APPENDIX R

PHASE I & II ARCHAEOLOGICAL INVESTIGATION INCLUDING AMENDMENTS

Appendix R-1
Phase I and Phase II Archaeological Investigations at the Indian Hills Prehistoric Site for the Proposed Improvements to the Indian Hills Golf Course

Tracker Archaeology, Inc.
October 2015

Phase I and Phase II Archaeological Investigations at the Indian Hills Prehistoric Site for the proposed Improvements to the Indian Hills Golf Course Northport, Township of Huntington, Suffolk County, New York

October 2015

Prepared for:
The Northwind Group, Haupaugue, New York
Nelson Pope & Voorhis LLC, Melville, New York

Alfred G. Cammisa, RPA
with Alexander Padilla (CAD)

835

MANAGEMENT SUMMARY

PR#:
not known

Involved agencies:
Town of Huntington

Phase:
Phase IA/IB and Phase II

Location:
Northport (Fort Salonga)
Town of Huntington
Suffolk County

Survey Area:
3 Areas:
1)Drive Range Length: about 400 feet (122 meters) north-south; Width: about 600 feet (183m) E/W
2)Maintenance Length: about 300 feet (91 meters) N/S; Width: about 100 feet (30m) E/W
3)NW Area Length: about 800 feet (294 meters) N/S; Width: about 400 feet (122 m) E/W
-Acres Surveyed: about 15 acres (6 hectares)
-Archaeological Site Size: spread out at about 600 feet (183m) N/S by 300 ft (91m) E/W with heavy concentration about 100 ft by 25 ft

USGS:
Northport, NY

Survey overview:
ST no. & interval: Phase I = 240 ST's at 50 ft (15m) intervals; Phase II = 84 ST's at 25ft, 12.5ft, & 1 meter
Size of freshly plowed area: na
Surface survey transect interval: na

Results:
Phase I: No historic or prehistoric remains on, 1)the golf drive range (SW section) or, 2)the maintenance area (NE section)
-Native American site on, 3) northwest section consisting of 7 Phase I artifacts in 7 ST's with 4 quartz flakes, 1 quartz biface and 1 black/olive green glass utilized flake & 1 black/olive green glass drill/utilized flake
-Phase II:Rossville-like point, point tip, bifaces, flakes, quartz crystal, 1 FCR - not eligible

Results of Architectural Survey:
No. Of buildings/structures/cemeteries in project area: none
No. Of buildings/structures/cemeteries adjacent to project area: none
No. Of previously determined NR listed or eligible buildings/structures/cemeteries/districts: none
No. Of identified eligible buildings/structures/cemeteries/districts: none

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Date of Report:
Report completed October, 2015

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INTRODUCTION

Between July 30 and August 9, 2015, TRACKER Archaeology, Inc. conducted a Phase IA documentary study and a Phase IB archaeological survey for the proposed improvements at the Indian Hills Golf Course in Northport, Town of Huntington, Suffolk County, New York.

The purpose of the Phase IA documentary study was to determine the prehistoric and historic potential of the property for the recovery of archaeological remains. This was accomplished by a review of the original and current environmental data, archaeological site files, other archival literature, maps, and documents.

A prehistoric site file search was conducted utilizing the resources of the New York State Historic Preservation Office - Field Services Bureau in Waterford, New York. Various historical and archaeological web sites were reviewed for any pertinent information.

The purpose of the Phase IB survey was to recover physical evidence for the presence or absence of archaeological sites on the property. This was accomplished through subsurface testing and ground surface reconnaissance.

The project area is located within the Indian Hills Gold Club in Fort Salonga. The project area is approximately 15 acres in size located in 3 separate areas: the NW area, the drive range (SW area), and the maintenance area (NE area).

A prehistoric site was encountered in the NW area, consisting of 7 positive ST's with 1 artifact per ST. The ensuing Phase II study was conducted in September.

The study was conducted by TRACKER Archaeology, Inc. of Monroe, New York. Prehistoric and historic research was conducted by Principal Investigator, Alfred G. Cammisa, M.A. Field work was conducted by Alfred G. Cammisa, field director Alexander Padilla, B.A., field technicians Alfred T. Cammisa, Edward Tassinari and Conner Winters B.A. Artifact analysis by Joseph Diamond, PhD. Report preparation was conducted by Alfred Cammisa, with Alexander Padilla (CAD).

The work was performed for The Northwind Group, Haupaugue, New York and Nelson, Pope & Voorhis, LLC, Melville, New York.

ENVIRONMENT

Geology

The study area is located in the southeast portion of New York State, in the northwest part of Suffolk County. This portion of New York lies in the Atlantic Coastal Plains Physiographic Province. The coastal plain slopes gently eastward and is actually a strip of recently emerged sea bottom. The soils in this region consist largely of LoSand, clay and marl (a mixture of clay, finely fragmented shell and calcite). This area of Long Island is near both the Harbor Hill and Ronkonkoma Moraines (Schuberth 1968:cover map, 9, 184-186; Jensen and Soren 1974; Sirkin 1996:41, 168).

Soils and Topography

Soils in the study area consist of:

Name	Soil Horizon Depth cm (in)	Color	Texture Inclusion	Slope %	Drainage	Landform
Carver	O=2-1(501) O=1-0(2-0) A1=0-3 (-8) A2=3-8(-20) B=8-14 (-36) B2=14-22 (-56)	leaves mull 10YR4/1 10YR6/1 7.5YR5/4 7.5YR5/6	Sa	15-35	excessive	moraines
Cut and Fill	na	na	LoFiSa or LoSa	na	well	60%-75% cut & fill
Riverhead	A=0-12 (0-30) B=12-27 (-69)	10YR4/3 7.5YR5/6	LoSa	8-15	well	moraines & outwash plains
Scio	O=2-1(501) O=1-0(2-0) A11=0-4 (-10) A12=4-7(-18) B21=7-19 (-48)	leaves organic 10YR2/2 10YR4/3 10YR5/4	SiLo	2-6	well	moraines & outwash plains
Sudbury	O=2-1(5-3) O=1-0(2-0) A2=0-1 (-3) B=1-13 (-33)	leaves organic matter 10YR4/1 2.5YR5/4	SaLo	0-3	well	outwash plains & moraines
Walpole	O=2-1(501) O=1-0(2-0) A1=0-5 (-13) B21=5-19 (-48)	leaves mull 10YR3/2 2.5YR5/4	SaLo	0-3	poor	sides of tidal creeks/ marshes & low lying areas

(Warner 1975: map #37, pgs. 66-67, 68, 81, 83, 85-86, 87-88).

KEY:
Shade: Lt=Light, Dk=Dark, V=Very
Color: Br=Brown, Blk=Black, Gry=Gray, Gbr=Gray Brown, StBr=Strong Brown, Rbr=Red Brown, Ybr= Yellow Brown
Soils: Si=Silt, Lo=Loam, LoSa=LoSand, Cl=Clay

Other: Sh=shale, M=Mottle, Gr=Gravelly, Cb=cobbles, Fi=Fine /=or

Elevations on the property range from approximately 50 to 120 feet above mean sea level.

Hydrology
The project area is between 365 to 3137 feet from the Long Island Sound, between 848 to 2036 feet from Fresh Pond and between 1299 to 300 feet from salt water marshes.

Vegetation
The predominant forest community inhabiting the Coastal Plain Physiographic Province in this vicinity (Cape Cod to the Carolinas) was the Northern Pine-Oak Forest. These forests are maintained largely by the effects of frequent fires. Were it not for the fires which the pine species have adapted to, these forests would slowly change to Mesic, dominated by oak, hickory and red maple. Northern Pine-Oak forests occur on sandy, or otherwise poor soils that are overly dry. All coastal plains of eastern North America are Xeric (dry forest). They generally have lower species diversity than bottomland forests (Kricher 1988:16-17, 65-66). The reason the forest soils and surfaces are so dry in this moist region is due to the excessive drainage of overly sandy soils on the Coastal Plain.

At the time of the Phase IB survey, the area consisted of an existing golf club. The driving range was a manicured golf course/range, the maintenance area was impacted by buildings, paved driveway/parking areas, and debris piles, and the northwest section consisted of an extremely dense undergrowth with mostly various types of briars and grape-like vines, with also large vines, and assorted scrub.

PREHISTORIC POTENTIAL

A prehistoric site file search was conducted at the New York State Historic Preservation Office (NYSHPO). Archaeological sites recorded within 1 mile of the study area included:

NYSM Site	NYSHPO Site	Distance from APE ft(m)	Site Type
7616		on or adjacent	Sites?
707		adjacent	Indian Hill.
	10304.000009	890 (271)	Makamah Beach. Near east branch of un-named Creek through Crab Meadow Park. Artifacts found include Wading River points and quartz chips.
5513		1004 (306)	Makamah Beach, SCAA 108, NCM210. Late Archaic. Artifacts found include Wading River projectile points and quartz chips.
	10308.0026	1466 (447)	Fresh Pond Eel Fishing Site: Fishing station.
5511		4679 (1427)	Lambert, SCAA 107, NCM 142. Artifacts found include quartz debitage, large knife fragments and chert debitage.

Indian foot trails were recorded historically and 1 appears along or close to Route 25A (Fort Salonga Road) (Stone nd:map).

Assessing the known environmental and prehistoric archaeological data, we can summarize the following points:

-The project area is between 365 to 3137 feet from the Long Island Sound, between 848 to 2036 feet from Fresh Pond and between 1299 to 300 feet from salt water marshes.

-The study area is situated on mostly well drained soils with level to steep slopes and some cut and fill areas.

-An Indian foot trail passed nearby the project area.

-Numerous prehistoric sites are recorded near the study area including 2 on the golf club and 1 possibly on the NW project area.

In our opinion, the study area has a high potential for the recovery of prehistoric archaeological remains along the level to moderately sloped areas and intact ground, especially the NW section.

HISTORIC POTENTIAL

Contact Period (Seventeenth Century)
At the time of European contact and settlement, this section of Long Island was occupied by the Matinnecock tribe (Bolton 1975:map, 53-54; Stone-Levine 1980:161). The nearest villages of the Matinnecock tribe were the Slongo and Arhakaamunk (Stone nd. map).

Indian trails have been reported in the vicinity of the project area. They traversed along or close to Route 25A (see Prehistoric Potential).

By 1650 the Matinnecock tribe consisted of only 30 families. This number was most likely greatly reduced from their pre-Contact population. At this time "great numbers of Indian plantations now lie waste and vacant" (Bolton 1975:54).

Between 1653 and 1654, the Matinnecock "sold" the last of traditionally occupied territory to the new European settlers (Bolton 1975:54).

Actually, the Matinnecock may have been pressured to "sell" their land. They were likely influenced by the now powerful (probably due to European influence) Wyandanch, chief of the Montauket tribe. Wyandanch denied the Matinnecock any land between Cow Harbor (Northport Harbor) and the Nissequogue River which they sold to the settlers. Land in Huntington, including the present day Township of Babylon, was sold either by Wyandanch himself or under pressure from Wyandanch by the local villages (Street 1982:2-10; Thompson 1918: 386 Bolton 1975:46). Since hunter-gatherers are normally exogamous, and since the Long Island Indians also appeared to follow this custom, genealogical connections between individuals or villages may have also played a part in political influence between tribes.

Eighteenth Century
The old Indian trails became established roads used by settlers (Huntington Historical Society 1937:17).

Wigwams were reported in the 1740's by Reverend Horton who may have lived in them. The nearest was reported along the aforementioned Indian foot trail, near Fresh Pond (Stone nd:map, Stone 1980:170).

The Matinnecock tribe was nearly passed away by this time. Many scattered survivors of the tribe lived as servants to the European-Americans. Farming operations were in all parts of the Township and the associated buildings consisted of small, rude houses and barns with thatched roofs (Street 1982:36).

Nineteenth Century

About 1810 a movement to improve the old Indian trails (now established roads) spread to Long Island from upstate. Private companies were hired to improve road, build toll gates and levy tolls. These roads became known as turnpikes and were merely old dirt roads, in some cases straightened a bit, but worked into such shape that the road was raised toward the middle for better drainage with gutters along the edges. A toll gate along Jericho Turnpike was placed at Commack in the Huntington-Smithtown border (Huntington Historical Society 1937:17-18).

Farmers were principally engaged in raising wheat, rye and corn, and the raising of livestock, including horses, cattle and sheep. Only a limited amount of sheep were originally raised due to the ever present threat of wolves. As many as five flour mills were constructed (Street 1982:36).

The 1836 Colton map shows Crab Meadows salt marshes and Fresh Pond. There no structures on or adjacent to the project area (Figure 4).

The 1858 Chace map depicts the Gardiner structures possibly adjacent to the project area south of Breeze Hill Road (Figure 5).

Crab Meadow was a marshy region with approximately twelve farm houses. Fresh Pond had a store, a post office, and two large brick yards. Vernon Valley was a pleasant farming district with about 150 inhabitants. Northport was a flourishing village where shipbuilding was a considerable business. Manure from New York City was shipped to Northport and bought by farmers in the surrounding area. Fishing and shell fishing were also big businesses as was sand and clay mining (Bayles 1962:162-165).

The 1873 Beers atlas shows the Brick Co. building possibly adjacent to the project area on the south side of Breeze Hill Road. Other buildings, including brick yards, are nearby but not adjacent to the northwest project area (Figure 6)

The 1896 Hyde atlas depicts no structures on or immediately adjacent to the project area although there are brickyards nearby. The brick yard company may have owned the northern project areas (Figure 7).

Twentieth Century

The 1903 U.S.G.S depicts a structure possibly adjacent to the property to the northwest and south of Breeze Hill Road (Figure 8).

An historic site file search was conducted at the New York State Historic Preservation Office (NYSHPO). Archaeological sites recorded within 1 mile of the study area included:

NYSM Site	NYSHPO Site	Distance from APE ft(m)	Site Type
	A10308.000036 A10308.000425	2846 (868)	Remains of Fort Slongo: Fort Slongo was a small fortress on what was then called Treadwell's Neck in Smithtown. The British built it during the Revolutionary War as an outpost from which they could scan the Long Island Sound for rebels. It consisted of an embankment forming a hollow square of about 50 feet, built at the head of a small ravine that sloped abruptly westward into the valley. The walls were formed by banking earth around trees growing in their natural position and around posts set in the ground. On October 2, 1781, while the British troops were drinking at a nearby tavern, a small group of rebels crossed the sound and attacked and overtook the fort. The patriots burned the fort to the ground and returned to Connecticut with 21 captured British soldiers, three cannons and some small arms, all in the last days of the War.

Assessing the known environmental and historic archaeological data, we can summarize the following points:

-The project area is between 365 to 3137 feet from the Long Island Sound, between 848 to 2036 feet from Fresh Pond and between 1299 to 300 feet from salt water marshes.

-The study area is situated on mostly well drained soils with level to steep slopes and some cut and fill areas.

-An Indian foot trail passed nearby the project area. A wigwam was reported along it close by the project area.

-Historic structures were nearby and possibly adjacent to the project area south of Breeze Hill road and to the northwest.

-An historic site was reported in the vicinity.

In our opinion, the study area has a higher than average potential for the recovery of historic archaeological remains on the more the level to moderately sloped terrain and intact ground.

FIELD METHODS

Walkover-Reconnaissance

Exposed ground surfaces (70 to 100 percent visibility) were subjected to a close quarters walkover, at 5 meter intervals, to observe for artifacts. Covered ground terrain was reconnoitered at about 15 meter (25ft) intervals to observe for any above ground features, such as berms, depression, or rock configurations, which could be evidence for a prehistoric or historic site. Photographs were taken of the project area.

Shovel Testing
Shovel tests (ST's) were excavated at about 15 meter (50ft) intervals across the project area. Each ST measured about 30 to 40 cm. in diameter and was dug into the underlying subsoil (B horizon) 10 to 20 cm. when possible. All soils were screened through 1/4 inch wire mesh and observed for artifacts. Shovel tests and surface finds were flagged in the field. All ST's were mapped on the project area map at this time.

Soil stratigraphy was recorded according to texture and color. Soil color was matched against the Munsell color chart for soils. Notes were transcribed in a notebook and on pre-printed field forms.

FIELD RESULTS

Field testing of the project area included the excavation of 240 ST's across the 3 project areas. No prehistoric artifacts or features were encountered on the golf drive range (SW section) or the maintenance area (NE section). A Native American site was encountered on the northwest section (see below).

Stratigraphy
-A/O horizon - 0 to 4 cm of rootmat, leaves, and humus.

-A horizon - 4 to 23 cm. thick of 10YR4/3 brown loamy sand .

-B horizon - consisted of 10 to 20 cm. dug into of 10YR5/4 yellow brown loamy sand.

Artifacts
All 7 artifacts were found in the North-West project area near the bluff overlooking the Long Island Sound:
ST 29: 1 quartz tertiary flake
ST 43: 1 black/olive green glass drill/utilized flake
ST 49: 1 quartz very small biface
ST 56: 1 white quartzite 1 primary flake
ST 86: 1 quartz primary flake
ST 99: 1 black/olive green utilized flake
ST 100: 1 quartz tertiary flake

CONCLUSIONS AND RECOMMENDATIONS

Based upon topographic characteristics, distance to other known prehistoric sites and an Indian trail, the property was assessed as having a higher than average potential for encountering prehistoric sites.

Based upon topographic characteristics, distance to historic map documented structures, historic sites, historic roads, and an Indian trail, the property was assessed as having a higher than average potential for encountering historic sites.

The field testing included the excavation of shovel tests at 15 meter intervals across the project area. No prehistoric or historic artifacts or features were encountered on the golf drive range (SW section) or the maintenance area (NE section). A Native American site was encountered on the northwest section consisting of 7 artifacts of quartz and black/olive green glass, flakes and small tools in 7 positive ST’s.

-No further work is recommended at the golf drive range (SW section) or the maintenance area (NE section).

-We recommend Phase II intensive testing on the North-West Section of the project area (near the bluff overlooking the Long Island Sound) prior to any development related ground breaking or construction which threatens site information.

The purpose of the Phase I archaeological survey is to establish the presence or absence of archaeological sites. If the site is to be impacted by proposed construction or other activities, Phase II intensive testing of any archaeological site is them specified by the regulations of the New York State Historic Preservation Office and the National Advisory Council on Historic preservation. Phase II investigation methods should interpret the archaeological sites and determine if it is eligible for the nomination to State or National Registers of Historic Places.

