PHASE IB FIELD INVESTIGATION
FOR THE PROPOSED

GREAT LAKES CHEESE MANUFACTURING FACILITY (PROJECT BLOCK)

TOWN OF FARMERSVILLE
TOWN OF FRANKLINVILLE
CATTARAUGUS COUNTY
NEW YORK

NYSOPRHP No. 21PR04384

PREPARED FOR

CC ENVIRONMENT & PLANNING

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PREPARED BY

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NOVEMBER 2021

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MANAGEMENT SUMMARY

NYSOPRHP Review Number: **21PR04384**

Lead Agency: **Cattaraugus County IDA**

Involved State and Federal Agencies: **NYSDEC, NYSDOT, NYSDAM, NYSERDA, NYPA, Empire State Development, Public Service Commission, and Department of Public Service**

Phase of Survey: **Phase IB Field Investigation**

Location Information: **East Side of NYS Route 16/98**

Coordinates: **42.352066, -78.448895**

Minor Civil Division: **Towns of Farmersville and Franklinville**

County: **Cattaraugus**

Survey Area:
- Average Survey Length: **3,500 +/- feet (1,067 +/- meters)**
- Average Survey Width: **1,300 +/- feet (396 +/- meters)**
- Overall Property: **128.85 +/- acres (52.14 +/- hectares)**
- Area of Potential Effect (APE): **107 +/- acres (43.3 +/- hectares)**

USGS 7.5-Minute Quadrangle Map: ***Franklinville, NY***

Archaeological Survey Overview
- Number/Interval of STPs:
  - **112 STPs at 50-foot (15-meter) intervals**
  - **9 STPs at 25-foot (7.5-meter) intervals**
  - **10 Random STPs in prepared fields**
  - **2 STPs at GPR anomalies (non-burial)**
  - **36 Radial STPs at 1-meter and 3-meter intervals**
- Total Number of STPs: **169 STPs total**
- Interval of Surface Survey: **6-foot (1.8-meter) intervals across entire fields**
- Surface Visibility: **75-90% surface visibility**

Results of Archaeological Survey
- Number and name of Indigenous sites found: **1 – Stray finds across four loci**
  Schwab Indigenous Site (DACRM Site ID: CAT P002)
- Number and name of historic sites found: **2**
  McCaa Farmstead Site (DACRM Site ID: CAT H001)
  Atwater Farmstead Site (DACRM Site ID: CAT H002)
- Number and name of sites recommended for Phase II/Avoidance: **1**
  Potential Tingue Farm Cemetery (Attachment A)

Report Author(s): **Jeremy Deuel, M.A.**
Principal Investigator

Date of Report: **November 2021**

ABSTRACT

Great Lakes Cheese Corporation is proposing the development of a cheese manufacturing and packaging plant along NYS Route 16/98 in the Towns of Farmersville and Franklinville, Cattaraugus County, New York. The area of potential effect (APE) consists of approximately 107 acres (43.3 hectares) of agricultural land bounded by Ischua Creek to the west, Triton Valley Estates – Farmersville to the north, woods to the east, and Triton Valley Estates – Franklinville to the south. Review of the environmental and soils information indicates that the APE is located in the glaciated Allegheny Plateau physiographic province with two mapped soil units with the potential for deeply buried cultural resources. At least six map-documented structures (MDSs) have been indicated within the APE on maps from 1852 to 2021. In addition, the Tingue Farm Cemetery, with burials dating to the first quarter of the 19th Century, has been reported near the southeast corner of Lot 33.

Based on Phase IA background research, the APE is considered to have a high degree of archaeological sensitivity for Indigenous sites and a low to high degree of sensitivity for historic sites, in undisturbed contexts. Deuel Archaeology & CRM (DACRM) recommended that a Phase IB field investigation in the form of systematic surface survey be conducted in all agricultural fields that have been adequately prepared. In areas that have not been historically plowed and fitted, DACRM recommended the excavation of shovel test pits (STPs) at 50-foot (15-meter) intervals. In the mapped units of alluvial soil, two STPs should be excavated to a depth of one meter or until the water table was encountered to assess the potential for deeply buried cultural resources. To determine the location of the Tingue Farm Cemetery, ground-penetrating radar (GPR) was also recommended. The Phase IA report was submitted to the NYSOPRHP for review and comment on September 9, 2021. The NYSOPRHP concurred with the testing recommendations on September 17, 2021.

During the Phase IB field investigation, approximately 104 acres (42.1 hectares) were surface surveyed and 169 shovel test pits (STPs) were excavated. As a result, the Schwab Indigenous Site, the McCaa Farmstead Site, and the Atwater Farmstead Site were identified. The Schwab Indigenous Site consists of four stray finds distributed across four loci. Radial shovel testing and intensive surface survey around each artifact produced no additional Indigenous cultural material. The McCaa site and the Atwater site are comprised of assemblages of historic artifacts and modern debris at the locations of demolished map-documented farmsteads dating from the first half of the 19th Century and the first quarter of the 20th Century, respectively. Prior ground disturbances associated with multiple episodes of building construction and demolition have negatively impacted the archaeological integrity of both historic period sites. Due to a lack of further research potential for the Schwab site and the lack of archaeological integrity for both the McCaa site and the Atwater site, none of the sites identified during the field investigation meet National Register criteria. Therefore, no further archaeological investigation or avoidance measures are recommended for the Schwab Indigenous Site, the McCaa Farmstead Site, or the Atwater Farmstead Site. Photographs were taken to show general field conditions, field methodology, prior ground disturbances, and the current conditions of the archaeological sites.

In addition to the archaeological sites identified by DACRM, eight potential burial shafts and six tentative burial shafts were identified during the geophysical investigation conducted by Dr. T.J. Horsley. The potential burial shafts correspond to the historically documented location of the Tingue Farm Cemetery along the southern boundary of Lot 33 between the McCaa and Atwater farmsteads. Consequently, DACRM recommends continued consultation with the NYSOPRHP to determine an appropriate avoidance plan or mitigation measures for the potential burial shafts.

INTRODUCTION

On September 17, 2021, Sheila Hess, Principal Ecologist and CEO of CC Environment & Planning of Batavia, New York, contacted DACRM regarding the Phase IB Field Investigation for the proposed Great Lakes Cheese Manufacturing Facility – Project Block to be located along NYS Route 16/98 in the Towns of Farmersville and Franklinville, Cattaraugus County, New York. Geographic limits of the APE are shown on the USGS *Franklinville, NY* 7.5-Minute Series Quadrangle (Figure 1). DACRM received notice to proceed on September 26, 2021. The lead agency for the project is the Cattaraugus County IDA. The NYSDEC (SPDES, Article 15, Air), NYSDOT, NYSDAM, NYSERDA, NYPA, Empire State Development, Public Service Commission, and the Department of Public Service are involved or interested state agencies. The USACE, USFWS, and EPA are interested federal agencies, however, there are currently no federal permit reviews.

The APE consists of approximately 107 acres (43.3 hectares), which will be impacted as necessary for the construction of a 486,000 square-foot (45,151 square-meter) cheese manufacturing and packaging plant. Associated project impacts include roadways, parking lots, soil grading, utilities, stormwater infrastructure, landscaping, and an electrical substation. In addition, a 16,000 square-foot (1,486 square-meter) WWTF will be constructed on site with a 1,250 feet (381 meters) outfall to Ischua Creek. The outfall will consist of 300 square feet (28 square meters) of riprap above the high water line of the creek with a concrete headwall or concrete flared end section at the pipe outfall. The area surveyed by DACRM is shown in Attachment A.

Based on Phase IA background research, the project area was considered to have a high degree of archaeological sensitivity for Indigenous sites and a low to high degree of sensitivity for historic sites. Therefore, DACRM recommended that a Phase IB field investigation in the form of systematic surface survey and shovel testing be conducted within all previously undisturbed sections of APE. The report of the Phase IA Cultural Resource Investigation was submitted to the NYSOPRHP for review and comment on September 9, 2021. Based on the review, the NYSOPRHP concurred with the testing recommendations on September 17, 2021.

The purpose of this investigation was to determine if any Indigenous or historic cultural resources would be affected. This was accomplished through Phase IB field investigation in the form of systematic surface survey and shovel testing. The following report details the research conducted and the results, conclusions, and recommendations of the Phase IB Field Investigation.

USGS Topographic Map

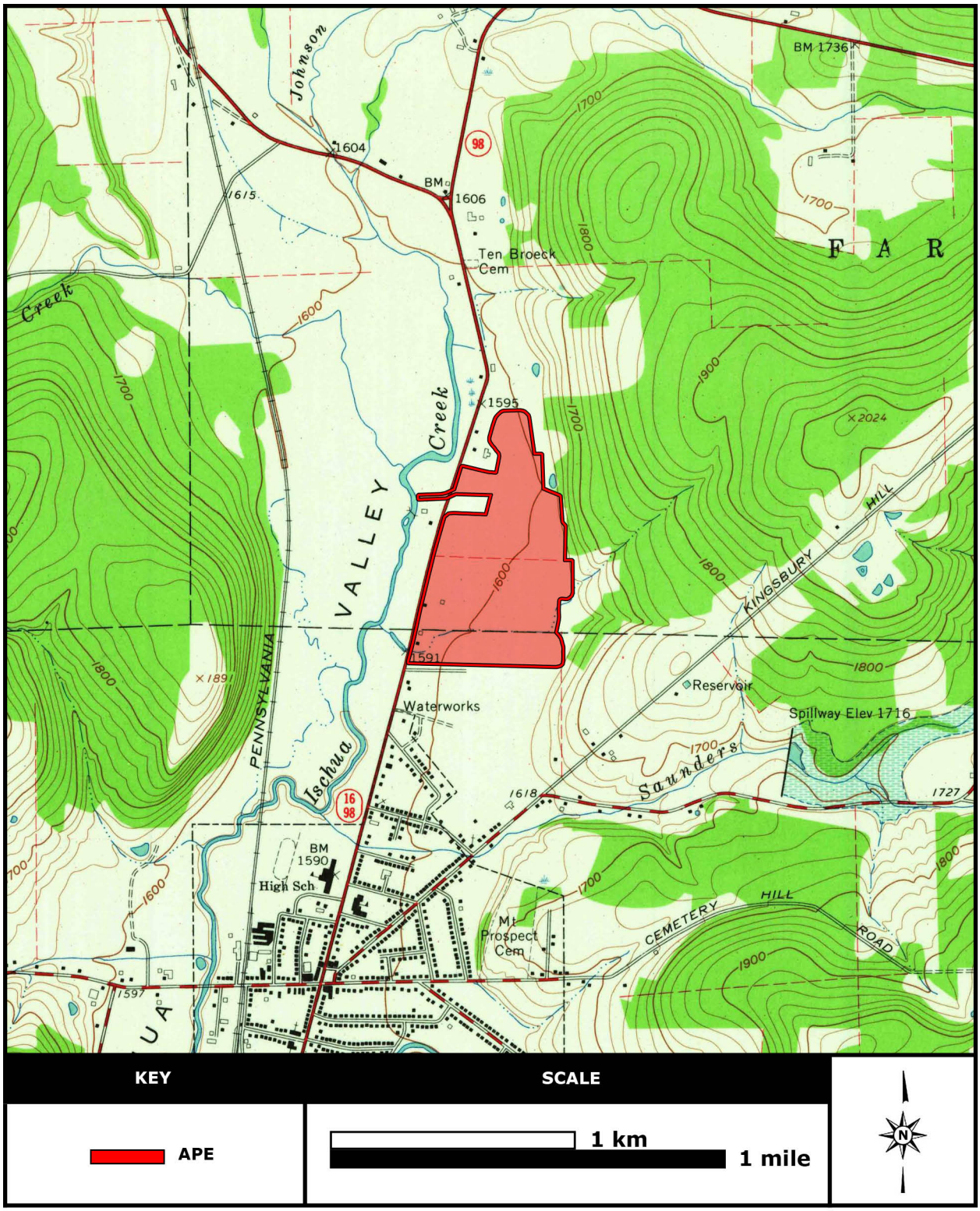


Figure 1. Location of APE on *Franklinville, NY* (USGS 1963).

FIELD INVESTIGATION

METHODOLOGY

In accordance with the Phase IB testing recommendations presented in the Phase IA report, all sections of the APE were subjected to Phase IB field investigation. Approximately 104 acres (42.1 hectares) of agricultural fields in the APE were prepared and subjected to a steady rainfall to facilitate a systematic surface survey. For the purposes of this investigation, the surface survey was divided into three agricultural fields and two map-documented farmstead areas. Field A, comprised of 15 acres (6.1 hectares), is located north of the NYSDOT facility. Field B, located north of the town line, consists of 67 acres (27 hectares). And, Field C is comprised of 18.7 acres (7.6 hectares) located south of the town line. Surface surveyed separately from Field B, the map-documented location of the McCaa farmstead consisted of 2 acres (0.8 hectares). Finally, the map-documented location of the Atwater farmstead, comprised of 1.3 acres (0.5 hectares), was surface surveyed separately from Field C. Surface visibility ranged from 75-90%.

Prior to the surface survey, random STPs were excavated to assess underlying soil characteristics and the average depth of the plowzone (Attachment B: Photos 1 and 2). Following the excavation of the random STPs, field technicians walked the fields aligned along transects spaced 6 feet (1.8 meters) apart. The end of each transect was flagged, and successive transects were walked until the fields were systematically surveyed for 100% coverage (Attachment B: Photos 11-14 and 16-20).

Pin-flags marked the location of Indigenous artifacts identified during the surface survey, and GPS coordinates were assigned for each locus. Around each Indigenous artifact location, intensive surface surveys were performed and radial STPs were excavated at 1-meter and 3-meter intervals. In addition, one STP was excavated at the center where each Indigenous artifact was identified (Attachment B: Photos 21-24).

At the locations of the demolished map-documented farmsteads, intensive surface surveys were also performed. In addition, STPs were excavated at 50-foot (15-meter) intervals to determine the presence of subsurface features (Attachment B: Photos 6-10, 16, and 19). Prior ground disturbances documented during the Phase IA investigation and good surface visibility during the Phase IB field investigation precluded the excavation of STPs at closer intervals. Artifacts on the surface within the limits of the demolished farmsteads were collected and documented separately from the remainder of the agricultural fields.

STPs were excavated at 25-foot (7.5-meter) intervals around a concrete pad located north of the NYSDOT facility, and the remainder of the APE that could not be plowed and fitted was shovel tested at 50-foot (15-meter) intervals (Attachment B: Photos 3-5). Two STPs were also excavated to a depth of 1 meter or until the water table was encountered to assess the potential for deeply buried cultural deposits in mapped units of alluvial soil. The diameter of the STPs averaged 14 inches (36 cm). All STPs were excavated at least 4 inches (10 cm) into subsoil. Soil was screened through quarter-inch hardware cloth.

Indigenous artifacts and historic artifacts with diagnostic potential were collected for processing and laboratory analysis. Modern debris and non-diagnostic historic artifacts were recorded in the field. Dr. Thomas Amorosi analyzed any unidentified faunal remains that were not clearly pig, cow, or cut bone (Attachment E). Photographs were taken to show general field conditions, field methodology, prior ground disturbances, and the current conditions of the archaeological sites (Attachment B).

RESULTS

The principal investigator and up to three field technicians conducted the Phase IB field investigation from September 27 to October 15, 2021. During that time, the temperature was in the mid 40s to the low 70s with a mixture of sun and clouds. Field conditions ranged from damp to saturated. A total of 104 acres (42.1 hectares) were surface surveyed and 169 STPs were excavated within the APE (Attachment A). As a result, one Indigenous site and two historic period farmstead sites were identified. The Schwab Indigenous Site consists of four stray artifacts distributed across four loci. The McCaa Farmstead Site is compromised of a concentration of historic artifacts, modern debris, and construction and demolition debris located on the east side of NYS Route 16/98 on the north side of the town line. And, the Atwater Farmstead Site, consisting of a concentration of historic artifacts, modern debris, and construction and demolition debris, is located south of the McCaa site.

Shovel Test Results

Of the 169 STPs excavated within the APE, ten random STPs were excavated in the agricultural fields prior to the surface survey (Attachment A; Attachment B: Photos 1 and 2). Nine STPs were excavated at 25-foot (7.5-meter) intervals, seven of which were placed around a concrete pad located north of the NYSDOT facility. The remaining two STPs excavated at 25-foot (7.5-meter) intervals were located in front of the commercial building north of the NYSDOT facility (Attachment A; Attachment B: Photos 3 and 4). Another 112 STPs were excavated at 50-foot (15-meter) intervals, including 57 STPs excavated in the agricultural fields at the locations of the demolished map-documented farmsteads, and 55 STPs excavated in areas that could not be plowed and fitted (Attachment A; Attachment B: Photos 3-7, 9, and 10). Two STPs were excavated at two historic archaeological anomalies identified during the geophysical survey to determine the presence of archaeological features (Attachment A; Attachment B: Photo 8). Finally, 36 radial STPs were excavated around four Indigenous artifacts identified during the systematic surface survey (Attachment A; Attachment B: Photos 21-24).

In the agricultural fields outside the map-documented farmsteads, stratigraphic contexts ranged from dark grayish-brown sand loam, silt loam, silty clay, silty clay loam, to silty gravel loam topsoil with an average depth of 10.5 inches (26.7 cm) above brown to grayish-brown silt loam, sand loam, to sandy gravel loam subsoil. Topsoil excavated at radial STPs at Locus 4 exhibited mottled profiles with higher concentrations of silt and clay. The mixed profiles are interpreted to be the result of excavated ditch spoils along the southern boundary of the APE. Undisturbed subsoils were observed below the plowzone at the radial STPs excavated at Locus 4 (Attachment C). Soils were fairly consistent with the representative profile of the mapped soil units.

Stratigraphic contexts from the STPs excavated at the McCaa Farmstead Site consisted of a dark brown to dark grayish-brown loam, sand loam, silt loam, to gravel loam surface layer that extended 9.2 inches (23.4 cm) below grade over a brown, grayish-brown, to gray gravel, gravel loam, loam, sand loam, silt loam, to silty clay subsurface layer. While gravelly silt loam is consistent with the representative profiles of the mapped soil units within the McCaa site, significant modifications were evidenced by rocky and gravelly materials that were not present outside the limits of the map-documented farmstead (Attachment C). According to Jason Schwab, the current landowner, the foundations of the farmstead buildings were removed with an excavator to avoid potential damage to tilling equipment (Jason Schwab, personal communication 2021). Demolition debris was also photographed during the Phase IB field investigation (Attachment B: Photo 15).

