-173	6	6	I	1	1	Bottle	Body	Glass	Clear		Pressed		Checkerboard		
7S-F-173	6	6	I	1	1	Bottle	Body	Glass	Clear		Embossed			Indeterminate	
7S-F-173	6	6	I	1	1	Vessel, unknown	Fragment	Glass	Clear						
7S-F-173	6	6	I	1	1	Indeterminate	Fragment	Rubber	Black		Incised		Linear		
7S-F-173	6	6	I	1	1	Drawer Pull	Fragment	Marble	White						
7S-F-173	6	6	I	1	29	Flat Pressed Metal	Fragment	Iron							
7S-F-173	6	6	I	1	1	Charcoal	Fragment	Charcoal							
7S-F-173	6	6	I	1	1	Smoking Pipe	Stem Fragment	White Ball Clay							5/64
7S-F-173	6	6	I	1	1	Smoking Pipe	Pipe Bowl	White Ball Clay							

Site/IF	Area	STP/TU	Strat	Level	Count	Object	Part	Material	Color	Ware	Exterior Decoration	Interior Decoration	Pattern/Motif	Manufacture Tech.	Comments
7S-F-173	6	7	I	1	25	Window Glass	Fragment	Glass	Aqua						
7S-F-173	6	7	I	1	3	Nail	Shaft	Iron						Indeterminate	
7S-F-173	6	7	I	1	3	Nail	Complete	Iron						Ungalvanized Wire	
7S-F-173	6	7	I	1	7	Nail	Head and Shaft	Iron						Cut, Machine Cut Head	
7S-F-173	6	7	I	1	13	Nail	Shaft	Iron						Cut, No head	
7S-F-173	6	7	I	1	1	Tableware	Body	Refined Earthenware	Blue	Yellow Ware	Dipped	Glaze Missing			
7S-F-173	6	7	I	1	1	Cup	Rim	Refined Earthenware		Ironstone	None Present	None Present			
7S-F-173	6	7	I	1	14	Tableware	Body	Refined Earthenware		Whiteware	None Present	None Present			
7S-F-173	6	7	I	1	1	Hollowware	Body	Refined Earthenware	Brown	Indeterminate Ware	None Present	None Present			
7S-F-173	6	7	I	1	1	Tableware	Rim	Refined Earthenware		Whiteware	None Present	None Present			
7S-F-173	6	7	I	1	1	Tableware	Body	Refined Earthenware		Yellow Ware	None Present	Glaze Missing			
7S-F-173	6	7	I	1	3	Lamp, Chimney	Body	Glass	Clear						
7S-F-173	6	7	I	1	27	Vessel, hollow	Body	Glass	Clear						
7S-F-173	6	7	I	1	1	Bottle	Body	Glass	Clear					Leaded	
7S-F-173	6	7	I	1	1	Vessel, hollow	Body	Glass	Solarized		Pressed		Geometric Pattern		
7S-F-173	6	7	I	1	1	Vessel, hollow	Body	Glass	Solarized		Pressed		Checkerboard		
7S-F-173	6	7	I	1	1	Bottle	Body	Glass	Solarized		Pressed		Leaf		
7S-F-173	6	7	I	1	3	Bottle	Base	Glass	Solarized						
7S-F-173	6	7	I	1	12	Vessel, hollow	Body	Glass	Aqua						
7S-F-173	6	7	I	1	1	Jar	Finish	Glass	Clear						Applied
7S-F-173	6	7	I	1	1	Bottle	Finish	Glass	Clear						Screw Top
7S-F-173	6	7	I	1	1	Vessel, hollow	Body	Milk Glass	Green						
7S-F-173	6	7	I	1	1	Jar	Rim	Glass	Solarized						Rimless
7S-F-173	6	7	I	1	3	Lid Liner	Body	Milk Glass							
7S-F-	6	7	I	1	2	Vessel, hollow	Body	Glass	Amber						

Site/IF	Area	STP/TU	Strat	Level	Count	Object	Part	Material	Color	Ware	Exterior Decoration	Interior Decoration	Pattern/Motif	Manufacture Tech.	Comments
173															
7S-F-173	6	7	I	1	2	Bottle, Panel	Body	Glass	Clear						
7S-F-173	6	7	I	1	5	Indeterminate	Indeterminate	Iron						Indeterminate	
7S-F-173	6	7	I	1	1	Jewelry	Fragment	White Metal						Machine-made	Necklace Chain

APPENDIX C: CULTURAL RESOURCE SURVEY FORMS

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DELAWARE STATE HISTORIC PRESERVATION OFFICE
15 THE GREEN, DOVER, DE 19901

CULTURAL RESOURCE SURVEY
SURVEY UPDATE FORM

CRS # S03147

1. HISTORIC NAME/FUNCTION: J. Cromfield Dwelling Complex Site

2. ADDRESS/LOCATION: Agricultural Field In The Northeast Quadrant Of The Intersection Of De-24 And Hollyville Road, Millsboro, De.

3. CURRENT CONDITION: excellent ☐ good ☐ fair ☐ poor ☐ demolished ☐

4. INTEGRITY:

5. SETTING INTEGRITY:

6. FORMS ADDED (give number of forms completed for each):

#:	Form:	List property types:
	CRS 2 Main Building Form	
	CRS 3 Secondary Building Form	
	CRS 4 Archaeological Site Form	
	CRS 5 Structure (Building-Like) Form	
	CRS 6 Structure (Land Feature) Form	
	CRS 7 Object Form	
	CRS 8 Landscape Elements Form	
	CRS 9 Map Form	N/A
	CRS 14 Potential District Form	

7. SURVEYOR INFORMATION:

Surveyor name: _____

Principal Investigator name: _____

Principal Investigator signature: _____

Organization: _____ Date: _____

8. OTHER NOTES OR OBSERVATIONS:

CRS# _____

9. STATE HISTORIC CONTEXT FRAMEWORK (check all appropriate boxes; refer to state management plan(s)):

a) Time period(s)

- ☐ Pre-European Contact
- ☐ Paleo-Indian
- ☐ Archaic
- ☐ Woodland I
- ☐ Woodland II

- ☐ 1600-1750∇ Contact Period (Native American)
- ☐ 1630-1730∇ Exploration and Frontier Settlement
- ☐ 1730-1770∇ Intensified and Durable Occupation
- ☐ 1770-1830∇ Early Industrialization
- ☐ 1830-1880∇ Industrialization and Early Urbanization
- ☐ 1880-1940∇ Urbanization and Early Suburbanization
- ☐ 1940-1960∇ Suburbanization and Early Ex-urbanization

b) Geographical zone

- ☐ Piedmont
- ☐ Upper Peninsula
- ☐ Lower Peninsula/Cypress Swamp
- ☐ Coastal
- ☐ Urban (City of Wilmington)

c) Historic period theme(s)

☐ Agriculture	☐ Transportation and Communication
☐ Forestry	☐ Settlement Patterns and Demographic Changes
☐ Trapping/Hunting	☐ Architecture, Engineering and Decorative Arts
☐ Mining/Quarrying	☐ Government
☐ Fishing/Oystering	☐ Religion
☐ Manufacturing	☐ Education
☐ Retailing/Wholesaling	☐ Community Organizations
☐ Finance	☐ Occupational Organizations
☐ Professional Services	☐ Major Families, Individuals and Events

USE BLACK INK ONLY

**CULTURAL RESOURCE SURVEY
ARCHAEOLOGICAL SITE FORM**

CRS # S03147
Site # 7S-F-173

1. INFORMANT: Dovetail Cultural Resource Group
2. SURFACE CONDITION: submerged ☐ cultivated ☒ wooded ☐
marsh ☐ beach/shoreline ☐ fallow ☐
urban ☐
other: _____
integrity: poor
3. SOIL TYPE: Fort Moot-Henlopan Complex 2-5% slope well-drained
4. DESCRIPTION OF FIELD WORK (check all that apply): surface collection ☐ visibility _____ %
shovel test ☒ measured unit ☐ mechanical stripping ☐
remote sensing ☐ walkover ☐ informant collection ☐
5. COLLECTIONS:
- a) Repository HCA Delaware State Museum Accession # _____
Collector/consultant Dovetail Cultural Resource Group
Date _____ Surface ☐ Excavation ☒
- b) Repository _____ Accession # _____
Collector/consultant _____
Date _____ Surface ☐ Excavation ☐
- c) Repository _____ Accession # _____
Collector/consultant _____
Date _____ Surface ☐ Excavation ☐
- d) Repository _____ Accession # _____
Collector/consultant _____
Date _____ Surface ☐ Excavation ☐

6. ARTIFACTS: List material and types

CRS # S03147
Site # 7S-F-173

Ceramics (American stoneware, ironstone, whiteware, and yellowware), Vessel and window glass fragments, machine cut and wire nails, cinder block and red brick fragments (not retained).

7. FEATURES:

A cinder block outbuilding foundation.

8. DOCUMENTATION:

Publication/report title	Year
Phase I Archaeological Survey of the North Millsboro Bypass Project, Sussex County, Delaware	2021

Supporting documentation on file: (Mark the appropriate boxes)

Field notes	yes ☐	no ☐
Maps	yes ☐	no ☐
Drawings	yes ☐	no ☐
Photographs	yes ☐	no ☐
Lab Analysis	yes ☐	no ☐



DELAWARE DIVISION OF HISTORICAL AND CULTURAL AFFAIRS
STATE HISTORIC PRESERVATION OFFICE
21 THE GREEN, DOVER, DE 19901

CULTURAL RESOURCE SURVEY
MAP FORM

CRS # S03147

1. ADDRESS/LOCATION: Agricultural field between at the intersection of DE-24 and Hollyville Road, Millsboro, DE.

2. NOT FOR PUBLICATION ☐ reason: _____

3. LOCATION MAP:
Indicate position of resource in relation to geographical landmarks such as streams and crossroads.
(insert section of USGS quad map or aerial photograph with location marked)

INDICATE NORTH ON SKETCH

CRS # S03147

4. SITE PLAN:
(insert aerial photograph or map showing relationship of buildings, driveway, outbuildings, fences, etc., to each other; label elements as needed; add other pages as needed)

INDICATE NORTH ON PLAN Shown as Site 4 on the aerial image and the USGS map below.

