

Phase I Archaeological Investigations for the proposed Woodridge Cluster subdivision
Town of Chester, Orange County, New York

December 2015

Prepared for:
J.K. Development Corp., Highland Mills, New York
Pietrzak & Pfau, Goshen, New York

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MANAGEMENT SUMMARY

PR#:

None known

Involved agencies:

NYDEC

Town of Chester

Phase:

Phase IA & IB

Location:

Town of Chester

Orange County

Survey Area:

Width: about 1050 feet (320 meters) north-south

Length: about 650 feet (198 m) east-west

Acres Surveyed: about 18 acres (7 hectares)

USGS:

Monroe, NY

Survey overview:

ST no. & interval: 299 ST's at 50-25 ft. (15-7.5m) intervals.

Results:

No prehistoric or historic remains

Results of Architectural Survey:

No. Of buildings/structures/cemeteries in project area: none

No. Of buildings/structures/cemeteries adjacent to project area: 3

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 December 2015

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INTRODUCTION

Between November 16 and December 6, 2015, TRACKER Archaeology, Inc. conducted a Phase IA documentary study and a Phase IB archaeological survey for the proposed Woodridge Cluster subdivision in the Town of Chester, Orange County, New York.

The purpose of the Phase IA documentary study was to determine the prehistoric and historic potential of the project area for the recovery of archaeological remains. The Phase IA was implemented by a review of the original and current environmental data, archaeological site files, other archival literature, maps, and documents. In addition, the study area was visited by the author and visually assessed.

The prehistoric and historic site file search was conducted utilizing the resources of the New York State Historic Preservation Office in Waterford, New York. Various historic web sites may have queried to review any pertinent site information.

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

These investigations have been conducted in accordance with the standards set forth by the New York Archaeological Council and the New York State Historic Preservation Office.

The project area (APE) is about 18 acres from a larger, 39 acre property. The property is bound to the south by Laroe Road and to the remaining sides by private properties.

The investigation was completed by TRACKER Archaeology, Inc. of Monroe, New York. Prehistoric and historic research was conducted by PI, Alfred G. Cammisa, M.A., RPA. Field work was by Alfred G. Cammisa, and field technicians, Alfred T. Cammisa, Bridgette Cammisa, and Evan Pol. Report preparation was by Alfred G. Cammisa with Alexander Padilla (CAD).

The work was performed for J.K. Development Corp., Highland Mills, New York and Pietrzak & Pfau, Goshen, New York.

ENVIRONMENT

Geology

The study area is located in the southeast portion of New York State near the central part of Orange County. This region of New York lies within the Ridge and Valley Physiographic Province. This province, also known as the Newer Appalachians, extends from Lake Champlain to Alabama. It passes as a narrow lowland belt between the New England Uplands (Taconic Mountains and Hudson Highlands) to the east and the Appalachian Plateau (Catskill and Shawangunk Mountains) and Adirondack Mountains to the west. The characteristic topography is a succession of parallel valleys and ridges trending roughly in a northeasterly direction. This is a region of sedimentary rocks which were easily eroded and subjected to folding or bedding of the rock layers (Schuberth 1968: cover map, 16-18; Isachsen et al 2000: 4, 53-54; New York-New Jersey Trail Conference 1998: cover map).

Soils and Topography

Soils on the project area consist of:

NAME	SOIL HORIZON DEPTH in(cm)	COLOR	TEXTURE INCLUSION	SLOPE %	DRAINAGE	LANDFORM
Mardin	Ap 0-8in (0-20cm) B 8-15 (-38) B 15-20(-51)	10YR4/2 10YR5/8 10YR6/3	GrSiLo	3-8, 8-15	well	glacial till deposits

Olsson 1981: map #81, pgs. 37-38, 95).

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, Sa=Sand, Cl=Clay

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

The elevation on the project area ranges from approximately 490 to 710 feet above mean sea level.

Hydrology

The survey (Figure 2) shows an intermittent stream at the southeast part of the project area. The Soil Survey (Figure 9) shows a wet area in the west of the project area. The project area is also approximately .15 mile east of Trout Brook a permanent tributary which flows in Moodna Creek and the Hudson River.