Shovel Test Results (continued)

At the Atwater Farmstead Site, stratigraphic contexts were comprised of dark brown to dark grayish-brown silt loam, sand loam, to gravel loam topsoil that averaged 8.8 inches (22.4 cm) in depth above brown, grayish-brown, strong brown, to yellowish-brown sand loam, silt loam, silty clay, to silty clay loam subsoil. Several rocks were also encountered (Attachment C). While soils were fairly consistent with the representative profile of the mapped soil unit, trees and the remnants of the building foundations were removed from the Atwater site between October 2020 and February 2021.

Stratigraphic contexts from the remainder of the STPs excavated in the grassy area north of the NYSDOT facility consisted of dark brown to dark grayish-brown silt loam, silty gravel loam, sand loam, sandy gravel, to sandy gravel loam topsoil that averaged 8.3 inches (21.1 cm) in depth above brown, grayish-brown, gray, light gray, pale brown, to strong brown silt loam, sand loam, sandy gravel, silty gravel, to gravel subsoil. While gravelly soils are consistent with the representative profile of the mapped soil unit in the area north of the NYSDOT facility, modern anthropogenic stratigraphic contexts were observed and evidenced by gravelly materials and shallow depths to subsoil (Attachment C). A grass-covered gravel parking area was also noted north of the commercial building.

STPs R9 and 12.15 were excavated to a depth of 1 meter or until the water table was encountered to assess the potential for deeply buried cultural deposits in mapped units of alluvial soil. The stratigraphic context of STP R9 consisted of 12 inches (30 cm) of dark grayish-brown silt loam topsoil above yellowish-brown silty clay B1-horizon subsoil that extended 20 inches (51 cm) below grade. The B2-horizon subsoil layer was comprised of brown silty clay to a final depth of 22 inches (56 cm), at which the water table was reached. The soil profile of STP 12.15 consisted of 12 inches (30 cm) of dark grayish-brown silt loam topsoil above a B1-horizon subsoil comprised of gray sand with gravel to a depth of 24 inches (61 cm) below grade. Below the B1-horizon subsoil, strong brown coarse sandy gravel was observed to a final depth of 39 inches (99 cm) (Attachment C). The deeply excavated STPs averaged 26 inches (66 cm) in diameter. No soils with the potential for deeply buried cultural deposits were identified.

Sixty-eight pieces of modern debris and 160 historic artifacts were identified in the 169 STPs excavated within the APE. Twenty-five STPs (14.8%) produced historic artifacts, 18 STPs (10.7%) contained modern debris, and 10 STPs (5.9%) produced historic artifacts mixed with modern debris. Historic artifacts included fragments of blue transfer print whiteware ceramic (N=2), flow blue whiteware ceramic (N=1), undecorated ironstone (N=16), decal print ceramic (N=1), bottle glass (N=6), flat glass (N=14), cut nails (N=10), wire nails (N=3), brick (N=32), concrete (N=56), a clay pipe stem (N=1), unidentified metal (N=1), coal (N=10), burnt bone (N=5), a screw (N=1), and a glass bottle stopper (N=1). Modern debris included pieces of bottle glass, plastic, styrofoam, sanitary ceramic, aluminum cans, aluminum siding, laminated wood, milled wood, asphalt shingles, metal wire, a galvanized metal screw, plastic-coated conduit, sheet metal, wire nails, asphalt pavement, and a golf ball (Attachment D). Most of the historic artifacts and modern debris excavated from the STPs were concentrated in the McCaa and Atwater sites.

Surface Survey Results

Following the completion of random shovel testing, a total of 104 acres (42 hectares) were systematically surface surveyed (Attachment A; Attachment B: Photos 11-20). A total of four Indigenous artifacts were distributed across four loci in the agricultural fields.

Surface Survey Results (continued)

Indigenous artifacts included one primary reduction flake, one chert pre-form, and two Brewerton projectile points. Temporally diagnostic artifacts indicate a Late Archaic utilization of the landscape (Attachment D). When an Indigenous artifact was identified during the surface survey, GPS coordinates were recorded, an intensive surface survey was performed, and radial STPs were excavated at 1-meter and 3-meter intervals around each Indigenous artifact location (Attachment B: Photos 21-24). No additional Indigenous artifacts, fire-cracked rock, or archaeological features were identified as a result of the intensive surface surveys and radial shovel testing. Due to the lack of additional Indigenous cultural material identified in the radial STPs, the artifacts are interpreted to be stray finds with no further research potential. See *Archaeological Site Description* on page 10 for more detail on the Schwab Indigenous Site (DACRM Site ID: CAT P002).

Outside the map-documented farmstead locations, low-density scatters of modern debris and historic artifacts were distributed across the agricultural fields. A total of 450 historic artifacts and 664 fragments of modern debris were identified during the systematic surface survey of Fields A through C. Although the quantity of cultural material appears substantial, the systematic surface survey was performed for the entirety of each field for 100% surface coverage. Over 80% of the historic artifacts were comprised of fragments of brick (N=61), undecorated ironstone ceramic (N=50), aqua bottle glass (N=46), clear bottle glass (N=31), redware drain tile (N=24), coal (N=24), ceramic electrical insulators (N=23), clear flat glass (N=21), concrete (N=20), aqua flat glass (N=17), stoneware ceramic crock (N=15), unidentified ferrous metal (N=13), milk glass (N=10), and whiteware ceramic (N=9). Most of the historic artifacts were identified at the peripheries of the map-documented farmstead locations. Modern debris included pieces of plastic, golf balls, shotgun shells, styrofoam, clay pigeons, and bottle glass (Attachment D). The low-density scatters of modern debris and historic artifacts outside the peripheries of the map-documented farmstead locations are interpreted to be the result of secondary deposition rather than *in situ* archaeological deposits.

Inside the limits of the McCaa and Atwater sites, intensive surface surveys were also conducted. As a result of the intensive surface surveys, concentrations of historic artifacts and modern debris were identified at both sites. At the McCaa site, a total of 1,179 historic artifacts and 271 fragments of modern debris were identified during the intensive surface survey. Nearly 75% of the historic artifacts at the McCaa site consisted of fragments of concrete (N=471), brick (N=287), cinder blocks (N=57), mortar (N=40), and fused brick and mortar (N=11). Other historic artifacts included flat glass (N=51), undecorated ironstone ceramic (N=47), drain tile (N=37), bottle glass (N=36), slag (N=31), clinkers (N=16), whiteware ceramic (N=15), and unidentified metal (N=15). Modern debris at the McCaa site consisted of pieces of plastic, baling twine, cloth/fabric, styrofoam, asphalt, and bottle glass (Attachment D). Temporal analysis of the artifact assemblage at the McCaa site suggests a middle 19th Century to late 20th Century occupation.

At the Atwater site, a total of 507 historic artifacts and 194 pieces of modern debris were identified during the intensive surface survey. Over 55% of the historic artifacts at the Atwater site were comprised of fragments of concrete (N=151) and brick (N=115). Other historic artifacts included flat glass (N=55), coal (N=52), undecorated ironstone ceramic (N=45), bottle glass (N=35), clinkers (N=10), and drain tile (N=9). Modern debris at the Atwater site consisted of pieces of plastic, aluminum cans, sanitary ceramic, foam, rubber, cloth/fabric, and bottle glass (Attachment D). Analysis of the artifact assemblage at the Atwater site indicates an early 20th Century to late 20th Century occupation.

Surface Survey Results (continued)

Due to the lack of intact features, stratified deposits, and archaeological integrity, neither the McCaa nor Atwater sites meet National Register criteria. See *Archaeological Site Descriptions* on pages 11-14 for more details on the McCaa Farmstead Site (DACRM Site ID: CAT H001) and the Atwater Farmstead Site (DACRM Site ID: CAT H002). Aside from the Schwab Indigenous Site, the McCaa Farmstead Site, and the Atwater Farmstead Site, no additional archaeological sites were designated within the APE. No problems were encountered that would have impacted the results of the Phase IB field investigation.

Results of the Geophysical Survey

From September 23 through September 26, 2021, Dr. T.J. Horsley performed a high-resolution GPR survey on approximately 3.36 acres (1.36 hectares) of agricultural land in an effort to identify the location of the Tingue Farm Cemetery. Eight potential burial shafts and six tentative burial shafts were identified. The potential burial shafts correspond to the historically documented location of the Tingue Farm Cemetery along the southern boundary of Lot 33 in the Town of Farmersville, Cattaraugus County, New York. The location of the potential burial shafts and tentative burial shafts are shown with a 50-foot (15-meter) buffer in Attachment A. The report of the geophysical survey was submitted to the NYSOPRHP for review and comment on October 21, 2021. DACRM recommends continued consultation with the NYSOPRHP to determine an appropriate avoidance plan or mitigation measures for the potential burial shafts.

ARCHAEOLOGICAL SITE DESCRIPTIONS

SCHWAB INDIGENOUS SITE (DACRM SITE ID: CAT P002)

DACRM site CAT P002 is comprised of four Indigenous stray finds distributed across four loci in the Towns of Farmersville and Franklinville, Cattaraugus County, New York. The site is situated on nearly level terrain in the valley of Ischua Creek in the glaciated Allegheny Plateau physiographic province. GPS coordinates for the four loci are 42.352420, -78.452060 (Locus 1); 42.352830, -78.449040 (Locus 2); 42.351450, -78.448110 (Locus 3); and 42.348810, -78.446460 (Locus 4). An anthropogenic drainage is the closest source of water, located adjacent to Locus 4. Ischua Creek is located approximately 550 feet (168 meters) west of Locus 1. The stray finds consist of a chert projectile point pre-form (Locus 1), a potential primary reduction flake (Locus 2), and two Brewerton projectile points (Loci 3 and 4). The potential chert flake was included in this analysis because the debitage appeared to be the result of human activity. However, the potential flake is morphologically ambiguous enough to be the result of glacial till or modern agricultural activities. Temporally diagnostic artifacts indicate a Late Archaic utilization of the landscape. All four Indigenous artifacts are comprised of Onondaga chert. The artifacts were identified during the Phase IB Field Investigation for the Great Lakes Cheese Manufacturing Facility.

Eight radial STPs were excavated at 1-meter and 3-meter intervals around each Indigenous artifact location. In addition, one STP was excavated at the center of each set of radial STPs. Stratigraphic contexts consisted mainly of dark brown to dark grayish-brown silt loam, silty clay, to silty gravel loam topsoil with an average depth of 10.6 inches (27 cm) above brown to light brown silt loam, sandy gravel loam, to clay subsoil. Topsoil from radial STPs excavated at Locus 4 exhibited mottled profiles with higher concentrations of silt and clay. The mixed profiles are interpreted to be the result of excavated ditch spoils along the southern boundary of the APE. Undisturbed subsoils were observed below the plowzone at the radial STPs excavated at Locus 4.

No additional Indigenous cultural material, fire-cracked rock, or archaeological features were identified as a result of radial shovel testing and intensive surface surveys. The horizontal size of each locus is considered to be a radius of 3 meters. The vertical size of the site ranges from 0 to 14 inches (0 to 36 cm), the maximum depth to subsoil. All four loci retain archaeological integrity.

Proposed project impacts will completely disturb the Schwab site. However, the excavation of radial STPs and intensive surface surveys at each locus failed to produce additional Indigenous cultural resources. Therefore, the site lacks further research potential, and does not meet National Register criteria. No further archaeological investigation is recommended for the Schwab Indigenous Site. DACRM will be the repository for the artifacts and project records. The NYS Archaeological Site Inventory Form is included in Attachment F.

MCCAA FARMSTEAD SITE (DACRM SITE ID: CAT H001)

The McCaa site consists of a concentration of historic artifacts and modern debris at the demolished map-documented location of the McCaa farmstead in the Town of Farmersville, Cattaraugus County, New York. The coordinates for the center of the site are 42.350972, -78.452070. Based on map analysis, the original house was built prior to 1856 by the McCaa family (Figure 5 – Phase IA Report). It is probable that outbuildings were built concurrently with the house. By 1927, the original house was demolished and a new house was constructed. The property remained in the McCaa family through 1929 when William Pitcher purchased the land. A new barn was constructed in 1957 before Anna Marie Pitcher sold the property to William Gordon and Harriet Schuyler in 1968. A garage and two silos were also constructed on the property in 1968 (Attachment B: 17 – Phase IA Report). The Schuylers leased the land to Norman Tingue in 1981, and sold the property to Norman Tingue in 1990. All buildings and structures at the McCaa site were demolished between 1994 and 2002.

During the field investigation, 36 STPs were excavated and an intensive surface survey was conducted at the McCaa site. STPs A1 and A2 were excavated in the southern section of the site following review of the geophysical investigation in which two anomalies suggested the presence of a demolished structure or subsurface trash pits (Horsley 2021). Stratigraphic contexts from the 36 STPs consisted of a dark brown to dark grayish-brown loam, sand loam, silt loam, to gravel loam surface layer that extended 9.2 inches (23.4 cm) below grade over a brown, grayish-brown, to gray gravel, gravel loam, loam, sand loam, silt loam, to silty clay subsurface layer. While gravelly silt loam is consistent with the representative profiles of the mapped soil units within the McCaa site, significant modifications were evidenced by rocky and gravelly materials that were not present outside the limits of the map-documented farmstead. Some of the gravel and rocks are remnants of gravel driveways around the buildings.

A total of 297 fragments of modern debris and 1,299 historic artifacts were identified as a result of shovel testing and intensive surface survey at the McCaa site. Most of the cultural material dates from the middle of the 19th Century through the end of the 20th Century. Table 1 lists the artifact groups and frequencies at the McCaa site.

Table 1. Artifact Groups excavated at the McCaa Farmstead Site.

Ceramic	Food Related	Architectural	Other	Modern Debris
63 ironstone 18 whiteware 2 misc ceramic 4 stoneware	38 bottle glass 4 cut bone 5 burnt bone 4 sun-purple glass 2 clamshell	527 concrete 308 brick 40 mortar 11 brick/mortar 57 cinder block 10 cut nail 2 wire nail 56 flat glass 4 chimney flue tile 1 screw	37 drain tile 1 cuprous metal 17 ferrous metal 4 sheet metal 21 misc metal 1 horseshoe 16 clinker 3 coal 31 slag 7 misc glass 1 ceramic figurine 3 ceramic insulator 1 clay pipe stem	169 misc plastic 12 bottle glass 2 bone 6 misc metal 3 fiberglass 4 sanitary ceramic 3 plastic coat conduit 15 nylon baling twine 11 cloth/fabric 2 cloth gloves 16 misc aluminum 12 misc rubber 11 asphalt 6 styrofoam 5 shotgun shell 3 golf ball 17 misc modern
87 total (5.5%)	**53 total (3.3%)**	**1,016 total (63.7%)**	**143 total (8.9%)**	**297 total (18.6%)**

MCCAA FARMSTEAD SITE (continued)

Nearly 64% of the artifacts identified at the McCaa site consist of architectural artifacts, with concrete and brick contributing over 82% to the group. Modern debris and the "Other" category are the next two largest groups, representing 18.6% and 8.9% to the assemblage, respectively. The ceramic group contributes 5.5% of the cultural material identified at the McCaa site, and food related artifacts represent only 3.3% of the assemblage.

As evident from Table 1, very few artifacts excavated at the McCaa site have diagnostic potential beyond suggesting site type and a fairly wide date range from the middle of the 19th Century to the late 20th Century. Indeed, the ceramic group makes up only 5.5% of the assemblage, of which undecorated ironstone comprises over 72% of the category. The paucity of diagnostic artifacts is even more pronounced when considering the assemblage is partly comprised of surface artifacts collected for their diagnostic potential.

No intact archaeological features were identified at the site. Although the two geophysical anomalies in the southern section of the McCaa site may represent a demolished structure or trash pit, analysis of STPs A1 and A2 indicates the latter. The two-layer soil profile of STP A1 is fairly representative of the STPs excavated across the McCaa site. However, the stratigraphy of STP A2 includes a black loam layer with ash and miscellaneous burnt material between a dark grayish-brown silt loam surface layer and brown silt loam subsoil. The black loam layer in STP A2 also contained fragments of burnt bone, a clay pipe stem, ceramics, cut nails, brick, and a screw. The ash, burnt bone, and variety of artifacts suggest a trash pit in which refuse was burned. Most of the artifacts excavated from the burn layer in STP A2 date to the first half of the 19th Century. However, the inclusion of a Phillips head screw and a green decal ceramic fragment, both of which date to the 1930s, indicate disturbance in the burn layer impacting the integrity of the deposit.

Intra-site spatial patterning is limited to the clustering of architectural artifacts at the locations of the demolished buildings, while the majority of the domestic artifacts were located in what was the front yard area of the house. However, any stratified deposits that may have been present at the site have been eliminated after the building foundations were removed and the entire area was plowed, fitted, and planted in corn prior to the Phase IB field investigation. Based on the locations of the MDSs and the distribution of historic artifacts identified during the Phase IB field investigation, the horizontal dimensions of the site measure approximately 350 x 250 feet (107 x 76 meters), for an area of 2 acres (0.8 hectares). The maximum depth to subsoil was 26 inches (66 cm) below grade.

Multiple episodes of building construction and demolition have occurred at the McCaa site. The original house, built in the first half of the 19th Century, was replaced with a new house in 1927. A new barn was constructed in 1957, presumably replacing an older barn. And, a garage and two silos were built in 1968. All buildings and structures were demolished between 1994 and 2002. From 2002 to 2020, agricultural activities largely avoided the area of the McCaa site. Between October 2020 and February 2021, the remaining building foundations were removed, and the entire area of the McCaa site has since been plowed, fitted, and planted.

Proposed development of the Great Lakes Cheese Manufacturing Facility will further disturb the McCaa site. With poor archaeological integrity, paucity of diagnostic artifacts, and lack of intact archaeological features, the McCaa site does not meet National Register criteria. Therefore, DACRM does not recommend avoidance measures or a Phase II site evaluation. DACRM will be the repository for the historic artifacts and project records.

ATWATER FARMSTEAD SITE (DACRM SITE ID: CAT H002)

The Atwater site consists of a concentration of historic artifacts and modern debris at the demolished map-documented location of the Atwater farmstead in the Town of Franklinville, Cattaraugus County, New York. The coordinates for the center of the site are 42.349762, -78.452714. In 1919, Charles and Hattie Atwater purchased the property from Sabra C. Brooks, and a house is first indicated at the site by 1924 (Figure 7 – Phase IA report). Although not indicated on the 1924 topographic map, it is probable that an outbuilding was also built around the same time as the house. The property remained in the Atwater family until 1992. Between 1992 and 1995, several transactions occurred that listed John and Marion Clark, Frederick and Judith Warner, Ralph Alloco, Richard and Eunice Neuman, Regina Hill, and Lancaster Stone Products Corp. as owners of the property (Attachment B: 7 – Phase IA Report). All buildings and structures at the Atwater site were demolished between 1994 and 2002.