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of culturally sensitive material



CRS # S13422
SPO Map _____
Hundred Dagsboro
Quad Millsboro
Other _____

CULTURAL RESOURCE SURVEY
PROPERTY IDENTIFICATION FORM

1. HISTORIC NAME/FUNCTION: Agricultural site
2. ADDRESS/LOCATION: Agricultural field northwest of the Intersection of U.S. 113 and Patriots Way, Millsboro, DE.
3. TOWN/NEAREST NAMED PLACE: Millsboro vicinity? ☒
4. MAIN TYPE OF RESOURCE: building ☐ structure ☐ site ☒ object ☐
landscape ☐ district ☐
5. MAIN FUNCTION OF PROPERTY: Agricultural
6. PROJECT TITLE/ REASON FOR SURVEY (if applicable): Phase I Archaeological Survey of the North Millsboro Bypass Project, Sussex County, Delaware

7. ADDITIONAL FORMS USED:

#:	Form:	List property types:
	CRS 2 Main Building Form	
	CRS 3 Secondary Building Form	
X	CRS 4 Archaeological Site Form	
	CRS 5 Structure (Building-Like) Form	
	CRS 6 Structure (Land Feature) Form	
	CRS 7 Object Form	
	CRS 8 Landscape Elements Form	
X	CRS 9 Map Form	N/A
	CRS 13 Photographs Form	N/A
	CRS 14 Proposed District Form	
	CRS 15 Structure (Bridge) Form	

8. SURVEYOR INFORMATION:

Surveyor name: William Liebeknecht

Principal Investigator name: William Liebeknecht

Principal Investigator signature: 

Organization: Dovetail CRG Date: 6/3/2021

9. NOTES, OBSERVATIONS:

CRS# S13422

The Agricultural site 7S-F-176 consists of 51 historic artifacts recovered from 26 positive shovel test pits (STPs) consisting mainly of bottle/vessel glass with lesser amounts of ceramic vessel sherds, window and, and nails. STPS were conducted at the site on a 50-foot grid.

10. STATE HISTORIC CONTEXT FRAMEWORK (check all appropriate boxes; refer to state management plan(s)):

a) Time period(s)

- ☐ Pre-European Contact
- ☐ Paleo-Indian
- ☐ Archaic
- ☐ Woodland I
- ☐ Woodland II

- ☐ 1600-1750± Contact Period (Native American)
- ☐ 1630-1730± Exploration and Frontier Settlement
- ☐ 1730-1770± Intensified and Durable Occupation
- ☐ 1770-1830± Early Industrialization
- ☒ 1830-1880± Industrialization and Early Urbanization
- ☒ 1880-1940± Urbanization and Early Suburbanization
- ☐ 1940-1970± Suburbanization and Early Ex-urbanization

b) Geographical zone

- ☐ Piedmont
- ☐ Upper Peninsula
- ☐ Lower Peninsula/Cypress Swamp
- ☒ Coastal
- ☐ Urban (City of Wilmington)

c) Historic period theme(s)

☒ Agriculture	☐ Transportation and Communication
☐ Forestry	☐ Settlement Patterns and Demographic Changes
☐ Trapping/Hunting	☐ Architecture, Engineering and Decorative Arts
☐ Mining/Quarrying	☐ Government
☐ Fishing/Oystering	☐ Religion
☐ Manufacturing	☐ Education
☐ Retailing/Wholesaling	☐ Community Organizations
☐ Finance	☐ Occupational Organizations
☐ Professional Services	☐ Major Families, Individuals and Events
☐ Military	☐ Recreation and Cultural Arts

**CULTURAL RESOURCE SURVEY
ARCHAEOLOGICAL SITE FORM**

CRS # S13422
Site # 7S-F-174

1. INFORMANT: Dovetail Cultural Resource Group
2. SURFACE CONDITION: submerged ☐ cultivated ☒ wooded ☐
marsh ☐ beach/shoreline ☐ fallow ☐
urban ☐
other: _____
integrity: poor
3. SOIL TYPE: Pepperbox-Rosedale Complex, 0-2% slope, well-drained
4. DESCRIPTION OF FIELD WORK (check all that apply): surface collection ☐ visibility _____ %
shovel test ☒ measured unit ☐ mechanical stripping ☐
remote sensing ☐ walkover ☐ informant collection ☐
5. COLLECTIONS:
- a) Repository HCA Delaware State Museum Accession # _____
Collector/consultant Dovetail Cultural Resource Group
Date _____ Surface ☐ Excavation ☒
- b) Repository _____ Accession # _____
Collector/consultant _____
Date _____ Surface ☐ Excavation ☐
- c) Repository _____ Accession # _____
Collector/consultant _____
Date _____ Surface ☐ Excavation ☐
- d) Repository _____ Accession # _____
Collector/consultant _____
Date _____ Surface ☐ Excavation ☐

6. ARTIFACTS: List material and types

CRS # S13422

Site # 7S-F-174

Ceramics (ironstone, whiteware, and creamware), window, bottle, and vessel glass. Metal including wire nails.

7. FEATURES:

None.

8. DOCUMENTATION:

Publication/report title	Year
Phase I Archaeological Survey of the North Millsboro Bypass Project, Sussex County, Delaware	2021

Supporting documentation on file: (Mark the appropriate boxes)

Field notes	yes ☐	no ☐
Maps	yes ☐	no ☐
Drawings	yes ☐	no ☐
Photographs	yes ☐	no ☐
Lab Analysis	yes ☐	no ☐



DELAWARE DIVISION OF HISTORICAL AND CULTURAL AFFAIRS
STATE HISTORIC PRESERVATION OFFICE
21 THE GREEN, DOVER, DE 19901

CULTURAL RESOURCE SURVEY
MAP FORM

CRS # S13422

1. ADDRESS/LOCATION: Agricultural field northwest of the Intersection of U.S. 113 and Patriots Way, Millsboro, DE.

2. NOT FOR PUBLICATION ☐ reason: _____

3. LOCATION MAP:
Indicate position of resource in relation to geographical landmarks such as streams and crossroads.
(insert section of USGS quad map or aerial photograph with location marked)

INDICATE NORTH ON SKETCH

CRS # S13422

4. SITE PLAN:
(insert aerial photograph or map showing relationship of buildings, driveway, outbuildings, fences, etc., to each other; label elements as needed; add other pages as needed)

INDICATE NORTH ON PLAN Shown as Site 1 on the aerial image and the USGS map below.

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culturally sensitive material



CRS # S13424.001
SPO Map _____
Hundred Dagsboro
Quad Millsboro
Other _____

CULTURAL RESOURCE SURVEY
PROPERTY IDENTIFICATION FORM

1. HISTORIC NAME/FUNCTION: George W.C. Hearn Dwellings and Agricultural Complex Site A
2. ADDRESS/LOCATION: Agricultural field between Fox Run Road and the Norfolk Southern Rail line, Millsboro, DE.
3. TOWN/NEAREST NAMED PLACE: Millsboro vicinity? ☒
4. MAIN TYPE OF RESOURCE: building ☐ structure ☐ site ☒ object ☐
landscape ☐ district ☐
5. MAIN FUNCTION OF PROPERTY: Agricultural
6. PROJECT TITLE/ REASON FOR SURVEY (if applicable): Phase I Archaeological Survey of the North Millsboro Bypass Project, Sussex County, Delaware

7. ADDITIONAL FORMS USED:

#:	Form:	List property types:
	CRS 2 Main Building Form	
	CRS 3 Secondary Building Form	
X	CRS 4 Archaeological Site Form	
	CRS 5 Structure (Building-Like) Form	
	CRS 6 Structure (Land Feature) Form	
	CRS 7 Object Form	
	CRS 8 Landscape Elements Form	
X	CRS 9 Map Form	N/A
	CRS 13 Photographs Form	N/A
	CRS 14 Proposed District Form	
	CRS 15 Structure (Bridge) Form	

8. SURVEYOR INFORMATION:

Surveyor name: William Liebeknecht

Principal Investigator name: William Liebeknecht

Principal Investigator signature: 

Organization: Dovetail CRG Date: 6/3/2021

9. NOTES, OBSERVATIONS:

CRS# S13424.001

The Ingram-Ableman House site consists of 618 historic artifacts recovered from 34 positive shovel test pits (STPs) and five Test Units consisting American stoneware, ironstone, whiteware, redware, yellowware, pearlware and creamware) window, bottle, and vessel glass. Metal including machine cut and wire nails. Numerous small red brick fragments, not retained.