Vegetation

The predominant forest community in this area was probably the Oak Hickory. This forest is a nut producing forest with acorns and hickory nuts usually an obvious part of the leaf litter on the forest floor. The Oak Hickory Forest intermingles with virtually all other forest types. The northern extension of this forest community was also originally called the Oak-Chestnut forest, before the historic Chestnut blight (Kricher 1988:38, 57-60).

At the time of the Phase IB field work, the project area consisted of a high canopy forest with oak, cedar, birch, hickory, and other with a sparse undergrowth of briars and vines.

PREHISTORIC POTENTIAL

A prehistoric site file search was conducted at the New York State Historic Preservation Office. The search included a 1 mile radius around the study area. The following sites were recorded:

NYSM SITES	NYSHPO SITES	DISTANCE FROM APE ft mm)	SITE DESCRIPTION
	7102.000105	728 (222)	Cluster 4: prehistoric surface evidence
	7102.000083	1685 (514)	Trout Brook Estate prehistoric finds

NYSM SITES	NYSHPO SITES	DISTANCE FROM APE ft mm)	SITE DESCRIPTION
	7102.000098	1851 (564)	Area 7: prehistoric camp
	7102.000104	1834 (559)	Cluster 3: prehistoric quarry
	7102.000106	1806 (551)	Cluster 5: prehistoric surface evidence
	7102.000099	2419 (738)	Area 8; prehistoric camp
	7102.000102	2474 (754)	Cluster 1: prehistoric quarry
	7102.000103	2627 (801)	Cluster 2: prehistoric quarry
	7102.000107	2719 (829)	Clusters 6&7: surface evidence, quarry
	7102.000100	2733 (833)	Area 9: prehistoric quarry
	7102.000096	2866 (874)	Area 5: prehistoric quarry
	7102.000097	3192 (973)	Area 6: prehistoric camp
	7102.000095	3193 (973)	Area 4: prehistoric quarry
	7102.000101	3275 (998)	Area 10: prehistoric quarry, workshop
	7102.000094	3574 (1089)	Area 3: prehistoric quarry
	7102.000092	4010 (1223)	Area 1: prehistoric quarry
	7102.000093	4082 (1245)	Area 2: prehistoric quarry

An Indian foot trail followed roughly along the path of Kings Highway. Although this foot path was recorded historically, it undoubtedly existed prehistorically, to some extent (see Historic Potential).

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

-The survey (Figure 2) shows an intermittent stream at the southeast part of the project area. The Soil Survey (Figure 9) shows a wet area in the west of the project area. The project area is also approximately .15 mile east of Trout Brook a permanent tributary which flows in Moodna Creek and the Hudson River.

-The project area has well drained soils with level to steeply sloping terrain.

-Numerous prehistoric sites were recorded near the project area.

-An Indian foot trail was located near current Kings Highway, in the general vicinity of the study area.

In our opinion, the study area has a higher than average potential for the recovery of prehistoric sites along the more level areas of the property. Steep slopes would have a lower potential but should be walked-over for quarry sites, rock-shelter or cave sites. The type of site encountered could be a procurement/processing or base camp site from either Woodland or Archaic Periods.

HISTORIC POTENTIAL

Seventeenth Century

At the time of European contact and settlement, the study area was probably occupied by the Waoranecks who lived between Stony Point and Danns Kammer (near Newburgh Bay). Their western boundary unknown. These peoples were likely a sub-branch and/or clan related to the large Munsee (Minsi) tribe belonging to the Delawarean linguistic family. The term "Minsi" (or "Munsee") means people of the stony country" or abbreviated as "mountaineers" (Ruttenber 1992A:35, 44-45, 49-50, 93; Ruttenber 1992B:221; Becker 1993:16-22; Weslager 1991:45; Synder 1969:2; Figure 3).

Population estimates for the Munsee are 600 to 800 individuals. The Munsee are described by Becker (1993:18) as possibly horticultural. Hull (1996:10) mentions that they were hunters, gatherers, and horticulturalists. They fished in the fast running waters of the Wawayanda and Pochuck creeks.

An Indian trail known as the Wawayanda Trail started at the tribal meeting grounds at Danns Kammer, then passed through Washingtonville, Chester, Warwick and Vernon villages, and eventually on to Philadelphia. This road, or the close approximation, is currently known as Kings Highway (Hull 1996:127; Durland 1903:148).