During the field investigation, 23 STPs were excavated and an intensive surface survey was conducted at the Atwater site. Stratigraphic contexts observed from the STPs were comprised of dark brown to dark grayish-brown silt loam, sand loam, to gravel loam topsoil that averaged 8.8 inches (22.4 cm) in depth above brown, grayish-brown, strong brown, to yellowish-brown sand loam, silt loam, silty clay, to silty clay loam subsoil. Several rocks were also encountered. Soils were fairly consistent with the representative profile of the mapped soil unit.

A total of 226 fragments of modern debris and 539 historic artifacts were identified as a result of shovel testing and intensive surface survey at the Atwater site. Most of the cultural material dates from the early 20th Century through the end of the 20th Century. Table 2 lists the artifact groups and frequencies at the Atwater site.

Table 2. Artifact Groups excavated at the Atwater Farmstead Site.

Ceramic	Food Related	Architectural	Other	Modern Debris
45 ironstone 3 stoneware 2 earthenware	37 bottle glass	151 concrete 141 brick 63 flat glass 3 metal pipe 1 cuprous metal pipe 1 wire nail	62 coal 10 clinkers 9 drain tile 4 misc glass 2 sheet metal 1 metal screen 1 metal cap 1 metal hay hook 1 porcelain doll face 1 ceramic insulator	129 misc plastic 6 bottle glass 3 misc glass 1 metal kitchen knife 2 wire nail 1 plastic coat conduit 18 asphalt shingle 9 aluminum can 7 cloth/fabric 7 sanitary ceramic 6 foam 4 styrofoam 8 rubber 5 tar paper 3 aluminum foil 2 aluminum can tab 2 golf balls 2 ceramic tile 2 nylon rope 2 bone 7 misc modern
50 total (6.5%)	**37 total (4.8%)**	**360 total (47.1%)**	**92 total (12%)**	**226 total (29.5%)**

ATWATER FARMSTEAD SITE (continued)

Over 47% of the artifacts identified at the Atwater site consist of architectural artifacts, with concrete and brick contributing approximately 81% to the group. Modern debris and the "Other" category are the next two largest groups, representing 29.5% and 12% to the assemblage, respectively. The ceramic group contributes 6.5% of the cultural material identified at the Atwater site. Finally, the food related category represents 4.8% of the assemblage.

As evident from Table 2, very few artifacts excavated at the Atwater site have diagnostic potential beyond suggesting site type and a fairly wide date range from the early 20th Century to the late 20th Century. While ceramics can be among the most diagnostic artifact groups, undecorated ironstone comprises 90% of the category. Similarly, the food related group is entirely populated by fragments of bottle glass with few distinctive markings. The paucity of diagnostic artifacts is even more pronounced when considering the assemblage is partly comprised of surface artifacts collected for their diagnostic potential.

No intact archaeological features were identified at the Atwater site. Intra-site spatial patterning is limited to the clustering of architectural artifacts at the locations of the demolished buildings, while the majority of the domestic artifacts were located in what was the front yard area of the house. However, any stratified deposits that may have been present at the site have been eliminated after the building foundations were removed and the entire area was plowed, fitted, and planted in corn prior to the Phase IB field investigation. Based on the location of the MDSs and the distribution of historic artifacts identified during the Phase IB field investigation, the horizontal dimensions of the site measure approximately 230 x 250 feet (70 x 76 meters), for an area of 1.3 acres (0.5 hectares). The maximum depth to subsoil was 11 inches (28 cm) below grade.

Demolition of the MDSs between 1994 and 2002 likely impacted the archaeological integrity of the site. While agricultural activities had initially avoided the area from 2002 to 2020, remnants of the building foundations were subsequently removed between October 2020 and February 2021. During the removal of the building foundations, trees were also grubbed to avoid potential damage to tilling equipment. This latest episode of prior ground disturbance has negatively impacted the archaeological integrity of the Atwater site.

Proposed development of the Great Lakes Cheese Manufacturing Facility will further disturb the Atwater site. With poor archaeological integrity, dearth of diagnostic artifacts, and lack of intact archaeological features, the Atwater site does not meet National Register criteria. Therefore, DACRM does not recommend avoidance measures or a Phase II site evaluation. DACRM will be the repository for the historic artifacts and project records.

SUMMARY, CONCLUSION, AND RECOMMENDATIONS

SUMMARY

Great Lakes Cheese Corporation is proposing the construction of a cheese manufacturing facility along NYS Route 16/98 in the Towns of Farmersville and Franklinville, Cattaraugus County, New York. The purpose of this investigation was to determine whether any cultural resources would be negatively impacted by the project. This was accomplished through Phase IB field investigation in the form of systematic surface survey and shovel testing.

Based on the recommendations presented in the Phase IA Background Research and Sensitivity Assessment report, a total of 169 STPs were excavated and 104 acres (42.1 hectares) were systematically surface surveyed. As a result, one Indigenous site and two historic period farmstead sites were identified. The Schwab Indigenous site consists of stray finds distributed across four loci. The McCaa Farmstead Site and the Atwater Farmstead Site consist of concentrations of historic artifacts and modern debris at demolished map-documented structure locations. Excavation of radial STPs and intensive surface surveys at all four Indigenous artifact locations failed to produce additional Indigenous cultural material. The historic period farmstead sites lack archaeological integrity and have poor research potential.

To determine the presence of the Tingue Farm Cemetery, Dr. T.J. Horsley performed a geophysical investigation consisting of ground-penetrating radar (GPR). As a result, eight potential burial shafts and six tentative burial shafts were identified. The potential burial shafts correspond to the historically documented location of the Tingue Farm Cemetery along the southern boundary of Lot 33 between the McCaa and Atwater farmsteads (Horsley 2021). Since the potential burials were at or just below the plowzone, Dr. Thomas Amorosi analyzed the faunal remains that were collected in the vicinity of the potential burials during the Phase IB field investigation. No human remains were identified (Attachment E).

CONCLUSION

Proposed development within the APE will impact the Schwab Indigenous Site, the McCaa Farmstead Site, and the Atwater Farmstead Site. Due to the lack of further research potential for the Indigenous site and the lack of archaeological integrity for the historic period sites, none of the sites meet National Register criteria. Outside the potential location of the Tingue Farm Cemetery identified during the geophysical investigation, proposed development within the APE will have no impact upon cultural resources in or eligible for inclusion in the State or National Registers of Historic Places.

RECOMMENDATIONS

Deuel Archaeology & CRM recommends continued consultation with the NYSOPRHP to determine an appropriate avoidance plan or mitigation measures for the potential burials. No further archaeological investigation is recommended for the Schwab Indigenous Site, the McCaa Farmstead Site, and the Atwater Farmstead Site. If the scope of the project is modified or expanded beyond the limits surveyed during this investigation, consultation with the NYSOPRHP is also recommended.

Bibliography

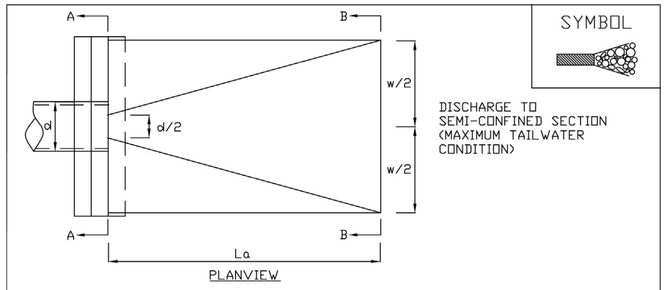
Dennis Group
2021 *Site Layout Plan*. Springfield, MA.

Horsley, T.J.
2021 *Proposed Great Lakes Cheese Manufacturing Facility, Town of Farmersville, Town of Franklinville, Cattaraugus County, New York: Report on Geophysical Survey, September 23-26, 2021.* DeKalb, IL.

United States Geological Survey (USGS)
1963 *Franklinville, New York 7.5' Topographic Quadrangle*.

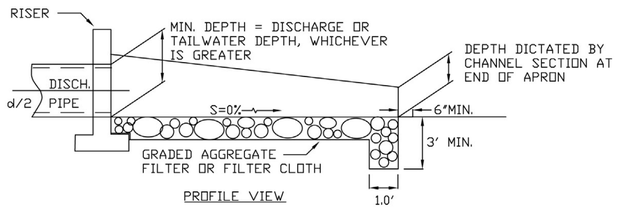
ATTACHMENT A

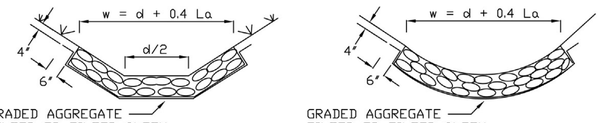
Project Map



SYMBOL

DISCHARGE TO SEMI-CONFINED SECTION (MAXIMUM TAILWATER CONDITION)





NOTE:
SEE RIPRAP STANDARDS AND SPECIFICATIONS MAXIMUM TAILWATER CONDITIONS

ADAPTED FROM DETAILS PROVIDED BY: USDA – NRCS, NEW YORK STATE DEPARTMENT OF TRANSPORTATION, NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION, NEW YORK STATE SOIL & WATER CONSERVATION COMMITTEE

RIPRAP OUTLET PROTECTION EXAMPLE

NYSDEC DETAIL SHOWING RIPRAP OUTLET PROTECTION

TRUE NORTH

LEMKE 40.001-3-2

LEMKE 40.001-3-3

SPRAGUE 40.001-3-6.4

SPRAGUE 40.001-3-6.1

SPRAGUE 40.001-3-6.3

WAGNER 40.001-3-1

ISCHUA VALLEY COUNTRY CLUB

WWT 400' x 400'

WWT DISCHARGE

WAGNER 40.001-3-24.7

NYSDOT 40.001-3-23

100-Yr Floodplain

TRAILER DROP LOT

40.001-3-26

40.001-3-25

40.001-3-24.1

Ischua Creek

NY-16/98

40.001-3-24.2

40.001-3-24.9

40.001-3-24.10

40.001-3-24.8

40.001-3-24.11

SMITH 40.001-3-24.3

SMITH 40.003-1-12.2

40.003-1-12.1

FIVE PARCELS IN FARMERSVILLE TO BE MERGED. TOTAL AREA = 104.48 ACRES ±

PROPOSED BUILDING

40.001-3-7

Town of Farmersville

Town of Franklinville

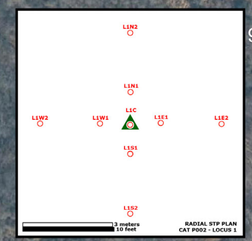
40.003-2-1

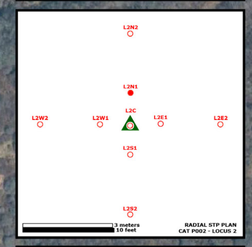
ELEC SUB.

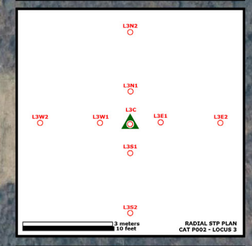
Property Boundary

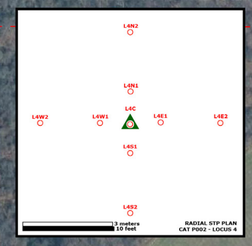
REMAINDER OF PARCEL 40.001-3-7

9.93 ACRES









AREA OF POTENTIAL EFFECT (APE)
NEGATIVE SHOVEL TEST PIT (STP)
POSITIVE STP (MODERN)
POSITIVE STP (HISTORIC)
POSITIVE STP (INDIGENOUS)
INDIGENOUS ARTIFACT LOCATION
PHOTOGRAPH LOCATION AND ANGLE
PRIOR GROUND DISTURBANCE
SURFACE SURVEY
HISTORIC ARCHAEOLOGICAL SITES
POTENTIAL CEMETERY WITH BUFFER

60 meters
200 feet

ATTACHMENT A: 1
Project Map (DACRM 2021). From *Site Layout Plan* (Dennis Group 2021).

ATTACHMENT B

Photographs

Photo 1. Facing south along the northern boundary of the APE showing general field conditions and field methodology. Random STPs were excavated in the prepared field to assess underlying soil characteristics and the average depth of the plowzone. Soil was screened through quarter-inch hardware cloth.

Photo 2. Facing north along the southern boundary of the APE showing field conditions and field methodology.

Photo 3. Facing west on the east side of the concrete pad showing field conditions and field methodology. STPs were excavated at 25-foot (7.5-meter) intervals around the concrete pad. The remainder of the APE that could not be prepared for a systematic surface survey was shovel tested at 50-foot (15-meter) intervals.

Photo 4. Facing southeast along NYS Route 16/98 showing field conditions, field methodology, and the commercial building to be demolished.

Photo 5. Facing east adjacent to Ischua Creek showing field conditions and field methodology. Due to the presence of alluvial soils, two STPs were excavated to a depth of 1 meter. No soils with the potential for deeply buried cultural deposits were identified.

Photo 6. Facing southwest near the northeast corner of the McCaa Farmstead Site showing field conditions and field methodology. STPs were excavated at 50-foot (15-meter) intervals across the site. An intensive surface survey was also conducted for the site (see Photo 16).

Photo 7. Facing east-northeast at the southwest corner of the McCaa Farmstead Site showing field conditions and field methodology.

Photo 8. Facing east-southeast along NYS Route 16/98 showing field conditions and field methodology. An STP was excavated at the location of two historic archaeological anomalies identified during the geophysical survey to determine the presence of archaeological features. Following excavation, the southern anomaly is interpreted to be a trash pit where household refuse was burned.

Photo 9. Facing southeast near the northwest corner of the Atwater Farmstead Site showing field conditions and field methodology. STPs were excavated at 50-foot (15-meter) intervals across the site. An intensive surface survey was also conducted for the site (see Photo 19).

Photo 10. Facing northwest at the southeast corner of the Atwater Farmstead Site showing field conditions and field methodology.

Photo 11. Facing north along the southern boundary of Field A showing field conditions and field methodology. After the fields were adequately prepared and subjected to a steady rainfall, a systematic surface survey was conducted.

Photo 12. Facing west along the eastern boundary of Field B showing field conditions and field methodology. Surface visibility ranged from 75-90%.

Photo 13. Facing east along the western boundary of Field B showing field conditions and field methodology. Field technicians walked the fields aligned in transects spaced 6 feet (1.8 meters) apart.

Photo 14. Facing west along the eastern boundary of Field B showing field conditions and field methodology. The end of each transect was flagged, and successive transects were walked until the fields were systematically surveyed.

Photo 15. Facing northeast along NYS Route 16/98 showing demolition debris from the McCaa Farmstead Site. According to Jason Schwab, the current landowner, the foundations of the buildings were removed with an excavator to avoid potential damage to tilling equipment.

Photo 16. Facing west along the eastern boundary of the McCaa Farmstead Site showing field conditions and field methodology. An intensive surface survey was conducted within the limits of the McCaa Farmstead Site. A representative sample of artifacts was collected for analysis.

Photo 17. Facing east along the western boundary of Field B showing field conditions and field methodology.

Photo 18. Facing west along the eastern boundary of Field C showing field conditions and field methodology.

Photo 19. Facing east along the western boundary of the Atwater Farmstead Site showing field conditions and field methodology. An intensive surface survey was conducted within the limits of the Atwater Farmstead Site. A representative sample of artifacts was collected for analysis.

Photo 20. Facing east along the western boundary of Field C showing field conditions and field methodology.

Photo 21. Facing east along the western boundary of Field B showing field conditions and field methodology. Radial STPs were excavated at 1-meter and 3-meter intervals around a stray Indigenous artifact identified at the center of the flags. No additional Indigenous artifacts, features, or fire-cracked rock were excavated.

Photo 22. Facing northwest in Field B showing field conditions and field methodology. Radial STPs were excavated at 1-meter and 3-meter intervals around a stray Indigenous artifact identified at the center of the flags. No additional Indigenous artifacts, features, or fire-cracked rock were excavated.

Photo 23. Facing west-southwest east along the eastern boundary of Field B showing field conditions and field methodology. Radial STPs were excavated at 1-meter and 3-meter intervals around a stray Indigenous artifact identified at the center of the flags. No additional Indigenous artifacts, features, or fire-cracked rock were excavated.

Photo 24. Facing west along the eastern boundary of Field C showing field conditions and field methodology. Radial STPs were excavated at 1-meter and 3-meter intervals around a stray Indigenous artifact identified at the center of the flags. No additional Indigenous artifacts, features, or fire-cracked rock were excavated.