10. STATE HISTORIC CONTEXT FRAMEWORK (check all appropriate boxes; refer to state management plan(s)):

a) Time period(s)

- ☐ Pre-European Contact
- ☐ Paleo-Indian
- ☐ Archaic
- ☐ Woodland I
- ☐ Woodland II

- ☐ 1600-1750± Contact Period (Native American)
- ☐ 1630-1730± Exploration and Frontier Settlement
- ☐ 1730-1770± Intensified and Durable Occupation
- ☐ 1770-1830± Early Industrialization
- ☒ 1830-1880± Industrialization and Early Urbanization
- ☒ 1880-1940± Urbanization and Early Suburbanization
- ☐ 1940-1970± Suburbanization and Early Ex-urbanization

b) Geographical zone

- ☐ Piedmont
- ☐ Upper Peninsula
- ☐ Lower Peninsula/Cypress Swamp
- ☒ Coastal
- ☐ Urban (City of Wilmington)

c) Historic period theme(s)

☒ Agriculture	☐ Transportation and Communication
☐ Forestry	☐ Settlement Patterns and Demographic Changes
☐ Trapping/Hunting	☐ Architecture, Engineering and Decorative Arts
☐ Mining/Quarrying	☐ Government
☐ Fishing/Oystering	☐ Religion
☐ Manufacturing	☐ Education
☐ Retailing/Wholesaling	☐ Community Organizations
☐ Finance	☐ Occupational Organizations
☐ Professional Services	☐ Major Families, Individuals and Events
☐ Military	☐ Recreation and Cultural Arts

**CULTURAL RESOURCE SURVEY
ARCHAEOLOGICAL SITE FORM**

CRS # S13424.001
Site # 7S-F-175A

1. INFORMANT: Dovetail Cultural Resource Group
2. SURFACE CONDITION: submerged ☐ cultivated ☒ wooded ☐
marsh ☐ beach/shoreline ☐ fallow ☐
urban ☐
other: _____
integrity: poor
3. SOIL TYPE: Pepperbox-Rosedale Complex and Fort Moot-Henlopan Complex 0-5% slope well-drained
4. DESCRIPTION OF FIELD WORK (check all that apply): surface collection ☐ visibility _____ %
shovel test ☒ measured unit ☐ mechanical stripping ☐
remote sensing ☐ walkover ☐ informant collection ☐
5. COLLECTIONS:
- a) Repository HCA Delaware State Museum Accession # _____
Collector/consultant Dovetail Cultural Resource Group
Date _____ Surface ☐ Excavation ☒
- b) Repository _____ Accession # _____
Collector/consultant _____
Date _____ Surface ☐ Excavation ☐
- c) Repository _____ Accession # _____
Collector/consultant _____
Date _____ Surface ☐ Excavation ☐
- d) Repository _____ Accession # _____
Collector/consultant _____
Date _____ Surface ☐ Excavation ☐

6. ARTIFACTS: List material and types

CRS # S13424.001

Site # 7S-F-175A

Ceramics (American stoneware, ironstone, whiteware, redware, yellowware, pearlware and creamware) window, bottle, and vessel glass. Metal including machine cut and wire nails. red brick not saved.

7. FEATURES:

None.

8. DOCUMENTATION:

Publication/report title	Year
Phase I Archaeological Survey of the North Millsboro Bypass Project, Sussex County, Delaware	2021

Supporting documentation on file: (Mark the appropriate boxes)

Field notes	yes ☐	no ☐
Maps	yes ☐	no ☐
Drawings	yes ☐	no ☐
Photographs	yes ☐	no ☐
Lab Analysis	yes ☐	no ☐



DELAWARE DIVISION OF HISTORICAL AND CULTURAL AFFAIRS
STATE HISTORIC PRESERVATION OFFICE
21 THE GREEN, DOVER, DE 19901

CULTURAL RESOURCE SURVEY
MAP FORM

CRS # S13424.001

1. ADDRESS/LOCATION: Agricultural field between Fox Run Road and the Norfolk Southern rail line, Millsboro, DE.

2. NOT FOR PUBLICATION ☐ reason: _____

3. LOCATION MAP:
Indicate position of resource in relation to geographical landmarks such as streams and crossroads.
(insert section of USGS quad map or aerial photograph with location marked)

INDICATE NORTH ON SKETCH

CRS # S13424.001

4. SITE PLAN:
(insert aerial photograph or map showing relationship of buildings, driveway, outbuildings, fences, etc., to each other; label elements as needed; add other pages as needed)

INDICATE NORTH ON PLAN Shown as Site 2 on the aerial image and the USGS map below.

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CRS # S13424.002
SPO Map _____
Hundred Dagsboro
Quad Millsboro
Other _____

CULTURAL RESOURCE SURVEY
PROPERTY IDENTIFICATION FORM

1. HISTORIC NAME/FUNCTION: George W.C. Hearn Dwellings and Agricultural Complex Site B
2. ADDRESS/LOCATION: Agricultural field between Fox Run Road and the Norfolk Southern Rail line, Millsboro, DE.
3. TOWN/NEAREST NAMED PLACE: Millsboro vicinity? ☒
4. MAIN TYPE OF RESOURCE: building ☐ structure ☐ site ☒ object ☐
landscape ☐ district ☐
5. MAIN FUNCTION OF PROPERTY: Agricultural
6. PROJECT TITLE/ REASON FOR SURVEY (if applicable): Phase I Archaeological Survey of the North Millsboro Bypass Project, Sussex County, Delaware

7. ADDITIONAL FORMS USED:

#:	Form:	List property types:
	CRS 2 Main Building Form	
	CRS 3 Secondary Building Form	
X	CRS 4 Archaeological Site Form	
	CRS 5 Structure (Building-Like) Form	
	CRS 6 Structure (Land Feature) Form	
	CRS 7 Object Form	
	CRS 8 Landscape Elements Form	
X	CRS 9 Map Form	N/A
	CRS 13 Photographs Form	N/A
	CRS 14 Proposed District Form	
	CRS 15 Structure (Bridge) Form	

8. SURVEYOR INFORMATION:

Surveyor name: William Liebeknecht

Principal Investigator name: William Liebeknecht

Principal Investigator signature: 

Organization: Dovetail CRG Date: 6/3/2021

9. NOTES, OBSERVATIONS:

CRS# S13424.002

The Houston-Moore House site consists of 19 historic artifacts recovered from 13 positive shovel test pits (STPs) consisting of ceramics (ironstone, whiteware, and porcelain), clear glass vessel fragments and machine cut and wire nails.

10. STATE HISTORIC CONTEXT FRAMEWORK (check all appropriate boxes; refer to state management plan(s)):

a) Time period(s)

- ☐ Pre-European Contact
- ☐ Paleo-Indian
- ☐ Archaic
- ☐ Woodland I
- ☐ Woodland II

- ☐ 1600-1750± Contact Period (Native American)
- ☐ 1630-1730± Exploration and Frontier Settlement
- ☐ 1730-1770± Intensified and Durable Occupation
- ☐ 1770-1830± Early Industrialization
- ☒ 1830-1880± Industrialization and Early Urbanization
- ☒ 1880-1940± Urbanization and Early Suburbanization
- ☐ 1940-1970± Suburbanization and Early Ex-urbanization

b) Geographical zone

- ☐ Piedmont
- ☐ Upper Peninsula
- ☐ Lower Peninsula/Cypress Swamp
- ☒ Coastal
- ☐ Urban (City of Wilmington)

c) Historic period theme(s)

☒ Agriculture	☐ Transportation and Communication
☐ Forestry	☐ Settlement Patterns and Demographic Changes
☐ Trapping/Hunting	☐ Architecture, Engineering and Decorative Arts
☐ Mining/Quarrying	☐ Government
☐ Fishing/Oystering	☐ Religion
☐ Manufacturing	☐ Education
☐ Retailing/Wholesaling	☐ Community Organizations
☐ Finance	☐ Occupational Organizations
☐ Professional Services	☐ Major Families, Individuals and Events
☐ Military	☐ Recreation and Cultural Arts

**CULTURAL RESOURCE SURVEY
ARCHAEOLOGICAL SITE FORM**

CRS # S13424.002
Site # 7S-F-175B

1. INFORMANT: Dovetail Cultural Resource Group
2. SURFACE CONDITION: submerged ☐ cultivated ☒ wooded ☐
marsh ☐ beach/shoreline ☐ fallow ☐
urban ☐
other: _____
integrity: poor
3. SOIL TYPE: Fort Moot-Henlopan Complex 2-5% slope well-drained
4. DESCRIPTION OF FIELD WORK (check all that apply): surface collection ☐ visibility _____ %
shovel test ☒ measured unit ☐ mechanical stripping ☐
remote sensing ☐ walkover ☐ informant collection ☐
5. COLLECTIONS:
- a) Repository HCA Delaware State Museum Accession # _____
Collector/consultant Dovetail Cultural Resource Group
Date _____ Surface ☐ Excavation ☒
- b) Repository _____ Accession # _____
Collector/consultant _____
Date _____ Surface ☐ Excavation ☐
- c) Repository _____ Accession # _____
Collector/consultant _____
Date _____ Surface ☐ Excavation ☐
- d) Repository _____ Accession # _____
Collector/consultant _____
Date _____ Surface ☐ Excavation ☐

6. ARTIFACTS: List material and types

CRS # S13424.002

Site # 7S-F-175B

Ceramics (ironstone, whiteware, and porcelain), clear glass vessel fragments and machine cut and wire nails.

7. FEATURES:

None.

8. DOCUMENTATION:

Publication/report title	Year
Phase I Archaeological Survey of the North Millsboro Bypass Project, Sussex County, Delaware	2021

Supporting documentation on file: (Mark the appropriate boxes)

Field notes	yes ☐	no ☐
Maps	yes ☐	no ☐
Drawings	yes ☐	no ☐
Photographs	yes ☐	no ☐
Lab Analysis	yes ☐	no ☐



DELAWARE DIVISION OF HISTORICAL AND CULTURAL AFFAIRS
STATE HISTORIC PRESERVATION OFFICE
21 THE GREEN, DOVER, DE 19901

CULTURAL RESOURCE SURVEY
MAP FORM

CRS # S13424.002

1. ADDRESS/LOCATION: Agricultural field between Fox Run Road and the Norfolk Southern rail line, Millsboro, DE.

2. NOT FOR PUBLICATION ☐ reason: _____

3. LOCATION MAP:
Indicate position of resource in relation to geographical landmarks such as streams and crossroads.
(insert section of USGS quad map or aerial photograph with location marked)

INDICATE NORTH ON SKETCH

CRS # S13424.002

4. SITE PLAN:
(insert aerial photograph or map showing relationship of buildings, driveway, outbuildings, fences, etc., to each other; label elements as needed; add other pages as needed)

INDICATE NORTH ON PLAN Shown as Site 3 on the aerial image and the USGS map below.