Eighteenth Century

The Waoraneck Munsees living in Warwick had a large settlement a few hundred yards from the old Welling farm on Route 94 (Kings Highway here). This group was known locally, or their village was known locally as the Mistucky. It was recorded that these Indians had an apple orchard. Their chief/headman was called Chuckhass in the early eighteenth century. Chuckhass was one of the twelve chiefs signing the Wawayanda Patent to release their territory (Durland 1903:148; Ruttenber and Clarke 1881:568).

In many of the valleys between the high mountain ridges, are the old roads, following in some instances, Indian foot paths (Durland 1903:148).

The DeWitt map of Land Patents shows the project area near Walton Lake (Figure 3).

The 1779 Sauthier map shows the study property just east of what is believed to be Sugar Loaf Mountain and Kings Highway (Figure 4).

Nineteenth Century

Chester's chief business was agriculture. The Town is said to contain some of the most fertile land in the state (Ruttenber 1881:620; Durland 1903:148).

The 1840 Map of Orange and Rockland Counties shows the project area near Walton Lake. No structures are on, or nearby the project parcel (Figure 5).

The 1850 Map of Orange County shows the project area with a structure adjacent to the project area (Figure 6).

The 1875 Beers atlas of Chester Town shows the project area with a structure adjacent to it (Figure 7).

During the 1880's businesses in the village included: a hotel, post office, insurance company, bakery, undertaker, boots and shoes store, Allison's store-a place of trade, stoves and hardware, confectionary, restaurant, the doctor's office, groceries, meat market, drug store, dry goods-groceries-general merchandise, harness-shop, millinery, dress-making, and two carpenter shops. In town, but outside the village proper, were located other business (Ruttenber 1881:616).

Twentieth Century

The 1908 USGS shows still depicts a structure adjacent to the project area (Figure 8).

An historic site file search was conducted at the New York State Historic Preservation Office. The search included a 1 mile radius around the study area. The following sites were recorded:

NYSM SITES	NYSHPO SITES	DISTANCE FROM APE ft(m)	SITE DESCRIPTION
	7102.000108	3611 (1101)	Bull House Site: possibly Civil War Era, complete structure

An Indian foot trail followed roughly along the path of Kings Highway.

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

-The survey (Figure 2) shows an intermittent stream at the southeast part of the project area. The Soil Survey (Figure 9) shows a wet area in the west of the project area. The project area is also approximately .15 mile east of Trout Brook a permanent tributary which flows in Moodna Creek and the Hudson River.

-The project area has well drained soils with level to steeply sloping terrain.

-An historic house/site was recorded nearby the project area.

-An Indian foot trail was located near current Kings Highway, in the vicinity of the study area. It likely hooked up with other trails in the area.

-An historic MDS is shown adjacent to the project area.

In our opinion, the study area has a higher than average potential for the recovery of historic sites along the more level areas of the property. The type of site encountered would likely be a Euro-American site.

FIELD METHODS

Walkover

Any exposed ground surfaces were walked over at about 3 to 5 meter intervals to observe for artifacts. Covered ground terrain was reconnoitered at about 15 to 7.5 meter intervals for any above ground features, such as berms, depressions, or rock-shelters which might be evidence for historic or prehistoric sites.

Shovel Testing

Shovel tests were excavated at about 15 to 7.5 meter intervals throughout the project area. The closer intervals were along the west side, closer to the previously reported prehistoric sites. Each shovel test measured about 30 cm. in diameter and was excavated into the underlying subsoil (B horizon) 10 to 20 cm. if possible. All soils were screened through 1/4 inch wire mesh and observed for artifacts. Shovel test pits were flagged in the field. All shovel tests (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 on ST stratigraphy and other information was transcribed in a notebook and on pre-printed field forms.

FIELD RESULTS

Field testing of the project property included the excavation of 299 shovel tests. No prehistoric artifacts or features were encountered. No historic artifacts or features were encountered.

Stratigraphy

Soil textures across the project area consisted of:

O Horizon - about 3 to 15 cm. thick of root mat, leaf litter and humus.

A Horizon - about 4 to 25 cm. thick of 10YR4/2 dark gray brown gravelly loam.

B Horizon - about 0 to 20 cm. dug into of 10YR5/8 yellow brown gravelly loam. This layer was at times impeded or lacking due to bedrock or the natural gravel content in the soils.