Phase II investigations would supply information needed to make this determination and would include:

1) Site integrity, including the depth and extent of undisturbed soil horizons and the presence or absence of cultural features, and the degree of natural and/or human disturbances to those features.
2) Cultural components/affiliations and time range present.
3) Vertical and horizontal distribution of archaeological remains (spatial boundaries and stratigraphic levels).
4) Site interpretation, including any uniqueness/significance, in a local or regional context, must be demonstrated.

RESEARCH QUESTIONS

-What is the temporal affiliation of this site?
Diagnostic points, pottery, other artifacts, or radiocarbon from features can solve this question.

-What activities are present on the Indian Hills Site?
Defining artifact types and identify associated tasks will answer this.

-Can intra-site settlement patterns be distinguished?
Identifying and interpreting artifact concentrations and their relative spatial distributions and associated tasks will assist with this task.

-Can site seasonality be determined?
Flotable features could possibly identify seasonality.

-Did the natural or cultural landscape and/or resources of the area influence the inhabitants activities.

-How does this site fit into the local and/or regional settlement patterns?
A comparison of other sites in the vicinity will provide insight here.

-Is the Indian Hills Site eligible for nomination to the National or State Registers of Historic Places?
(see above 4 criteria).

FIELD METHODS

Phase II field work took place between September 12 and 13, 2015. Field methods consisted of the excavation of additional ST's and also test units (TU's).

Phase II Radial Shovel Testing

Phase I shovel testing recovered artifacts strewn out across the project area at approximately 275 to 50 feet apart, indicating a light, scattered artifact density. Phase II shovel testing was designed to test this light density site for the best results. Phase II shovel tests were therefore originally conducted at 25 and 12.5 foot intervals, but narrowed to 1 meter intervals around Phase I positive ST's.

Test Units

Test units were placed primarily in areas of highest artifacts concentration for this site. Test units measured 1 meter square. They were dug by natural stratigraphy with some arbitrary levels. Excavation ceased at 10 cm. into culturally sterile subsoil.

Excavation of the 1 meter square TU's was accomplished manually with the use of shovel and trowels. Shovel technique utilized was the "skimming" method. Soil horizon interfaces or any potential feature stains were troweled in an attempt to uncover cultural features. Elevations of stratigraphy were recorded with the use of a line level which was placed at 10 cm above ground surface, usually at the corner with the highest elevation.

Pre-printed ST field forms were completed for all ST's. Note for all TU's were transcribed on pre-printed TU field forms. These were completed for each TU and level. Notes and sketches were also recorded in a field journal. Photographs were taken of stratigraphically profiled TU walls, environmental information, and general work in progress.

Soils were screened though a 1/4 inch wire mesh on 3 TU's and *1/8 inch mesh* on 1 TU and analyzed for artifacts. Excavated soils were subjected to 100% screening. Stratigraphic profiles were mapped for TU's. All artifacts were bagged by TU and level, provenienced, and returned to the laboratory for processing and analyses.

FIELD RESULTS

Re-shovel testing of the prehistoric site included a total of 84 additional ST's, of which 6 were positive. Four TU's were excavated during the Phase II intensive testing of the Indian Hills Site.

Phase II shovel testing confirmed the following:
-The site appears to have spread east from the golf course, across the wooded project area, and very possibly off the Indian Hills Golf Club property to the west, where other recorded sites are located
-The highest artifact density appeared at the edge of the existing golf course, closer to the previously recorded Indian Hills sites. The remainder of the site consisted of a light scattering of artifacts between 275 to 50 feet apart.

Stratigraphy

Stratigraphy taken from TU's and consisted of:

Level 1, A/O Horizon - about 1 to 12 cm. thick of root mat, leaf litter and humus.

Level 2, A Horizon - about 5 to 13 cm. thick of 10YR4/3 brown, loamy sand.
Level 2B, A Horizon (arbitrary level) - about 7 to 17 cm. thick of 10YR4/3 brown, loamy sand.

Level 3, A/B Horizon Interface - about 11 to 18 cm. dug into of mottled 10YR4/3 topsoil with subsoil,

10YR5/6 loamy sand.

Level 4, B Horizon, subsoil -. dug into 10 cm. of 10YR 5/6 yellow brown loamy sand. This was a culturally sterile layer.

Test Excavation Units
Areas for placement of TU's on this small artifact concentration was determined on ST artifact counts and/ or types.

Test Unit 1 as excavated next to positive radial ST 296 ("12.5' South of ST 99"). Test unit 4 was subsequently excavated adjacent to TU1.

Test Unit 2 was placed near positive radial ST 310 ("12.5' North of ST 100").

Test Unit 3 was placed near positive radial ST 290 ("12.5' North of ST 99").

LABORATORY METHODS

Methods used consisted of the investigation of raw material variety, flake attributes such as decortication reduction sequences, tool identification, and edgeware analysis (retouch and utilization). Artifacts were weighed, selected whole points and other selected tools were measured. Analysis was, for the most part, conducted macroscopically (with the naked eye). The use of a hand lens or microscope may have been also used in some instances for determining use wear versus retouch, mineral composition, and some general analysis.

LABORATORY RESULTS

Phase II investigations of theIndian Hills Site resulted in the recovery of 171 prehistoric artifacts, 164 from TU's and 7 of which were from Phase II ST's. This amount combined with the 7 artifacts from the Phase IB survey totaled 178 artifacts. The exact type of artifacts and its location are listed in appendix 4. (Inventory).

Native American artifacts:

Debitage

Total Debitage (% of Phase I & II lithics)	tertiary flakes (% of debitage	secondary flakes (% of debitage	primary flalkes (% of debitage)
167 (94%)	141 (84.5%)	15 (9%)	11 (6.5%)

Tools

Total tools (% of Phase I & II lithics)	Points (% of tools)	Bifaces (% of tools)	Utilized flakes (% of tools)	Drill/Utilized Flake	quartz crystal (% of tools) (% of tools)
10 (2 glass) (5.5)	2 (1 Rossville-like) (20%)	5 (50%)	1 glass (10%)	1 glass (10%)	1 (10%)

The Rossville point is dated by Ritchie (1989:46) as Terminal Archaic through Early Woodland. However, they were also found at the Goat Island rock-shelter burial in association with Early to Middle Woodland ceramic (Chilton 1992).

Fire Cracked Rock
A total of 1 possible (rose colored) FCR (.5%) of lithics was collected from TU 2.

Material
Virtually all raw material was of quartzite/quartz with the exception of 2 glass artifacts (utilized flake and drill/utilized flake) and a metamorphic/igneous type (large biface).

LOCATION OF ARTIFACTS

Artifacts per TU (not including Euro-American artifacts):

TU	ARTIFACT COUNT (% PER TU)	ARTIFACT TYPES
1	31	all flakes, Biface fragment (3 Euro-American (EA) ceramics)
2	19	tertiary and secondary flakes, possible FCR (6 EA)
3	33	all flakes, Rossville-like Point, white quartz crystal (7 EA)
4	81	all flakes, marginal Biface, possible Biface, Point tip (3 EA)

Artifacts by Level for TU's (not including Euro-American artifacts):

LEVEL	COUNT	ARTIFACT TYPE
1	2	tertiary flakes
2A	25	all flakes, (4 EA)
2B	86	all flakes, possible FCR, 2 Bifaces, 1 Point (tip), white quartzite crystal, (EA10)

LEVEL	COUNT	ARTIFACT TYPE
3	51	all flakes, Rossville-like Point, Biface (5 EA)
4	0	na

CULTURAL INTERPRETATIONS

The IndianHills Site appears to represent a combination of occurrences. The loosely dated Rossville point suggests an Early Woodland Period occupation, but give or take about a prehistoric Period (Late Archaic to Middle Woodland). The 2 olive green wine/liquor glass modified (and likely unmodified) artifacts suggests a Contact Period, or very early Historic Native American occupation. The historic ceramic points to still another occupation, nineteenth century.

Activities on site appear to include:
-Hunting as evidenced by 2 points.

-Butchering with 5 bifaces

-Ephemeral Cooking/Late Food Processing as shown by 1 FCR

-Historic Hide Preparation suggested by a (wine/liquor) glass Utilized flake and a Drill

-Nineteenth century Food Preparation evidenced with by a variety of ceramic

-Stone Tool Production-Final stage as shown by tertiary flakes and bifaces.

-Stone Tool Production- Initial stage shown by primary flakes

-possible Ceremonialism as indicated by the quartz crystal recovered.

Spatial Analysis/Intrasite patterns:
-Most of the Indian Hills Site appears to be sparsely spread out across the NW project area and included both stone debitage and 2 stone tools as well as 2 glass tools from wine/liquor glass. Stone bifaces were recovered from shovel tests both at the northwest and southwest areas. The 2 glass tools were encountered in the southeast and center portions of this project area. It is difficult to say whether the stone artifacts are a separate occupation here from the historic occupation or whether the historic occupants were using both materials.

-Most of the artifacts come from the concentration in the southeast corner of the project area where all the test units were excavated. Test unit 1 and adjacent TU 4 may indicate a lithic workshop at this locale. There were 3 bifaces recovered here, 1 from TU 1 and at 2 bifaces from TU 4 as well as a point tip, and a high amount of teritary flakes. Test unit 4 produced 2 to 3 times more artifacts, in the form tertiary flakes, than the other TU's on site.

Test unit 3 produced both a Rossville-like point and a quartz crystal, possible indicating some sort of ceremonial activity here at the north end of the artifact concentration.

Test unit 2 produced the least amount of artifacts but the only fire cracked rock on site, indicating some low level cooking activity here.

Historic artifacts included (unmodified) olive green wine/liquor bottle glass from TU's 2 and 3 which are likely associated with the Contact/early Historic Period olive green wine/liquor glass tools found elsewhere on site. Brown and black whiteware transferprint were in TU 1, brown transferprint in adjacent TU 4 and blue transferprint was in TU 2 and TU 3. Hand painted pearlware was recovered from adjacent TU's 1 and 4. All historic artifacts were recovered in association with the lithic artifacts from all cultural levels. It should be noted that modern, twentieth century, debris was also recovered in association to both lithics and historic artifacts down to level 2B.

Regional & Period Settlement Pattern Review

-The Indian Hills Site is situated along a high bluff overlooking the Long Island Sound. Prehistoric sites are reported from Fresh Pond to the east, through Indian Hills Golf Club, to Makamah Beach and Crab Meadow in the west.

-Historic Fort Slongo was also reported nearby indicating an Eighteenth Century presence close to this project area.

-Middle to late nineteenth century brick yards were adjacent to this project area and the brick companies may have owned the project area here at some point. Woodland or Historic Period Native Americans may have also utilized the clay deposits for their pots.

All of these time periods are also present on the Indian Hills Site and mixed together stratigraphically in all of the test units.

SUMMARY AND RECOMMENDATIONS

The Indian Hills Site appears to represent a combination of occurrences reflected in other recorded sites close by. The loosely dated Rossville point suggests an Early Woodland Period occupation, but give or take about a prehistoric Period (Late Archaic to Middle Woodland). The 2 modified glass artifacts suggests a Contact Period, or very early Historic Native American occupation. The historic ceramic indicates still another occupation, nineteenth century. All of these time periods are present on the Indian Hills Site but mixed together stratigraphically in all of the test units. Modern, twentieth century, (discarded) debris is also mixed in for most levels with the aforementioned period artifacts.

A site is eligible for nomination to the National Register of Historic Places if it meets one or more of the following criteria (as set forth in 9 NYCRR 427 and 428 or CRF 800):

A) Associated with events that have made a significant contribution to the broad patterns of our history;
B) Associated with the lives of persons significant in our past;
C) Embodies the distinctive characteristics of a type, period, or method of construction, or represents a significant and distinguishable entity whose components may lack individual distinctions; or
D) Has yielded, or may be likely to yield, information important in prehistory or history.

In our opinion, the Indian Hills Site does not have research value that would make it eligible for the historic registers for the following reasons:

-Stratigraphic mixing of artifacts with each other: nineteenth century, Contact/early historic Period associated, and prehistoric periods through all cultural levels. These in turn are mixed with modern debris through all but the lowest level. This is evident from the test units in the area of artifact concentration. The remainder of this site consists of a light scattering of artifacts.

-In addition, no features are on this site.

No further work is therefore recommended.

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1903 *Northport, New York* quadrangle, 15 minute series.

APPENDIX 1

Figure 1

Portion of the Northport, NY USGS

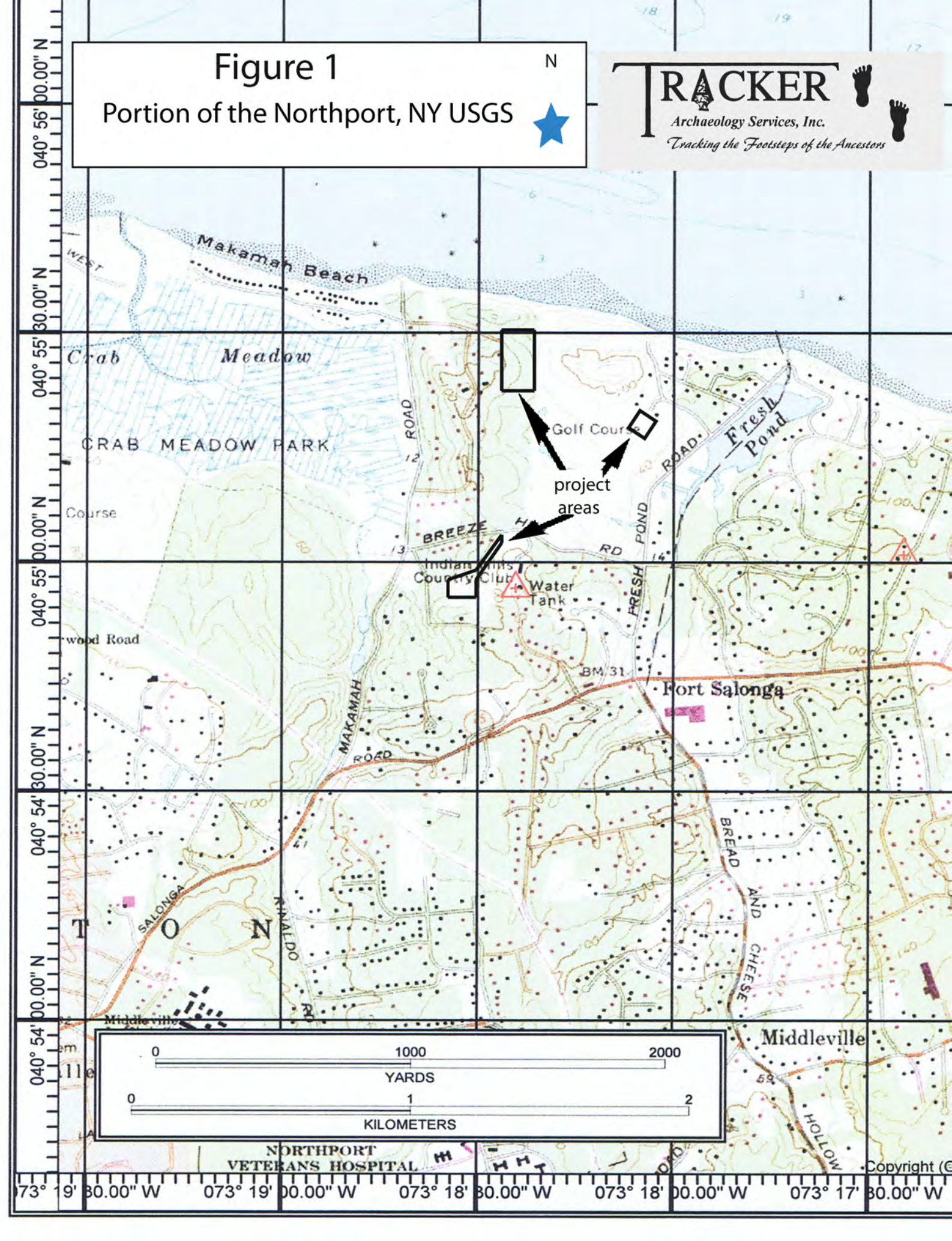


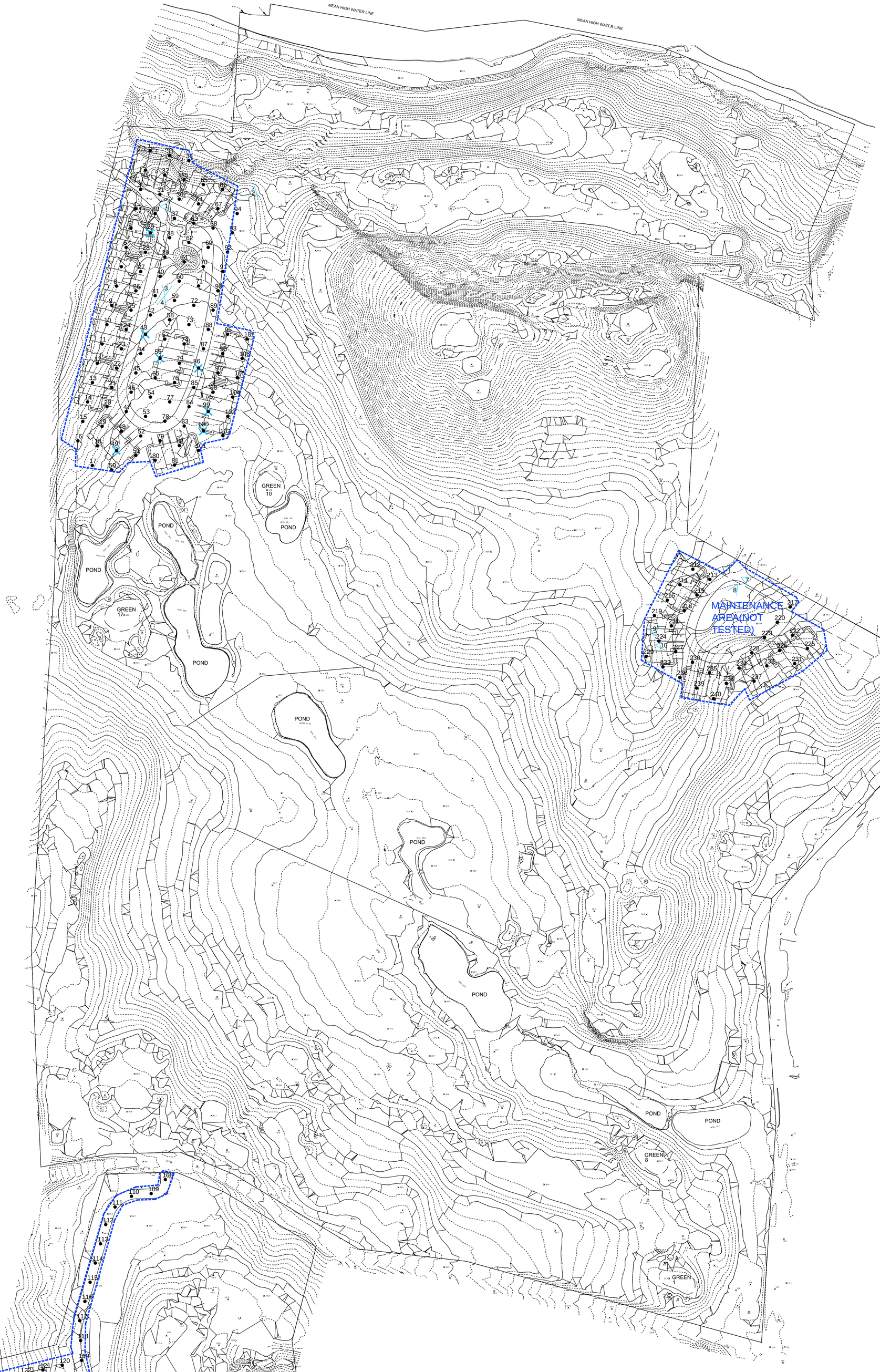
FIGURE 2: LOCATION OF SHOVEL TESTS

PHOTO ANGLE

NEGATIVE SHOVEL TEST

POSITIVE SHOVEL TEST W/ 1 PREHISTORIC ARTIFACT

PROJECT LIMITS (A.P.E.)