ATTACHMENT C

Shovel Test Results

SHOVEL TEST KEY

Shade: Lt – Light, Dk – Dark, St – Strong, V – Very,
Color: Brn – Brown, Blk – Black, Gr –Gray, DkGBrn – Gray Brown, RBrn – Red Brown, YBrn – Yellow Brown
Soils: Si – Silt, Sa – Sand, Cl – Clay, Lo – Loam
Other: / - Mottled, Grl – Gravel, Chan – Channery, Cbs – Cobbles, Pbs – Pebbles, Fn – Fine, Rts – Roots, Sat – Saturated, Wsi – Water Seeping In, PGD – Prior Ground Disturbance

STP#	Depth cm (inches)	Soil Description	Artifact Summary	Comments
R1	0-28 (0-11)	DkGBrn SiClLo	Golf ball	
	28-38 (11-15)	GBrn SiLo		
R2	0-23 (0-9)	DkGBrn SiClLo		
	23-33 (9-13)	GBrn SiLo		
R3	0-25 (0-10)	DkGBrn SiClLo		
	25-36 (10-14)	GBRn/PlBrn SaLo		
R4	0-28 (0-11)	DkGBrn SiClLo		
	28-38 (11-15)	YBrn/StBrn SaLo		
R5	0-20 (0-8)	DkGBrn SaLo		
	20-30 (8-12)	Brn SaLo		
R6	0-25 (0-10)	DkGBrn SaLo		
	25-36 (10-14)	Brn SaLo		
R7	0-25 (0-10)	DkGBrn SiClLo		
	25-36 (10-14)	GBrn SiLo		
R8	0-28 (0-11)	DkGBrn SiClLo		
	28-41 (11-16)	GBrn SiLo		
R9	0-30 (0-12)	DkGBrn SiLo		Deep STP, Saturated
	30-51 (12-20)	YBrn SiLo		Saturated
	51-56+ (20-22+)	Brn SiCl		Reached water table
R10	0-20 (0-8)	DkGBrn SiClLo		
	20-30 (8-12)	Brn ClLo		
1.1	0-20 (0-8)	DkGBrn GrlLo	Plastic	McCaa Site
	20-30 (8-12)	Brn GrlLo		
1.2	0-25 (0-10)	DkGBrn GrlSiLo		
	25-36 (10-14)	Brn SiGrl		Rks
1.3	0-25 (0-10)	DkGBrn SiLo		Rks
	25-36 (10-14)	Brn SiLo		Rks
2.1	0-25 (0-10)	DkGBrn SiGrlLo	Concrete	
	25-36 (10-14)	Brn SiCl		Rks
2.2	0-10 (0-4)	GBrn Grl	Concrete	Rks
	10+ (4+)	Gravel impasse		
2.3	0-23 (0-9)	DkGBrn GrlLo	Concrete	
	23-33 (9-13)	Gr GrlLo		
3.1	0-23 (0-9)	DkGBrn SaLo	Glass, Plastic	
	23-36 (9-14)	Brn SaLo		
3.2	0-20 (0-8)	DkGBrn Lo	Glass	
	20-30 (8-12)	Brn Lo		
3.3	0-20 (0-8)	DkGBrn GrlLo	Concrete	
	20-33 (8-13)	Brn GrlLo		
3.4	0-28 (0-11)	DkGBrn GrlLo	Concrete, Metal	Rks
	28-38 (11-15)	GBrn Grl		Rks
3.5	0-33 (0-13)	DkGBrn GrlLo	Plastic, Concrete	Rks
	33-43 (13-17)	Brn GrlLo		Rks
3.6	0-28 (0-11)	DkGBrn SiGrlLo	See Artifact Catalog	
	28-41 (11-16)	Brn SiCl		
3.7	0-25 (0-10)	DkGBrn GrlLo	Aluminum, Concrete	Rks
	25-36 (10-14)	Brn GrlLo		
4.1	0-25 (0-10)	DkGBrn SaLo		
	25-36 (10-14)	Brn SaLo		Rks
4.2	0-15 (0-6)	DkGBrn SiLo		Compact
	15-25 (6-10)	Brn SiLo		
4.3	0-20 (0-8)	DkGBrn GrlLo	Concrete	Rks
	20-30 (8-12)	Brn GrlLo		Rks
4.4	0-23 (0-9)	DkBrn GrlLo	Plastic	
	23-38 (9-15)	GBrn Grl		
4.5	0-20 (0-8)	DkGBrn GrlLo	Concrete	
	20-30 (8-12)	Brn GrlLo		
4.6	0-25 (0-10)	DkGBrn SaGrlLo	Concrete	
	25-36 (10-14)	Brn SiLo		
4.7	0-25 (0-10)	DkGBrn GrlLo	Concrete	
	25-36 (10-14)	Gr Grl		

STP#	Depth cm (inches)	Soil Description	Artifact Summary	Comments
5.1	0-20 (0-8)	DkGBrn Lo	Ceramic	
	20-30 (8-12)	Brn GrlLo		
5.2	0-18 (0-7)	DkGBrn GrlLo	Plastic	
	18-28 (7-11)	Brn Lo		Rks
5.3	0-20 (0-8)	DkGBrn GrlLo	Concrete	
	20-30 (8-12)	Brn GrlLo		
5.4	0-20 (0-8)	DkGBrn SiGrlLo		
	20-30 (8-12)	Brn GrlLo		
5.5	0-18 (0-7)	DkGBrn SiGrlLo	Aluminum	
	18-28 (7-11)	Brn GrlLo		
5.6	0-23 (0-9)	DkGBrn SiGrlLo	See Artifact Catalog	
	23-33 (9-13)	GBrn GrlLo		
5.7	0-25 (0-10)	DkBrn SaGrl		
	25-36 (10-14)	Brn SiLo		
6.1	0-28 (0-11)	DkGBrn Lo	Plastic	
	28-38 (11-15)	GBrn GrlLo		
6.2	0-18 (0-7)	DkGBrn GrlLo	Asphalt, Plastic	
	18-28 (7-11)	GBrn Grl		
6.3	0-23 (0-9)	DkGBrn GrlLo	Glass	
	23-33 (9-13)	Brn Lo		
6.4	0-23 (0-9)	DkGBrn GrlLo	See Artifact Catalog	
	23-33 (9-13)	Brn Lo		Rks
6.5	0-20 (0-8)	DkGBrn GrlLo		
	20-33 (8-13)	Brn GrlLo		
6.6	0-25 (0-10)	DkGBrn GrlLo	Concrete	
	25-38 (10-15)	Brn GrlLo		
6.7	0-23 (0-9)	DkGBrn GrlLo		
	23-33 (9-13)	Brn Lo		
A1	0-30 (0-12)	DkGBrn SiLo	Metal, brick, ceramic	Rks, GPR Anomaly 1
	30-41 (12-16)	Brn SiLo		Compact, Rks
A2	0-46 (0-18)	DkGBrn SiLo	See Artifact Catalog	Rks, GPR Anomaly 2
	46-66 (18-26)	Blk Lo	See Artifact Catalog	Ash
	66-76 (26-30)	Brn SiLo		Rks
7.1	0-25 (0-10)	DkGBrn SiLo	Glass	Atwater Site
	25-36 (10-14)	Brn SiLo		
7.2	0-20 (0-8)	DkGBrn SiLo		
	20-30 (8-12)	Brn SiLo		
7.3	0-28 (0-11)	DkBrn SiLo		
	28-38 (11-15)	Brn SiLo		
7.4	0-25 (0-10)	DkGBrn SiLo	Metal	Grl
	25-36 (10-14)	StBrn SiLo		
7.5	0-23 (0-9)	DkGBrn SiLo		Rks
	23-33 (9-13)	StBrn SiLo		
7.6	0-30 (0-12)	DkGBrn SiLo		Rts
	30-41 (12-16)	StBrn SiLo		
7.7	0-20 (0-8)	DkGBrn SiLo		
	20-30 (8-12)	YBrn SiClLo		
8.1	0-28 (0-11)	DkBrn SaLo		Rks
	28-38 (11-15)	Brn SaLo		Rks
8.2	0-13 (0-5)	DkGBrn GrlLo		
	13-25 (5-10)	Brn SiCl		Rks
8.3	0-15 (0-6)	DkGBrn GrlLo	Coal	Rks
	15-25 (6-10)	Brn SiCl		Rks
8.4	0-25 (0-10)	DkGBrn SiLo	Metal, Glass	
	25-36 (10-14)	GBrn SiLo		Rks
9.1	0-23 (0-9)	DkGBrn SiLo	Glass	Rks
	23-33 (9-13)	Brn SiLo		Rks
9.2	0-15 (0-6)	DkGBrn SiLo		Rks
	15-25 (6-10)	Brn SaLo		Rks
9.3	0-23 (0-9)	DkGBrn SiLo	Glass, Wood	Rks
	23-33 (9-13)	Brn SaLo		

STP#	Depth cm (inches)	Soil Description	Artifact Summary	Comments
9.4	0-20 (0-8)	DkGBrn SiLo	Brick	Rks
	20-30 (8-12)	Brn SiCl		Rks
10.1	0-23 (0-9)	DkGBrn SaLo	Plastic	Rks
	23-33 (9-13)	StBrn SaLo		Rks
10.2	0-20 (0-8)	DkGBrn SiLo		Rks
	20-30 (8-12)	Brn SiLo		Rts
10.3	0-25 (0-10)	DkGBrn SiLo	Coal, Brick, Glass	Rks
	25-36 (10-14)	Brn SaLo		Rks
10.4	0-20 (0-8)	DkGBrn SiLo	Glass, Brick	
	20-30 (8-12)	GBrn SaLo		
11.1	0-20 (0-8)	DkGBrn SaLo	Coal	
	20-30 (8-12)	StBrn SaLo		
11.2	0-23 (0-9)	DkGBrn SaLo	See Artifact Catalog	
	23-33 (9-13)	Brn SaLo		
11.3	0-20 (0-8)	DkGBrn SaLo	See Artifact Catalog	
	20-30 (8-12)	Brn SaLo		
11.4	0-25 (0-10)	DkGBrn SaLo	See Artifact Catalog	
	25-36 (10-14)	Brn SiLo		
12.1	0-25 (0-10)	DkGBrn SaGrlLo		Rks, Rts, North of DOT Facility
	25-36 (10-14)	GBrn SaGrl		
12.2	0-10 (0-4)	Gr Grl, Fill		Rks
	10-20 (4-8)	Gravel impasse		
12.3	0-15 (0-6)	DkGBrn SiGrlLo		Rks, Rts
	15-25 (6-10)	GBrn SaGrl		
12.4	0-18 (0-7)	DkGBrn SiGrlLo		Rks
	18-28 (7-11)	GBrn SaGrl		Rks
12.5	0-15 (0-6)	DkGBrn GrlLo	Glass	Rks
	15-25 (6-10)	GBrn GrlSa		
12.6	0-13 (0-5)	GBrn Grl, Fill		Pea stone
	13-25 (5-10)	GBrn GrlSa		
12.7	0-10 (0-4)	GBrn Grl, Fill		Pea stone
	10-20 (4-8)	GBrn GrlSa		
12.8	0-5 (0-2)	GBrn Grl, Fill		25-ft (7.5-m) interval
	5+ (2+)	Gravel impasse		
12.9	0-25 (0-10)	DkBrn GrlLo	See Artifact Catalog	Rks, Across Road
	25-36 (10-14)	Brn SiGrl		Rks
12.10	0-38 (0-15)	DkGBrn SiGrlLo		Rks
	38-48 (15-19)	Brn SiLo		Rks
12.11	0-36 (0-14)	DkGBrn SiLo		Rks
	36-46 (14-18)	Brn SiLo		Rks
12.12	0-38 (0-15)	DkGBrn SiLo		Rks
	38-48 (15-19)	Brn SiLo		Rks
12.13	0-30 (0-12)	Gr Grl, Fill	Asphalt, Glass	
	30-41 (12-16)	Brn SiLo		Rks
12.14	0-20 (0-8)	Gr Grl, Fill		
	20-30 (8-12)	Brn SiLo		Rks
12.15	0-30 (0-12)	DkGBrn SiLo	Metal, Glass	Deep STP
	30-61 (12-24)	Gr Sa		Grl
	61-99 (24-39)	StBrn CoSaGrl		Rks
12.16	0-36 (0-14)	DkGBrn SiLo		Rks
	36-46 (14-18)	Brn SiLo		Grl
13.1	0-15 (0-6)	DkBrn SaGrl		Rks
	15-25 (6-10)	GBrn SaGrl		Rks
13.2	0-15 (0-6)	DkGBrn SiGrlLo		Rks
	15-25 (6-10)	GBrn SaGrlLo		
13.3	0-18 (0-7)	DkGBrn SiLo		Rks
	18-28 (7-11)	GBrn SaLo		Rks
13.4	0-18 (0-7)	DkGBrn SiGrlLo		Rks
	18-28 (7-11)	GBrn SaGrl		
13.5	0-10 (0-4)	GBrn Grl, Fill		Pea stone
	10-20 (4-8)	GBrn GrlSa		

STP#	Depth cm (inches)	Soil Description	Artifact Summary	Comments
13.6	0-13 (0-5)	DkGBrn SiGrlLo		Rks
	13-23 (5-9)	Gr Grl		
13.7	0-15 (0-6)	DkBrn SaLo		Rks
	15-25 (6-10)	GBrn GrlSa		Rks
13.8	0-30 (0-12)	DkGBrn SiLo		Rks, 25-ft (7.5-m) interval
	30-41 (12-16)	Brn SiLo		Rks
14.1	0-36 (0-14)	DkBrn SaLo		Rks
	36-46 (14-18)	Brn SaGrl		Rks
14.2	0-30 (0-12)	DkBrn SaLo		Rks
	30-41 (12-16)	Brn SaGrl		Rks
14.3	0-33 (0-13)	DkGBrn SaGrlLo		Rks
	33-46 (13-18)	Brn SaGrl		Rks
14.4	0-28 (0-11)	DkBrn SaGrlLo		Rks
	28-38 (11-15)	Brn SaGrl		Rks
14.5	0-20 (0-8)	GBrn Grl, Fill		PGD, Parking area
	20-30 (8-12)	Brn SiGrl		Rks
14.6	0-28 (0-11)	DkBrn SiGrlLo		Rks
	28-41 (11-16)	Brn SiGrl		Rks
15.1	0-30 (0-12)	DkBrn SaLo		Grl, Rks
	30-41 (12-16)	Brn SaLo		Grl, Rks
15.2	0-23 (0-9)	DkBrn SaLo		
	23-33 (9-13)	Brn SaLo		Rks
15.3	0-18 (0-7)	DkGr CoSa	Metal	
	18-30 (7-12)	LtGr CoSa		
15.4	0-25 (0-10)	DkGBrn SaGrlLo	Metal, Brick	
	25-36 (10-14)	GBrn GrlSa		
15.5	0-20 (0-8)	DkGBrn SiGrlLo		PGD, Parking area
	20-30 (8-12)	Brn SiGrl		Rks
15.6	0-20 (0-8)	DkGBrn SiLo		Rks
	20-30 (8-12)	Brn GrlSa		
16.1	0-10 (0-4)	Gr Grl, Fill		
	10+ (4+)	Gravel impasse		
16.2	0-30 (0-12)	DkBrn SaLo		Rks
	30-41 (12-16)	Brn SaLo		Rks
16.3	0-30 (0-12)	DkGBrn SaLo		
	30-41 (12-16)	PlBrn SaLo		Rks
16.4	0-23 (0-9)	DkBrn SaLo		
	23-33 (9-13)	Brn SaLo		Rks
16.5	0-20 (0-8)	DkGBrn CoSa		
	20-30 (8-12)	LtGr CoSa		
16.6	0-10 (0-4)	DkGBrn Grl, Fill		
	10+ (4+)	Gravel impasse		
16.7	0-13 (0-5)	DkGBrn Grl, Fill		
	13-25 (5-10)	Gr Grl		
17.1	0-23 (0-9)	DkGBrn SaLo		Rks
	23-33 (9-13)	Gr SaLo		
17.2	0-25 (0-10)	DkGBrn SaLo		Rks
	25-38 (10-15)	Brn SaLo		
17.3	0-23 (0-9)	DkGBrn SaLo		Rks
	23-33 (9-13)	Brn SaLo		Rks
17.4	0-15 (0-6)	DkBrn SaGrl		
	15-25 (6-10)	GBrn SaGrl		
17.5	0-8 (0-3)	DkGBrn Lo		
	8-20 (3-8)	Gr CoSa		
17.6	0-20 (0-8)	DkGBrn SaGrl	Metal	
	20-30 (8-12)	Brn SaGrl		
17.7	0-18 (0-7)	DkGBrn SaGrl		Rts
	18-28 (7-11)	GBrn SaGrl		
18.1	0-25 (0-10)	DkGBrn SaLo		Rks
	25-38 (10-15)	GBrn SaLo		Rks

STP#	Depth cm (inches)	Soil Description	Artifact Summary	Comments
18.2	0-28 (0-11)	DkGBrn SaLo		Rks
	28-38 (11-15)	Brn SaLo		
18.3	0-28 (0-11)	DkGBrn SiLo	Metal	Rks
	28-38 (11-15)	Brn GrlLo		
18.4	0-25 (0-10)	DkGBrn SiLo		Rks
	25-36 (10-14)	Brn SiLo		
18.5	0-13 (0-5)	DkGBrn SiLo		
	13-25 (5-10)	GBrn SaGrlLo		
18.6	0-23 (0-9)	DkGBrn SiLo		
	23-33 (9-13)	Brn SaLo		
18.7	0-25 (0-10)	DkGBrn SiGrlLo	Metal	
	25-36 (10-14)	GBrn SaGrlLo		
19.1	0-28 (0-11)	DkBrn SiGrlLo		25-ft (7.5-m) interval
	28-41 (11-16)	StBrn SiLo		
19.2	0-15 (0-6)	DkGBrn SaGrlLo		25-ft (7.5-m) interval
	15-25 (6-10)	PlBrn SaGrl		
19.3	0-15 (0-6)	DkGBrn SiGrlLo	Metal	25-ft (7.5-m) interval
	15-25 (6-10)	PlBrn SaGrl		
19.4	0-8 (0-3)	DkGBrn SaGrl		25-ft (7.5-m) interval
	8+ (3+)	Gravel impasse		
19.5	0-10 (0-4)	DkGBrn Grl, Fill		25-ft (7.5-m) interval
	10+ (4+)	Gravel impasse		
19.6	0-8 (0-3)	Gr Grl, Fill		25-ft (7.5-m) interval
	8+ (3+)	Gravel impasse		
19.7	0-15 (0-6)	Gr Grl, Fill		25-ft (7.5-m) interval
	15+ (6+)	Gravel impasse		
L1C	0-18 (0-7)	DkGBrn SiGrlLo		Rks, Radials at Locus 1
	18-28 (7-11)	Brn SaGrlLo		
L1N1	0-36 (0-14)	DkGBrn SiGrlLo		
	36-46 (14-18)	LtBrn SaGrlLo		Rks
L1N2	0-20 (0-8)	DkGBrn SiLo		Rks
	20-30 (8-12)	Brn SiLo		
L1E1	0-33 (0-13)	DkGBrn SiLo		Rks
	33-43 (13-17)	GBrn ClLo		
L1E2	0-23 (0-9)	DkGBrn SiLo		
	23-33 (9-13)	Brn SaGrlLo		
L1S1	0-25 (0-10)	DkGBrn SiGrlLo		Rks
	25-36 (10-14)	Brn SaGrlLo		
L1S2	0-30 (0-12)	DkGBrn SiLo		Rks
	30-41 (12-16)	Brn SaLo		
L1W1	0-28 (0-11)	DkGBrn SiLo		Rks
	28-38 (11-15)	Brn SiLo		
L1W2	0-30 (0-12)	DkGBrn SiLo		Rks
	30-41 (12-16)	Brn SiLo		
L2C	0-30 (0-12)	DkGBrn SiGrlLo		Radials at Locus 2
	30-41 (12-16)	Brn SaGrlLo		
L2N1	0-33 (0-13)	DkGBrn SiGrlLo	Glass	Rks
	33-43 (13-17)	Brn SaGrlLo		
L2N2	0-28 (0-11)	DkGBrn SiGrlLo		
	28-38 (11-15)	LtBrn SaLo		Rks
L2E1	0-25 (0-10)	DkGBrn SiGrlLo		
	25-36 (10-14)	Brn SaGrlLo		
L2E2	0-28 (0-11)	DkGBrn SiGrlLo		
	28-38 (11-15)	Brn SaGrlLo		
L2S1	0-28 (0-11)	DkGBrn SiGrlLo		
	28-38 (11-15)	Brn SaGrlLo		Rks
L2S2	0-30 (0-12)	DkGBrn SiGrlLo		
	30-43 (12-17)	Brn SaGrlLo		
L2W1	0-28 (0-11)	DkGBrn SiGrlLo		
	28-41 (11-16)	Brn SaGrlLo		