CONCLUSIONS AND RECOMMENDATIONS

Based upon proximity to a stream and wetlands, prehistoric sites, Indian trails, and level to steeply sloped terrain with well drained to poorly drained soils, the project area is seen as having a higher than average potential for the recovery of prehistoric sites.

Based upon the similar environmental characteristics and proximity to historic sites and Indian trails, and the adjacent railroad, the project area was seen as having a higher than average potential for encountering historic sites.

The field survey included the excavation of 299 ST's on the project property. No prehistoric artifacts or features were encountered. Nor historic artifacts or features were encountered. No further archaeological work is recommended.

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United States Geologic Survey

1967 *Warwick, New York* quadrangle map, 7.5 minute series.

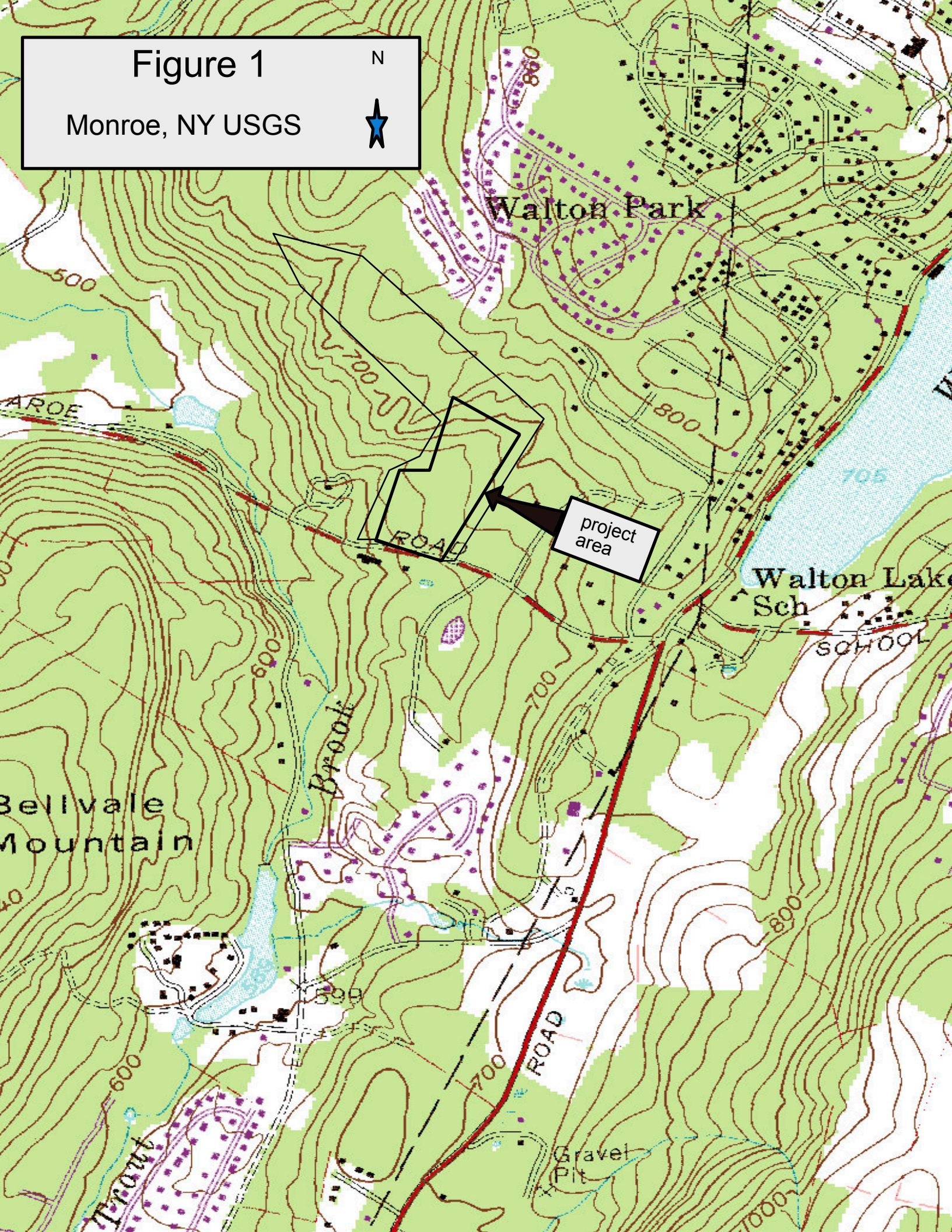
1908 *Goshen, New York* quadrangle map, 15 minute series.