PROJECT NAME:INDIAN HILLS

TRACKER Archaeology Services, Inc. "Tracking the Footsteps of the Ancestors"

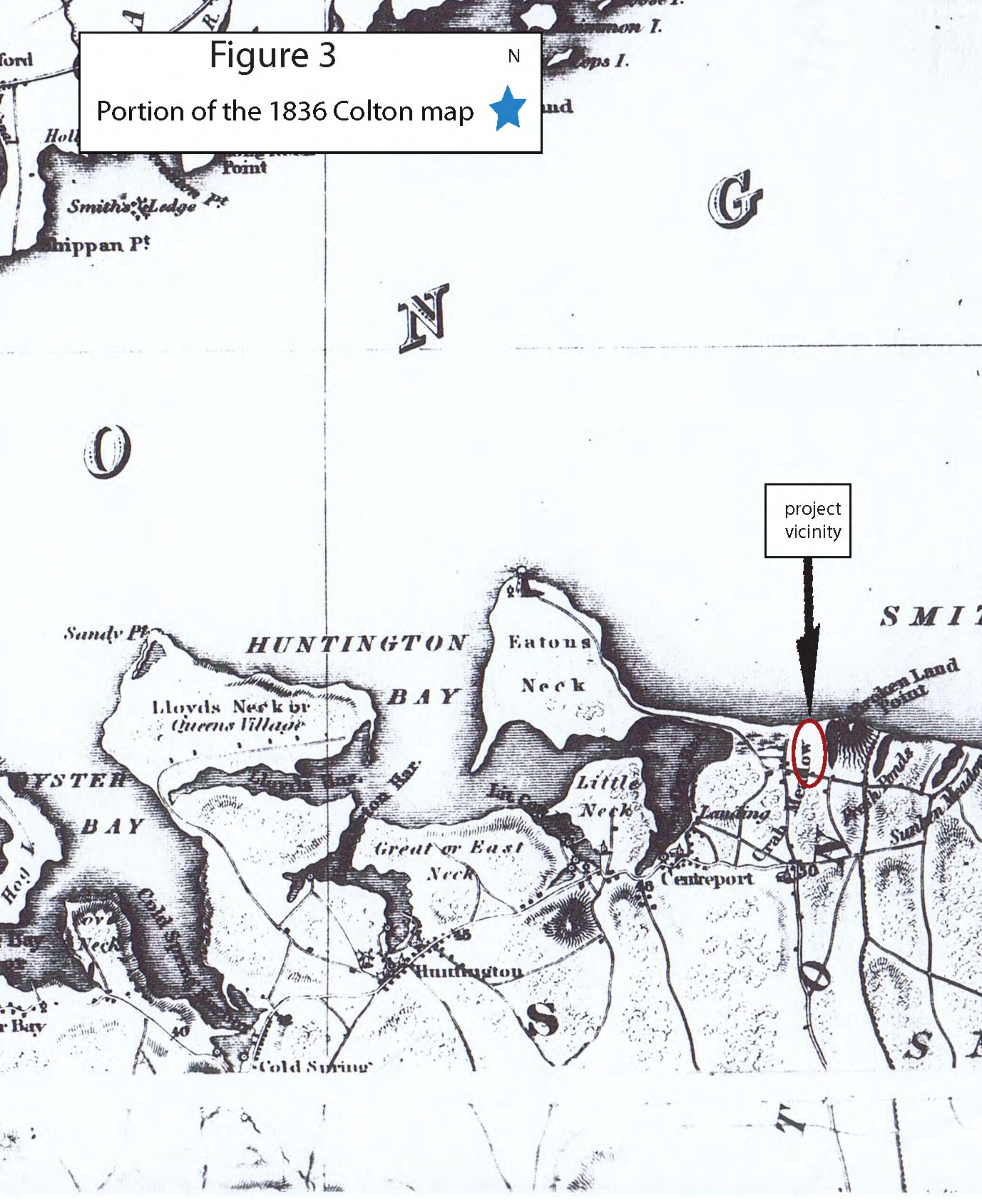


Figure 3

Portion of the 1836 Colton map

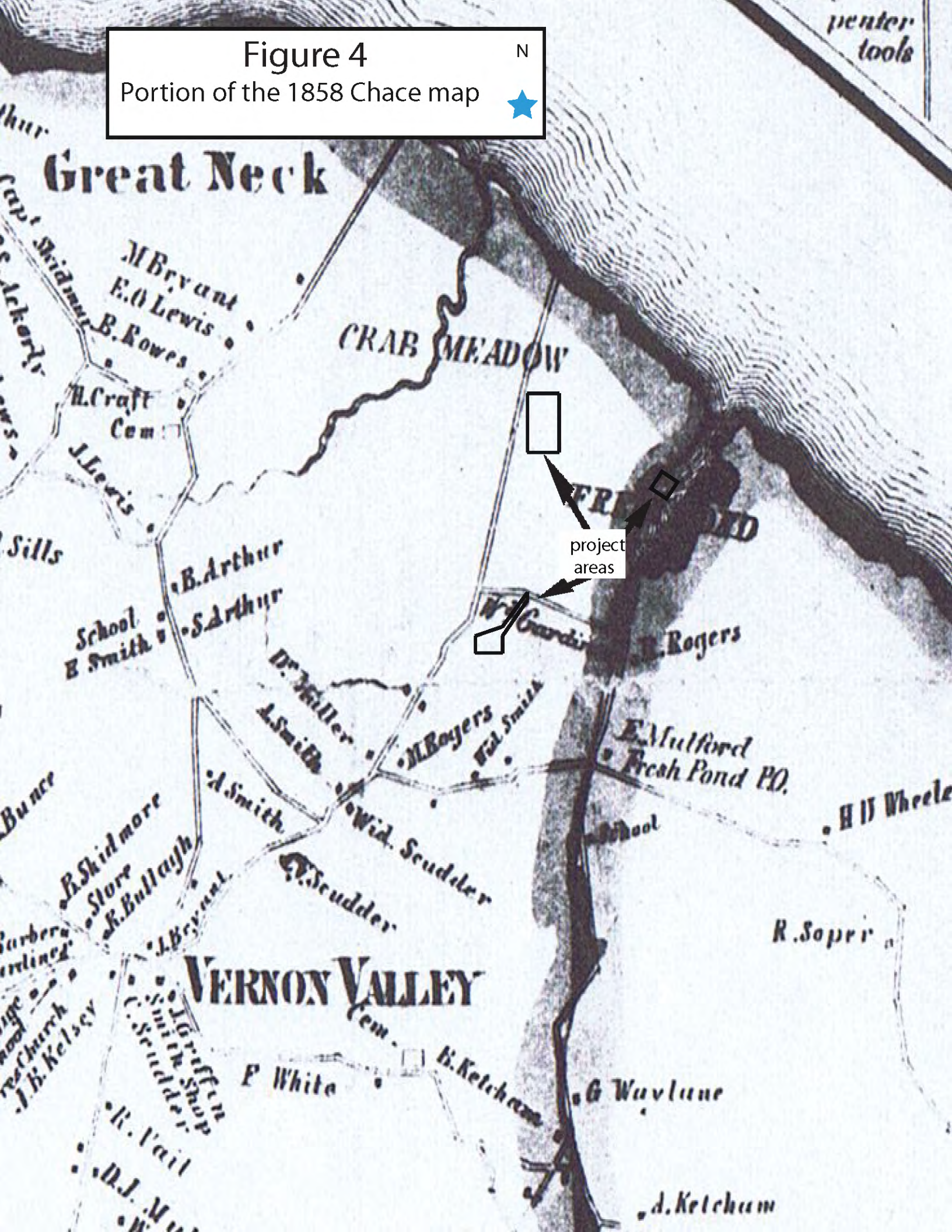


Figure 4
Portion of the 1858 Chace map
N
Great Neck
CRAB MEADOW
VERNON VALLEY
project areas
M Bryant
E.O Lewis
B. Bowes
H.Craft
Cem
J.Lewis
Sills
B.Arthur
S.Arthur
School
E Smith
Dr. Miller
J.Smith
M.Rogers
Ed Smith
E.Mulford
Fresh Pond P.O.
H H Wheele
R.Skidmore
Store
R.Bullayh
J.Bryant
A.Smith
Wid. Scudder
C.Scudder
R.Sopri
F White
B.Ketcham
G Wayland
d.Ketcham
penter
tools

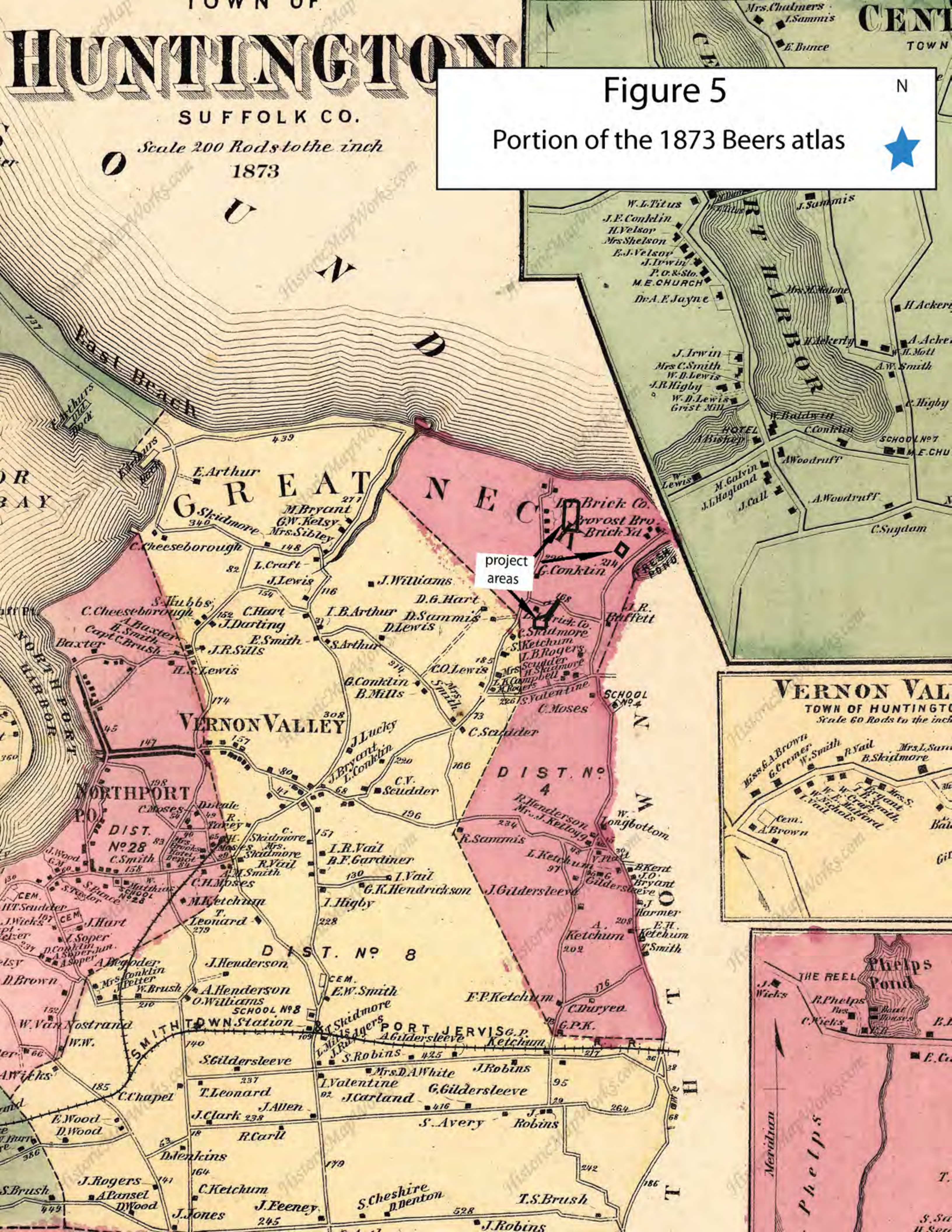


Figure 5
Portion of the 1873 Beers atlas

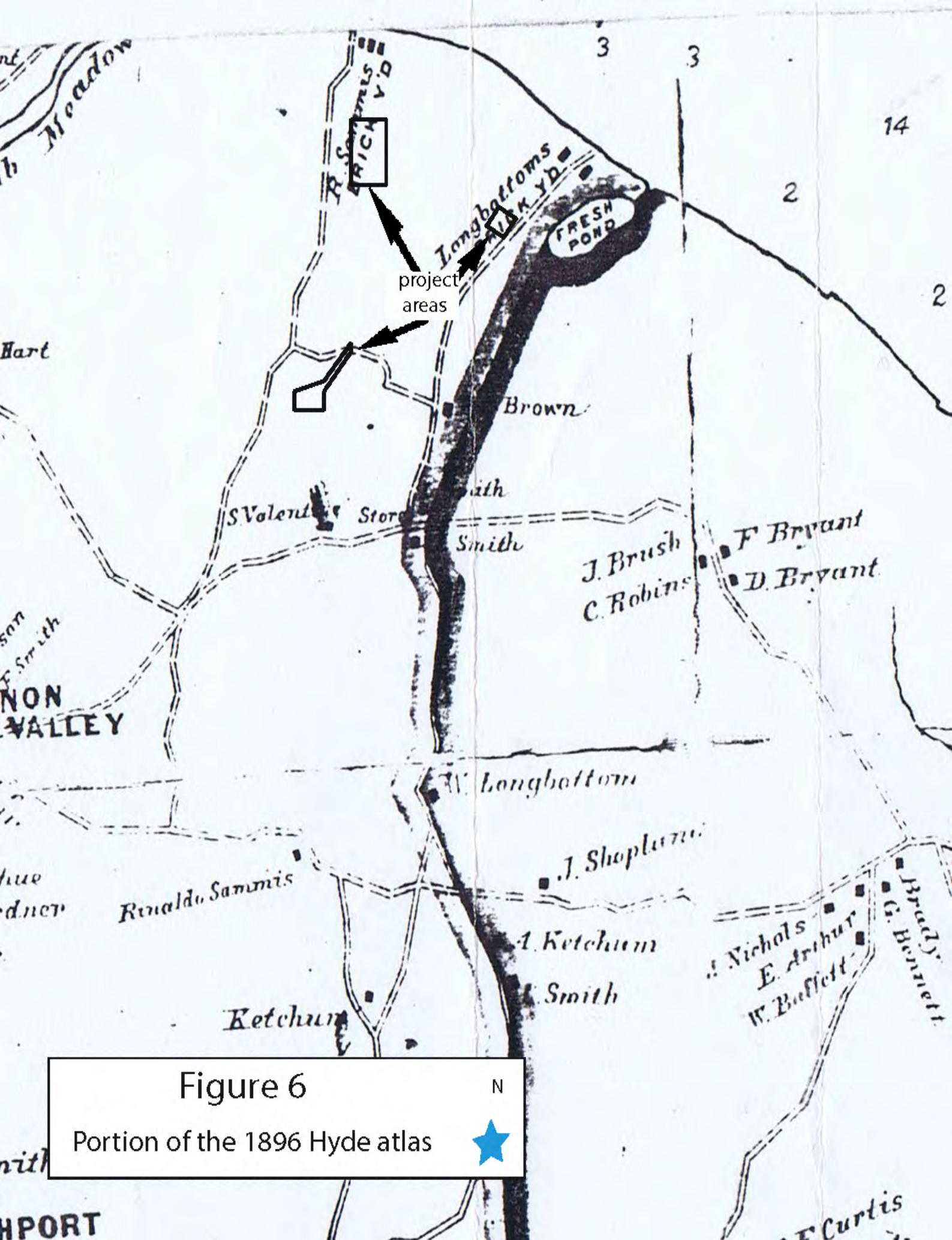


Figure 6

Portion of the 1896 Hyde atlas

N


Figure 7
Portion of the 1903 USGS
N
project
areas
Fort Sa
Northport
100
200
200
BRANCH)