STP#	Depth cm (inches)	Soil Description	Artifact Summary	Comments
L2W2	0-30 (0-12)	DkGBrn SiGrlLo		Rks
	30-41 (12-16)	Brn SaGrlLo		
L3C	0-30 (0-12)	DkGBrn SiGrlLo		Radials at Locus 3
	30-41 (12-16)	Brn SaGrlLo		
L3N1	0-36 (0-14)	DkGBrn SiGrlLo		
	36-46 (14-18)	Brn SaGrlLo		
L3N2	0-25 (0-10)	DkGBrn SiGrlLo		
	25-36 (10-14)	Brn SaGrlLo		
L3E1	0-30 (0-12)	DkGBrn SiGrlLo		
	30-41 (12-16)	Brn SaGrlLo		
L3E1	0-28 (0-11)	DkGBrn SiGrlLo		
	28-41 (11-16)	Brn SaGrlLo		
L3S1	0-30 (0-12)	DkGBrn SiGrlLo		
	30-41 (12-16)	Brn SaGrlLo		
L3S2	0-33 (0-13)	DkGBrn SiGrlLo		
	33-43 (13-17)	Brn SaGrlLo		
L3W1	0-33 (0-13)	DkGBrn SiGrlLo		
	33-43 (13-17)	Brn SaGrlLo		
L3W2	0-30 (0-12)	DkGBrn SiGrlLo		Damp
	30-41 (12-16)	Brn SaGrlLo		
L4C	0-20 (0-8)	DkGr/Brn SiCl		Radials at Locus 4
	20-30 (8-12)	Gley/RBrn Cl		
L4N1	0-15 (0-6)	DkGr/Brn SiCl		
	15-30 (6-12)	Gley/RBrn Cl		
L4N2	0-25 (0-10)	DkGr/Brn SiCl		
	25-36 (10-14)	Gley/StBrn/RBrn/Gr Cl		
L4E1	0-28 (0-11)	VDkGBrn SiCl		
	28-38 (11-15)	LtGr/Gley/StBrn Cl		
L4E2	0-25 (0-10)	DkGBrn SiCl		
	25-36 (10-14)	Gr/Gley/StBrn Cl		
L4S1	0-25 (0-10)	VDkGr SiCl		
	25-36 (10-14)	Gr/Brn/Gley Cl		
L4S2	0-10 (0-4)	Gr/Brn SiClLo		
	10-25 (4-10)	StBrn/Gley Cl		
L4W1	0-20 (0-8)	DkGr SiCl		
	20-30 (8-12)	Glry/Gr SiCl		
L4W2	0-20 (0-8)	DkGr/Brn SiCl		
	20-30 (8-12)	Gley/RBrn Cl		

ATTACHMENT D

Artifact Catalog

STP#	Level	Depth cm (inches)	Description	Date Range	Count	Weight grams	Comments
R1	1	0-28 (0-11)	Golf ball	Modern	1		
1.1	1	0-20 (0-8)	Plastic frag	Modern	1		
2.1	1	0-25 (0-10)	Concrete frags	Historic	4		
2.2	1	0-10 (0-4)	Concrete frags	Historic	3		
2.3	1	0-23 (0-9)	Concrete frags	Historic	6		
3.1	1	0-23 (0-9)	Green bottle glass frags	Modern	2		Thin
	1	0-23 (0-9)	Plastic frag	Modern	1		
3.2	1	0-20 (0-8)	Amber bottle glass frag	Historic	1		Thin
3.3	1	0-20 (0-8)	Concrete frags	Historic	5		
3.4	1	0-28 (0-11)	Concrete frags	Historic	2		
	1	0-28 (0-11)	Unidentified metal frag	Historic	1		Rusted
3.5	1	0-33 (0-13)	Plastic frag	Modern	1		
	1	0-33 (0-13)	Concrete frags	Historic	3		
3.6	1	0-28 (0-11)	Plastic-coated conduit	Modern	1		
	1	0-28 (0-11)	Clear flat glass frags	Historic	2		
	1	0-28 (0-11)	Concrete frags	Historic	4		
3.7	1	0-25 (0-10)	Aluminum frags	Modern	6		
	1	0-25 (0-10)	Concrete frags	Historic	2		
4.3	1	0-20 (0-8)	Concrete frags	Historic	4		
4.4	1	0-23 (0-9)	Sheet plastic frag	Modern	1		
4.5	1	0-20 (0-8)	Concrete frags	Historic	3		
4.6	1	0-25 (0-10)	Concrete frags	Historic	10		
4.7	1	0-25 (0-10)	Concrete frags	Historic	2		
5.1	1	0-20 (0-8)	Ironstone ceramic frag	Historic	1		Undecorated
5.2	1	0-18 (0-7)	Plastic frag	Modern	1		
5.3	1	0-20 (0-8)	Concrete frag	Historic	1		
5.5	1	0-18 (0-7)	Aluminum frag	Modern	1		
5.6	1	0-23 (0-9)	Wire nail	Modern	1		Roofing nail
	1	0-23 (0-9)	Asphalt frags	Modern	3		
	1	0-23 (0-9)	Concrete frags	Historic	3		
	1	0-23 (0-9)	Aluminum siding frag	Modern	1		
6.1	1	0-28 (0-11)	Plastic frag	Modern	1		
6.2	1	0-18 (0-7)	Asphalt frags	Modern	2		
	1	0-18 (0-7)	Plastic frag	Modern	1		
6.3	1	0-23 (0-9)	Clear bottle glass frag	Modern	1		
6.4	1	0-23 (0-9)	Clear flat glass frag	Historic	1		
	1	0-23 (0-9)	Concrete frags	Historic	4		
	1	0-23 (0-9)	Plastic frag	Modern	1		
A1	1	0-30 (0-12)	Whiteware ceramic rim	Historic	1	1	Blue transfer
	1	0-30 (0-12)	Whiteware ceramic	Historic	1	2	Flow blue
	1	0-30 (0-12)	Ironstone ceramic	Historic	3	2	Undecorated
	1	0-30 (0-12)	Brick	Historic	1		Whole brick
	1	0-30 (0-12)	Cut nail	Historic	1	6	
A2	1	0-46 (0-18)	Ironstone ceramic	Historic	2	8	Undecorated
	1	0-46 (0-18)	Aqua flat glass	Historic	2	2	
	1	0-46 (0-18)	Brick frags	Historic	13		
	2	46-66 (18-26)	Ferrous metal screw	Historic	1	8	Phillips head
	2	46-66 (18-26)	Whiteware ceramic rim	Historic	1	2	Blue transfer, both sides
	2	46-66 (18-26)	Ironstone ceramic rim	Historic	1	17	Undecorated
	2	46-66 (18-26)	Ironstone ceramic frags	Historic	9	8	Undecorated
	2	46-66 (18-26)	Undifferentiated ceramic	Historic	1	3	Green flower decal
	2	46-66 (18-26)	Clay pipe stem	Historic	1	2	
	2	46-66 (18-26)	Cut nail	Historic	2	14	
	2	46-66 (18-26)	Cut nail frags	Historic	6	16	
	2	46-66 (18-26)	Brick	Historic	7		
	2	46-66 (18-26)	Burnt bone frags	Historic	5	3	
7.1	1	0-25 (0-10)	Clear bottle glass frag	Modern	1		
7.4	1	0-25 (0-10)	Wire nail	Modern	1		Finishing nail
8.3	1	0-15 (0-6)	Coal frag	Historic	1		

STP#	Level	Depth cm (inches)	Description	Date Range	Count	Weight grams	Comments
8.4	1	0-25 (0-10)	Wire nail	Historic	1		
	1	0-25 (0-10)	Clear bottle glass frag	Historic	1		
9.1	1	0-23 (0-9)	Glass stopper	Historic	1		
9.3	1	0-23 (0-9)	Clear bottle glass frag	Historic	1		
	1	0-23 (0-9)	Laminated wood frag	Modern	1		
9.4	1	0-20 (0-8)	Brick frag	Historic	1		
10.1	1	0-23 (0-9)	Plastic frag	Modern	1		
10.3	1	0-25 (0-10)	Coal frags	Historic	5		
	1	0-25 (0-10)	Brick frags	Historic	3		
	1	0-25 (0-10)	Clear flat glass frags	Historic	3		
10.4	1	0-20 (0-8)	Aqua flat glass frags	Historic	3		
	1	0-20 (0-8)	Brick frag	Historic	1		
11.1	1	0-20 (0-8)	Coal frag	Historic	1		
11.2	1	0-23 (0-9)	Asphalt shingle frags	Modern	4		
	1	0-23 (0-9)	Brick frags	Historic	3		
	1	0-23 (0-9)	Styrofoam frags	Modern	4		
	1	0-23 (0-9)	Plastic frags	Modern	4		
	1	0-23 (0-9)	Coal frag	Historic	1		
11.3	1	0-20 (0-8)	Brick frags	Historic	2		
	1	0-20 (0-8)	Clear flat glass frag	Historic	1		
	1	0-20 (0-8)	Asphalt shingle frags	Modern	12		
	1	0-20 (0-8)	Sanitary ceramic frag	Modern	1		
	1	0-20 (0-8)	Coal frag	Historic	1		
11.4	1	0-25 (0-10)	Coal frag	Historic	1		
	1	0-25 (0-10)	Clear flat glass frag	Historic	1		
	1	0-25 (0-10)	Plastic frag	Modern	1		
	1	0-25 (0-10)	Wire nail	Modern	1		Finishing nail
	1	0-25 (0-10)	Milled wood frag	Modern	1		
12.5	1	0-15 (0-6)	Clear flat glass frag	Modern	1		
12.9	1	0-25 (0-10)	Plastic frag	Modern	1		
	1	0-25 (0-10)	Coated metal wire	Modern	1		
	1	0-25 (0-10)	Styrofoam frag	Modern	1		
12.13	1	0-30 (0-12)	Asphalt frags	Modern	1		
	1	0-30 (0-12)	Clear flat glass frag	Historic	1		
12.15	1	0-30 (0-12)	Cut nail	Historic	1		
	1	0-30 (0-12)	Clear bottle glass frag	Historic	1		
15.3	1	0-18 (0-7)	Wire nail	Historic	1		
15.4	1	0-25 (0-10)	Wire nail	Historic	1		
	1	0-25 (0-10)	Brick frag	Historic	1		
17.6	1	0-20 (0-8)	Coated metal wire	Modern	1		
18.3	1	0-28 (0-11)	Galvanized screw	Modern	1		
18.7	1	0-25 (0-10)	Aluminum can	Modern	1		
19.3	1	0-15 (0-6)	Sheet metal frag	Modern	1		
L2N1	1	0-33 (0-13)	Clear bottle glass frags	Historic	2		

STP#	Level	Depth cm (inches)	Description	Date Range	Count	Weight grams	Comments
Field A	0	Surface survey	Clear bottle glass frags	Historic	7		
	0	Surface survey	Amber bottle glass frags	Historic	6		
	0	Surface survey	Aqua bottle glass frags	Historic	8		
	0	Surface survey	Blue bottle glass frag	Historic	1		
	0	Surface survey	Green bottle glass frags	Historic	2		
	0	Surface survey	Clear flat glass frags	Historic	6		
	0	Surface survey	Milk glass frags	Historic	4		
	0	Surface survey	Mirror glass frag	Historic	1		
	0	Surface survey	Sun-purpled glass frag	Historic	1		
	0	Surface survey	Melted glass frags	Historic	2		
	0	Surface survey	Brick	Historic	1		Whole brick
	0	Surface survey	Brick frags	Historic	3		
	0	Surface survey	Coal frags	Historic	2		
	0	Surface survey	Ironstone ceramic frags	Historic	17		Undecorated
	0	Surface survey	Stoneware crock frags	Historic	7		Albany slip
	0	Surface survey	Cut bone frag	Historic	1		Large mammal
	0	Surface survey	Concrete frags	Historic	5		
	0	Surface survey	Cut nail	Historic	1		
	0	Surface survey	Ferrous metal spike	Historic	1		
	0	Surface survey	Ferrous metal frag	Historic	1		Unidentified
	0	Surface survey	Ferrous metal pipe	Historic	1		
	0	Surface survey	Ferrous metal angle iron	Historic	1		
	0	Surface survey	Sheet metal frag	Historic	1		
	0	Surface survey	Horseshoe	Historic	1		
	0	Surface survey	Aluminum wrappers	Modern	3		
	0	Surface survey	Aluminum cans	Modern	5		
	0	Surface survey	Aluminum can frag	Modern	1		
	0	Surface survey	Aluminum foil frags	Modern	2		
	0	Surface survey	Plastic frags	Modern	45		
	0	Surface survey	Plastic cap	Modern	1		
	0	Surface survey	Plastic jug	Modern	1		
	0	Surface survey	Plastic bottle	Modern	1		
	0	Surface survey	Sheet plastic frags	Modern	2		
	0	Surface survey	Plastic-coated conduit	Modern	1		
	0	Surface survey	Plastic tubing	Modern	1		
	0	Surface survey	Sanitary ceramic frags	Modern	3		
	0	Surface survey	Deer antler	Modern	1		
	0	Surface survey	Shotgun shells	Modern	6		
	0	Surface survey	Shotgun shell waddings	Modern	10		
	0	Surface survey	Clay pigeons frags	Modern	21		
	0	Surface survey	Plastic comb	Modern	1		
	0	Surface survey	Plastic pen	Modern	1		
	0	Surface survey	Plastic plant pot	Modern	1		
	0	Surface survey	Crossbow bolt	Modern	1		
	0	Surface survey	Rubber ball	Modern	1		
	0	Surface survey	Rubber nipples	Modern	2		Dairy
	0	Surface survey	Styrofoam frags	Modern	26		
	0	Surface survey	Insulated wire	Modern	1		Romex
	0	Surface survey	Black electrical tape frags	Modern	10		
	0	Surface survey	Plastic hat brim	Modern	1		
	0	Surface survey	Rubber shoe sole	Modern	1		
	0	Surface survey	Cotton/fabric frag	Modern	1		
	0	Surface survey	Canvas trap frag	Modern	1		With metal grommet
	0	Surface survey	Golf balls	Modern	57		

STP#	Level	Depth cm (inches)	Description	Date Range	Count	Weight grams	Comments
Field B	0	Surface survey	Pre-form projectile point	Indigenous	1	9	Onondaga chert?
	0	Surface survey	Potential reduction flake	Indigenous	1	3	Onondaga chert, cortex
	0	Surface survey	Brewerton point	Indigenous	1	7	Corner-notched
	0	Surface survey	Clear bottle glass frags	Historic	11		
	0	Surface survey	Amber bottle glass frags	Historic	3		
	0	Surface survey	Aqua bottle glass frags	Historic	22		
	0	Surface survey	Blue bottle glass frag	Historic	1		Enameled
	0	Surface survey	Green bottle glass frags	Historic	4		
	0	Surface survey	Clear flat glass frags	Historic	10		
	0	Surface survey	Aqua flat glass frags	Historic	7		
	0	Surface survey	Clear bottle glass rim	Historic	1		
	0	Surface survey	Aqua bottle glass rim	Historic	1		
	0	Surface survey	Aqua bottle glass base	Historic	1		
	0	Surface survey	Aqua pannel glass frags	Historic	5		
	0	Surface survey	Milk glass frags	Historic	3		
	0	Surface survey	Sun-purpled glass frags	Historic	5		
	0	Surface survey	Brick	Historic	2		Whole
	0	Surface survey	Brick frags	Historic	28		
	0	Surface survey	Coal frags	Historic	4		
	0	Surface survey	Ironstone ceramic frags	Historic	19		Undecorated
	0	Surface survey	Stoneware crock frags	Historic	2		Albany slip
	0	Surface survey	Redware drain tile frags	Historic	18		
	0	Surface survey	Glazed stoneware frags	Historic	2		
	0	Surface survey	Ceramic insulator frags	Historic	21		
	0	Surface survey	Whiteware ceramic frag	Historic	1		Blue transfer
	0	Surface survey	Whiteware ceramic frags	Historic	7		Blue hatches with stripe
	0	Surface survey	Whiteware ceramic frag	Historic	1		Flow blue
	0	Surface survey	Cut bone frags	Historic	2		Large mammal
	0	Surface survey	Concrete frags	Historic	10		
	0	Surface survey	Ferrous metal S hook	Historic	1		
	0	Surface survey	Ferrous metal frag	Historic	10		Unidentified
	0	Surface survey	Metal plowshares	Historic	2		
	0	Surface survey	Sheet metal frag	Historic	1		
	0	Surface survey	Aluminum foil	Historic	1		Unidentified
	0	Surface survey	Clamshell frags	Historic	2		
	0	Surface survey	Ferrous metal pliers	Historic	1		
	0	Surface survey	Bricks and mortar	Historic	1		2x2 ft chunk
	0	Surface survey	Ferrous metal rods	Historic	4		Large
	0	Surface survey	Ferrous metal hoop	Historic	1		Barrel rim?
	0	Surface survey	Ferrous metal pipe	Historic	1		
	0	Surface survey	Slag	Historic	3		
	0	Surface survey	Cow bone frags	Modern	2		
	0	Surface survey	Small mammal skull	Modern	1		Racoon
	0	Surface survey	Small mammal bone	Modern	1		
	0	Surface survey	Plexiglass frags	Modern	2		
	0	Surface survey	Aluminum wrappers	Modern	3		
	0	Surface survey	Aluminum cans	Modern	5		
	0	Surface survey	Aluminum hub cap	Modern	1		International Harvester
	0	Surface survey	Plastic frags	Modern	36		
	0	Surface survey	Plastic caps	Modern	3		
	0	Surface survey	Plastic jugs	Modern	2		
	0	Surface survey	Plastic bottles	Modern	12		
	0	Surface survey	Sheet plastic frags	Modern	31		
	0	Surface survey	Plastic syringes	Modern	8		Agricultural
	0	Surface survey	Shotgun shells	Modern	12		
	0	Surface survey	Shotgun shell waddings	Modern	31		
	0	Surface survey	Rubber bushing	Modern	1		
	0	Surface survey	Rubber nipples	Modern	4		Dairy
	0	Surface survey	Styrofoam frags	Modern	27		
	0	Surface survey	Coated wire frags	Modern	4		Braided