APPENDIX 1

Figure 1

Monroe, NY USGS

N



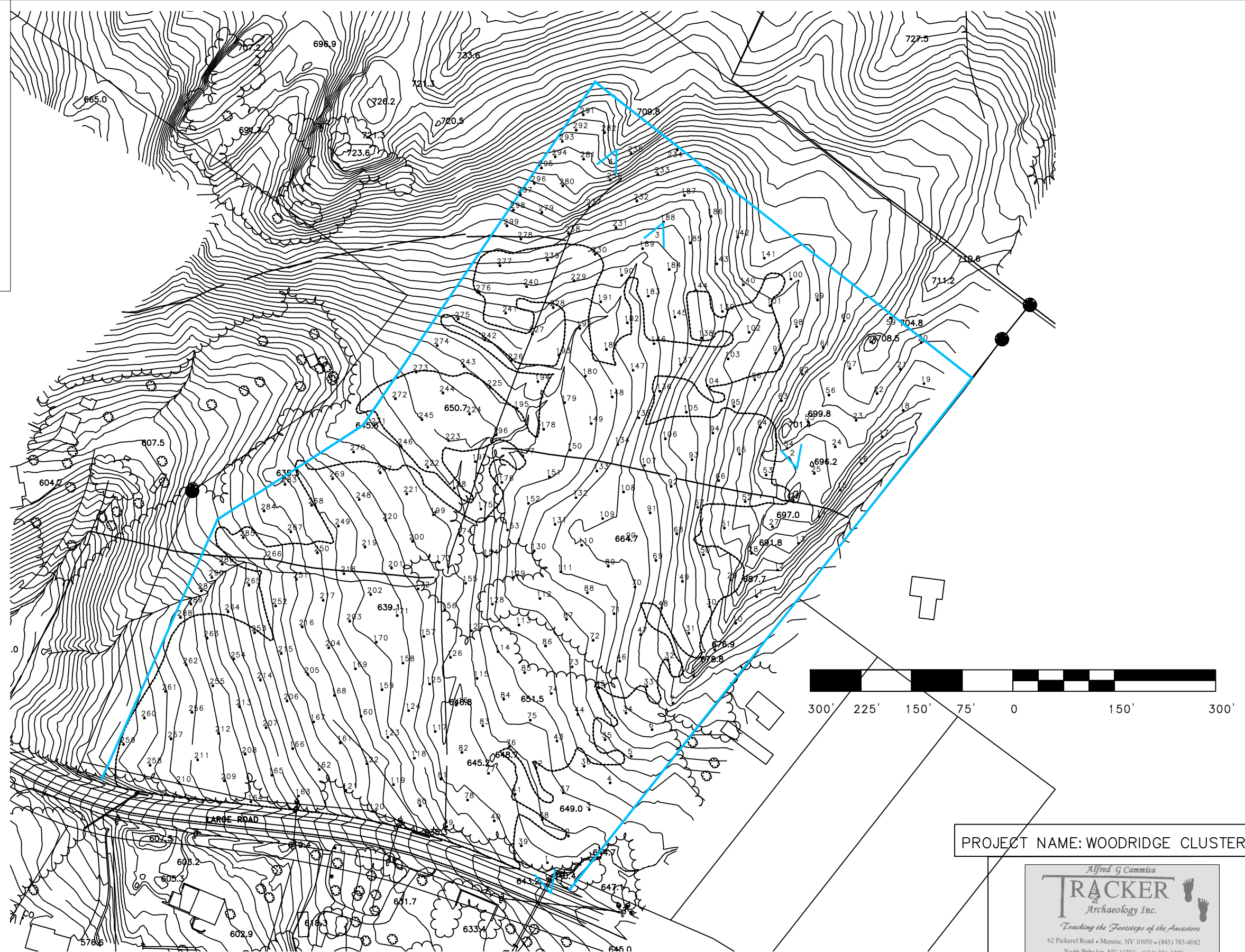


FIGURE 2: LOCATION OF SHOVEL TESTS

- NEGATIVE SHOVEL TEST
- ✓ PHOTO ANGLE
- PROJECT LIMITS(A.P.E)