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APPENDIX D: ARCHITECTURAL HISTORY BACKGROUND REVIEW RESOURCES

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CRS #	Name/Address	Date	Eligibility Determination
S00207	Millsboro Furnace Site, River Road	Not Listed	Not Evaluated
S00321	Mill, Thompsonville Road	1910	Not Evaluated
S00430	Down Sockum, Jersey Road	Not Listed	Not Evaluated
S00437	Doe Bridge Mill Ruins, Gravel Hill Road	ca. 1800	Not Evaluated
S00438	Warren's Mill, Thompsonville Road	1910	NRHP Listed (1978)
S02953	Revel Wilford House, 26842 Gravel Hill Road	ca. 1900	DESHPO Staff: Not Eligible
S02954	Dwelling, Gravel Hill Road	Not Listed	Not Evaluated
S02967	Dwelling Complex, Route 24	Not Listed	Not Evaluated
S02980	Dwelling Complex, Jersey Road	Not Listed	Not Evaluated
S02981	Dwelling, 26499 Jersey Road	Not Listed	Not Evaluated
S02982	Dwelling, 26482 Jersey Road	Not Listed	Not Evaluated
S02983	Dwelling, Jersey Road	Not Listed	Not Evaluated
S02984	Wright-Burton Agricultural Complex, Jersey Road	ca. 1785	Not Evaluated
S03140	Wright Gardiner H. House (Beers), Jersey Road	Not Listed	Not Evaluated
S03141	Dwelling, Route 305	Not Listed	Not Evaluated
S03142	Agricultural Complex, Route 24	Not Listed	Not Evaluated
S03143	Walter Dodd Farm, 26536 West Main Street	ca. 1890	DESHPO Staff: Not Eligible
S03145	Head of the River Mill, 26422 Jersey Road	Not Listed	Not Evaluated
S03146	Dwelling Complex, 26430 Jersey Road	Not Listed	Not Evaluated
S03147	Dwelling Complex, Route 24	Not Listed	Not Evaluated
S03148	Agricultural Complex, Route 24	Not Listed	Not Evaluated
S03151	Dwelling, Route 314	Not Listed	Not Evaluated
S04018	Betts Pond Bridge No. 508, U.S. 113 over Betts Pond	1912	DESHPO Staff : Eligible
S04670	Dwelling, Thompsonville Road	ca. 1930	Not Evaluated
S04671	Dwelling, 393 Betts Pond Road	ca. 1890	Not Evaluated
S04672	Agricultural Complex, 24601 Betts Pond Road	ca. 1920	DESHPO Staff: Not Eligible
S04673	Tilney House, Dagsboro Road	ca. 1740	DESHPO Staff: Eligible
S04674	Agricultural Complex, 25475 Betts Pond Road	ca. 1920	DESHPO Staff: Not Eligible

CRS #	Name/Address	Date	Eligibility Determination
S04675	Dwelling Complex, 613 U.S. 113	ca. 1940	DESHPO Staff: Not Eligible
S04685	Agricultural Complex, 326 County Road	ca. 1935	DESHPO Staff: Not Eligible
S04686	Dwelling, Cedar Lane	Not Listed	Not Evaluated
S04687	Dwelling, Patriots Way	ca. 1930	DESHPO Staff: Not Eligible
S04688	Dwelling, Route 86/318	Not Listed	Not Evaluated
S04689	Dwelling, Colony Road	Not Listed	Not Evaluated
S04690	Dwelling, Colony Road	Not Listed	Not Evaluated
S04691	Dwelling, Route 326	Not Listed	Not Evaluated
S06931	Pennsylvania Railroad Bridge, Betts Pond Road	1913/1915	Not Evaluated
S09129	Stockley Center Farm Residence Complex, Patriots Way	ca. 1890	DESHPO Staff: Not Eligible
S09132	Sussex Central Middle School, 302 East State Street	1928	Not Evaluated
S09147	Warren Mill Historic District, Thompsonville Road	Not Listed	DESHPO Staff: Eligible
S09147.001	Warren's Mill, Betts Pond Road	Not Listed	DESHPO Staff: Eligible; Contributing to S09147
S09147.002	Warren's Mill Owner's House, Betts Pond Road	Not Listed	DESHPO Staff: Eligible; Contributing to S09147
S09147.003	Warren's Mill Dam, Betts Pond Road	Not Listed	DESHPO Staff: Eligible; Contributing to S09147
S09147.004	Warren's Mill Spillway and Tailrace, Betts Pond Road	Not Listed	DESHPO Staff: Eligible; Contributing to S09147
S10617	House, U.S. 113	Not Listed	DESHPO Staff: Not Eligible
S10618	House, 28348 U.S. 113	Not Listed	DESHPO Staff: Not Eligible
S10619	House, 28380 U.S. 113	Not Listed	DESHPO Staff: Not Eligible
S10620	House, U.S. 113	Not Listed	DESHPO Staff: Not Eligible
S10761	Dwelling and Commercial Building, 28225 U.S. 113	ca. 1945	Not Evaluated
S10889	House, 399 Delaware Avenue	Not Listed	DESHPO Staff: Not Eligible
S10890	Building, 28806 Godwin Street	Not Listed	Not Evaluated

CRS #	Name/Address	Date	Eligibility Determination
S10891	Building, 28796 Godwin Street	Not Listed	Not Evaluated
S10892	Building, 28774 Godwin Street	Not Listed	Not Evaluated
S10893	Building, 288 West State Street	Not Listed	Not Evaluated
S10894	House, 287 West State Street	Not Listed	DESHPO Staff: Not Eligible
S10895	House, 24329 Hardscrabble Road	Not Listed	DESHPO Staff: Not Eligible
S10896	House, 26999 Patriots Way	Not Listed	DESHPO Staff: Not Eligible
S10897	Agricultural Complex, 24245 Hardscrabble Road	ca. 1945	DESHPO Staff: Not Eligible
S10905	House, 27175 Bethesda Road	Not Listed	DESHPO Staff: Not Eligible
S10906	House, 27167 Bethesda Road	Not Listed	DESHPO Staff: Not Eligible
S10907	House, 27201 Bethesda Road	Not Listed	DESHPO Staff: Not Eligible
S10925	Delaware Veterans Memorial Cemetery, 26669 Patriots Way	1999	DESHPO Staff: Not Eligible
S10946	House, 26835 Patriots Way	Not Listed	Not Evaluated
S10947	House, 24918 Doe Bridge Lane	Not Listed	DESHPO Staff: Not Eligible
S10951	Motel, 28344 U.S. 113	Not Listed	Not Evaluated
S11313	House, 29591 John J. Williams Highway (DE-24)	Not Listed	DESHPO Staff: Not Eligible
S11314	House, 27494 Herbert Lane	Not Listed	Not Evaluated
S11315	Building, Maryland Camp Road	Not Listed	Not Evaluated
S11320	House, 26723 Jersey Road	Not Listed	Not Evaluated
S11321	House, 26719 Jersey Road	Not Listed	Not Evaluated
S11322	Building, 26713 Jersey Road	Not Listed	Not Evaluated
S11323	House, 26703 Jersey Road	Not Listed	DESHPO Staff: Not Eligible
S11324	Shop/Garage, 26693 Jersey Road	Not Listed	DESHPO Staff: Not Eligible
S11325	House, 26683 Jersey Road	Not Listed	DESHPO Staff: Not Eligible
S11326	House, 26674 Jersey Road	Not Listed	DESHPO Staff: Not Eligible
S11327	House, 26673 Jersey Road	Not Listed	DESHPO Staff: Not Eligible
S11328	House, 26633 Jersey Road	Not Listed	DESHPO Staff: Not Eligible
S11329	House, 26655 Jersey Road	Not Listed	DESHPO Staff: Not

CRS #	Name/Address	Date	Eligibility Determination
			Eligible
S11330	Building, 26623 Jersey Road	Not Listed	Not Evaluated
S11331	House, 26615 Jersey Road	Not Listed	Not Evaluated
S11332	House, 26605 Jersey Road	Not Listed	DESHPO Staff: Not Eligible
S11333	House, 26597 Jersey Road	Not Listed	DESHPO Staff: Not Eligible
S11334	Building, 28440 Justice Lane	Not Listed	Not Evaluated
S11335	Building, 26551 Jersey Road	Not Listed	Not Evaluated
S11336	Building, 26552 Jersey Road	Not Listed	Not Evaluated
S11337	Building, 26540 Jersey Road	Not Listed	Not Evaluated
S11338	Building, 26532 Jersey Road	Not Listed	Not Evaluated
S11349	Frame Family Cemetery, Gravel Hill Road	1802	DESHPO Staff: Not Eligible
S11350	House, 26873 Gravel Hill Road	ca. 1905	DESHPO Staff: Not Eligible
S11351	House, 28043 Gravel Hill Road	Not Listed	DESHPO Staff: Not Eligible
S11352	House, 28105 Gravel Hill Road	Not Listed	DESHPO Staff: Not Eligible
S11353	House, 28111 Gravel Hill Road	Not Listed	DESHPO Staff: Not Eligible
S11354	House, 28171 Gravel Hill Road	Not Listed	DESHPO Staff: Not Eligible
S11355	House, 28207 Gravel Hill Road	Not Listed	DESHPO Staff: Not Eligible
S11356	House, 28291 Gravel Hill Road	Not Listed	Not Evaluated
S11357	House, 26414 Jersey Road	Not Listed	Not Evaluated
S11358	House, 26438 Jersey Road	Not Listed	Not Evaluated
S11359	House, 26448 Jersey Road	Not Listed	Not Evaluated
S11360	House, 26475 Jersey Road	Not Listed	Not Evaluated
S11361	House, 26488 Jersey Road	Not Listed	Not Evaluated
S11362	House, 26508 Jersey Road	Not Listed	Not Evaluated
S11363	House, 29727 John J. Williams Highway (DE-24)	Not Listed	DESHPO Staff: Not Eligible
S11364	House, 29719 John J. Williams Highway (DE-24)	Not Listed	DESHPO Staff: Not Eligible
S11365	House, 29707 John J. Williams Highway (DE-24)	Not Listed	DESHPO Staff: Not Eligible
S11366	House, 26729 Jersey Road	Not Listed	DESHPO Staff: Not Eligible
S11767	Dwelling Complex, 28151 Gravel Hill Road	ca. 1935	DESHPO Staff: Not Eligible