STP#	Level	Depth cm (inches)	Description	Date Range	Count	Weight grams	Comments
Field B	0	Surface survey	Plastic lids	Modern	2		
	0	Surface survey	Canvas trap frag	Modern	1		
	0	Surface survey	Golf balls	Modern	14		
	0	Surface survey	Foam frags	Modern	3		
	0	Surface survey	Bubble wrap	Modern	1		
	0	Surface survey	Polyester bag wih zipper	Modern	1		
	0	Surface survey	Cloth/fabric frags	Modern	4		
	0	Surface survey	Mylar balloon frag	Modern	1		
	0	Surface survey	Rubber tube frags	Modern	3		
	0	Surface survey	Rubber tire	Modern	1		
	0	Surface survey	Garden hose frags	Modern	5		Green and black
	0	Surface survey	Plastic Skol container	Modern	1		
	0	Surface survey	Plastic nozzle	Modern	1		
	0	Surface survey	Asphalt frag	Modern	1		
	0	Surface survey	Plastic tarp frags	Modern	16		Blue and green
	0	Surface survey	Nylon baling twine frags	Modern	5		
	0	Surface survey	Plastic cow ear tags	Modern	2		#17 and #106
	0	Surface survey	Shoelace	Modern	1		
	0	Surface survey	Cloth gloves	Modern	4		
	0	Surface survey	Metal light assembly	Modern	1		With plastic LED light
	0	Surface survey	Sponge	Modern	1		
	0	Surface survey	Styrofoam egg carton	Modern	1		
	0	Surface survey	Plastic wire insulators	Modern	2		
	0	Surface survey	Insulated wire frags	Modern	4		Romex
	0	Surface survey	Fiberglass frags	Modern	2		
	0	Surface survey	Plastic toggle switch	Modern	1		
	0	Surface survey	Rubber bungie cord	Modern	1		With S hooks
	0	Surface survey	Nylon rope frags	Modern	2		
	0	Surface survey	Plastic bag/purse	Modern	1		
	0	Surface survey	Paper towels	Modern	3		Blue shop towel
	0	Surface survey	Cardboard frags	Modern	2		
	0	Surface survey	Clear bottle glass frags	Modern	11		
	0	Surface survey	Amber bottle glass frags	Modern	3		

STP#	Level	Depth cm (inches)	Description	Date Range	Count	Weight grams	Comments
Field C	0	Surface survey	Brewerton point	Indigenous	1	7	Corner-notched
	0	Surface survey	Clear bottle glass frags	Historic	10		
	0	Surface survey	Amber bottle glass frags	Historic	3		
	0	Surface survey	Aqua bottle glass frags	Historic	14		
	0	Surface survey	Amber pannel glass frag	Historic	1		
	0	Surface survey	Blue bottle glass frags	Historic	3		
	0	Surface survey	Green bottle glass frags	Historic	2		
	0	Surface survey	Clear flat glass frags	Historic	5		
	0	Surface survey	Aqua flat glass frags	Historic	10		
	0	Surface survey	Clear bottle glass frags	Historic	2		Base
	0	Surface survey	Milk glass frags	Historic	3		
	0	Surface survey	Sun-purpled glass frags	Historic	4		
	0	Surface survey	Bricks	Historic	3		
	0	Surface survey	Brick frags	Historic	23		
	0	Surface survey	Coal frags	Historic	16		
	0	Surface survey	Ironstone ceramic frags	Historic	14		Undecorated
	0	Surface survey	Stoneware crock frags	Historic	2		Albany slip
	0	Surface survey	Stoneware crock frag	Historic	1		Salt glaze, rim
	0	Surface survey	Redware drain tile frags	Historic	6		
	0	Surface survey	Ceramic insulators	Historic	2		
	0	Surface survey	Ceramic frag	Historic	1		Monochrome decal
	0	Surface survey	Ceramic frag	Historic	1		Gold rim, scalloped
	0	Surface survey	Ceramic frags	Historic	6		Polychrome decal
	0	Surface survey	Cut bone	Historic	1		Large mammal
	0	Surface survey	Concrete frags	Historic	5		
	0	Surface survey	Ferrous metal frags	Historic	2		Unidentified
	0	Surface survey	Ferrous metal rod	Historic	1		
	0	Surface survey	Clamshells	Historic	2		
	0	Surface survey	Ferrous metal spike	Historic	1		
	0	Surface survey	Slag	Historic	1		
	0	Surface survey	Metal spoon	Historic	1		
	0	Surface survey	Metal bottle caps	Historic	2		
	0	Surface survey	Aqua glass canning lid	Historic	1		
	0	Surface survey	Stoneware frag	Historic	1		
	0	Surface survey	Aluminum cans	Modern	6		
	0	Surface survey	Metal fence rod	Modern	1		With plastic insulator
	0	Surface survey	Plastic frags	Modern	72		
	0	Surface survey	Plastic caps	Modern	2		
	0	Surface survey	Plastic bottles	Modern	3		
	0	Surface survey	Plastic-coated conduit	Modern	2		
	0	Surface survey	Sanitary ceramic frag	Modern	1		
	0	Surface survey	Shotgun shell	Modern	1		
	0	Surface survey	Styrofoam frags	Modern	16		
	0	Surface survey	Coated wire frags	Modern	6		Stranded
	0	Surface survey	Plastic comb	Modern	1		
	0	Surface survey	Cotton/fabric	Modern	4		
	0	Surface survey	Canvas trap frag	Modern	2		
	0	Surface survey	Golf balls	Modern	4		
	0	Surface survey	Foam frag	Modern	1		
	0	Surface survey	Rubber frags	Modern	2		
	0	Surface survey	Rubber fuel line/hose	Modern	1		With clamps
	0	Surface survey	Plastic tarp frags	Modern	5		Blue
	0	Surface survey	Nylon baling twine	Modern	3		
	0	Surface survey	Ceramic tiles	Modern	2		
	0	Surface survey	Rubber bungie cord	Modern	1		With S hooks
	0	Surface survey	Pink flagging tape frags	Modern	3		
	0	Surface survey	Milled wood frag	Modern	1		2x4
	0	Surface survey	Paper plate	Modern	1		
	0	Surface survey	Plastic hair brush	Modern	1		
	0	Surface survey	Plastic action figure arm	Modern	1		Spiderman

STP#	Level	Depth cm (inches)	Description	Date Range	Count	Weight grams	Comments
Field C	0	Surface survey	Plastic lense cap	Modern	1		Canon
	0	Surface survey	Carpet frag	Modern	1		
	0	Surface survey	Ferrous metal toy truck	Modern	1		
	0	Surface survey	Plastic battery pack	Modern	1		
	0	Surface survey	Clear bottle glass frags	Modern	12		
	0	Surface survey	Amber bottle glass frags	Modern	8		

STP#	Level	Depth cm (inches)	Description	Date Range	Count	Weight grams	Comments
McCaa Site	0	Surface survey	Clear bottle glass frags	Historic	14		
	0	Surface survey	Clear bottle glass	Historic	1	22	Raised letters
	0	Surface survey	Amber bottle glass frags	Historic	5		
	0	Surface survey	Aqua bottle glass frags	Historic	11		
	0	Surface survey	Green bottle glass frags	Historic	5		
	0	Surface survey	Clear flat glass frags	Historic	16		
	0	Surface survey	Aqua flat glass frags	Historic	35		
	0	Surface survey	Clear pannel glass	Historic	2	48	
	0	Surface survey	Aqua panel glass frags	Historic	2		
	0	Surface survey	Milk glass frags	Historic	2		
	0	Surface survey	Pressed milk glass	Historic	1	16	
	0	Surface survey	Sun-purpled glass frags	Historic	4	56	
	0	Surface survey	Bricks	Historic	22		Whole
	0	Surface survey	Brick frags	Historic	265		
	0	Surface survey	Coal frags	Historic	3		
	0	Surface survey	Whiteware ceramic frags	Historic	3	16	Blue transfer, both sides
	0	Surface survey	Whiteware ceramic base	Historic	2	24	Flow blue
	0	Surface survey	Whiteware ceramic frags	Historic	3	15	Flow blue
	0	Surface survey	Whiteware ceramic rim	Historic	1	5	Blue transfer
	0	Surface survey	Whiteware ceramic rim	Historic	1	2	Flow blue
	0	Surface survey	Whiteware ceramic frags	Historic	5	10	Blue transfer
	0	Surface survey	Ironstone ceramic frags	Historic	41		Undecorated
	0	Surface survey	Ironstone ceramic rims	Historic	4	25	
	0	Surface survey	Ironstone ceramic base	Historic	2	47	Undecorated
	0	Surface survey	Ceramic plate rim	Historic	1	1	Polychrome pinstripe
	0	Surface survey	Ribbed ironstone ceramic	Historic	1	1	
	0	Surface survey	Stoneware drain tile frags	Historic	8		
	0	Surface survey	Salt-glazed stoneware	Historic	3	26	Albany slip interior
	0	Surface survey	Salt-glazed stoneware	Historic	1	10	Crock
	0	Surface survey	Earthenware drain tile	Historic	15		Coarse, fragments
	0	Surface survey	Redware drain tile frags	Historic	14		
	0	Surface survey	Ceramic insulators	Historic	3		
	0	Surface survey	Cut nail	Historic	1	9	
	0	Surface survey	Wire nails	Historic	2	17	
	0	Surface survey	Concrete frags	Historic	471		
	0	Surface survey	Cinder block frags	Historic	57		
	0	Surface survey	Mortar frags	Historic	40		
	0	Surface survey	Ferrous metal hinges	Historic	2		
	0	Surface survey	Ferrous metal frags	Historic	15		Unidentified
	0	Surface survey	Ferrous metal pipes	Historic	5		
	0	Surface survey	Ferrous metal angle iron	Historic	1		
	0	Surface survey	Ferrous metal hasp	Historic	1	160	
	0	Surface survey	Ferrous metal wedge	Historic	1	428	
	0	Surface survey	Ferrous metal nut	Historic	1	4	
	0	Surface survey	Ferrous metal J hook	Historic	1	149	
	0	Surface survey	Sheet metal frags	Historic	4		
	0	Surface survey	Ferrous metal tine	Historic	1		Agricultural
	0	Surface survey	Cut bone	Historic	4	165	
	0	Surface survey	Clamshells	Historic	2		
	0	Surface survey	Ceramic figurine	Historic	1	32	Cow
	0	Surface survey	Brick frags with mortar	Historic	11		
	0	Surface survey	Ferrous metal bar	Historic	1		
	0	Surface survey	Slag	Historic	31		
	0	Surface survey	Cuprous metal frag	Historic	1		Unidentified
	0	Surface survey	Ferrous metal U bolt	Historic	1		
	0	Surface survey	Ferrous metal bolts	Historic	2		Large
	0	Surface survey	Ferrous metal tire iron	Historic	1		Rusted
	0	Surface survey	Ferrous metal lever	Historic	1		Agricultural
	0	Surface survey	Metal brake plate	Historic	1		Rusted
	0	Surface survey	Ferrous metal pipe elbow	Historic	1		Large

STP#	Level	Depth cm (inches)	Description	Date Range	Count	Weight grams	Comments
McCaa Site	0	Surface survey	Ferrous metal O ring	Historic	1		
	0	Surface survey	Horseshoe frag	Historic	1		
	0	Surface survey	Chimney flue tile frags	Historic	4		
	0	Surface survey	Clinker frags	Historic	16		
	0	Surface survey	Mammal mandible	Modern	1	5	
	0	Surface survey	Bone frag	Modern	1	10	
	0	Surface survey	Aluminum disc	Modern	2	9	Unidentified
	0	Surface survey	Aluminum can tabs	Modern	3		
	0	Surface survey	Aluminum frags	Modern	3		Unidentified
	0	Surface survey	Plastic frags	Modern	144		
	0	Surface survey	Plastic reflector	Modern	1	1	Automobile
	0	Surface survey	Plastic caps	Modern	2		
	0	Surface survey	Plastic jugs	Modern	3		
	0	Surface survey	Plastic bottles	Modern	2		
	0	Surface survey	Sheet plastic frags	Modern	6		
	0	Surface survey	Plastic-coated conduit	Modern	2		
	0	Surface survey	Plastic syringe	Modern	1		Agricultural
	0	Surface survey	Sanitary ceramic frags	Modern	4		
	0	Surface survey	Shotgun shells	Modern	5		
	0	Surface survey	Rubber cap	Modern	1	11	
	0	Surface survey	Rubber bushing	Modern	1		
	0	Surface survey	Rubber glove	Modern	1		
	0	Surface survey	Styrofoam frags	Modern	6		
	0	Surface survey	Coated wire	Modern	1		
	0	Surface survey	Rubber shoe sole	Modern	1		
	0	Surface survey	Golf balls	Modern	3		
	0	Surface survey	Cloth/fabric	Modern	11		
	0	Surface survey	Mylar balloon frag	Modern	1		
	0	Surface survey	Rubber frags	Modern	7		
	0	Surface survey	Asphalt frags	Modern	6		
	0	Surface survey	Nylon baling twine frags	Modern	15		
	0	Surface survey	Cloth gloves	Modern	2		
	0	Surface survey	Fiberglass frags	Modern	3		
	0	Surface survey	Rubber bungie cord	Modern	1		With S hooks
	0	Surface survey	Milled wood frag	Modern	1		2x4
	0	Surface survey	Carpet frag	Modern	3		
	0	Surface survey	Plastic cigarillo tip	Modern	1		
	0	Surface survey	Duct tape frags	Modern	2		
	0	Surface survey	Aluminum sheet metal	Modern	3		
	0	Surface survey	Tar paper frags	Modern	3		
	0	Surface survey	Plastic knob	Modern	1		Electric light dimmer
	0	Surface survey	Cotton rope frag	Modern	1		
	0	Surface survey	Electric cord	Modern	1		
	0	Surface survey	Shoe	Modern	1		
	0	Surface survey	Stainless water faucet	Modern	1	487	
	0	Surface survey	Radiator cap	Modern	1	90	
	0	Surface survey	Alumiunm tag	Modern	1	17	McCormick
	0	Surface survey	Metal spring with pulley	Modern	1		Garage door spring
	0	Surface survey	Metal mud flap bracket	Modern	1		
	0	Surface survey	Clear bottle glass frags	Modern	6		
	0	Surface survey	Amber bottle glass frags	Modern	3		

STP#	Level	Depth cm (inches)	Description	Date Range	Count	Weight grams	Comments
Atwater Site	0	Surface survey	Clear bottle glass frags	Historic	5		
	0	Surface survey	Clear bottle glass frags	Historic	3	72	
	0	Surface survey	Clear bottle glass base	Historic	2	78	
	0	Surface survey	Amber bottle glass frags	Historic	5		
	0	Surface survey	Amber bottle glass frag	Historic	1	8	Rim
	0	Surface survey	Amber bottle glass frag	Historic	1	2	Raised marking
	0	Surface survey	Aqua bottle glass frags	Historic	7		
	0	Surface survey	Aqua bottle glass base	Historic	1	41	
	0	Surface survey	Blue bottle glass frags	Historic	2		Enameled
	0	Surface survey	Green bottle glass frags	Historic	6		
	0	Surface survey	Clear flat glass frags	Historic	21		
	0	Surface survey	Aqua flat glass frags	Historic	34		
	0	Surface survey	Olive bottle glass frags	Historic	2	23	
	0	Surface survey	Milk glass frags	Historic	2		
	0	Surface survey	Milk glass frag	Historic	1	4	Ribbed
	0	Surface survey	Bricks	Historic	16		
	0	Surface survey	Brick frags	Historic	115		
	0	Surface survey	Coal frags	Historic	52		
	0	Surface survey	Ironstone ceramic frags	Historic	37		Undecorated
	0	Surface survey	Ironstone ceramic frag	Historic	1	13	Undecorated base frag
	0	Surface survey	Ironstone ceramic frags	Historic	7	54	Undecorated rim frags
	0	Surface survey	Glazed stoneware crock	Historic	1	33	
	0	Surface survey	Glazed stoneware rim	Historic	1	17	
	0	Surface survey	Stoneware rim frag	Historic	1	35	Rockingham
	0	Surface survey	Porcelain frag	Historic	1	3	Painted doll face
	0	Surface survey	Glazed earthenware rim	Historic	1	22	
	0	Surface survey	Glazed earthenware frag	Historic	1	13	
	0	Surface survey	Stoneware drain tile	Historic	6		
	0	Surface survey	Redware drain tile frags	Historic	3		
	0	Surface survey	Ceramic insulator	Historic	1		
	0	Surface survey	Concrete frags	Historic	151		
	0	Surface survey	Ferrous metal pipe frags	Historic	3		
	0	Surface survey	Sheet metal frags	Historic	2		
	0	Surface survey	Cuprous metal pipe frag	Historic	1		With valve
	0	Surface survey	Clinkers	Historic	10		
	0	Surface survey	Metal screen frag	Historic	1		
	0	Surface survey	Ferrous metal cap	Historic	1		
	0	Surface survey	Metal hay hook	Historic	1	327	
	0	Surface survey	Bone frag	Modern	1	18	
	0	Surface survey	Mammal mandible frag	Modern	1	2	
	0	Surface survey	Pressed glass frags	Modern	2		Clear
	0	Surface survey	Clear safety glass frag	Modern	1	15	Thick
	0	Surface survey	Metal knife blade	Modern	1	16	kitchen cutlery
	0	Surface survey	Brass shell casing	Modern	1	2	.17 hmr
	0	Surface survey	Pressed pannel frag	Modern	1	25	with screw
	0	Surface survey	Aluminum foil frags	Modern	3		
	0	Surface survey	Aluminum cans	Modern	9		
	0	Surface survey	Aluminum can tabs	Modern	2		
	0	Surface survey	Plastic frags	Modern	120		
	0	Surface survey	Plastic-coated conduit	Modern	1		
	0	Surface survey	Sanitary ceramic frags	Modern	6		
	0	Surface survey	Rubber strap	Modern	1		
	0	Surface survey	Golf balls	Modern	2		
	0	Surface survey	Foam frags	Modern	6		
	0	Surface survey	Cloth/fabric frags	Modern	7		
	0	Surface survey	Rubber frag	Modern	6		
	0	Surface survey	Ceramic tile frags	Modern	2		
	0	Surface survey	Nylon rope frags	Modern	2		
	0	Surface survey	Milled wood frag	Modern	1		2x4
	0	Surface survey	Tar paper frags	Modern	5		

STP#	Level	Depth cm (inches)	Description	Date Range	Count	Weight grams	Comments
Atwater Site	0	Surface survey	Chrome valve handle	Modern	1		
	0	Surface survey	Rubber ball	Modern	1		
	0	Surface survey	Aluminum gutter	Modern	1		
	0	Surface survey	Plastic bread tie	Modern	1		
	0	Surface survey	Plastic disc	Modern	1		Game piece?
	0	Surface survey	Asphalt shingles	Modern	2		
	0	Surface survey	Plastic plant marker	Modern	1		
	0	Surface survey	Clear bottle glass frags	Modern	2		
	0	Surface survey	Amber bottle glass frags	Modern	3		

ATTACHMENT E

Report of Faunal Remains

McCaa and Atwater Sites, New York – Surface Finds Faunal Materials

The surface finds from both the McCaa and Atwater sites recovered non-human, faunal remains. The McCaa site surface samples are from modern White-tailed Deer. The Atwater site samples recovered both a domestic cattle bone fragment and a vertebra fragment assigned to a medium terrestrial mammal. The Atwater samples are from an Archaeological midden deposit that was disturbed from a surface plow and likely Euroamerican in date.

McCaa Site, New York

1. White-tailed Deer (*Odocoileus virginianus*). Left Metacarpus is missing the distal epiphysis. The bone is approximately 7" (inches) in length. The metacarpus is from a young adult estimated at 20-23 months of age. The metacarpus is minimally weathered (using the Behrensmeyer (1978) weathering scale, 0-1) indicating that the specimen was exposed to the elements for relatively short period of time.