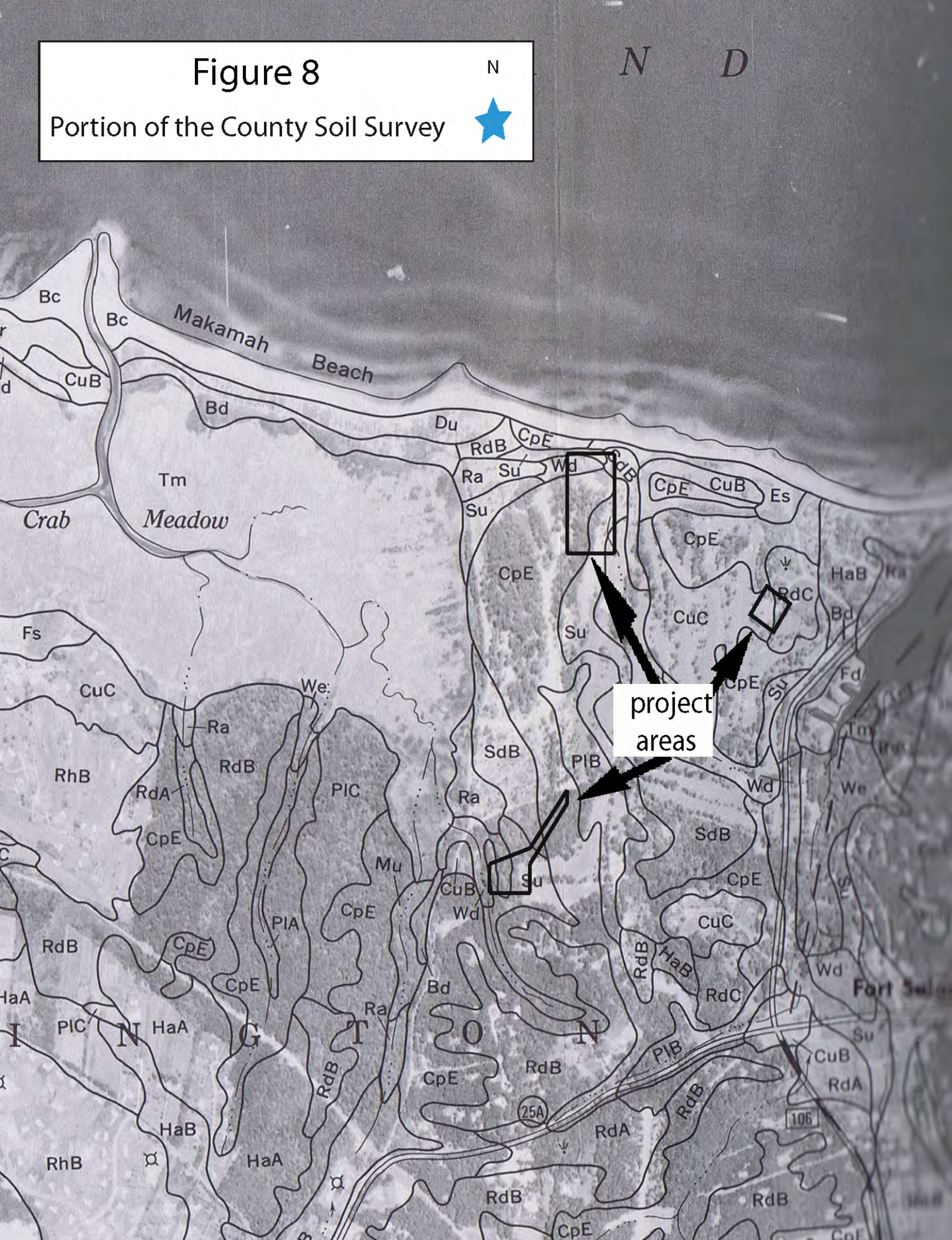


Figure 8
Portion of the County Soil Survey
N
project areas
Makamah Beach
Crab Meadow
Tm
Bc
CuB
Bd
Du
RdB
CpE
Ra
Su
Wd
Es
HaB
RdC
CuC
Fs
We
RhB
RdA
PlC
SdB
PlB
Mu
PlA
HaA
HaB
RhB
Fd
25A
106
RdA
Fort

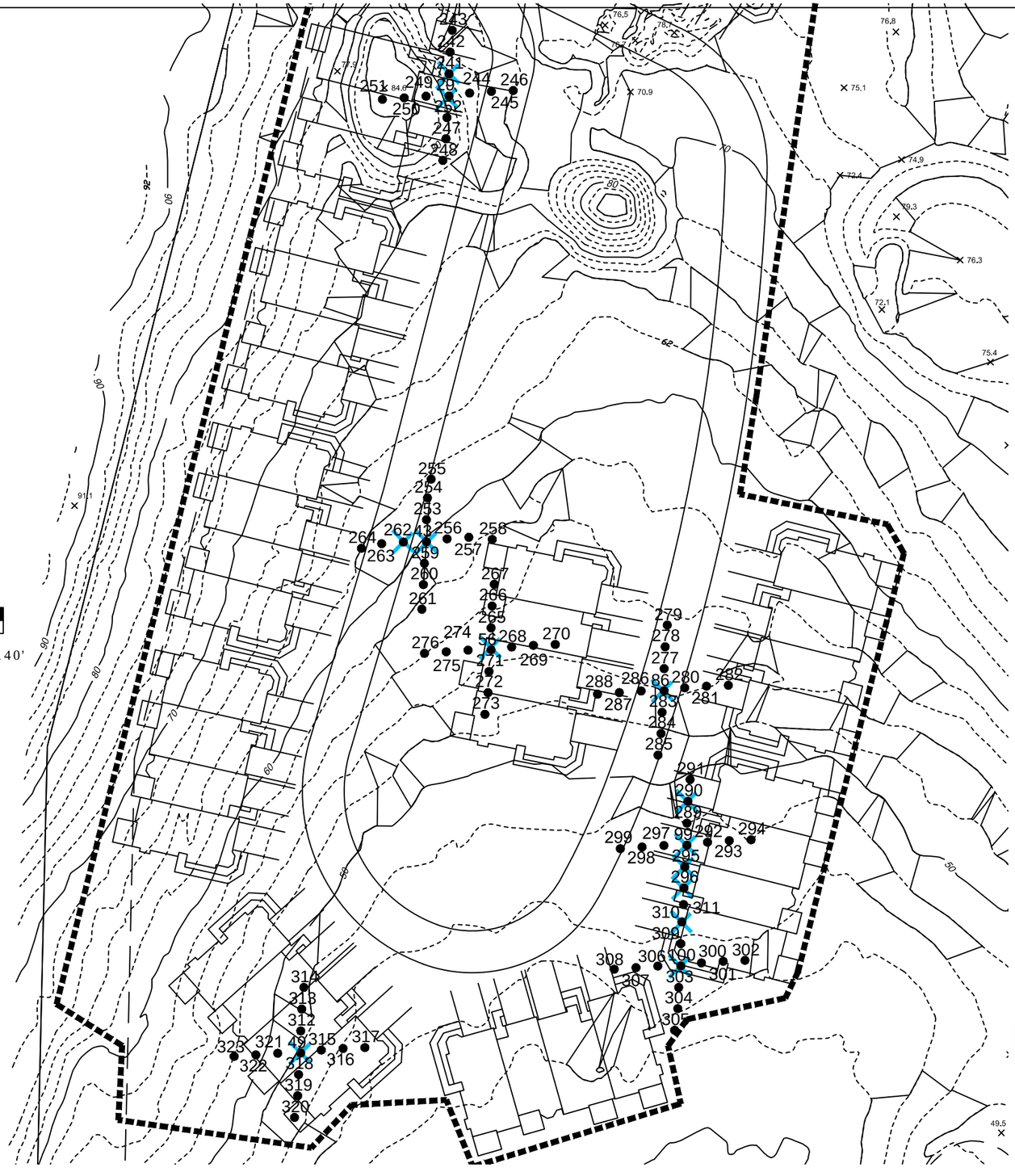
FIGURE 9: LOCATION OF PHASE 2 SHOVEL TESTS

- NEGATIVE SHOVEL TEST
- POSITIVE SHOVEL TEST W/PREHISTORIC ARTIFACTS

SCALE: 1 INCH = 70 FEET

140' 105' 70' 35' 0 70' 140'

NOTE: RADIAL SHOVEL TESTS ARE NOT TO SCALE



PROJECT NAME: INDIAN HILLS

TRACKER
Archaeology Services, Inc.
Tracking the Footsteps of the Ancestors

FIGURE 10: LOCATION OF TEST UNITS

TEST UNIT(TU)

PHOTO ANGLE

SCALE: 1 INCH = 12 FEET

24' 18' 12' 6' 0 12' 24'