CRS #	Name/Address	Date	Eligibility Determination
S11768	Dwelling, 28161 Gravel Hill Road	ca. 1952	DESHPO Staff: Not Eligible
S11769	Agricultural Complex, 28121 Gravel Hill Road	ca. 1962	DESHPO Staff: Not Eligible
S11370	Building, 26481 Jersey Road	Not Listed	Not Evaluated
S11371	Building, 26509 Jersey Road	Not Listed	Not Evaluated
S12140	Dwelling, 28223 Gravel Hill	ca. 1954	DESHPO Staff: Not Eligible
S12146	Dwelling, 25558 Betts Pond Road	ca. 1950	DESHPO Staff: Not Eligible
S12147	Dwelling, 25493 Betts Pond Road	ca. 1960	DESHPO Staff: Not Eligible
S12148	Dwelling, 28194 Fox Den Road	ca. 1940	DESHPO Staff: Not Eligible
S12192	Saint Marks Episcopal Church and Cemetery, 114 West State Street	1870-1884	Not Evaluated
S12193	Dwelling, 215 West State Street	ca. 1890	Not Evaluated
S12194	Dwelling, 135 West State Street	ca. 1915-1920	Not Evaluated
S12195	Dwelling, 131 West State Street	ca. 1915-1920	Not Evaluated
S12196	Dwelling, 127 West State Street	ca. 1890	Not Evaluated
S12197	Dwelling, 123 West State Street	ca. 1915-1920	Not Evaluated
S12198	Dwelling, 119 West State Street	ca. 1930	Not Evaluated
S12199	Dwelling, 115 West State Street	ca. 1935-1940	Not Evaluated
S12200	Dwelling, 111 West State Street	ca. 1935-1940	Not Evaluated
S12201	Williams John and Elise E. House, 105 West State Street	ca. 1925	Not Evaluated
S12202	Dwelling and Apartment House, 118 West State Street	ca. 1890	Not Evaluated
S12203	Dwelling, 122 West State Street	ca. 1915-1920	Not Evaluated
S12204	Dwelling, 124–128 West State Street	ca. 1890	Not Evaluated
S12205	Dwelling, 134 West State Street	ca. 1900	Not Evaluated
S12206	Dwelling, 138 West State Street	ca. 1903	Not Evaluated
S12207	Dwelling, 142 West State Street	ca. 1945-1950	Not Evaluated
S12208	Dwelling, 200 Sussex Alley	ca. 1950	Not Evaluated
S12209	Commercial Building, 209–213 West State Street	ca. 1945	Not Evaluated
S12210	Burton-Blackstone-Carey Store, 103 East State Street	ca. 1840	NRHP Listed (2014)
S12211	Bank, 303 Main Street	ca. 1918	Not Evaluated
S12212	Commercial Building, 302 Main Street	ca. 1920	Not Evaluated
S12213	Store, 240 Main Street	ca. 1915	Not Evaluated
S12214	Millsboro Volunteer Fire Company-Station 83, 109 East State Street	1926	Not Evaluated

CRS #	Name/Address	Date	Eligibility Determination
S12215	Edward W. Houston House, 201 East State Street	ca. 1870	Not Evaluated
S12216	Dwelling, 209 East State Street	ca. 1947	Not Evaluated
S12217	Dwelling, 213 East State Street	ca. 1880	Not Evaluated
S12218	Dwelling, 301 East State Street	ca. 1900	Not Evaluated
S12219	Dwelling, 305 East State Street	ca. 1880	Not Evaluated
S12220	Dwelling, 309 East State Street	ca. 1880	Not Evaluated
S12221	Dwelling, 323 East State Street	ca. 1920	Not Evaluated
S12222	Dwelling, 218 East State Street	ca. 1895-1900	Not Evaluated
S12223	Dwelling, 214 East State Street	ca. 1910	Not Evaluated
S12224	Dwelling, 210 East State Street	ca. 1925-1930	Not Evaluated
S12339	Agricultural Complex, 24245 Hardscrabble Road	ca. 1940	Not Evaluated
S12340	Agricultural Complex, 24329 Hardscrabble Road	ca. 1930	Not Evaluated
S12817	Commercial Building, 28219 U.S. 113	1968	Not Evaluated
S12818	Dwelling, 22829 U.S. 113	1968	Not Evaluated
S12819	Commercial Building, 28243 U.S. 113	ca. 1953	Not Evaluated
S12820	Dwelling, 24514 Betts Pond Road	ca. 1954	Not Evaluated
S12821	Dwelling, 24622 Betts Pond Road	ca. 1968	Not Evaluated
S12822	Dwelling, 24532 Betts Pond Road	ca. 1968	Not Evaluated
S12983	Ball Theater, 214 Main Street	1937	NRHP Listed (2018)
S11488	House, Patriots Way	Not Listed	DESHPO Staff: Not Eligible

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APPENDIX E: CHAIN OF TITLES

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Area 1: Parcels 133-11-14 and 133-16-5

Parcel 133-11-14							
Type	Book	Page	Date	Grantor	Grantee	Comments	Acres
Deed	5036	269–276	3/27/2019	Patriots Landing, LLC.	State of Delaware, Department of Transportation	The Grantor conveys five parcels of land to the Grantee in this deed. Tract 2 in the Deed is Parcel 133-11-14. The Grantor purchased this property in 2006 (Deed 3375, 40).	38.50 acres
Deed	3375	40–43	10/10/2006	Sussex Realty Company and Tunnell Properties, LLC.	Patriots Landing, LLC.	The Grantor conveys to the Grantee all of Tract 2 (Parcel 133-11-14). This is the same land conveyed to Sussex Realty Company in 1962 (Deed 544, 115) (i.e. Tract 2) and the same land conveyed to Tunnell Properties, LLC. in 2004 (Deed 3041, 160) (i.e Tract 1).	38.50 acres
Tract 1							
Deed	3041	160–163	9/30/2004	J. Raymond Baker Jr, Trustee of the J. Raymond Baker Revocable Trust, and Blanche W. Baker, Trustee of Blanche W. Baker Revocable Trust; PNC Bank Successor in Interest	Tunnell Properties, LLC.	The Grantor conveys to the Grantee two tracts; Tract 1 contains 6.5 acres and Tract 2 contains 68 acres, with the exception of 26.5 acres that were sold in 1953 (Deed 427, 487). It is unclear which portion of the 38.50 acres above is located within these two tracts. Tract 2 is the former George W. C. Hearn land where his mansion house once stood. Both tracts were sold to the Grantors in 1994 (Deed 1970, 246).	48 acres
Deed	1970	246–249	3/30/1994	J. Raymond & Blanche W. Baker Jr.	J. Raymond Baker Jr, Trustee of the J. Raymond Baker Revocable Trust, and Blanche W. Baker, Trustee of Blanche W.	The Grantors convey to the Grantees 4 tracts of land; including the tract containing 6.5 acres (noted as Tract 2) and the tract containing 68 acres – 26.5 acres sold in 1953 via Deed 427, 487 (noted as Tract 4). The Grantors	48 acres

					Baker Revocable Trust	received Tract 2 in 1973 (Deed 697, 197) and received Tract 4 in 1987 (Deed 1481, 63) and in 1988 (Deed 1541, 201). For organizational purposes, Tract 2 will be called Tract A and Tract 4 will be called Tract B.	
Tract A: 6.5 acres							
Deed	697	197–198	1/22/1973	John J. & Elsie E. Williams	J. Raymond & Blanche W. Baker Jr.	The Grantors convey all 6.5 acres to the Grantees. This land is located on the east side of the old County road that leads from Millsboro to Georgetown and contains cut-over woodland. This is the same land conveyed to the Grantors in 1942 (Deed 334, 118).	6.5 acres
Deed	334	118–120	1/13/1942	Homer H. & Louise C. Pepper	John J. Williams	The Grantors convey the land to Grantee which is a portion of the land that the Grantors received in 1940 (Deed 326, 510).	6.5 acres
Deed	326	510–511	10/24/1940	Chester V. Townsend Jr. (a corporation)	Homer H. Pepper	The Grantor conveys the land to Grantee which is the same land that the Grantors received in 1940 (Deed 328, 16). The total acreage is 50 acres.	50 acres
Deed	328	16–17	9/20/1940	Willis Vickers & Ella Vickers	Chester V. Townsend Jr.	The Grantors convey the land to Grantee that the Grantors received in 1931 (Deed 282, 232).	50 acres
Deed	282	232–233	1/1/1931	Able & Fannie Ableman	Willis & Ella Vickers	The Grantors convey the land to Grantee that the Grantors received in 1917 (Deed 204, 365).	50 acres
Deed	204	365–368	2/23/1917	George H. Ingram	Able Ableman	The Grantors convey the land to Grantee that the Grantors received in 1886 (Deed 126, 469).	50 acres
Deed	126	469–471	11/1/1886	Benjamin & Annie Ingram	George H. Ingram	The Grantors convey the land to Grantee that Annie Ingram received in 1886 (Deed 105, 205).	50 acres

Deed	105	205–207	7/28/1886	Linda Mitchell	Annie Ingram	The Grantors convey the land to Grantee. The deed does not mention where Mitchell received the land, but references a deed transaction from 1881 (Deed 35, 424).	50 acres
Deed	105	203–204	7/28/1886	Benjamin & Annie Ingram	Linda Mitchell	The Grantors convey the land to Grantee. Again, there is no mention of where Ingrams received the land.	50 acres
Deed	105	201–202	12/5/1884	Thomas R. & Mary Ingram and Harry & Emmaline Ingram	Benjamin & Annie Ingram	The Grantors convey the land to Grantee. Again, there is no mention of where Ingrams received the land; however, there is the reoccurring mention of Levin Ellis purchasing the property, known as Lot #8, in a public sale of George W. C. Hearn's lands. He sold it back to Sussex County in 1881 (Deed 35, 424). This deed was not located during this effort.	50 acres
Tract B: 68 acres – 26.5 acres							
Deed	1541	201	1/4/1988	John J. & Elsie Williams	J. Raymond & Blanche W. Baker Jr.	The Grantors convey 68 acres, minus the 26.5 acres sold (Deed 427, 487), to the Grantees. This is the former lands of George W. C. Hearn on which stands his mansion. This is the same land conveyed to Grantors in 1982 (Deed 1099, 263). Another deed for this exact same transaction in March 1987 is located in Book 1481 on page 63.	68 acres minus 26.5 acres = 41.5 acres
Deed	1099	263–267	1/6/1982	John J. Williams	John J. & Elsie E. Williams	The Grantor conveys the land to himself and his wife. This is the same land the Grantor received in 1939 (Deed 324, 15).	68 acres minus 26.5 acres = 41.5 acres