Osteometric Data follows the von den Dreisch (1976) international protocol:

Measurements taken:
Bp = 29.41mm
Dp = 21.84
SD = 17.54
DD = 13.18

2. White-tailed Deer (*Odocoileus virginianus*). Right Distal Tibia, broken in two pieces. The tibia is approximately 4" in length. The specimen is estimated to be between a young to mature adult, approximately 23-29 months of age. The tibia is also minimally weathered (using Behrensmeyer (1978) weathering scale, 0-1).

Osteometric Data follows the von den Dreisch (1976) international protocol:

Measurements taken:
Bd = 36.63mm
Dd = 29.61

Atwater Site, New York

1. Domestic Cattle (*Bos taurus*). Femoral Shaft fragment, approximately 3.75" in length. The bone fragment is from a mature adult individual. The bone fragment is weathered (using Behrensmeyer's (1978) weathering scale, 2-3) with the fragment's edges worn and rounded.

2. Medium Terrestrial Mammal. Neural Arch of a Vertebra, approximately 2" in length. The vertebra fragment is weathered (using Behrensmeyer's (1978) weathering scale, 3-4) and the bone's edges are worn and rounded.

Literature Cited:

Behrensmeyer, A.K.
1978 Taphonomic and Ecological Information from Bone Weathering. *Paleobiology* 4: 150-162.

Purdue, J. P.
1983 Epiphyseal Closure in White-tailed Deer. *The Journal of Wildlife Management*. Vol. 47, No. 4: 1207-1213.

Von Den Driesch, A.
1976 A Guide to the Measurement of Animal Bone from Archaeological Sites. *Peabody Museum Bulletin* 1. Peabody Museum of Archaeology and Ethnology, Cambridge Mass,: Harvard University.

ATTACHMENT F

NYS Archaeological Site Inventory Forms

NEW YORK STATE PREHISTORIC ARCHAEOLOGICAL SITE INVENTORY FORM

NYS OFFICE OF PARKS, RECREATION & HISTORIC PRESERVATION
(518) 237-8643

Bernadette Castro
Commissioner

For Office Use Only--Site Identifier

Project Identifier Great Lakes Cheese Manufacturing Facility - Project Block Date 10/18/2021

Your Name Jeremy Deuel Phone (585) 591-0630
Address P.O. Box 51
Attica, NY 14011

Organization (if any) Deuel Archaeology & CRM

1. SITE IDENTIFIER(S) Schwab Indigenous Site (DACRM Site ID: CAT P002)
2. COUNTY Cattaraugus One of the following: CITY
TOWN Farmersville and Franklinville
INCORPORATED VILLAGE
UNINCORPORATED VILLAGE OR HAMLET

3. PRESENT OWNER
Address Schwab Land Holdings, LLC
10091 Pigeon Hill Rd
Delevan, NY 14042

4. SITE DESCRIPTION (check all appropriate categories):

Site

X Stray Finds (4 loci)	___Cave/Rockshelter	___Workshop
__Pictograph	___Quarry	___Mound
__Burial	__ Shell Midden	___Village
X Surface Evidence	___Camp	X Material in plow zone
__Material below plow zone	___Buried evidence	___Intact Occupation floor
__Single component	___Evidence of features	___Stratified
	___Multicomponent	

Location

___Under cultivation	___Never cultivated	X Previously cultivated
___Pastureland	___Woodland	___Floodplain
__ Upland		___ Sustaining erosion

Soil Drainage: excellent X good ___ fair ___ poor X
Slope: flat X gentle ___ moderate ___ steep
Distance to nearest water from site (approx.): Locus 4 adjacent to unnamed drainage; Ischua Creek located 550 feet (168 meters) west of Locus 1
Elevation: 1,580 to 1,600 feet (482 to 488 meters) above sea level

5. SITE INVESTIGATION (append additional sheets, if necessary):
Surface--date(s) 9/27/2021 to 10/12/2021
X Site map (Submit with form)
X Collection

Subsurface--date(s) 10/12/2021
Testing: shovel X coring ___ other_____ unit size 36 cm diameter
no. of units 36 STPs (8 radial STPs at 1-m and 3-m intervals and 1 STP at center of 4 artifact locations)
Excavation: unit size _____ no. of units

Investigator Jeremy Deuel

Manuscript or published report(s) (reference fully):

Deuel Archaeology & CRM
2021 *Phase IB Field Investigation for the proposed Great Lakes Cheese Manufacturing Facility – Project Block, Towns of Farmersville and Franklinville, Cattaraugus County, New York.*

Present repository of materials: Deuel Archaeology & CRM

6. COMPONENT(S) (cultural affiliation/dates):

Late Archaic (based on two Brewerton projectile points)

7. LIST OF MATERIAL REMAINS (be specific as possible in identifying object and material):

Locus 1 – one chert pre-form (Onondaga chert?)
Locus 2 – one primary reduction flake (Onondaga chert)
Locus 3 – one Brewerton projectile point (Onondaga chert)
Locus 4 – one Brewerton projectile point (Onondaga chert)

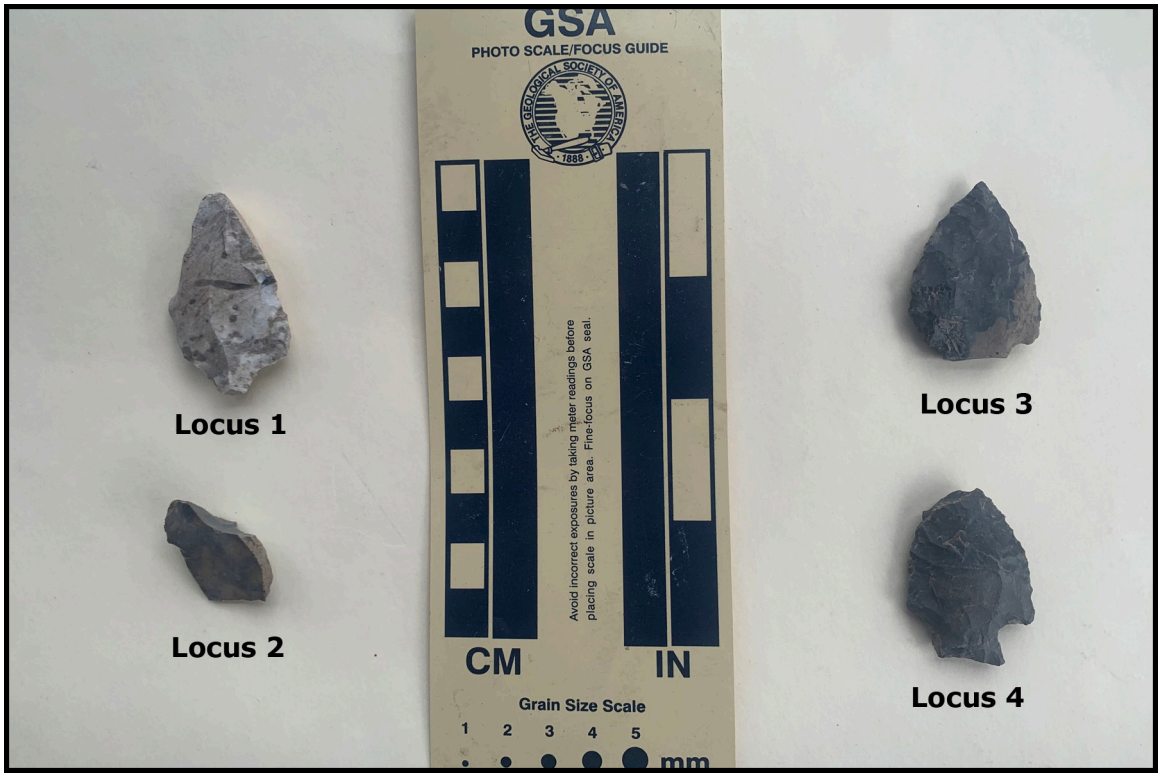
If historic materials are evident, check here and fill out historic site form

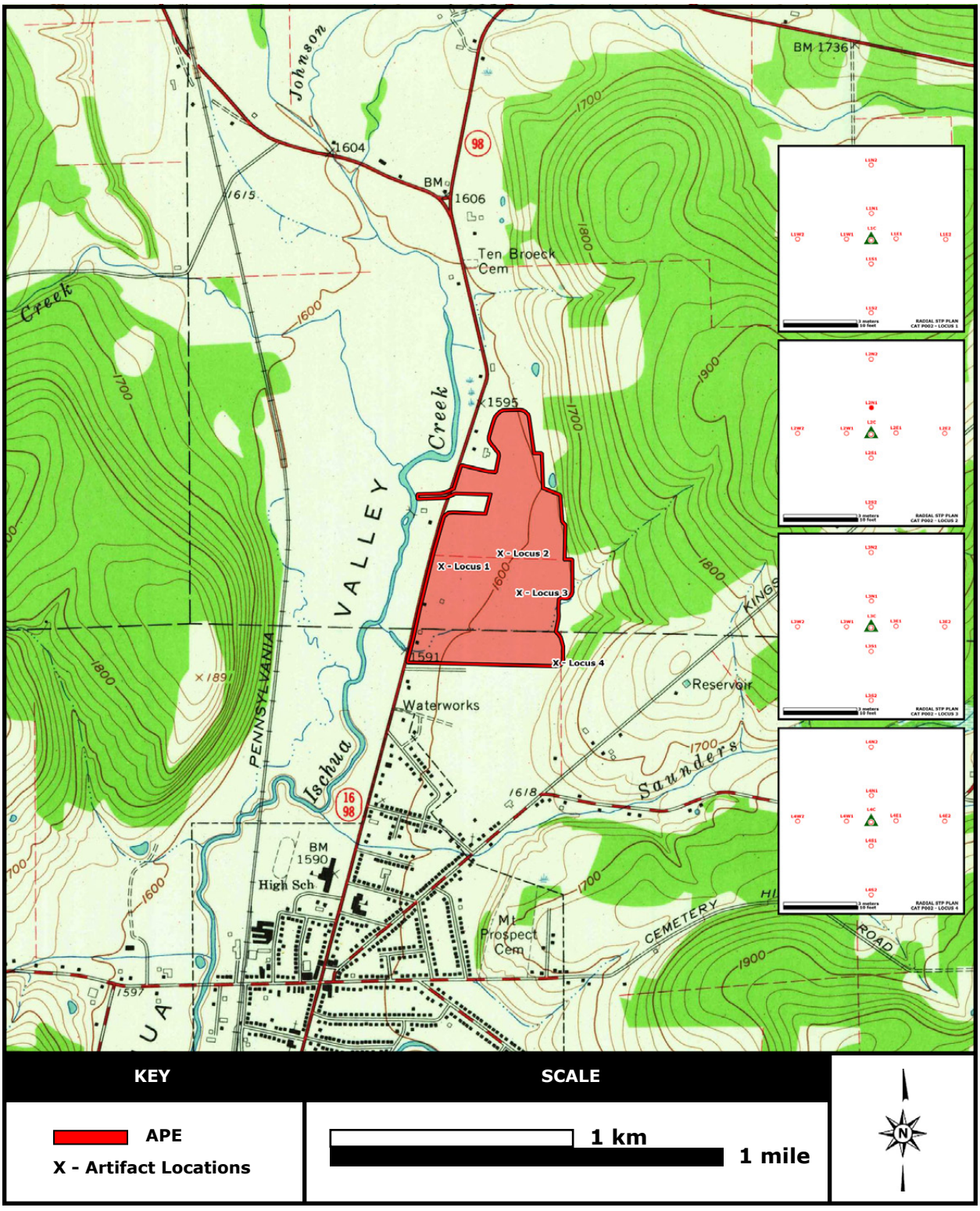
8. MAP REFERENCES

USGS 7.5-Minute Series Quad: *Franklinville, NY* (USGS 1963)

GPS Coordinates (WGS 84): Locus 1 - 42.352420, -78.452060
Locus 2 - 42.352830, -78.449040
Locus 3 - 42.351450, -78.448110
Locus 4 - 42.348810, -78.446460

9. Photography





Location of Schwab Indigenous Site comprised of 4 stray finds distributed across 4 loci (DACRM Site: CAT P002) on *Franklinville, NY* (USGS 1963) and *Radial STP Plans* (inset).

Photo 1. Facing east showing the current state of DACRM Site CAT P002 - Locus 1.

Photo 2. Facing northwest showing the current state of DACRM Site CAT P002 - Locus 2.

Photo 3. Facing west-southwest showing the current state of DACRM Site CAT P002 - Locus 3.

Photo 4. Facing west showing the current state of DACRM Site CAT P002 - Locus 4.

NEW YORK STATE HISTORIC ARCHAEOLOGICAL SITE INVENTORY FORM

NYS OFFICE OF PARKS, RECREATION & HISTORIC PRESERVATION
(518) 237-8643

Bernadette Castro
Commissioner

For Office Use Only--Site Identifier

Project Identifier Great Lakes Cheese Manufacturing Facility – Project Block Date 10/18/2021

Your Name Jeremy Deuel Phone (585) 591-0630
Address P.O. Box 51
Attica, NY 14011

Organization (if any) Deuel Archaeology & CRM (DACRM)

1. SITE IDENTIFIER(S) McCaa Farmstead Site (DACRM Site ID: CAT H001)

2. COUNTY Cattaraugus One of the following: CITY
TOWNSHIP Town of Farmersville
INCORPORATED VILLAGE
UNINCORPORATED VILLAGE OR HAMLET

3. PRESENT OWNER
Address Schwab Land Holdings, LLC
10091 Pigeon Hill Rd
Delevan, NY 14042

4. SITE DESCRIPTION (check all appropriate categories): Historic period farmstead site at demolished MDSs
Superstructure: complete___ partial___ collapsed___ not evident X
Foundation: above___ below___ (ground level) not evident X
___ Structural subdivisions apparent X Only surface traces visible (concrete and brick on surface)
X Buried traces detected (concrete, brick, nails, flat glass identified in STPs)

List construction materials (be as specific as possible):
527 concrete, 308 brick, 40 mortar, 11 brick/mortar, 57 cinder block, 10 cut nail, 2 wire nail, 56 flat glass, 4 chimney flue tile, 1 screw

Grounds
X Under cultivation ___Sustaining erosion ___Woodland ___Upland
___ Never cultivated ___Previously cultivated ___Floodplain ___Pastureland
Soil Drainage: excellent X good ___ fair ___ poor ___
Distance to nearest water from structure (approx.): 450 feet (137 meters) east of Ischua Creek
Elevation: 1,600 feet (488 meters) above sea level

5. Site Investigation (append additional sheets, if necessary):
Surface -- date(s) 9/27/2021 to 10/12/2021
X Site map (Submit with form*)
X Collection
Subsurface -- date(s) 9/27/2021
Testing: shovel 36 STPs coring ___ other ___ unit size 36 cm (avg.)
no. units ___ (Submit plan of units with form*)

Excavation: unit size _____ no. of units
(Submit plan of units with form*)
* Submission should be 8 ½" by 11", if feasible

Investigator : Jeremy Deuel

Manuscript or published report (s) (reference fully):

Deuel Archaeology & CRM
2021 *Phase IB Field Investigation for the proposed Great Lakes Cheese Manufacturing Facility – Project Block, Towns of Farmersville and Franklinville, Cattaraugus County, New York.*

Present repository of materials: Deuel Archaeology & CRM

6. Site inventory: artifacts at demolished map-documented farmstead
a. Date constructed or occupation period: occupied prior to 1856 and demolished between 1994 and 2002
b. Previous owners, if known: J. McCard [sic] (1856), J. McCaa (1869), W. Pitcher (1929), Schuyler (1968), N. Tingue (1990)
c. Modifications, if known: original house built before 1856 and demolished before 1927, new house built in 1927
(append additional sheets, if necessary)

7. Site documentation (append additional sheets, if necessary):
a. Historic map references
1) Name *Map of Cattaraugus County* Date 1856 Source Geil
2) Name *Atlas of Monroe County* Date 1869 Source Beers
3) Name *Franklinville, NY* Date 1924/1942/1963 Source USGS

b. Representation in existing photography: see Phase IA report (Attachment B: 17-28)

c. Primary and secondary source of documentation (reference fully): see Phase IA report (Attachment B: 17-28)

d. Persons with memory of site
1) Name _____ Address
2) Name _____ Address

8. List of material remains other than those used in construction (be as specific as possible in identifying object and material):

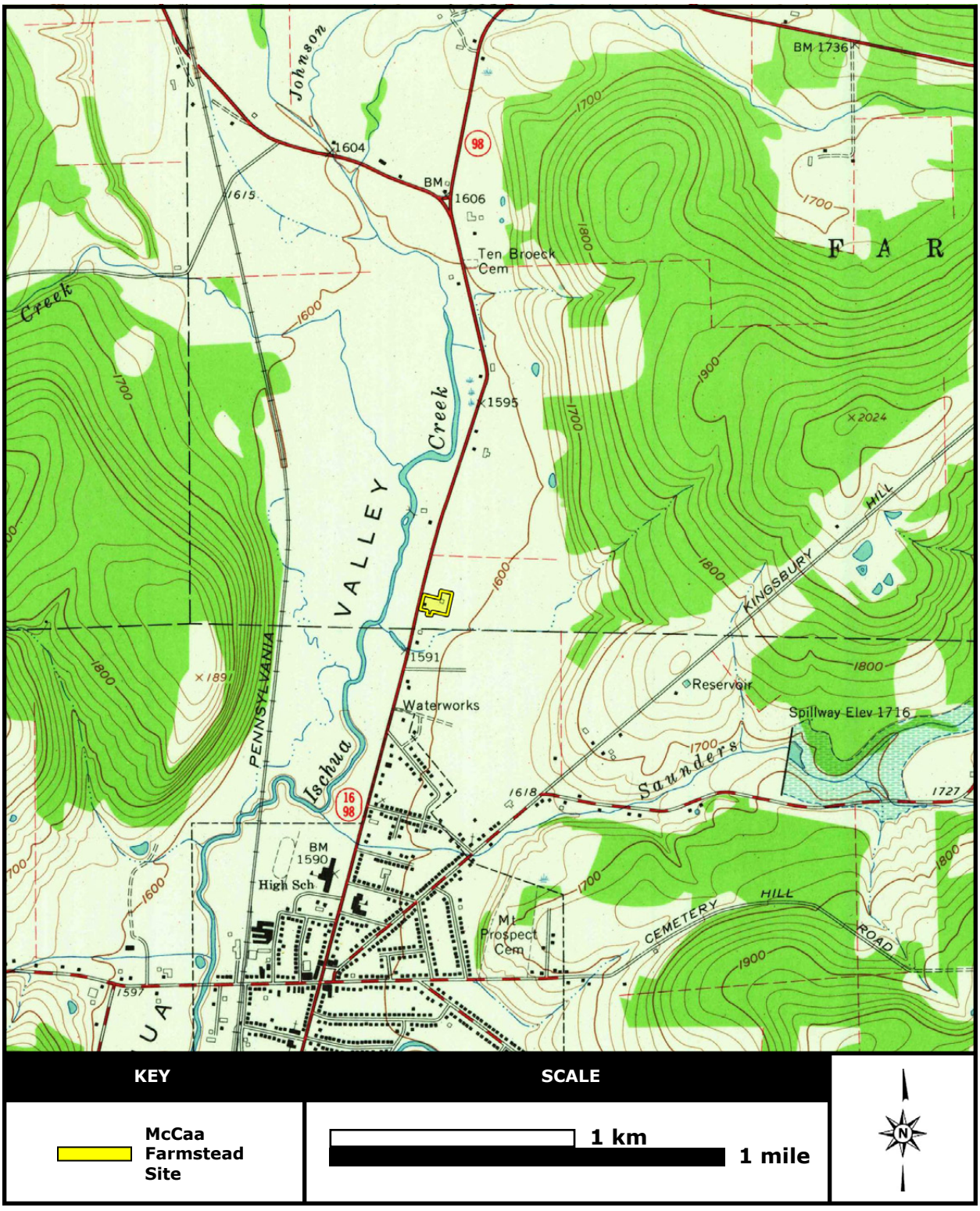
63 ironstone, 18 whiteware, 2 misc ceramic, 4 stoneware, 38 bottle glass, 4 cut bones, 5 burnt bones 4 sun-purple glass, 2 clamshells, 37 drain tile, 1 cuprous metal, 17 ferrous metal, 4 sheet metal, 21 misc metal, 1 horseshoe, 16 clinker, 3 coal, 31 slag, 7 misc glass, 1 ceramic figurine, 3 ceramic insulator, 1 clay pipe stem, and 297 pieces of modern debris

If prehistoric materials are evident, check here and fill out prehistoric site form.