290

TU3

99

296

TU4

TU1

1

310

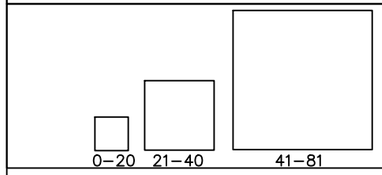
TU2

100

PROJECT NAME: INDIAN HILLS

TRACKER
Archaeology Services, Inc.
Tracking the Footsteps of the Ancestors

FIGURE 11: ARTIFACT DENSITY & DISTRIBUTION



PROJECT NAME: INDIAN HILLS

TRACKER
Archaeology Services, Inc.
Tracking the Footsteps of the Ancestors

FIGURE 12: PROFILES OF TEST UNITS 1 & 4

PROJECT NAME: INDIAN HILLS

TRACKER
Archaeology Services, Inc.
Tracking the Footsteps of the Ancestors

NORTH VIEW PROFILE- TEST UNITS 1 & 4

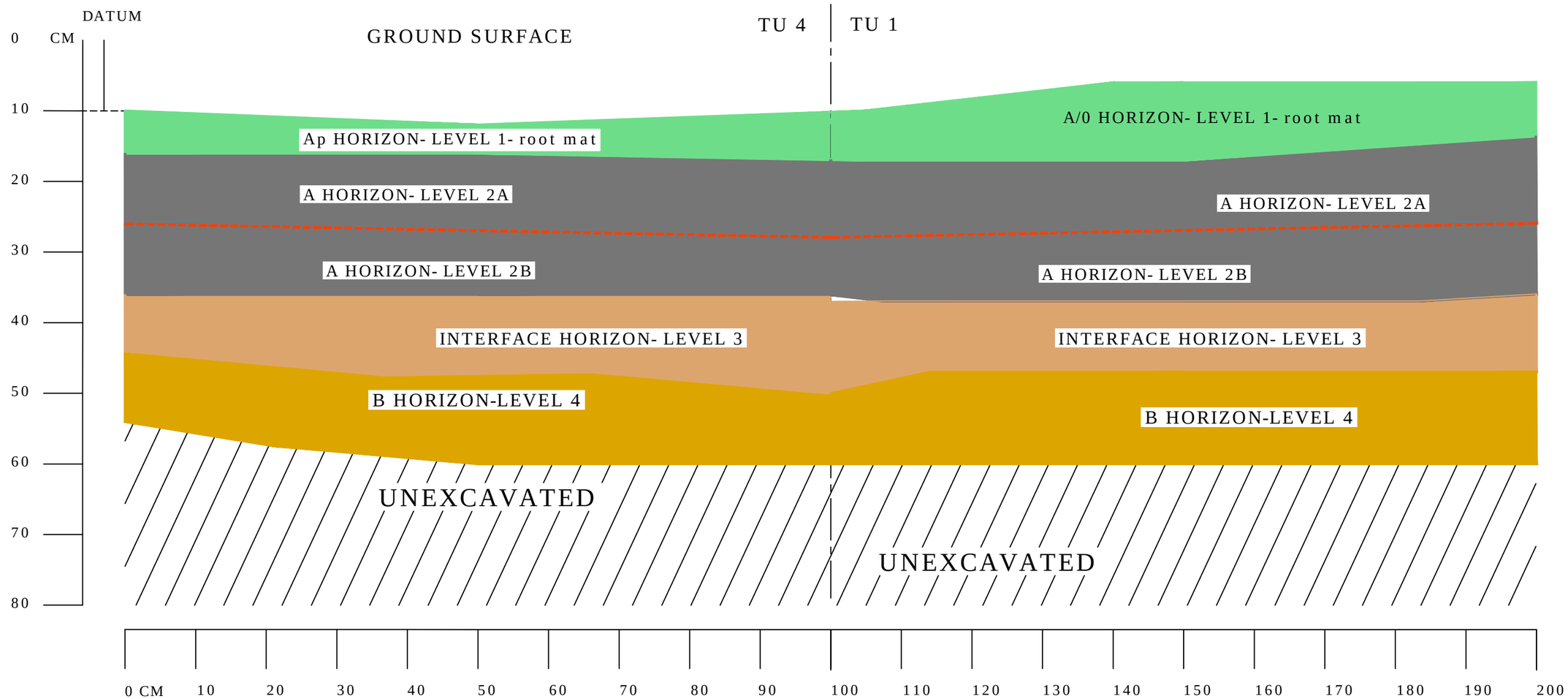


Photo 1
Looking from near ST 30

Photo 2

Looking from near ST 94

Photo 3

Looking north from near ST 41

Photo 4

Looking south from near ST 41

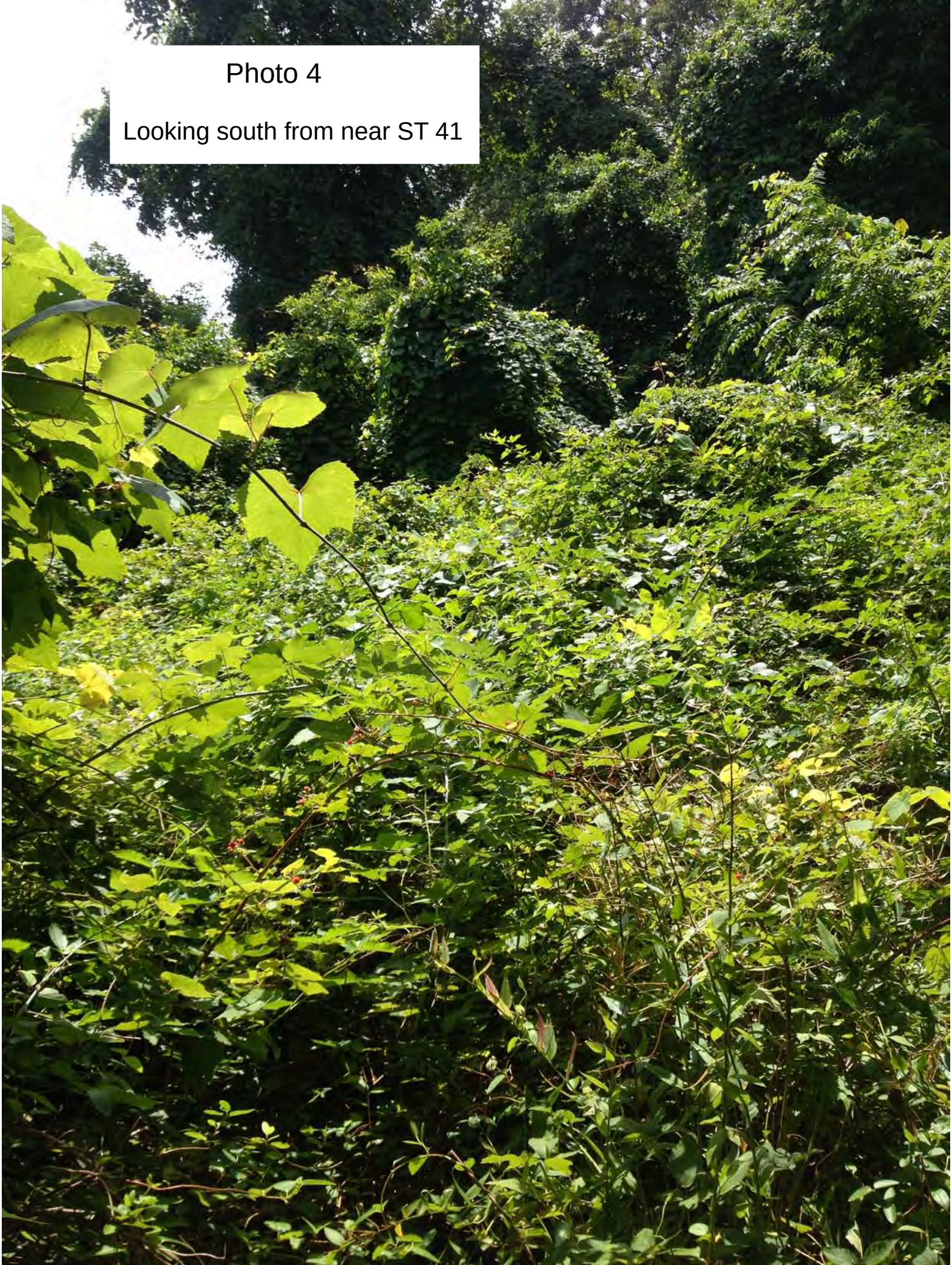



Photo 5
Looking west from near ST 142


Photo 6
Looking south from near ST 143

Photo 7

Looking east from maintenance parking

Photo 8

Looking south from maintenance parking

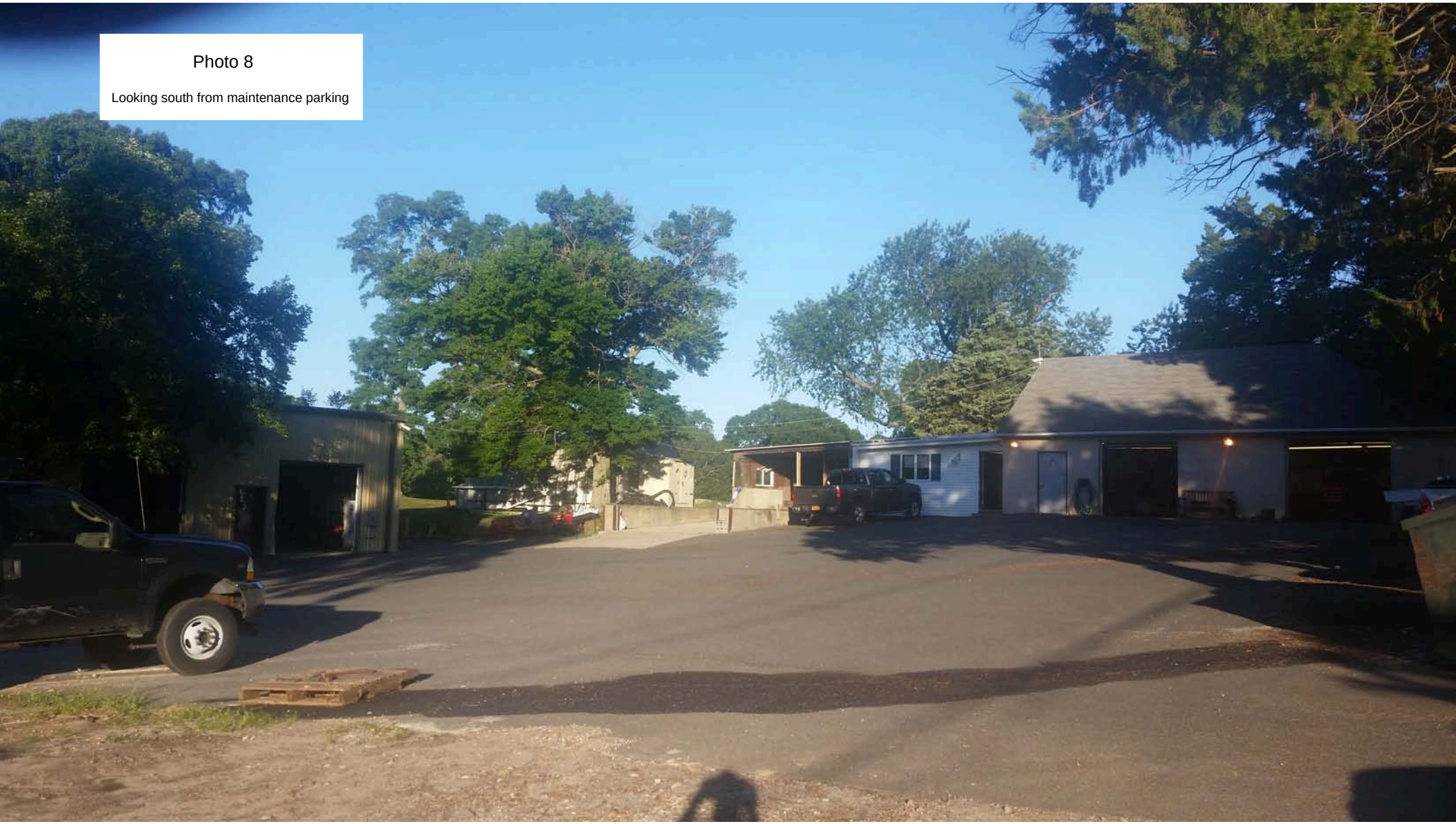



Photo 9
Looking north from ST 224


Photo 10
Looking east from ST 224

Photo 11

Looking SW at Phase II work in progress

Photo 12

TU's 1 & 4, North Wall

Photo 13

TU 2, North Wall

Photo 14

Rossville-like Point from TU 3

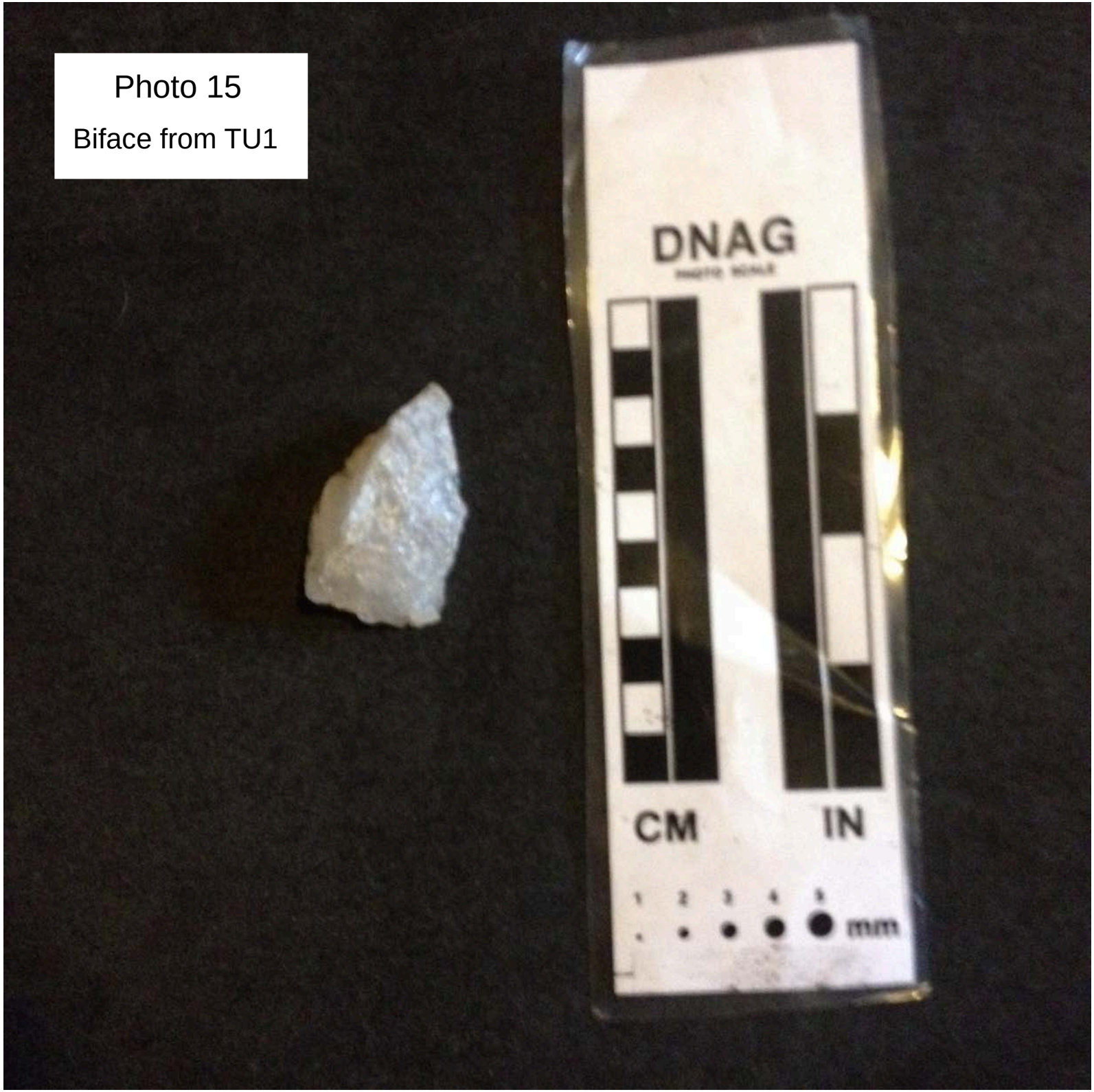


Photo 15
Biface from TU1
DNAG
CM
IN
mm

Photo 16

Point tip from TU 4

APPENDIX 2

SHOVEL TESTS

STP	LV	DEPTH(CM)	TEXTURE	COLOR	HOR	COMMENT
1	1	0-5	rootmat,leaves,humus		A/O	NCM
	2	5-20	LoSa	10YR4/3	A	NCM
	3	20-30	LoSa	10YR5/4	B	NCM
2	1	0-5	rootmat,leaves,humus		A/O	NCM
	2	4-21		10YR4/3	A	NCM
	3	21-32	LoSa	10YR5/4	B	NCM
3	1	0-5	rootmat,leaves,humus		A/O	NCM
	2	5-25	LoSa	10YR4/3	A	NCM
	3	25-37	LoSa	10YR5/4	B	NCM
4	1	0-6	rootmat,leaves,humus		A/O	NCM
	2	6-28	LoSa	10YR4/3	A	NCM
	3	28-39	LoSa	10YR5/4	B	NCM
5	1	0-5	rootmat,leaves,humus		A/O	NCM
	2	5-22	LoSa	10YR4/3	A	NCM
	3	22-35	LoSa	10YR5/4	B	NCM
6	1	0-5	rootmat,leaves,humus		A/O	NCM
	2	5-25	LoSa	10YR4/3	A	NCM
	3	25-35	LoSa	10YR5/4	B	NCM
7	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-23	LoSa	10YR4/3	A	NCM
	3	23-37	LoSa	10YR5/4	B	NCM .
8	1	0-6	rootmat,leaves,humus		A/O	NCM
	2	6-28	LoSa	10YR4/3	A	NCM
	3	28-38	LoSa	10YR5/4	B	NCM
9	1	0-6	rootmat,leaves,humus		A/O	NCM
	2	6-29	LoSa	10YR4/3	A	NCM
	3	29-40	LoSa	10YR5/4	B	NCM
10	1	0-7	rootmat,leaves,humus		A/O	NCM
	2	7-26	LoSa	10YR4/3	A	NCM
	3	26-37	LoSa	10YR5/4	B	NCM
11	1	0-7	rootmat,leaves,humus		A/O	NCM
	2	7-27	LoSa	10YR4/3	A	NCM
	3	27-37	LoSa	10YR5/4	B	NCM
12	1	0-8	rootmat,leaves,humus		A/O	NCM
	2	8-27	LoSa	10YR4/3	A	NCM
	3	27-37	LoSa	10YR5/4	B	NCM
13	1	0-6	rootmat,leaves,humus		A/O	NCM
	2	6-27	LoSa	10YR4/3	A	NCM
	3	27-38	LoSa	10YR5/4	B	NCM

14	1	0-6	rootmat,leaves,humus		A/O	NCM
	2	6-26	LoSa	10YR4/3	A	NCM
	3	60-40	LoSa	10YR5/4	B	NCM
15	1	0-7	rootmat,leaves,humus		A/O	NCM
	2	7-25	LoSa	10YR4/3	A	NCM
	3	25-37	LoSa	10YR5/4	B	NCM
16	1	0-8	rootmat,leaves,humus		A/O	NCM
	2	8-28	LoSa,gravel	10YR4/3	A	NCM
	3	28-40	LoSa,gravel	10YR5/4	B	NCM
17	1	0-8	rootmat,leaves,humus		A/O	NCM
	2	8-20	LoSa	10YR4/3	A	NCM
	3	20-30	LoSa	10YR5/4	B	NCM
18	1	0-9	rootmat,leaves,humus		A/O	NCM
	2	9-27	LoSa	10YR4/3	A	NCM
	3	27-37	LoSa	10YR5/4	B	NCM
19	1	0-8	rootmat,leaves,humus		A/O	NCM
	2	8-25	LoSa	10YR4/3	A	NCM
	3	25-35	LoSa	10YR5/4	B	NCM
20	1	0-6	rootmat,leaves,humus		A/O	NCM
	2	6-27	LoSa	10YR4/3	A	NCM
	3	27-37	LoSa	10YR5/4	B	NCM
21	1	0-8	rootmat,leaves,humus		A/O	NCM
	2	8-20	LoSa	10YR4/3	A	NCM
	3	20-30	LoSa	10YR5/4	B	NCM
22	1	0-10	rootmat,leaves,humus		A/O	NCM
	2	10-25	LoSa	10YR4/3	A	NCM
	3	25-35	LoSa	10YR5/4	B	NCM
23	1	0-9	rootmat,leaves,humus		A/O	NCM
	2	9-24	LoSa	10YR4/3	A	NCM
	3	24-36	LoSa	10YR5/4	B	NCM
24	1	0-6	rootmat,leaves,humus		A/O	NCM
	2	6-27	LoSa	10YR4/3	A	NCM
	3	27-37	LoSa	10YR5/4	B	NCM
25	1	0-7	rootmat,leaves,humus		A/O	NCM
	2	7-27	LoSa	10YR4/3	A	NCM
	3	27-37	LoSa	10YR5/4	B	NCM
26	1	0-6	rootmat,leaves,humus		A/O	NCM
	2	6-27	LoSa	10YR4/3	A	NCM
	3	27-38	LoSa	10YR5/4	B	NCM
27	1	0-5	rootmat,leaves,humus		A/O	NCM
	2	5-28	LoSa	10YR4/3	A	NCM
	3	28-38	LoSa	10YR5/4	B	NCM

28	1	0-6	rootmat,leaves,humus		A/O	NCM
	2	6-28	LoSa	10YR4/3	A	NCM
	3	28-39	LoSa	10YR5/4	B	NCM
29	1	0-6	rootmat,leaves,humus		A/O	NCM
	2	6-26	LoSa	10YR4/3	A	flake
	3	26-36	LoSa	10YR5/4	B	NCM

Note: near dirt road/OK

30	1	0-5	rootmat,leaves,humus		A/O	NCM
	2	5-25	LoSa	10YR4/3	A	NCM
	3	25-35	LoSa	10YR5/4	B	NCM
31	1	0-6	rootmat,leaves,humus		A/O	NCM
	2	6-26	LoSa	10YR4/3	A	NCM
	3	26-36	LoSa	10YR5/4	B	NCM
32	1	0-7	rootmat,leaves,humus		A/O	NCM
	2	7-27	LoSa	10YR4/3	A	NCM
	3	27-39	LoSa	10YR5/4	B	NCM
33	1	0-6	rootmat,leaves,humus		A/O	NCM
	2	6-28	LoSa	10YR4/3	A	NCM
	3	28-38	LoSa	10YR5/4	B	NCM
34	1	0-4	rootmat,leaves,humus		A/O	NCM
	2	4-21	LoSa	10YR4/3	A	NCM
	3	21-33	LoSa	10YR5/4	B	NCM
35	1	0-5	rootmat,leaves,humus		A/O	NCM
	2	5-24	LoSa	10YR4/3	A	NCM
	3	24-34	LoSa	10YR5/4	B	NCM
36	1	0-5	rootmat,leaves,humus		A/O	NCM
	2	5-18	LoSa	10YR4/3	A	NCM
	3	18-30	LoSa	10YR5/4	B	NCM
37	1	0-5	rootmat,leaves,humus		A/O	NCM
	2	5-19	LoSa	10YR4/3	A	NCM
	3	19-35	LoSa	10YR5/4	B	NCM
38	1	0-6	rootmat,leaves,humus		A/O	NCM
	2	6-20	LoSa	10YR4/3	A	NCM
	3	20-40	LoSa	10YR5/4	B	NCM
39	1	0-5	rootmat,leaves,humus		A/O	NCM
	2	5-26	LoSa	10YR4/3	A	NCM
	3	26-36	LoSa	10YR5/4	B	NCM
40	1	0-4	rootmat,leaves,humus		A/O	NCM
	2	4-21	LoSa	10YR4/3	A	NCM
	3	21-35	LoSa	10YR5/4	B	NCM

41	1	0-5	rootmat,leaves,humus		A/O	NCM
	2	5-16	LoSa	10YR4/3	A	NCM
	3	16-32	LoSa	10YR5/4	B	NCM
42	1	0-5	rootmat,leaves,humus		A/O	NCM
	2	5-17	LoSa	10YR4/3	A	NCM
	3	17-30	LoSa	10YR5/4	B	NCM
43	1	0-5	rootmat,leaves,humus		A/O	NCM
	2	5-23	LoSa	10YR4/3	A	blackglass drill/ UT flake
	3	23-33	LoSa	10YR5/4	B	NCM

Note: crawling on hands & knees east of deer trail

44	1	0-6	rootmat,leaves,humus		A/O	NCM
	2	6-17	LoSa	10YR4/3	A	NCM
	3	17-34	LoSa	10YR5/4	B	NCM
45	1	0-6	rootmat,leaves,humus		A/O	NCM
	2	6-18	LoSa	10YR4/3	A	NCM
	3	18-29	LoSa	10YR5/4	B	NCM
46	1	0-4	rootmat,leaves,humus		A/O	NCM
	2	4-18	LoSa	10YR4/3	A	NCM
	3	18-30	LoSa	10YR5/4	B	NCM
47	1	0-5	rootmat,leaves,humus		A/O	NCM
	2	5-19	LoSa	10YR4/3	A	NCM
	3	19-34	LoSa	10YR5/4	B	NCM
48	1	0-5	rootmat,leaves,humus		A/O	NCM
	2	5-20	LoSa	10YR4/3	A	NCM
	3	20-30	LoSa	10YR5/4	B	NCM
49	1	0-7	rootmat,leaves,humus		A/O	NCM
	2	7-18	LoSa	10YR4/3	A	small biface
	3	18-32	LoSa	10YR5/4	B	NCM
50	1	0-5	rootmat,leaves,humus		A/O	NCM
	2	5-16	LoSa	10YR4/3	A	NCM
	3	16-33	LoSa	10YR5/4	B	NCM
51	1	0-6	rootmat,leaves,humus		A/O	NCM
	2	6-26	LoSa	10YR4/3	A	NCM
	3	26-38	LoSa	10YR5/4	B	NCM
52	1	0-6	rootmat,leaves,humus		A/O	NCM
	2	6-26	LoSa	10YR4/3	A	NCM
	3	26-36	LoSa	10YR5/4	B	NCM
53	1	0-5	rootmat,leaves,humus		A/O	NCM
	2	5-23	LoSa	10YR4/3	A	NCM
	3	23-34	LoSa	10YR5/4	B	NCM

54	1	0-7	rootmat,leaves,humus		A/O	NCM
	2	7-21	LoSa	10YR4/3	A	NCM
	3	21-35	LoSa	10YR5/4	B	NCM
55	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-22	LoSa	10YR4/3	A	NCM
	3	22-32	LoSa	10YR5/4	B	NCM
56	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-25	LoSa	10YR4/3	A	flake
	3	25-35	LoSa	10YR5/4	B	NCM

Note: in large clearing (nice if you can get to it)

57	1	0-6	rootmat,leaves,humus		A/O	NCM
	2	6-18	LoSa	10YR4/3	A	NCM
	3	18-28	LoSa	10YR5/4	B	NCM
58	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-26	LoSa	10YR4/3	A	NCM
	3	26-39	LoSa	10YR5/4	B	NCM
59	1	0-4	rootmat,leaves,humus		A/O	NCM
	2	4-17	LoSa	10YR4/3	A	NCM
	3	17-38	LoSa	10YR5/4	B	NCM

Note: dumped wood to ST 62

60	1	0-2	rootmat,leaves,humus		A/O	NCM
	2	2-21	LoSa	10YR4/3	A	NCM
	3	21-32	LoSa	10YR5/4	B	NCM
61	1	0-5	rootmat,leaves,humus		A/O	NCM
	2	5-20	LoSa	10YR4/3	A	NCM
	3	20-31	LoSa	10YR5/4	B	NCM
62	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-24	LoSa	10YR4/3	A	NCM
	3	24-34	LoSa	10YR5/4	B	NCM
63	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-9	LoSa	10YR4/3	A	NCM
	3	9-29	LoSa	10YR5/4	B	NCM
64	1	0-4	rootmat,leaves,humus		A/O	NCM
	2	4-25	LoSa	10YR4/3	A	NCM
	3	25-45	LoSa	10YR5/4	B	NCM
65	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-25	LoSa	10YR4/3	A	NCM
	3	25-35	LoSa	10YR5/4	B	NCM
66	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-24	LoSa	10YR4/3	A	NCM
	3	24-35	LoSa	10YR5/4	B	NCM