Deed	324	15–16	12/22/1939	Victor L. & Nellie G. Steele	John J. Williams	The Grantor conveys the land to the Grantee. This is the same land the Grantor received in 1915 (Deed 197, 30).	68 acres
Deed	197	30–32	3/18/1915	The Selbyville National Bank	Victor L. Steele	The Grantor conveys the land to the Grantee. This is the same land the Grantor received in 1911 (Deed 176, 285).	68 acres
Deed	176	285–286	2/1/1911	Mary M. & George T. Ellis, Executors for George C. Ellis	Paul T. Scott	Lands of George C. Ellis were sold at auction to pay for his debts; this parcel was Tract No. 2 in that sale. This is the same land that was conveyed to the Ellis in 1890 (Deed 113, 21).	68 acres
Deed	113	21–22	3/8/1890	Henry L. Barker and Francis & Annie E. Dryden	George C. Ellis	The Grantor conveys the land to the Grantee. This is the same land the Grantor received in 1888 (Deed 108, 164; 108, 200).	68 acres
Deed	108	164–165	3/19/1888	Thomas R. & Mary J. Ingram	Henry L. Barker & Francis Dryden	The Grantor conveys the land to the Grantee. This 50-acre parcel was the same land that Grantors purchased from Harry Ingram in 1884. No deed was listed. Furthermore this transaction and deed were no located during this effort.	50 acres
Deed	108	200–201	3/23/1888	Harry & Emmaline Ingram	Henry L. Barker & Francis Dryden	The Grantor conveys the land to the Grantee. This property contained 14 acres and 154 square perches of land. No mention of how the Grantors came into possession of the land was uncovered. No deed for that transaction was uncovered.	14 acres & 154 square perches
Tract 2							
Deed	544	115–116	1/27/1962	Williams Hatchery, Inc.	Sussex Realty Company	The Grantor convey to Grantee 26.5 acres which had been part of 68 acre lot. The Grantor received the land in 1953	26.5 acres

						(Deed 427, 487).	
Deed	427	487–488	12/17/1953	John J. & Elsie E. Williams	Williams Hatchery, Inc.	The Grantor conveys to the Grantee 26.5 acres of land. This is the same that was part of a 68 acre lot sold to the Grantors in 1939 (Deed 324, 15). Please refer back to Deed 324, 15 under Tract 1, Tract B above and the remaining deeds under that tract.	26.5 acres

Parcel 133-16-5							
Type	Book	Page	Date	Grantor	Grantee	Comments	Acres
Deed	5036	269–276	3/27/2019	Patriots Landing, LLC.	State of Delaware, Department of Transportation	The Grantor conveys five parcels of land to the Grantee in this deed. Parcel 133-16-5 is the same land conveyed to the Grantor in 2004 (Deed 3073, 116).	39.584 acres
Deed	3073	116–118	12/9/2004	Townsend, Inc.	Patriots Landing, LLC.	The Grantor conveys all 39.584 acres to the Grantee. This is the same land that was conveyed to Townsends, Inc. in 1941 (Deed 331, 121).	39.584 acres
Deed	331	121–122	5/20/1941	J.G. & Preston Townsend	Townsends, Inc.	The Grantor conveys to the Grantee all 39 acres and 127 perches of land. It is the same land that was part of the land sold to the Grantor in 1920 (Deed 219, 366). It is also the same land in which an undivided ½ interest was conveyed to Clayton A. Bunting in 1923 (Deed 243, 295). It is also the same land in which Clayton A. Bunting conveyed an undivided ½ interest share of the land to Preston Townsend (deed unrecorded) in 1941.	39.584 acres
Deed	219	366–367	2/17/1920	Peninsula Real Estate Company	John G. Townsend Jr.	The Grantor conveys several tracts of land to the Grantee. It is unclear which tract the 39.584 acres was originally a part of; however, it is likely that the land was a part of Tract 1 – the Williams & Scott farm which contained 104 acres (Deed 196, 278).	324 acres
Deed	196	278–281	5/21/1915	James E. & Ida E. Goslee	Peninsula Real Estate Company	The Grantor conveys three tracts which combine to measure 104 acres of land to the Grantee. Tract 1 contains 29 ¾ acres and Tract 2 contains 27 acres and	104 acres

						49 square perches. This is the same land that the Grantor received in 1915 (Deed 197, 150). The third tract contained 47 acres and was given to the Grantor in 1915 (Deed 197, 148).	
Tract 1 & 2							
Deed	197	150–153	5/6/1915	Paul T. & Daisy Scott and Thomas A. & Charles A. Holloway	James E. Goslee	The Grantor conveys two tracts to the Grantee. Tract 1 contains 29 $\frac{3}{4}$ acres and was conveyed to the Paul Scott in 1915 (Deed 196, 275). Tract 2 contains 27 acres and 49 square perches conveyed to the Holloways at an unknown date. No deed of this transaction was uncovered.	29 $\frac{3}{4}$ acres, 27 acres, 49 square perches
Deed	196	275–277	5/1/1915	Walter W. & Mildred E. Gregory	Paul T. Scott	The Grantor conveys 27-acre tract to Grantee. The deed notes that this is the same land that Scott purchased at auction of George C. Ellis' land.	27 acres
Deed	181	225–226	5/6/1911	Paul T. & Daisy Scott	Walter W. Gregory	The Grantor conveys 27-acre tract to Grantee. The deed notes that this is the same land that Scott purchased at auction of George C. Ellis' land from John H. Derrickson. A deed of that transaction was not found during this effort.	27 acres
Tract 3							
Deed	197	148–150	5/6/1915	The Selbyville National Bank	James E. Goslee	The Grantor conveys to the Grantee	47 acres

Area 2A: Parcels 133-11-15 and 133-16-12

Parcel 133-11-15							
Type	Book	Page	Date	Grantor	Grantee	Comments	Acres
Deed	5036	269–276	3/27/2019	Patriots Landing, LLC.	State of Delaware, Department of Transportation	The Grantor conveys five parcels of land to the Grantee in this deed. Tract 3 in the Deed is Parcel 133-11-15. The Grantor gained this property in 2006 (Deed 3375, 40).	5.1015 acres
Deed	3375	40–43	10/10/2006	Sussex Realty Company and Tunnell Properties, LLC.	Patriots Landing, LLC.	The Grantor conveys to the Grantee all of Tract 3 (Parcel 133-11-15). This is the same land conveyed to Sussex Realty Company in 1962 (Deed 544, 115) and the same land conveyed to Tunnell Properties LLC in 2004 (Deed 3041, 160).	5.1015 acres
Deed	3041	160–163	9/30/2004	J. Raymond Baker Jr, Trustee of the J. Raymond Baker Revocable Trust, and Blanche W. Baker, Trustee of Blanche W. Baker Revocable Trust; PNC Bank Successor in Interest	Tunnell Properties, LLC.	The Grantor conveys to the Grantee two tracts; the first is related to this parcel and contains 6.5 acres. This is the same land conveyed (Tracts 2 and 4) to the Grantors in 1994 (Deed 1970, 246).	6.5 acres
				<i>See Parcels 133-11-14 and 133-16-5 for the remainder of this property.</i>			
Parcel 133-16-12							
Type	Book	Page	Date	Grantor	Grantee	Comments	Acres
Deed	5036	269–	3/27/2019	Patriots Landing, LLC.	State of	The Grantor conveys five parcels of	Tract 1:

		276			Delaware, Department of Transportation	land to the Grantee in this deed. Parcel 133-16-12 contains two tracts of land. The first tract contains 19.067 acres and the second tract contains 21.637 acres. This is the same land that was sold in 2005 (Deed 3134, 129). Also see Deeds 384, 234 and 1970, 246.	19.067 acres Tract 2: 21.637 acres Total: 40.704 acres
Deed	3141	287– 293	5/10/2005	TP One, LLC.	Patriots Landing, LLC.	The Grantor conveys to the Grantee the property which is composed of two tracts. Both are part of the lands conveyed to the Grantor in 2005 (Deed 3134, 129).	40.704 acres
Deed	3134	129– 142	4/25/2005	Townsend, Inc.	TP One, LLC.	The Grantor conveys to the Grantee 16 parcels of land. The undivided interest share on the parcel in question was conveyed to the Grantor by two deeds: Deed 423, 354 and Deed 423, 502.	50 acres
Deed	423	345– 348	9/18/1953	Lillie J. Gray (widow)	Townsend, Inc.	The Grantor, widow to George Gray, conveys an undivided ½ share of interest on the 50-acre property in question. This is the same property that was conveyed to George & Lillie Gray and Chester V. Townsend, Jr. in 1949 (Deed 384, 499).	50 acres
Deed	423	502– 504	8/22/1953	Chester and Doris Townsend Jr.	Townsend, Inc.	The Grantor conveys an undivided ½ interest of share on the 50-acre property to the Grantee. The same land conveyed to Grantor in 1949 (Deed 384, 499).	50 acres
Deed	384	499–	5/6/1949	Homer & Louise Pepper	George & Lillie	The Grantor conveys an undivided ½	50

		500			Gray and Charles Townsend Jr.	share of interest on the 50-acre property to George & Lillie Gray and another undivided ½ interest share to Charles Townsend Jr. This is the same land that the Grantor received in 1940 (Deed 326, 510).	acres
				<i>See Parcels 133-11-14 and 133-16-5 for the remainder of this property.</i>			