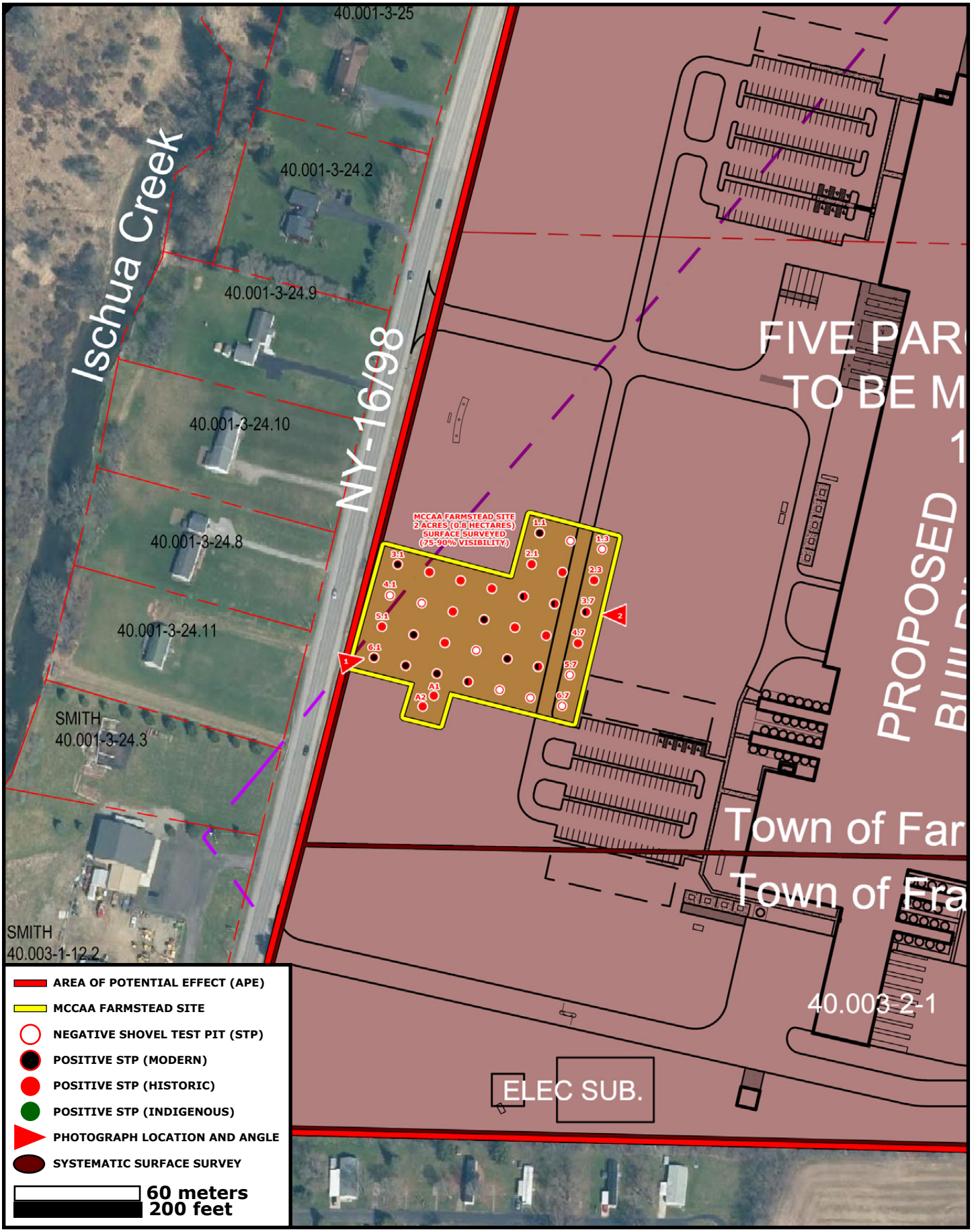
9. Map References: Map or maps showing exact location and extent of site must accompany this form and be identified by source and date. Keep this submission to 8½" x 11", if possible.

USGS 7½-Minute Series Quad. Name: *Franklinville, NY* (USGS 1963)
For Office Use Only--UTM Coordinates: 42.350972, -78.452070

10. Photography (optional for environmental impact survey): Please submit a 5"x7" black and white print(s) showing the current state of the site. Provide a label for the print(s) on a separate sheet.



Location of McCaa Farmstead Site on *Franklinville, NY* (USGS 1963)



Plan of STPs at the McCaa Farmstead Site (DACRM Site ID: CAT H001). From *Site Layout Plan* (Dennis Group 2021).

Photo 1. Facing east-northeast showing the current state of the McCaa Farmstead Site.

Photo 2. Facing west showing the current state of the McCaa Farmstead Site.

NEW YORK STATE HISTORIC ARCHAEOLOGICAL SITE INVENTORY FORM

NYS OFFICE OF PARKS, RECREATION & HISTORIC PRESERVATION
(518) 237-8643

Bernadette Castro
Commissioner

For Office Use Only--Site Identifier

Project Identifier Great Lakes Cheese Manufacturing Facility – Project Block Date 10/18/2021

Your Name Jeremy Deuel Phone (585) 591-0630
Address P.O. Box 51
Attica, NY 14011

Organization (if any) Deuel Archaeology & CRM (DACRM)

1. SITE IDENTIFIER(S) Atwater Farmstead Site (DACRM Site ID: CAT H002)

2. COUNTY Cattaraugus One of the following: CITY
TOWNSHIP Town of Franklinville
INCORPORATED VILLAGE
UNINCORPORATED VILLAGE OR HAMLET

3. PRESENT OWNER
Address Schwab Land Holdings, LLC
10091 Pigeon Hill Rd
Delevan, NY 14042

4. SITE DESCRIPTION (check all appropriate categories): Historic period farmstead site at demolished MDSs
Superstructure: complete___ partial___ collapsed___ not evident X
Foundation: above___ below___ (ground level) not evident X
___ Structural subdivisions apparent _X_ Only surface traces visible (concrete and brick on surface)
_X_ Buried traces detected (brick, nails, flat glass identified in STPs)

List construction materials (be as specific as possible):
151 concrete, 141 brick, 63 flat glass, 3 metal pipe, 1 cuprous metal pipe, and 1 wire nail

Grounds
_X_ Under cultivation ___Sustaining erosion ___Woodland ___Upland
___ Never cultivated ___Previously cultivated ___Floodplain ___Pastureland
Soil Drainage: excellent ___ good _X_ fair ___ poor ___
Distance to nearest water from structure (approx.): 460 feet (140 meters) east of Ischua Creek
Elevation: 1,600 feet (488 meters) above sea level

5. Site Investigation (append additional sheets, if necessary):
Surface -- date(s) 9/27/2021 to 10/12/2021
X Site map (Submit with form*)
X Collection
Subsurface -- date(s) 9/27/2021
Testing: shovel 23 STPs coring ___ other ___ unit size 36 cm (avg.)
no. units ___ (Submit plan of units with form*)

Excavation: unit size _____ no. of units
(Submit plan of units with form*)
* Submission should be 8 ½" by 11", if feasible

Investigator : Jeremy Deuel

Manuscript or published report (s) (reference fully):

Deuel Archaeology & CRM
2021 *Phase IB Field Investigation for the proposed Great Lakes Cheese Manufacturing Facility – Project Block, Towns of Farmersville and Franklinville, Cattaraugus County, New York.*

Present repository of materials: Deuel Archaeology & CRM

6. Site inventory: artifacts at demolished map-documented farmstead
a. Date constructed or occupation period: occupied prior to 1924 and demolished between 1994 and 2002
b. Previous owners, if known: Atwater family (1919-1992)
c. Modifications, if known:
(append additional sheets, if necessary)

7. Site documentation (append additional sheets, if necessary):
a. Historic map references
1) Name *Franklinville, NY* Date 1924/1942/1963 Source USGS
2) Name _____ Date _____ Source
3) Name _____ Date _____ Source

b. Representation in existing photography:

c. Primary and secondary source of documentation (reference fully):

d. Persons with memory of site
1) Name _____ Address
2) Name _____ Address

8. List of material remains other than those used in construction (be as specific as possible in identifying object and material):

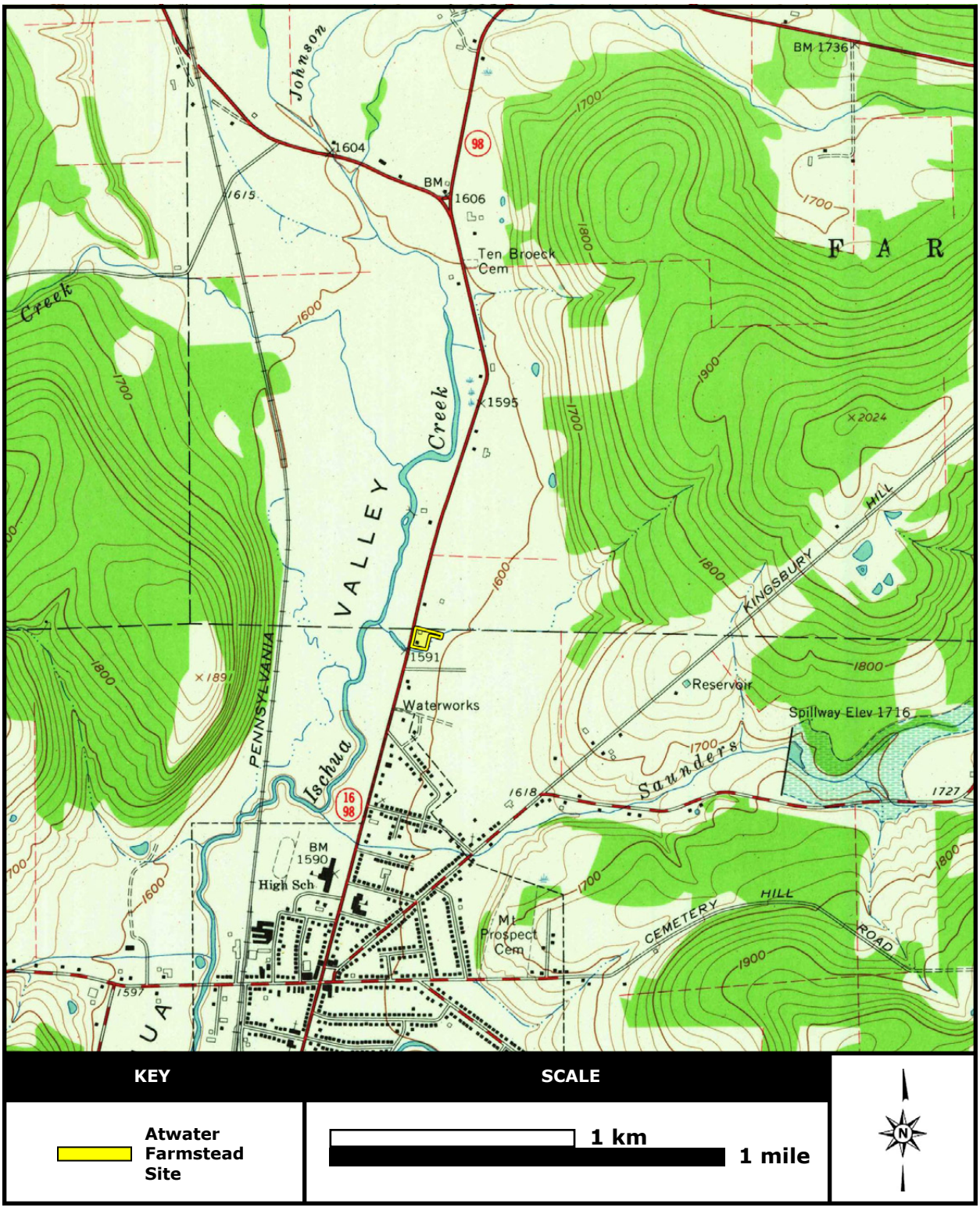
45 ironstone, 3 stoneware, 2 earthenware, 37 bottle glass, 62 coal, 10 clinkers, 9 drain tile, 4 misc glass, 2 sheet metal, 1 metal screen, 1 metal cap, 1 metal hay hook, 1 porcelain doll face, 1 ceramic insulator, and 226 modern debris.

If prehistoric materials are evident, check here and fill out prehistoric site form.

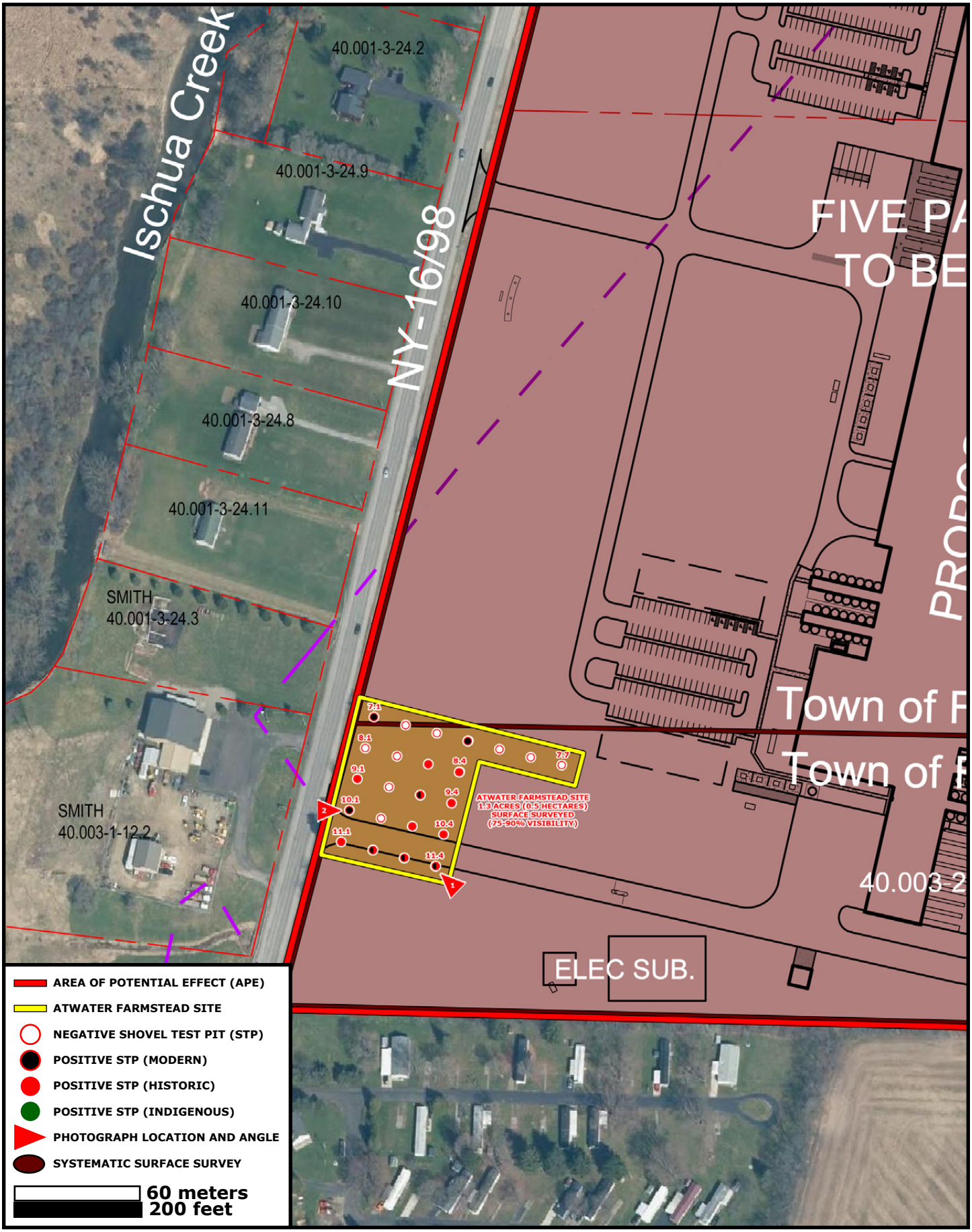
9. Map References: Map or maps showing exact location and extent of site must accompany this form and be identified by source and date. Keep this submission to 8½" x 11", if possible.

USGS 7½-Minute Series Quad. Name: *Franklinville, NY* (USGS 1963)
For Office Use Only--UTM Coordinates: 42.349762, -78.452714.

10. Photography (optional for environmental impact survey): Please submit a 5"x7" black and white print(s) showing the current state of the site. Provide a label for the print(s) on a separate sheet.



Location of Atwater Farmstead Site on *Franklinville, NY* (USGS 1963)



Plan of STPs at the Atwater Farmstead Site (DACRM Site ID: CAT H002). From *Site Layout Plan* (Dennis Group 2021).

Photo 1. Facing northwest showing the current state of the Atwater Farmstead Site.

Photo 2. Facing east showing the current state of the Atwater Farmstead Site.