67	1	0-7	rootmat,leaves,humus		A/O	NCM
	2	7-18	LoSa wood pellets..	10YR4/3	A	NCM
	3	18-28	LoSa	10YR5/4	B	NCM
68	1	0-6	rootmat,leaves,humus		A/O	NCM
	2	6-22	LoSa	10YR4/3	A	NCM
	3	22-34	LoSa	10YR5/4	B	NCM
69	1	0-6	rootmat,leaves,humus		A/O	NCM
	2	6-21	LoSa	10YR4/3	A	NCM
	3	21-33	LoSa	10YR5/4	B	NCM
70	1	0-8	rootmat,leaves,humus		A/O	NCM
	2	8-20	LoSa	10YR4/3	A	NCM
	3	20-40	LoSa	10YR5/4	B	NCM
71	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-21	LoSa	10YR4/3	A	NCM
	3	21-33	LoSa	10YR5/4	B	NCM
72	1	0-7	rootmat,leaves,humus		A/O	NCM
	2	7-22	LoSa	10YR4/3	A	NCM
	3	22-32	LoSa	10YR5/4	B	NCM
73	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-18	LoSa	10YR4/3	A	NCM
	3	18-28	LoSa	10YR5/4	B	NCM
74	1	0-5	rootmat,leaves,humus		A/O	NCM
	2	5-26	LoSa	10YR4/3	A	NCM
	3	26-38	LoSa	10YR5/4	B	NCM
75	1	0-5	rootmat,leaves,humus		A/O	NCM
	2	5-18	LoSa	10YR4/3	A	NCM
	3	18-29	LoSa	10YR5/4	B	NCM
76	1	0-6	rootmat,leaves,humus		A/O	NCM
	2	6-20	LoSa	10YR4/3	A	NCM
	3	20-31	LoSa	10YR5/4	B	NCM
77	1	0-6	rootmat,leaves,humus		A/O	NCM
	2	6-24	LoSa	10YR4/3	A	NCM
	3	24-34	LoSa	10YR5/4	B	NCM
78	1	0-5	rootmat,leaves,humus		A/O	NCM
	2	5-23	LoSa	10YR4/3	A	NCM
	3	23-33	LoSa	10YR5/4	B	NCM
79	1	0-7	rootmat,leaves,humus		A/O	NCM
	2	7-18	LoSa	10YR4/3	A	NCM
	3	18-30	LoSa	10YR5/4	B	NCM

80	1	0-5	rootmat,leaves,humus		A/O	NCM
	2	5-18	LoSa	10YR4/3	A	NCM
	3	18-30	LoSa	10YR5/4	B	NCM
81	1	0-6	rootmat,leaves,humus		A/O	NCM
	2	6-25	LoSa	10YR4/3	A	NCM
	3	25-35	LoSa	10YR5/4	B	NCM
82	1	0-2	rootmat,leaves,humus		A/O	NCM
	2	2-23	LoSa	10YR4/3	A	NCM
	3	23-38	LoSa	10YR5/4	B	NCM
83	1	0-5	rootmat,leaves,humus		A/O	NCM
	2	5-24	LoSa	10YR4/3	A	NCM
	3	24-36	LoSa	10YR5/4	B	NCM
84	1	0-4	rootmat,leaves,humus		A/O	NCM
	2	4-26	LoSa	10YR4/3	A	NCM
	3	26-38	LoSa	10YR5/4	B	NCM
85	1	0-5	rootmat,leaves,humus		A/O	NCM
	2	5-25	LoSa	10YR4/3	A	NCM
	3	25-37	LoSa	10YR5/4	B	NCM
86	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-27	LoSa	10YR4/3	A	flake
	3	27-40	LoSa	10YR5/4	B	NCM
87	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-19	LoSa	10YR4/3	A	NCM
	3	19-29	LoSa	10YR5/4	B	NCM
88	1	0-4	rootmat,leaves,humus		A/O	NCM
	2	4-26	LoSa	10YR4/3	A	NCM
	3	26-36	LoSa	10YR5/4	B	NCM
89	1	0-5	rootmat,leaves,humus		A/O	NCM
	2	5-20	LoSa	10YR4/3	A	NCM
	3	20-30	LoSa	10YR5/4	B	NCM
90	1	0-6	rootmat,leaves,humus		A/O	NCM
	2	6-24	LoSa	10YR4/3	A	NCM
	3	24-34	LoSa	10YR5/4	B	NCM
91	1	0-5	rootmat,leaves,humus		A/O	NCM
	2	5-22	LoSa	10YR4/3	A	NCM
	3	22-35	LoSa	10YR5/4	B	NCM
92	1	0-5	rootmat,leaves,humus		A/O	NCM
	2	5-22	LoSa	10YR4/3	A	NCM
	3	22-35	LoSa	10YR5/4	B	NCM

93	1	0-6	rootmat,leaves,humus		A/O	NCM
	2	6-21	Sa	10YR4/3-5/4	dumped	NCM
Note: on berm						
94	1	0-4	rootmat,leaves,humus		A/O	NCM
	2	4-19	LoSa	10YR4/3	A	NCM
	3	19-29	LoSa	10YR5/4	B	NCM
95	1	0-5	rootmat,leaves,humus		A/O	NCM
	2	5-25	LoSa	10YR4/3	A	NCM
	3	25-35	LoSa	10YR5/4	B	NCM
96	1	0-5	rootmat,leaves,humus		A/O	NCM
	2	5-18	LoSa	10YR4/3	A	NCM
	3	18-40	LoSa	10YR5/4	B	NCM
97	1	0-5	rootmat,leaves,humus		A/O	NCM
	2	5-25	LoSa	10YR4/3	A	NCM
	3	25-35	LoSa	10YR5/4	B	NCM
98	1	0-5	rootmat,leaves,humus		A/O	NCM
	2	5-20	LoSa	10YR4/3	A	NCM
	3	20-35	LoSa	10YR5/4	B	NCM
99	1	0-5	rootmat,leaves,humus		A/O	NCM
	2	5-22	LoSa	10YR4/3	A	black glass UT flake
	3	22-35	LoSa	10YR5/4	B	NCM
100	1	0-5	rootmat,leaves,humus		A/O	NCM
	2	5-22	LoSa	10YR4/3	A	flake
	3	22-35	LoSa	10YR5/4	B	NCM
101	1	0-4	rootmat,leaves,humus		A/O	NCM
	2	4-21	LoSa	10YR4/3	A	NCM
	3	21-32	LoSa	10YR5/4	B	NCM
102	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-21	LoSa	10YR4/3	A	NCM
	3	21-32	LoSa	10YR5/4	B	NCM
103	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-17	LoSa	10YR4/3	A	NCM
	3	17-27	LoSa	10YR5/4	B	NCM
104	1	0-5	rootmat,leaves,humus		A/O	NCM
	2	5-21	LoSa	10YR4/3	A	NCM
	3	22-35	LoSa	10YR5/4	B	NCM
105	1	0-6	rootmat,leaves,humus		A/O	NCM
	2	6-24	LoSa	10YR4/3	A	NCM
	3	24-36	LoSa	10YR5/4	B	NCM

106	1	0-5	rootmat,leaves,humus		A/O	NCM
	2	5-15	LoSa	10YR4/3	A	NCM
	3	15-25	LoSa	10YR5/4	B	NCM
107	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-20	LoSa	10YR4/3	A	NCM
	3	20-35	LoSa	10YR5/4	B	NCM
108	1	0-4	rootmat,leaves,humus		A/O	NCM
	2	4-20	LoSa	10YR4/3	A	NCM
	3	20-34	LoSa	10YR5/4	B	NCM
109	1	0-5	rootmat,leaves,humus		A/O	NCM
	2	5-26	LoSa	10YR4/3	A	NCM
	3	26-36	LoSa	10YR5/4	B	NCM
110	1	0-5	rootmat,leaves,humus		A/O	NCM
	2	5-23	LoSa	10YR4/3	A	NCM
	3	23-38	LoSa	10YR5/4	B	NCM
111	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-21	LoSa	10YR4/3	A	NCM
	3	21-32	LoSa	10YR5/4	B	NCM
112	1	0-5	rootmat,leaves,humus		A/O	NCM
	2	5-17	LoSa	10YR4/3	A	NCM
	3	17-28	LoSa	10YR5/4	B	NCM
113	1	0-4	rootmat,leaves,humus		A/O	NCM
	2	4-13	LoSa	10YR4/3	A	NCM
	3	13-24	LoSa	10YR5/4	B	NCM
114	1	0-5	rootmat,leaves,humus		A/O	NCM
	2	5-15	LoSa	10YR4/3	A	NCM
	3	15-28	LoSa	10YR5/4	B	NCM
115	1	0-7	rootmat,leaves,humus		A/O	NCM
	2	7-19	LoSa	10YR4/3	A	NCM
	3	19-39	LoSa	10YR5/4	B	NCM
116	1	0-5	rootmat,leaves,humus		A/O	NCM
	2	5-14	LoSa	10YR4/3	A	NCM
	3	14-28	LoSa	10YR5/4	B	NCM
117	1	0-5	rootmat,leaves,humus		A/O	NCM
	2	5-17	LoSa	10YR4/3	A	NCM
	3	17-29	LoSa	10YR5/4	B	NCM
118	1	0-5	rootmat,leaves,humus		A/O	NCM
	2	5-18	LoSa	10YR4/3	A	NCM
	3	18-28	LoSa	10YR5/4	B	NCM

119	1	0-8	rootmat,leaves,humus		A/O	NCM
	2	8-18	LoSa	10YR4/3	A	NCM
	3	18-39	LoSa	10YR5/4	B	NCM
120	1	0-7	rootmat,leaves,humus		A/O	NCM
	2	7-17	LoSa	10YR4/3	A	NCM
	3	17-37	LoSa	10YR5/4	B	NCM
121	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-10	LoSa	10YR4/3	A	NCM
	3	10-30	LoSa	10YR5/4	B	NCM
122	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-16	LoSa	10YR4/3	A	NCM
	3	16-37	LoSa	10YR5/4	B	NCM
123	1	0-5	rootmat,leaves,humus		A/O	NCM
	2	5-17	LoSa	10YR4/3	A	NCM
	3	17-28	LoSa	10YR5/4	B	NCM
124	1	0-5	rootmat,leaves,humus		A/O	NCM
	2	5-14	LoSa	10YR4/3	A	NCM
	3	47-28	LoSa	10YR5/4	B	NCM
125	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-16	LoSa	10YR4/3	A	NCM
	3	16-27	LoSa	10YR5/4	B	NCM
126	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-13	LoSa	10YR4/3	A	NCM
	3	13-25	LoSa	10YR5/4	B	NCM
127	1	0-4	rootmat,leaves,humus		A/O	NCM
	2	4-12	LoSa	10YR4/3	A	NCM
	3	12-33	LoSa	10YR5/4	B	NCM
128	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-9	LoSa	10YR4/3	A	NCM
	3	9-20	LoSa	10YR5/4	B	NCM
129	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-14	LoSa	10YR4/3	A	NCM
	3	14-30	LoSa	10YR5/4	B	NCM
130	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-10	LoSa	10YR4/3	A	NCM
	3	10-25	LoSa	10YR5/4	B	NCM
131	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-11	LoSa	10YR4/3	A	NCM
	3	11-31	LoSa	10YR5/4	B	NCM

132	1	0-5	rootmat,leaves,humus		A/O	NCM
	2	5-17	LoSa	10YR4/3	A	NCM
	3	17-28	LoSa	10YR5/4	B	NCM
133	1	0-5	rootmat,leaves,humus		A/O	NCM
	2	5-17	LoSa	10YR4/3	A	NCM
	3	17-27	LoSa	10YR5/4	B	NCM
134	1	0-5	rootmat,leaves,humus		A/O	NCM
	2	5-17	LoSa	10YR4/3	A	NCM
	3	17-30	LoSa	10YR5/4	B	NCM
135	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-11	LoSa	10YR4/3	A	NCM
	3	11-21	LoSa	10YR5/4	B	NCM
136	1	0-4	rootmat,leaves,humus		A/O	NCM
	2	4-12	LoSa,gravel	10YR4/3	A	NCM
	3	12-22	LoSa,gravel	10YR5/4	B	NCM
137	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-10	LoSa	10YR4/3	A	NCM
	3	10-25	LoSa	10YR5/4	B	NCM
138	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-17	LoSa	10YR4/3	A	NCM
	3	17-30	LoSa	10YR5/4	B	NCM
139	1	0-5	rootmat,leaves,humus		A/O	NCM
	2	5-16	LoSa	10YR4/3	A	NCM
	3	16-26	LoSa	10YR5/4	B	NCM
140	1	0-6	rootmat,leaves,humus		A/O	NCM
	2	6-10	LoSa	10YR4/3	A	NCM
	3	10-20	LoSa	10YR5/4	B	NCM
141	1	0-6	rootmat,leaves,humus		A/O	NCM
	2	6-11	LoSa	10YR4/3	A	NCM
	3	11-31	LoSa	10YR5/4	B	NCM
142	1	0-6	rootmat,leaves,humus		A/O	NCM
	2	6-19	LoSa	10YR4/3	A	NCM
	3	19-29	LoSa	10YR5/4	B	NCM
143	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-17	LoSa	10YR4/3	A	NCM
	3	17-30	LoSa	10YR5/4	B	NCM
144	1	0-2	rootmat,leaves,humus		A/O	NCM
	2	2-15	LoSa	10YR4/3	A	NCM
	3	15-36	LoSa	10YR5/4	B	NCM

145	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-13	LoSa	10YR4/3	A	NCM
	3	13-33	LoSa	10YR5/4	B	NCM
146	1	0-1	rootmat,leaves,humus		A/O	NCM
	2	1-19	LoSa	10YR4/3	A	NCM
	3	19-39	LoSa	10YR5/4	B	NCM
147	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-13	LoSa	10YR4/3	A	NCM
	3	13-30	LoSa	10YR5/4	B	NCM
148	1	0-2	rootmat,leaves,humus		A/O	NCM
	2	2-18	LoSa	10YR4/3	A	NCM
	3	18-28	LoSa	10YR5/4	B	NCM
149	1	0-2	rootmat,leaves,humus		A/O	NCM
	2	2-12	LoSa	10YR4/3	A	NCM
	3	12-25	LoSa	10YR5/4	B	NCM
150	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-14	LoSa	10YR4/3	A	NCM
	3	14-26	LoSa	10YR5/4	B	NCM
151	1	0-1	rootmat,leaves,humus		A/O	NCM
	2	1-10	LoSa	10YR4/3	A	NCM
	3	10-25	LoSa	10YR5/4	B	NCM
152	1	0-2	rootmat,leaves,humus		A/O	NCM
	2	2-15	LoSa	10YR4/3	A	NCM
	3	15-35	LoSa	10YR5/4	B	NCM
153	1	0-6	rootmat,leaves,humus		A/O	NCM
	2	6-17	LoSa	10YR4/3	A	NCM
	3	17-30	LoSa	10YR5/4	B	NCM
154	1	0-2	rootmat,leaves,humus		A/O	NCM
	2	2-7	LoSa	10YR4/3	A	NCM
	3	7-27	LoSa	10YR5/4	B	NCM
155	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-18	LoSa	10YR4/3	A	NCM
	3	18-28	LoSa	10YR5/4	B	NCM
156	1	0-2	rootmat,leaves,humus		A/O	NCM
	2	2-20	LoSa	10YR4/3	A	NCM
	3	20-30	LoSa	10YR5/4	B	NCM
157	1	0-5	rootmat,leaves,humus		A/O	NCM
	2	5-17	LoSa	10YR4/3	A	NCM
	3	17-30	LoSa	10YR5/4	B	NCM

158	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-20	LoSa	10YR4/3	A	NCM
	3	20-33	LoSa	10YR5/4	B	NCM
159	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-18	LoSa	10YR4/3	A	NCM
	3	18-40	LoSa	10YR5/4	B	NCM
160	1	0-4	rootmat,leaves,humus		A/O	NCM
	2	4-12	LoSa	10YR4/3	A	NCM
	3	12-22	LoSa	10YR5/4	B	NCM
161	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-9	LoSa	10YR4/3	A	NCM
	3	9-24	LoSa	10YR5/4	B	NCM
162	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-22	LoSa	10YR4/3	A	NCM
	3	22-32	LoSa	10YR5/4	B	NCM
163	1	0-5	rootmat,leaves,humus		A/O	NCM
	2	5-12	LoSa	10YR4/3	A	NCM
	3	12-25	LoSa	10YR5/4	B	NCM
164	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-9	LoSa	10YR4/3	A	NCM
	3	9-25	LoSa	10YR5/4	B	NCM
165	1	0-2	rootmat,leaves,humus		A/O	NCM
	2	2-14	LoSa	10YR4/3	A	NCM
	3	14-30	LoSa	10YR5/4	B	NCM
166	1	0-4	rootmat,leaves,humus		A/O	NCM
	2	4-13	LoSa	10YR4/3	A	NCM
	3	13-23	LoSa	10YR5/4	B	NCM
167	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-17	LoSa	10YR4/3	A	NCM
	3	17-30	LoSa	10YR5/4	B	NCM
168	1	0-5	rootmat,leaves,humus		A/O	NCM
	2	5-21	LoSa	10YR4/3	A	NCM
	3	21-31	LoSa	10YR5/4	B	NCM
169	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-13	LoSa	10YR4/3	A	NCM
	3	13-35	LoSa	10YR5/4	B	NCM
170	1	0-2	rootmat,leaves,humus		A/O	NCM
	2	2-12	LoSa	10YR4/3	A	NCM
	3	12-30	LoSa	10YR5/4	B	NCM