Area 2B: Parcels 133-16-13 and 133-16-13.1

Parcel 133-16-13							
Type	Book	Page	Date	Grantor	Grantee	Comments	Acres
Deed	8297	0	2015	Lucien L. Lenhart	Aleta R. Esham and Lucien T. Lenhart Jr.	No deed record or index record was uncovered for this transaction. Date and deed book were found in Sussex County Property Records Search database.	11.3 acres
Deed	4609	330–332	10/10/2016	Lucien T. Lenhart, Jr.	Lucien T. Lenhart, Jr. and Sandra Lenhart	The Grantor conveys this land to himself and his wife, the Grantees. The Grantor received the land from his father, Lucien T. Lenhart upon his passing in 2014. This became parcel 133-16-13.02.	29.447 acres
Deed of Easement	3962	58–64	9/21/2011	Lucien L. Lenhart	The Town of Millsboro	For \$4,500, the Grantor conveys to the Grantee easements and rights-of-way on portions of his property for four different easements.	25 feet by 600 feet; 25 feet by 1,060 feet; 25 feet by 600 feet; 25 feet by 1,060 feet
Deed	384	234	1/29/1949	Harley P. & Ida E. White	Lucien T. & Ruth L. Lenhart	The Grantor conveys 50 acres to the Grantee. This is the same land that the Grantor received in 1948 from Alfred Collins. No deed book reference was listed.	50 acres
Deed	384	189–190	12/28/1948	Alfred R. & Mary E. Collins	Harley P. White	The Grantor conveys 50 acres to the Grantee. This is the same land the Grantor received from Olia Steele in 1944 (Deed 346, 360).	50 acres
Deed 346	346	360–361	3/20/1944	Olia S. Steele	Alfred R. Collins	The Grantor conveys 50 acres to the Grantee. This is the same land the Grantor received from Marian Parker in	50 acres

						1935 (Deed 286, 337).	
Deed	286	337–338	1/20/1932	Marian G. Parker	Olia S. Steele	The Grantor conveys 50 acres to the Grantee. This is the same land the Grantor received on the same day this deed was recorded; no specific deed was listed.	50 acres
Deed	286	336–337	1/20/1932	Frederick G. Steele	Marian G. Parker	The Grantor conveys 50 acres to the Grantee. This is the same land the Grantor received from Valetta Guernsey in 1918 (Deed 212, 216).	50 acres
Deed	212	216–217	11/9/1918	Valetta Guernsey	Frederick G. Steele	The Grantor conveys 50 acres to the Grantee. This is the same land the Grantor received from the Moores in 1914 (Deed 192, 324).	50 acres
Deed	192	324–326	3/13/1914	Joseph & Alice Moore	Valetta Guernsey	The Grantor conveys 50 acres to the Grantee. This is the same land that Grantor received from the Ablemans in 1911 (Deed 180, 303).	50 acres
Deed	180	303–305	3/18/1911	Able & Fannie Ableman	Joseph Moore	The Grantor conveys 50 acres to the Grantee. This is the same land that was conveyed to the Grantor from Minty Tingle, formerly Minty Hopkins, in 1909 (Deed 170, 142).	50 acres
Deed	170	142–144	9/3/1909	Minty (née Hopkins) & Nathaniel Tingle	Able Ableman	The Grantor conveys 50 acres to the Grantee. This is the same land that was conveyed to the Grantor from the Farmers Bank in 1903 (Deed 145, 587).	50 acres
Deed – Quit Claim	146	79–80	9/3/1903	George H. Ingram	Minty Hopkins	The Grantor issues a quit claim on the property sold to the Grantee in 1903 from the Farmers Bank.	50 acres
Deed	145	587–589	9/5/1903	President Directors of	Minty Hopkins	The Grantor conveys 50 acres to Grantee. This is the same land, Tract No. 2, the	50 acres

				Company of Farmers Bank		Grantees received from J. Francis Bacon, the trustee of the land, in 1894.	
Deed	121	11–15	3/17/1894	J. Francis Bacon, Trustee	President Directors of Company of Farmers Bank	The Grantor conveys to the Grantee several tracts of land which amount to 661 acres; however, the tract in question is Tract No.2 which contains 50 acres. J. Francis Bacon was appointed to execute the public sale of this land; there is no mention of who previously owned the land.	50 acres
Parcel 133-16-13.01							
Type	Book	Page	Date	Grantor	Grantee	Comments	Acres
Deed	2222	227–229	8/1/1997	Lucien T. Lenhart	William J. & Aleta R. Esham	The Grantor conveys to the Grantee 1.53 acres. This is part of the same land that was conveyed to the Grantor in 1949 (Deed 384, 234). The Grantor's wife, Ruth Lenhart passed away in 1989; her interest in the property was passed to her husband, Lucien.	1.53 acres
				<i>See Parcel 133-16-13 for further details</i>			

Area 5: Parcels 234-27-26

Parcel 234-27-26							
Type	Book	Page	Date	Grantor	Grantee	Comments	Acres
Deed	4447	94–102	9/2/2015	Katherine Hamblin (Trustee of Katherine Hamblin Living Trust), Paul W. II Hamblin (Trustee of Paul W. II Hamblin Living Trust), Paul W. III Hamblin and Curtis Carey (Co-Trustees of the Sylvia D. Hamblin Trust), Michael L. Christensen and Elizabeth Groth (Co-Trustees of the Paul W. Hamblin III Survivorship Trust)	Paul W. Hamblin III	The Grantors convey to the Grantee 43 acres and 12,540 square feet of land expect for the stipulations set forth in the deed between Paul W. and Sylvia Hamblin and Katherine R. Hamblin and Paul W. Hamblin II (Deed 1687, 78 & 80), the deed between John Lee Hamblin et al. and Paul W. and Sylvia Hamblin (Deed 738, 159), and the deed between Paul W. and Sylvia Hamblin and the State of Delaware (Deed 2041, 169). This is the same land conveyed to Katherine Hamblin Trust and the Paul W. Hamblin II Trust in 1994 (Deed 1991, 149 & 151), the same land conveyed to Michael L. Christensen and Elizabeth Groth and to Paul W. Hamblin III and Curtis Carey (Deeds 3892, 327 & 330).	43 acres and 12,540 square feet
Deed	3892	330–	5/10/2011	Paul W. Hamblin III and Curtis	Paul W. Hamblin	This agreement conveys 50%	43 acres

		333		Carey, Co-Trustees of Sylvia D. Hamblin Trust	III and Curtis Carey, Co-Trustees of Sylvia D. Hamblin Trust	interest in the property described above to Grantees. These are the same lands conveyed to Sylvia Hamblin, Trustee of Sylvia Hamblin Revocable Trust from Paul W. Hamblin in 2008 (Deed 3568, 58).	and 12,540 square feet
Deed	3892	327–329	May 10, 2011	Provident Trust Company, representative of River City Bank, Successor Trustee of the Paul W. Hamblin Revocable Trust	Michael L. Christensen and Elizabeth Groth, Co-Trustees of the Paul W. Hamblin III Irrevocable Survivorship Trust	The Grantor conveys all the property to the Grantees, except for the land conveyed to Paul and Sylvia D. Hamblin in 1974 (Deed 738, 159), land conveyed to Katherine Hamblin and Paul W. Hamblin II in 1989 (Deed 1687, 78 & 80), and conveyed to the State of Delaware in 1995 (Deed 2041, 169). This is the same land that was conveyed to the Paul W. Hamblin Trust in 1996 (Deed 2109, 211).	43 acres and 12,540 square feet
Deed	3568	58–60	3/25/2008	Paul W. Hamblin	Sylvia D. Hamblin, Trustee of Sylvia D. Hamblin Revocable Trust	The Grantor conveys 50% interest to the Grantee on the property mentioned above (including the same restrictions). This is the same land that was conveyed to Paul W. Hamblin in 1994 (Deed 3568, 55).	43 acres and 12,540 square feet
Deed	3568	55–57	3/25/2008	Paul W. Hamblin, Trustee of Paul W. Hamblin Revocable	Paul W. Hamblin	The Grantor conveys 50% interest to the Grantee on the	43 acres and

				Trust		property mentioned above (including the same restrictions). This is the same land conveyed to Paul W. Hamblin Trustee in 1994 (Deed 2109, 211).	12,540 square feet
Deed	2109	211–212	2/23/1996	Paul W. & Sylvia D. Hamblin	Paul W. Hamblin, Trustee of the Paul W. Hamblin Revocable Trust	The Grantor conveys the same land mentioned above (including the same restrictions) to the Grantee. This is the same land that the Grantor received from John Hamblin, Guardian of the property of Flossie E. Hamblin in 1983 (Deed 1190, 187).	43 acres and 12,540 square feet
Deed	2041	169–173	1/6/1994	Paul W. Hamblin & Sylvia Hamblin and Paul W. II & Katherine Hamblin	State of Delaware	The Grantor conveys 6.8740 acres of land, which was part of a 53.03 acre tract conveyed to the Grantor in 1983 (Deed 1190, 187), to the Grantee. It is possible the 53.03 acres is a typo; the deed from 1983 states the land contains 43 acres. The land contains marsh land and will be part of a nature preserve known as “Hamblin Tract”.	6.8740 acres
Deed	1991	151–152	6/29/1994	Paul W. II Hamblin	Paul W. II Hamblin, Trustee of Paul W. II Hamblin Revocable Living	The Grantor conveys 13% interest on the property to the Grantee. The only exception on the property is the land conveyed to Paul W. Hamblin	43 acres and 12,540 square feet