PROJECT NAME: WOODRIDGE CLUSTER

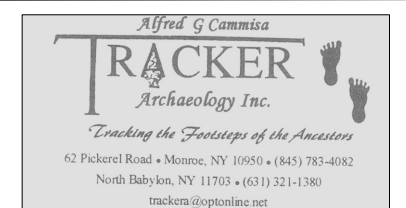


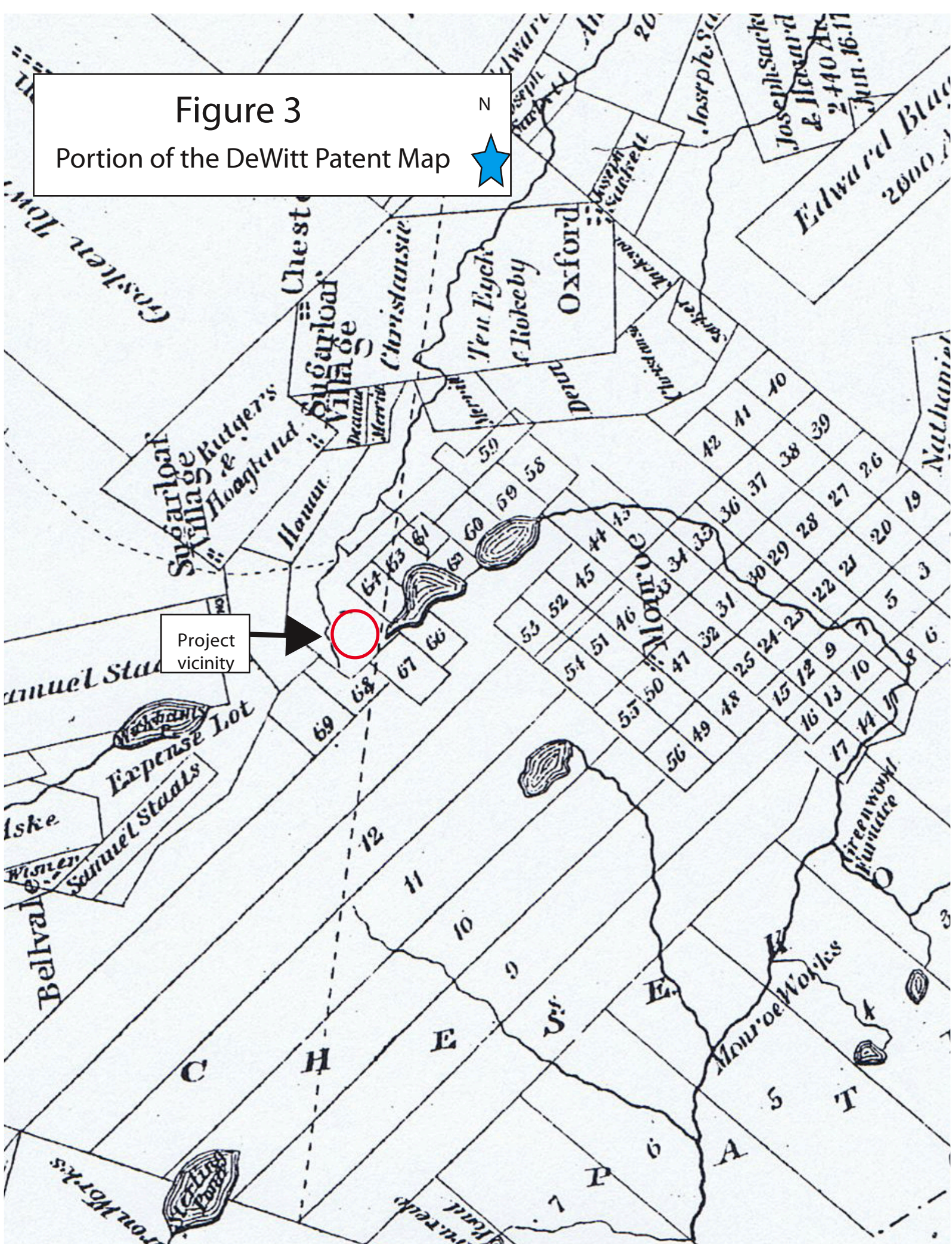
Figure 3

Portion of the DeWitt Patent Map

N



Project