171	1	0-6	rootmat,leaves,humus		A/O	NCM
	2	6-22	LoSa	10YR4/3	A	NCM
	3	22-35	LoSa	10YR5/4	B	NCM
172	1	0-8	rootmat,leaves,humus		A/O	NCM
	2	8-17	LoSa	10YR4/3	A	NCM
	3	17-35	LoSa	10YR5/4	B	NCM
173	1	0-2	rootmat,leaves,humus		A/O	NCM
	2	2-15	LoSa	10YR4/3	A	NCM
	3	15-30	LoSa	10YR5/4	B	NCM
174	1	0-7	rootmat,leaves,humus		A/O	NCM
	2	7-23	LoSa	10YR4/3	A	NCM
	3	23-34	LoSa	10YR5/4	B	NCM
175	1	0-6	rootmat,leaves,humus		A/O	NCM
	2	6-17	LoSa	10YR4/3	A	NCM
	3	17-27	LoSa	10YR5/4	B	NCM
176	1	0-7	rootmat,leaves,humus		A/O	NCM
	2	7-19	LoSa	10YR4/3	A	NCM
	3	19-29	LoSa	10YR5/4	B	NCM
177	1	0-6	rootmat,leaves,humus		A/O	NCM
	2	6-14	LoSa	10YR4/3	A	NCM
	3	14-28	LoSa	10YR5/4	B	NCM
178	1	0-8	rootmat,leaves,humus		A/O	NCM
	2	8-17	LoSa	10YR4/3	A	NCM
	3	17-28	LoSa	10YR5/4	B	NCM
179	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-18	LoSa	10YR4/3	A	NCM
	3	18-30	LoSa	10YR5/4	B	NCM
180	1	0-2	rootmat,leaves,humus		A/O	NCM
	2	2-16	LoSa	10YR4/3	A	NCM
	3	16-28	LoSa	10YR5/4	B	NCM
181	1	0-5	rootmat,leaves,humus		A/O	NCM
	2	5-15	LoSa	10YR4/3	A	NCM
	3	15-30	LoSa	10YR5/4	B	NCM
182	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-11	LoSa	10YR4/3	A	NCM
	3	11-23	LoSa	10YR5/4	B	NCM
183	1	0-7	rootmat,leaves,humus		A/O	NCM
	2	7-19	LoSa	10YR4/3	A	NCM
	3	19-30	LoSa	10YR5/4	B	NCM

184	1	0-6	rootmat,leaves,humus		A/O	NCM
	2	6-17	LoSa	10YR4/3	A	NCM
	3	17-28	LoSa	10YR5/4	B	NCM
185	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-11	LoSa	10YR4/3	A	NCM
	3	11-23	LoSa	10YR5/4	B	NCM
186	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-7	LoSa	10YR4/3	A	NCM
	3	7-9,rocks	LoSa	10YR5/4	B	NCM
187	1	0-5	rootmat,leaves,humus		A/O	NCM
	2	5-17	LoSa	10YR4/3	A	NCM
	3	17-28	LoSa	10YR5/4	B	NCM
188	1	0-6	rootmat,leaves,humus		A/O	NCM
	2	6-20	LoSa	10YR4/3	A	NCM
	3	20-rocks				
189	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-15	LoSa	10YR4/3	A	NCM
	3	15-25	LoSa	10YR5/4	B	NCM
190	1	0-4	rootmat,leaves,humus		A/O	NCM
	2	4-14	LoSa	10YR4/3	A	NCM
	3	14-24	LoSa	10YR5/4	B	NCM
191	1	0-7	rootmat,leaves,humus		A/O	NCM
	2	7-19	LoSa	10YR4/3	A	NCM
	3	19-29	LoSa	10YR5/4	B	NCM
192	1	0-6	rootmat,leaves,humus		A/O	NCM
	2	6-18	LoSa	10YR4/3	A	NCM
	3	18-34	LoSa	10YR5/4	B	NCM
193	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-16	LoSa	10YR4/3	A	NCM
	3	16-27	LoSa	10YR5/4	B	NCM
194	1	0-6	rootmat,leaves,humus		A/O	NCM
	2	6-12	LoSa	10YR4/3	A	NCM
	3	12-22	LoSa	10YR5/4	B	NCM
195	1	0-2	rootmat,leaves,humus		A/O	NCM
	2	2-11	LoSa	10YR4/3	A	NCM
	3	11-24	LoSa	10YR5/4	B	NCM
196	1	0-7	rootmat,leaves,humus		A/O	NCM
	2	7-23	LoSa	10YR4/3	A	NCM
	3	23-35	LoSa	10YR5/4	B	NCM

197	1	0-2	rootmat,leaves,humus		A/O	NCM
	2	2-7	LoSa	10YR4/3	A	NCM
	3	7-25	LoSa	10YR5/4	B	NCM
198	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-11	LoSa	10YR4/3	A	NCM
	3	11-23	LoSa	10YR5/4	B	NCM
199	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-15	LoSa	10YR4/3	A	NCM
	3	15-25	LoSa	10YR5/4	B	NCM
200	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-11	LoSa	10YR4/3	A	NCM
	3	11-23	LoSa	10YR5/4	B	NCM
201	1	0-2	rootmat,leaves,humus		A/O	NCM
	2	2-17	LoSa	10YR4/3	A	NCM
	3	17-29	LoSa	10YR5/4	B	NCM
202	1	0-2	rootmat,leaves,humus		A/O	NCM
	2	2-12	LoSa	10YR4/3	A	NCM
	3	12-26	LoSa	10YR5/4	B	NCM
203	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-18	LoSa	10YR4/3	A	NCM
	3	18-28	LoSa	10YR5/4	B	NCM
204	1	0-2	rootmat,leaves,humus		A/O	NCM
	2	2-13	LoSa	10YR4/3	A	NCM
	3	13-23	LoSa	10YR5/4	B	NCM
205	1	0-5	rootmat,leaves,humus		A/O	NCM
	2	5-15	LoSa	10YR4/3	A	NCM
	3	15-26	LoSa	10YR5/4	B	NCM
206	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-14	LoSa	10YR4/3	A	NCM
	3	14-26	LoSa	10YR5/4	B	NCM
207	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-18	LoSa	10YR4/3	A	NCM
	3	18-30	LoSa	10YR5/4	B	NCM
208	1	0-4	rootmat,leaves,humus		A/O	NCM
	2	4-17	LoSa	10YR4/3	A	NCM
	3	17-30	LoSa	10YR5/4	B	NCM
209	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-27	LoSa	10YR4/3	A	NCM
	3	27-40	LoSa	10YR5/4	B	NCM

210	1	0-2	rootmat,leaves,humus		A/O	NCM
	2	2-16	LoSa	10YR4/3	A	NCM
	3	16-38	LoSa	10YR5/4	B	NCM
211	1	0-5	rootmat,leaves,humus		A/O	NCM
	2	5-16	LoSa	10YR4/3	A	NCM
	3	16-33	LoSa	10YR5/4	B	NCM
212	1	0-6	rootmat,leaves,humus		A/O	NCM
	2	6-17	LoSa	10YR4/3	A	NCM
	3	17- 27	LoSa	10YR5/4	B	NCM
213	1	0-6	rootmat,leaves,humus		A/O	NCM
	2	6-16	LoSa	10YR4/3	A	NCM
	3	16-36	LoSa	10YR5/4	B	NCM
214	1	0-4	rootmat,leaves,humus		A/O	NCM
	2	4-19	LoSa	10YR4/3	A	NCM
	3	19-29	LoSa	10YR5/4	B	NCM
215	1	0-5	rootmat,leaves,humus		A/O	NCM
	2	5-15	LoSa	10YR4/3	A	NCM
	3	15-25	LoSa	10YR5/4	B	NCM
216	1	0-5	rootmat,leaves,humus		A/O	NCM
	2	5-15	LoSa	10YR4/3	A	NCM
	3	15-25	LoSa	10YR5/4	B	NCM
217	1	0-4	rootmat,leaves,humus		A/O	NCM
	2	4-20	LoSa	10YR4/3	A	NCM
	3	20-30	LoSa	10YR5/4	B	NCM
218	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-16	LoSa	10YR4/3	A	NCM
	3	16-26	LoSa	10YR5/4	B	NCM
219	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-18	LoSa	10YR4/3	A	NCM
	3	18-40	LoSa	10YR5/4	B	NCM
220	1	0-4	rootmat,leaves,humus		A/O	NCM
	2	4-14	LoSa	10YR4/3	A	NCM
	3	14-35	LoSa	10YR5/4	B	NCM
221	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-18	LoSa	10YR4/3	A	NCM
	3	18-38	LoSa	10YR5/4	B	NCM
222	1	0-4	rootmat,leaves,humus		A/O	NCM
	2	4-15	LoSa	10YR4/3	A	NCM
	3	15-27	LoSa	10YR5/4	B	NCM

223	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-15	LoSa	10YR4/3	A	NCM
	3	15-25	LoSa	10YR5/4	B	NCM
224	1	0-2	rootmat,leaves,humus		A/O	NCM
	2	2-10	LoSa	10YR4/3	A	NCM
	3	10-25	LoSa	10YR5/4	B	NCM
225	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-9	LoSa	10YR4/3	A	NCM
	3	9-20	LoSa	10YR5/4	B	NCM
226	1	0-2	rootmat,leaves,humus		A/O	NCM
	2	2-13	LoSa	10YR4/3	A	NCM
	3	13-25	LoSa	10YR5/4	B	NCM
227	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-9	LoSa	10YR4/3	A	NCM
	3	9-23	LoSa	10YR5/4	B	NCM
228	1	0-2	rootmat,leaves,humus		A/O	NCM
	2	2-16	LoSa	10YR4/3	A	NCM
	3	16- 26	LoSa	10YR5/4	B	NCM
229	1	0-5	rootmat,leaves,humus		A/O	NCM
	2	5-13	LoSa	10YR4/3	A	NCM
	3	13-23	LoSa	10YR5/4	B	NCM
230	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-14	LoSa	10YR4/3	A	NCM
	3	4-30	LoSa	10YR5/4	B	NCM
231	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-22	LoSa	10YR4/3	A	NCM
	3	22-34	LoSa	10YR5/4	B	NCM
232	1	0-4	rootmat,leaves,humus		A/O	NCM
	2	4-14	LoSa	10YR4/3	A	NCM
	3	14-24	LoSa	10YR5/4	B	NCM
233	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-17	LoSa	10YR4/3	A	NCM
	3	17-27	LoSa	10YR5/4	B	NCM
234	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-15	LoSa	10YR4/3	A	NCM
	3	15-35	LoSa	10YR5/4	B	NCM
235	1	0-5	rootmat,leaves,humus		A/O	NCM
	2	5-14	LoSa	10YR4/3	A	NCM
	3	14-30	LoSa	10YR5/4	B	NCM

236	1	0-5	rootmat,leaves,humus		A/O	NCM
	2	5-16	LoSa	10YR4/3	A	NCM
	3	15-35	LoSa	10YR5/4	B	NCM
237	1	0-5	rootmat,leaves,humus		A/O	NCM
	2	5-14	LoSa	10YR4/3	A	NCM
	3	14-30	LoSa	10YR5/4	B	NCM
238	1	0-4	rootmat,leaves,humus		A/O	NCM
	2	4-19	LoSa	10YR4/3	A	NCM
	3	19-29	LoSa	10YR5/4	B	NCM
239	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-13	LoSa	10YR4/3	A	NCM
	3	13-23	LoSa	10YR5/4	B	NCM
240	1	0-5	rootmat,leaves,humus		A/O	NCM
	2	5-11	LoSa	10YR4/3	A	NCM
	3	11-30	LoSa	10YR5/4	B	NCM

Radials:

241	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-29	LoSa	10YR4/3	A	biface?
	3	29-41	LoSa	10YR5/4	B	NCM
242	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-30	LoSa	10YR4/3	A	NCM
	3	30-43	LoSa	10YR5/4	B	NCM
243	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-26	LoSa	10YR4/3	A	NCM
	3	26-38	LoSa	10YR5/4	B	NCM
244	1	0-7	rootmat,leaves,humus		A/O	NCM
	2	7-29	LoSa	10YR4/3	A	NCM
	3	29-40	LoSa	10YR5/4	B	NCM
245	1	0-2	rootmat,leaves,humus		A/O	NCM
	2	2-25	LoSa	10YR4/3	A	NCM
	3	25-39	LoSa	10YR5/4	B	NCM
246	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-19	LoSa	10YR4/3	A	NCM
	3	19-33	LoSa	10YR5/4	B	NCM
247	2	0-28	LoSa	10YR4/3	A	NCM
	3	28-40	LoSa	10YR5/4	B	NCM
248	2	0-29	LoSa	10YR4/3	A	NCM
	3	29-41	LoSa	10YR5/4	B	NCM
249	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-27	LoSa	10YR4/3	A	NCM
	3	27-49	LoSa	10YR5/4	B	NCM

250	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-29	LoSa	10YR4/3	A	NCM
	3	29-41	LoSa	10YR5/4	B	NCM
251	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-27	LoSa	10YR4/3	A	NCM
	3	27-41	LoSa	10YR5/4	B	NCM
252	1	0-2	rootmat,leaves,humus		A/O	NCM
	2	2-23	LoSa	10YR4/3	A	NCM
	3	23-43	LoSa	10YR5/4	B	NCM
253	1	0-5	rootmat,leaves,humus		A/O	NCM
	2	5-23	LoSa	10YR4/3	A	NCM
	3	23-34	LoSa	10YR5/4	B	NCM
254	1	0-2	rootmat,leaves,humus		A/O	NCM
	2	2-33	LoSa	10YR4/3	A	NCM
	3	33-43	LoSa	10YR5/4	B	NCM
255	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-31	LoSa	10YR4/3	A	undec ww, coal
	3	31-43	LoSa	10YR5/4	B	NCM
256	1	0-4	rootmat,leaves,humus		A/O	NCM
	2	4-20	LoSa	10YR4/3	A	plastic
	3	20-37	LoSa	10YR5/4	B	NCM
257	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-23	LoSa	10YR4/3	A	NCM
	3	23-roots				
258	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-47	LoSa mottled	10YR4/3-5/4	A	coal
	3	47-58	LoSa	10YR5/4	B	NCM
259	1	0-5	rootmat,leaves,humus		A/O	NCM
	2	5-36	LoSa	10YR4/3	A	NCM
	3	36-48	LoSa	10YR5/4	B	NCM
260	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-31	LoSa	10YR4/3	A	NCM
	3	31-root				
261	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-34	LoSa	10YR4/3	A	NCM
	3	34-44	LoSa	10YR5/4	B	NCM
262	1	0-4	rootmat,leaves,humus		A/O	NCM
	2	4-29	LoSa	10YR4/3	A	flake
	3	29-41	LoSa	10YR5/4	B	NCM

263	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-30	LoSa	10YR4/3	A	NCM
	3	30-42	LoSa	10YR5/4	B	NCM
264	1	0-2	rootmat,leaves,humus		A/O	NCM
	2	2-25	LoSa	10YR4/3	A	NCM
	3	25-38	LoSa	10YR5/4	B	NCM
265	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-26	LoSa	10YR4/3	A	NCM
	3	26-36	LoSa	10YR5/4	B	NCM
266	1	0-2	rootmat,leaves,humus		A/O	NCM
	2	2-40	LoSa	10YR4/3	A	NCM
	3	40-53	LoSa	10YR5/4	B	NCM
267	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-26	LoSa	10YR4/3	A	NCM
	3	26-36	LoSa	10YR5/4	B	NCM
268	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-25	LoSa	10YR4/3	A	NCM
	3	25-36	LoSa	10YR5/4	B	NCM
269	1	0-2	rootmat,leaves,humus		A/O	NCM
	2	2-27	LoSa	10YR4/3	A	NCM
	3	27-37	LoSa	10YR5/4	B	NCM
270	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-30	LoSa	10YR4/3	A	NCM
	3	30-42	LoSa	10YR5/4	B	NCM
271	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-30	LoSa	10YR4/3	A	NCM
	3	30-42	LoSa	10YR5/4	B	NCM
272	1	0-2	rootmat,leaves,humus		A/O	NCM
	2	2-22	LoSa	10YR4/3	A	NCM
	3	22-32	LoSa	10YR5/4	B	NCM
273	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-30	LoSa	10YR4/3	A	NCM
	3	30-41	LoSa	10YR5/4	B	NCM
274	1	0-2	rootmat,leaves,humus		A/O	NCM
	2	2-23	LoSa	10YR4/3	A	NCM
	3	23-33	LoSa	10YR5/4	B	NCM
275	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-32	LoSa	10YR4/3	A	NCM
	3	32-44	LoSa	10YR5/4	B	NCM

276	1	0-2	rootmat,leaves,humus		A/O	NCM
	2	2-26	LoSa	10YR4/3	A	NCM
	3	26-38	LoSa	10YR5/4	B	NCM
277	1	0-5	rootmat,leaves,humus		A/O	NCM
	2	5-31	LoSa	10YR4/3	A	NCM
	3	31-42	LoSa	10YR5/4	B	NCM
278	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-33	LoSa	10YR4/3	A	NCM
	3	33-43	LoSa	10YR5/4	B	NCM
279	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-32	LoSa	10YR4/3	A	NCM
	3	32-45	LoSa	10YR5/4	B	NCM
280	1	0-4	rootmat,leaves,humus		A/O	NCM
	2	4-29	LoSa	10YR4/3	A	NCM
	3	29-40	LoSa	10YR5/4	B	NCM
281	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-31	LoSa	10YR4/3	A	NCM
	3	31-44	LoSa	10YR5/4	B	NCM
282	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-28	LoSa	10YR4/3	A	NCM
	3	28-38	LoSa	10YR5/4	B	NCM
283	1	0-5	rootmat,leaves,humus		A/O	NCM
	2	5-27	LoSa	10YR4/3	A	NCM
	3	27-40	LoSa	10YR5/4	B	NCM
284	1	0-6	rootmat,leaves,humus		A/O	NCM
	2	6-27	LoSa	10YR4/3	A	NCM
	3	27-39	LoSa	10YR5/4	B	NCM
285	1	0-6	rootmat,leaves,humus		A/O	NCM
	2	6-29	LoSa	10YR4/3	A	NCM
	3	29-40	LoSa	10YR5/4	B	NCM
286	1	0-6	rootmat,leaves,humus		A/O	NCM
	2	6-32	LoSa	10YR4/3	A	NCM
	3	32-42	LoSa	10YR5/4	B	NCM
287	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-27	LoSa	10YR4/3	A	NCM
	3	27-39	LoSa	10YR5/4	B	NCM
288	1	0-2	rootmat,leaves,humus		A/O	NCM
	2	2-33	LoSa	10YR4/3	A	NCM
	3	33-47	LoSa	10YR5/4	B	NCM
289	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-15	LoSa	10YR4/3	A	NCM
	3	15-28	LoSa	10YR5/4	B	NCM