					Trust	II in 1989 (Deed 1687, 78).	
Deed	1991	149–150	6/29/1994	Katherine R. Hamblin	Katherine R. Hamblin, Trustee of Katherine R. Hamblin Revocable Living Trust	The Grantor conveys 13% interest on the property to the Grantee. The only exception on the property is the land conveyed to Paul W. and Sylvia D. Hamblin in 1974 (Deed 738, 159).	43 acres and 12,540 square feet
Deed	1687	78–79	11/27/1989	Paul W. & Sylvia D. Hamblin	Paul W. Hamblin II	The Grantor conveys 13% interest on the property to the Grantee. The only exception on the property is the land conveyed to Paul W. and Sylvia D. Hamblin in 1974 (Deed 738, 159).	43 acres and 12,540 square feet
Deed	1687	80–81	11/27/1989	Paul W. & Sylvia D. Hamblin	Katherine E. Hamblin	The Grantor conveys 13% interest on the property to the Grantee. The only exception on the property is the land conveyed to Paul W. and Sylvia D. Hamblin in 1974 (Deed 738, 159).	43 acres and 12,540 square feet
Deed	1190	187–188	7/8/1983	John Hamblin, Guardian of the Property of Flossie E. Hamblin	Paul W. & Sylvia D. Hamblin	The Grantor conveys the same land mentioned above to the Grantees. The only exception on the land at the time is the land conveyed to Paul and Sylvia Hamblin in 1974 (Deed 738, 159). The land conveyed by John Hamblin is the same land he and Flossie Hamblin received in 1946 (361, 436).	43 acres and 12,540 square feet

Deed	361	436– 437	8/27/1946	John O. & Elsie M. Brittingham	Joshua & Flossie E. Hamblin	The Grantor conveys the same lands mentioned above to the Grantee. This is the same land that was conveyed to the Grantor in 1945 (Deed 353, 92).	43 acres and 12,540 square feet
Deed	353	92	4/23/1945	Walter C. & Blanche H. Cordrey	John O. & Elsie M. Brittingham	The Grantor conveys the same lands mentioned above to the Grantee. These are the same lands that were part of Lots No. 6 and 11 that were sold at public auction by Harold L. Wilson in July 1926. They are the same lands that were conveyed to William Blaine Adkins from Harold L. Wilson.	43 acres and 12,540 square feet
Deed	262	79– 81	7/10/1926	Harold & Calla Wilson and Annie & Roger Williams	William Blaine Adkins & Walter C. Cordrey	The Grantors convey to the Grantees Lots 6 and 11; these lands were sold at public auction. There is no mention of where the Grantors received the land.	88 acres and 100 square perches

Area 6: Parcels 234-32-103

Parcel 234-32-103							
Type	Book	Page	Date	Grantor	Grantee	Comments	Acres
Quitclaim Deed	2794	135–152	11/30/2000	Central Grain, Inc. & Townsends, Inc.	Mountaire Farms of Delaware Inc.	Quitclaim deed to the property that the Grantor sold to the Grantee in May 2000 (Deed 2484, 129).	21 parcels for a total of approximately 1,980 acres; parcel in question – 97.7 acres
Deed	2484	129–146	5/12/2000	Central Grain, Inc. & Townsends, Inc.	Mountaire Farms of Delaware Inc.	The Grantor conveys to the Grantee 21 parcels of land. Parcel 234-32-103 is one them; it is the same land that was conveyed to Townsends, Inc. from the Betts family in November 1944 (Deed Book 347, 553). The parcel is composed of three tracts: No. 1, No. 2, and No. 3.	21 parcels for a total of approximately 1,980 acres; parcel in question – 97.7 acres
Deed	347	553–555	11/1/1944	Charles Williams & Sadie Betts; Ira C. & Miranda Betts	Townsends, Inc.	The Grantors convey to the Grantee all three tracts. No.1 contains 71 acres and was purchased by Abraham Betts from Edward S. Burton at an unknown date (Deed 140, 481). No. 2 contains 18.7 acres of land. Abraham and Bettie Betts got it from John and Sarah Thomas in 1907 (Deed 274, 214). No. 3 contains an unknown amount of land. It is the same land conveyed to Abraham Betts from Henry Barker	97.7 acres

						in 1934 (Deed 296, 238). Charles and Ira Betts received this land from the will of Abraham Betts in 1937 (Will Book 35, 384).	
Tract No. 1							
Deed	140	481–482	12/31/1900	Edward S. Burton	Abraham L. & Bettie J. Betts	The Grantor conveys to the Grantee property containing 71 acres. It is the same land purchased by Burton in 1895 (Deed 120, 468).	71 acres
Deed	120	468–469	5/14/1895	Sheriff John H. Truitt	Edward S. Burton	The Grantor conveys to the Grantee property containing 71.5 acres, a dwelling, stables, and an outbuilding. The land was sold at public auction.	71.5 acres
Deed	62	196–197	4/28/1855	Joseph Bennett	Jacob Cramfield	The Grantor conveys to the Grantee property containing 71.25 acres.	71.25 acres
Tract No. 2							
Deed	274	214–216	3/9/1907	John E. & Sarah E. Thomas	Abraham L. & Bettie J. Betts	The Grantor conveys to the Grantee property containing 18.7 acres. This is the same property purchased by the Grantors in 1903 (Deed 145, 306).	18.7 acres
Deed	145	306–307	9/3/1903	Mary L. Downs	John E. & Sarah E. Thomas	The Grantor conveys to the Grantee property containing 18.7 acres. This is the same property the Grantors purchased from the Betts; no deed listed.	18.7 acres
Deed	145	308–309	10/4/1902	Abraham L. & Bettie J. Betts	Mary L. Downs	The Grantor conveys to the Grantee property containing 18.7 acres. There is no mention of where the Betts purchased the land.	18.7 acres
Tract No. 3							

Deed	296	238– 239	7/16/1934	Henry L. & Fayette B. Barker	Abraham L. Betts	The Grantor conveys to the Grantee property containing 8 acres. This is the same land the Grantor purchased in 1917 (Deed 213, 156).	8 acres
Deed	213	156– 157	4/24/1917	Florence E. Davidson and Ward W. & Edith Davidson	Henry L. Barker	The Grantor conveys to the Grantee property containing 8 acres. There is no mention of how the Davidsons purchased the land.	8 acres

APPENDIX F: QUALIFICATIONS OF THE PRINCIPAL INVESTIGATOR

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YEARS EXPERIENCE

With this firm: 5

With other firms: 32

EDUCATION

MA/Public History, 1992

BA/Anthropology, 1984

REGISTRATIONS/QUALIFICATIONS

Register of Professional Archaeologists

Secretary of Interior Standards Qualified as
Archaeologist and Historian

PUBLICATIONS/PRESENTATIONS/COMMITTEES

Bulletin co-editor/Archaeological Society of Delaware
(2016–present)

Program Chairperson/Middle Atlantic Archaeology
Conference (2005)

“Wolf Traps in 17th Century Delaware” In *The
Archaeology of New Netherland*, edited by John
McCarthy and Craig Lukezic. The University Press of
Florida, Gainesville, Florida (2021)

Kaolin Clay Mining in Southeast Pennsylvania and
Northwest Delaware. Co-authored with Kristine A.
Chase, Curtis A McCoy and John P. McCarthy.
Pennsylvania Archaeologist, Bulletin of the Society for
Pennsylvania Archaeology, Inc. Volume 90 Number 1
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“Sometimes You Can See the Forest for the Trees:
Establishing an 18th-Century Slave Quarter Site
Complex at the Cedar Creek Road Site in Southern
Delaware, Where the Documents are Silent.” In *African
Archaeology of the Delaware Valley*, edited by Richard
Veit and Michael Gall (2017)

Archaeological Investigations at Wistarburgh. In
Archaeology in the Delaware Valley, 1600-1850, with
Damon Tvaryanas, edited by Richard Veit and David
Orr (2014)

“The Meadowood Culture in Delaware. *Bulletin of the
Archaeological Society of Delaware* 48, New Series
(2011)

BILL LIEBEKNECHT, MA, RPA

Principal Investigator/Regional Manager

EXPERIENCE

Mr. Liebeknecht has over 37 years of experience in writing and implementing cultural resource management (CRM) research designs. He has worked on CRM projects in Delaware, Maryland, New Jersey, New York, Pennsylvania, and Virginia and has directed numerous archaeological surveys and excavations on prehistoric and historic sites, with a focus on the material culture of the Middle Atlantic Region. At Dovetail, Mr. Liebeknecht serves as a Project Archaeologist II and assists in marketing, managing projects, and preparing technical reports. In addition to his CRM experience, Mr. Liebeknecht has authored numerous scholarly articles and chapters in books on his research on prehistoric lifeways and historic material culture. He has also presented numerous professional papers at major regional and national conferences.

SAMPLE PROJECTS

Principal Investigator/Plantation-wide Phase IA Archaeological Survey of the John Dickinson Plantation Kent County, Delaware (Delaware Division of Historical and Cultural Affairs [DE HCA]). Review of over four decades of reports and artifact collections to create a single document to guide future work at the new National Park site.

Principal Investigator/Historic Architectural Survey and Phase IA Archaeological Study of the Commissioners Road (CR581) Over Oldmans Creek Road Replacement, Gloucester and Salem Counties, New Jersey (McCormick Taylor). A reconnaissance level architectural survey surrounding a dam replacement and an archaeological assessment of the project area as a subcontractor to McCormick Taylor.

Principal Investigator/Cultural Resource Survey of the Landing at Kingston, Ulster County, New York (Thomas Perna). Phase I and II archaeological survey for a proposed development within a former stone quarry and brick manufacturing operation.

Principal Investigator/Phase IA Cultural Resource Survey of the Heritage Minerals Site, Ocean County, New Jersey (H. Hovnanian Industries). A Phase IA archaeological survey for a private developer.

Principal Investigator/Survey for the Eastern Shore Natural Gas (ESNG) Daleville/Jennersville New Staging Area and Compressor Expansion, Chester County, Pennsylvania (ESNG). Phase I Archaeological Survey in connection with a natural gas pipe line.

Principal Investigator/Phase I Archaeological Survey at Old Bridge Solar, Middlesex County, New Jersey (CEP Solar Limited). Cultural resource studies for the adaptive reuse of an abandoned open clay mine involving a review of earlier studies, reassessment of the Area of Potential Effects for remains of the former operations, Phase I archaeological survey, the production of a technical report to meet compliance needs, project coordination with the State Historic Preservation Office, and oral testimony at the local planning board.

Principal Investigator/HRP Mercer Warehouse, Mercer County, New Jersey (Dynamic Engineering Consultants, PC). Phase IA Archaeological Survey for a proposed warehouse complex, involving detailed map research and review of previous surveys to determine potential areas of interest at an industrial site.