290	1	0-2	rootmat,leaves,humus		A/O	NCM
	2	2-35	LoSa	10YR4/3	A	flake
	3	35-47	LoSa	10YR5/4	B	NCM
291	1	0-2	rootmat,leaves,humus		A/O	NCM
	2	2-30	LoSa	10YR4/3	A	NCM
	3	30-41	LoSa	10YR5/4	B	NCM
292	1	0-2	rootmat,leaves,humus		A/O	NCM
	2	2-32	LoSa	10YR4/3	A	NCM
	3	32-45	LoSa	10YR5/4	B	NCM
293	1	0-2	rootmat,leaves,humus		A/O	NCM
	2	2-26	LoSa	10YR4/3	A	NCM
	3	26-38	LoSa	10YR5/4	B	NCM
294	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-32	LoSa	10YR4/3	A	NCM
	3	32-42	LoSa	10YR5/4	B	NCM
295	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-32	LoSa	10YR4/3	A	flake
	3	32-42	LoSa	10YR5/4	B	NCM
296	1	0-2	rootmat,leaves,humus		A/O	NCM
	2	2-30	LoSa	10YR4/3	A	flake
	3	30-41	LoSa	10YR5/4	B	NCM
297	1	0-2	rootmat,leaves,humus		A/O	NCM
	2	2-31	LoSa	10YR4/3	A	NCM
	3	31-41	LoSa	10YR5/4	B	NCM
298	1	0-2	rootmat,leaves,humus		A/O	NCM
	2	2-32	LoSa	10YR4/3	A	NCM
	3	32-43	LoSa	10YR5/4	B	NCM
299	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-24	LoSa	10YR4/3	A	NCM
	3	24-34	LoSa	10YR5/4	B	NCM
300	1	0-2	rootmat,leaves,humus		A/O	NCM
	2	2-23	LoSa	10YR4/3	A	NCM
	3	23-35	LoSa	10YR5/4	B	NCM
301	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-15	LoSa	10YR4/3	A	NCM
	3	15-25	LoSa	10YR5/4	B	NCM
302	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-23	LoSa	10YR4/3	A	NCM
	3	23-33	LoSa	10YR5/4	B	NCM

303	1	0-2	rootmat,leaves,humus		A/O	NCM
	2	2-30	LoSa	10YR4/3	A	NCM
	3	30-41	LoSa	10YR5/4	B	NCM
304	1	0-2	rootmat,leaves,humus		A/O	NCM
	2	2-30	LoSa	10YR4/3	A	NCM
	3	30-40	LoSa	10YR5/4	B	NCM
305	1	0-2	rootmat,leaves,humus		A/O	NCM
	2	2-30	LoSa	10YR4/3	A	NCM
	3	30-45	LoSa	10YR5/4	B	NCM
306	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-10	LoSa	10YR4/3	A	NCM
	3	10-21	LoSa	10YR5/4	B	NCM
307	1	0-5	rootmat,leaves,humus		A/O	NCM
	2	5-6	LoSa	10YR4/3	A	NCM
	3	6-rocks				
308	1	0-4	rootmat,leaves,humus		A/O	NCM
	2	4-17	LoSa	10YR4/3	A	NCM
	3	17-27	LoSa	10YR5/4	B	NCM
309	1	0-4	rootmat,leaves,humus		A/O	NCM
	2	4-21	LoSa	10YR4/3	A	NCM
	3	21-32	LoSa	10YR5/4	B	NCM
310	1	0-4	rootmat,leaves,humus		A/O	NCM
	2	4-11	LoSa	10YR4/3	A	flake
	3	11-28	LoSa	10YR5/4	B	NCM
311	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-26	LoSa	10YR4/3	A	NCM
	3	26-38	LoSa	10YR5/4	B	NCM
312	1	0-2	rootmat,leaves,humus		A/O	NCM
	2	2-30	LoSa	10YR4/3	A	NCM
	3	30-40	LoSa	10YR5/4	B	NCM
313	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-14	LoSa	10YR4/3	A	NCM
	3	14-29	LoSa	10YR5/4	B	NCM
314	1	0-2	rootmat,leaves,humus		A/O	NCM
	2	2-20	LoSa	10YR4/3	A	NCM
	3	20-31	LoSa	10YR5/4	B	NCM
315	1	0-2	rootmat,leaves,humus		A/O	NCM
	2	2-25	LoSa	10YR4/3	A	NCM
	3	25-40	LoSa	10YR5/4	B	NCM

316	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-29	LoSa	10YR4/3	A	NCM
	3	29-40	LoSa	10YR5/4	B	NCM
317	1	0-3	rootmat,leavees,humus		A/O	NCM
	2	3-26	LoSa	10YR4/3	A	NCM
	3	26-37	LoSa	10YR5/4	B	NCM
318	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-23	LoSa	10YR4/3	A	NCM
	3	23-33	LoSa	10YR5/4	B	NCM
319	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-25	LoSa	10YR4/3	A	NCM
	3	25-40	LoSa	10YR5/4	B	NCM
320	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-26	LoSa	10YR4/3	A	NCM
	3	26-36	LoSa	10YR5/4	B	NCM
321	1	0-6	rootmat,leaves,humus		A/O	NCM
	2	6-21	LoSa	10YR4/3	A	NCM
	3	21-31	LoSa	10YR5/4	B	NCM
322	1	0-2	rootmat,leaves,humus		A/O	NCM
	2	2-22	LoSa	10YR4/3	A	NCM
	3	22-33	LoSa	10YR5/4	B	NCM
323	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-24	LoSa	10YR4/3	A	NCM
	3	24-34	LoSa	10YR5/4	B	NCM
324	1	0-1	rootmat,leaves,humus		A/O	NCM
	2	1-23	LoSa	10YR4/3	A	NCM
	3	23-35	LoSa	10YR5/4	B	NCM

TEST UNITS

TU	LV	NE	SE	NW	SW	CENT	TEXTURE	COLOR	HOR
1	1	12-16	16-19	12-16	18-20	16-17	rootmat,humus,leaves		A/O
	2a	16-26	19-28	16-26	20-30	17-27	LoSa	10YR4/3 A	
	2b	26-36	28-36	26-36	30-38	27-36	LoSa	10YR4/3 A	
	3	36-48	36-48	36-50	38-49	36-50	LoSa	10YR4/3&5/6	A/B
	4	48-58	48-58	50-60	49-59	50-60	LoSa	10YR5/6 B	
Note: some modern debris down to 2B, 1 transferprint in Lv. 3									
2	1	9-13	11-16	10-15	16-19	13-15	rootmat,humus,leaves		A/O
	2a	13-26	16-24	15-26	19-29	15-26	LoSa	10YR4/3 A	
	2b	26-36	24-34	26-36	29-39	26-35	LoSa	10YR4/3 A	
	3	36-49	34-49	36-50	39-55	35-53	LoSa	10YR4/3&5/6	A/B
	4	49-59	49-59	50-60	55-65	53-63	LoSa	10YR5/6 B	
Note: transferprint to 2B									
3	1	19-24	25-37	8-13	16-22	15-21	rootmat,humus,leaves		A/O
	2a	24-30	37-38	13-31	22-35	21-37	LoSa	10YR4/3&6/4	A/&overburden
	2b	30-44	38-46	31-38	35-45	37-42	LoSa	10YR4/3 A	
	3	44-55	46-58	38-53	45-50	42-59	LoSa	10YR4/3&5/6	A/B
	4	55-65	58-68	53-63	50-60	59-69	LoSa	10YR5/6 B	
Note: 1 modern debris to 2B, historics to Lv 3									
4	1	9-15	12-16	10-17	14-22	16-17	rootmat,humus,leaves		A/O
	2a	15-26	16-26	17-28	22-29	17-28	LoSa	10YR4/3 A	
	2b	26-36	24-36	28-37	29-37	28-37	LoSa	10YR4/3 A	
	3	36-47	36-49	37-47	37-47	37-49	LoSa	10YR4/3&5/6	A/B
	4	47-57	49-59	47-57	47-57	49-59	LoSa	10YR5/6 B	
Note:historics to 2B									

APPENDIX 3

MAP DOCUMENTED STRUCTURES

LOCATION	MAP	ON OR ADJACENT TO PROJECT AREA	OWNER	ECO-NICHE	COMMENT
Indain Hills Golf Course and Drive Range	1858	possibly adjacent	Wm. Gardiner	agricultural/ commercial, residential	Fig. 4
Same as above	1873	possibly adjacent	L.I. Brick Co.	same as above	Fig. 5
Same as above	1896	nearby or possibly adjacent	Brick Yard	agricultural/ commercial, residential	Fig. 6
Same as above	1904	possibly adjacent	na	rural	Fig. 7

APPENDIX 4

INDIAN HILLS PHASE I & II

CAT	SF	ST	TU	LV	ARB	FT	GP	CL	MAT	MOR	DESCRIPTION	CT	WT
1		29					10	3	54	29	tertiary quartzite	1	
2		43					10	6	78	52	black/olive green Drill/Utilized Flake	1	
3		49					10	7	54	81	very small Biface	1	
4		56					10	3	54	27	primary	1	
5		86					10	3	54	27	primary	1	
6		99					10	7	78	75	black/olive green glass Utilized Flake	1	
7		100					10	3	54	29	tertiary	1	
8		310			12.5'N		10	3	54	29	tertiary	1	0.20
9		290			12.5'N		10	3	54	29	tertiary brown & white	1	3.50
10		296			12.5'S		10	3	54	29	teriary	2	2.40
11		241			1mN		10	7		81	Biface, metamorphic/Ig	1	186.90
12		295			1mS		10	3	54	29	teriary	1	1.00
13		262			1mW		10	3	54	27	primary white/yellow	1	1.60
14			1	2	A		10	3	54	29	tetiary	5	1.60
15			1	2	B		10	3	54	29	tertiary	14	9.60
16			1	2	B		10	3	54	28	secondary	2	4.50
17			1	2	B		10	7	54	81	Biface frag	1	23.20
18			1	2	B		1	1	4		black transferprint whiteware, post 1825	1	
19			1	2	B		1	1	4		hand painted polychrome pearlware, 1795-1815	1	
20			1	3			10	3	54	29	tertiary	8	5.00
21			1	3			10	3	54	28	secondary	1	1.30
22			1	3			1	1	4		brown transferprint ww, post 1825	1	
23			2	2	A		10	3	54	29	tertiary	4	1.70
24			2	2	A		10	3	54	28	secondary	3	3.60
25			2	2	A		1	2	78		olive green bottle glass frag wine/liquor	1	
26			2	2	A		1	1	4		blue transferprint ww, post 1820	3	
27			2	2	B		10	3	54	29	teretiary	7	2.00
28			2	2	B		10	3	54	28	secondary	2	2.10
29			2	2	B		10	9	54		FCR?, pink cobble	1	53.30

CAT	SF	ST	TU	LV	ARB	FT	GP	CL	MAT	MOR	DESCRIPTION	CT	WT
30			2	2	B		1	2	78		aqua bottle lip	1	
31			2	2	B		1	1	4		blue painted pearlware	1	
32			2	3			10	3	54	29	tertiary	2	0.90
33			3	2	B		10	3	54	29	tertiary	4	1.30
34			3	2	B		10	3	54	28	secondary	2	1.60
35			3	2	B		10	3	54	29	tertiary, grey	1	0.60
36			3	2	B		10	8	54	97	white quartzite cyrstal?	1	3.50
37			3	2	B		3	1	78		aqua window glass	1	
38			3	2	B		1	2	78		clear bottle glass	1	
39			3	2	B		1	1	4		blue transferprint ww, post 1820	1	
40			3	3			10	3	54	29	tertiary	18	16.80
41			3	3			10	3	54	29	tertiary, grey	1	0.90
42			3	3			10	3	54	28	secondary	3	17.50
43			3	3			10	3	54	27	primary	2	6.10
44			3	3			10	1	54	1	Point, Rossville-like (Late Archaic-Early Woodland	1	5.60
45			3	3			3	1	78		aqua window glass	1	
46			3	3			10	3	54		olive green wine/liquor	3	
47			4	1			10	3	54	29	tertiary	2	1.20
48			4	2	A		10	3	54	29	tertiary	11	7.00
49			4	2	A		10	3	54	27	primary	1	0.40
50			4	2	A		10	3	54	28	secondary	1	2.80
51			4	2	B		10	3	54	29	tertiary	39	17.10
52			4	2	B		10	3	54	29	tertiary, pink	5	1.70
53			4	2	B		10	3	54	27	primary	4	7.70
54			4	2	B		10	3	54	28	secondary	1	0.60
55			4	2	B		10	1	54	1	Point tip	1	1.80
56			4	2	B		10	7	54	81	Biface, marginal	1	5.60
57			4	2	B		1	1	4		brown transferprint ww,post 1825	1	
58			4	2	B		1	1	4		plain pearlware	1	

INDIAN HILLS PHASE I & II

CAT	SF	ST	TU	LV	ARB	FT	GP	CL	MAT	MOR	DESCRIPTION	CT	WT
59			4	2	B		1	1	4		hand painted ploychorme pw, 1795-1815	1	
60			4	3			10	3	54	27	primary	1	3.80
61			4	3			10	3	54	29	tertiary	13	13.10
62			4	3			10	7	54	81	Biface frag?	1	1.90

APPENDIX 5

NEW YORK STATE PREHISTORIC ARCHAEOLOGICAL SITE INVENTORY FORM
NYS OFFICE OF PARKS, RECREATION & HISTORIC PRESERVATION
(518) 237-8643

For Office Use Only--Site Identifier_____

Project Identifier_____INDIAN HILLS_____ Date ___10/2/15

Your Name___Alfred Cammisa_____ Phone (845) 783-4082
Address_____62 Pickerel Rd.
_____Monroe, NY
Organization (if any) _____TRACKER Archaeology Inc.
1. SITE IDENTIFIER(S)
2. COUNTY____Suffolk_____One of the following: CITY
TOWNSHIP_____Huntington
INCORPORATED VILLAGE
UNINCORPORATED VILLAGE OR HAMLET

3. PRESENT OWNER
Address_____Indian Hills Golf Club

4. SITE DESCRIPTION (check all appropriate categories):
Site

__Stray Find	___Cave/Rockshelter	__x_Workshop
__Pictograph	___Quarry	___Mound
__Burial	__ Shell Midden	___Village
__Surface Evidence	___Camp	___Material in plow zone
__Material below plow zone	__x_Buried evidence	___Intact Occupation floor
__Single component	___Evidence of features	___Stratified
	__x_Multicomponent	

Location

___Under cultivation	___Never cultivated	___Previously cultivated
___Pastureland	__x_Woodland	___Floodplain
__ Upland		___ Sustaining erosion

Soil Drainage: excellent _x__ good ___ fair ___ poor___
Slope: flat _x__ gentle ___ moderate ___ steep ___
Distance to nearest water from site (approx.) ___600 ft_____
Elevation: ____50 ft amsl_____

5. SITE INVESTIGATION (append additional sheets, if necessary):
Surface--date(s)____8-7 to 8-10/2015_____
___Site map (Submit with form)
___Collection

Subsurface--date(s)___same_____
Testing: shovel _x__ coring ___ other_____ unit size___30cm_____
no. of units ___324_____ (Submit plan of units with form)
Excavation: unit size _1m_____ no. of units ___4

Investigator ___ALFRED G CAMMISA_____
Manuscript or published report(s) (reference fully):

Phase I and Phase II Archaeological Investigations at the Indian Hills Prehistoric Site for the proposed Improvements to the Indian Hills Golf Course Northport, Township of Huntington, Suffolk County, New York

Present repository of materials _____TRACKER_____

6. COMPONENT(S) (cultural affiliation/dates):
Rossville-like (Terminal Archaic to Early Woodland, or Early-Middle Woodland)

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

170 flakes inc. primary, secondary, tertiary flakes, 2 points (1 Rossville-like), 4 bifaces, FCR (all quartzite/quartz), quartz crystal, glass utilized flake and glass drill, transferprint whiteware, pearlware

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

8. MAP REFERENCES

USGS 7.5 Minute Series Quad. Name __Northport, NY_____

UTM Coordinates _____

9. Photography

NEW YORK STATE HISTORIC ARCHAEOLOGICAL SITE INVENTORY FORM
NYS OFFICE OF PARKS, RECREATION & HISTORIC PRESERVATION
(518) 237-8643

For Office Use Only--Site Identifier_

Project Identifier

Your Name Alfred Cammisa Date 10-13-15
Address 62 Pickerel Rd Phone (845) 783-4082
Monroe, NY 10950
Organization (if any) TRACKER Archaeology
1. SITE IDENTIFIER(S) Indian Hills
2. COUNTY Suffolk One of the following: CITY
TOWNSHIP Huntington
INCORPORATED VILLAGE
UNINCORPORATED VILLAGE OR HAMLET

3. PRESENT OWNER
Address

4. SITE DESCRIPTION (check all appropriate categories):Structure/site
Superstructure: complete___ partial___ collapsed ___ not evident _x__
Foundation: above ___ below ___ (ground level) not evident _x___
___ Structural subdivisions apparent ___Only surface traces visible
___ Buried traces detected
List construction materials (be as specific as possible):na

Grounds
___Under cultivation ___Sustaining erosion __x_Woodland ___Upland
___Never cultivated ___Previously cultivated ___Floodplain ___Pastureland
Soil Drainage: excellent _x_ good __fair ___ poor ___
Distance to nearest water from structure (approx.) 600'
Elevation: 50' amsl

5. Site Investigation (append additional sheets, if necessary):
Surface -- date (s) 8-7 to 8-10-15 Site map (submit with form*)
Collection
Subsurface -- date(s) same as above
Testing: shovel _x__ coring ___ other ___ unit size 30cm
no. units 324 (Submit plan of units with form*)

Excavation: unit size 1 no. of units 4
(Submit plan of units with form*)
* Submission should be 8 ½" by 11", if feasible

Investigator Alfred Cammisa
Manuscript or published report (s) (reference fully):

Phase I and Phase II Archaeological Investigations at the Indian Hills Prehistoric Site for the proposed Improvements to the Indian Hills Golf Course Northport, Township of Huntington, Suffolk County, New York

Present repository of materials TRACKER

6. Site inventory:
   a. Date constructed or occupation period na
   b. Previous owners, if known na
   c. Modifications, if known _____
   (append additional sheets, if necessary)

7. Site documentation (append additional sheets, if necessary):
   a. Historic map references
      1) Name_____ Date _____ Source _____
         Present location of original, if known _____
      2) Name_____ Date _____ Source _____
         Present location of original, if known _____
   b. Representation in existing photography
      1) Photo date _____ Where located _____
      2) Photo date _____ Where located _____

   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):

- 170 flakes inc. primary, secondary, tertiary flakes, 2 points (1 Rossville-like), 4 bifaces, FCR (all quartzite/quartz), quartz crystal, glass utilized flake and glass drill, transferprint whiteware, pearlware

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

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 71/2 Minute Series Quad. Name Northport, NY
For Office Use Only--UTM Coordinates

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.