vicinity



N



Figure 5

1840 Burr map

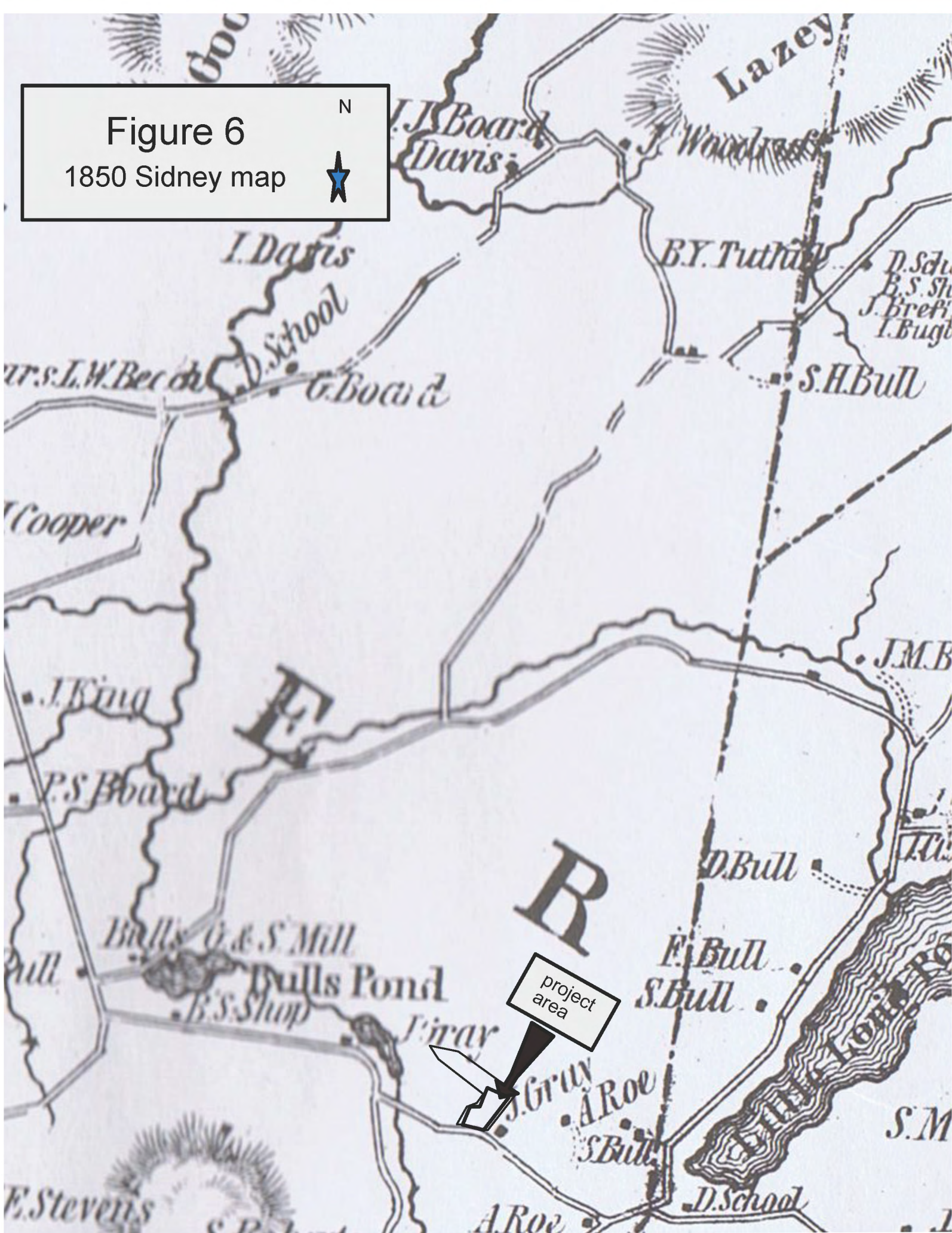
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Figure 6

1850 Sidney map

N



N

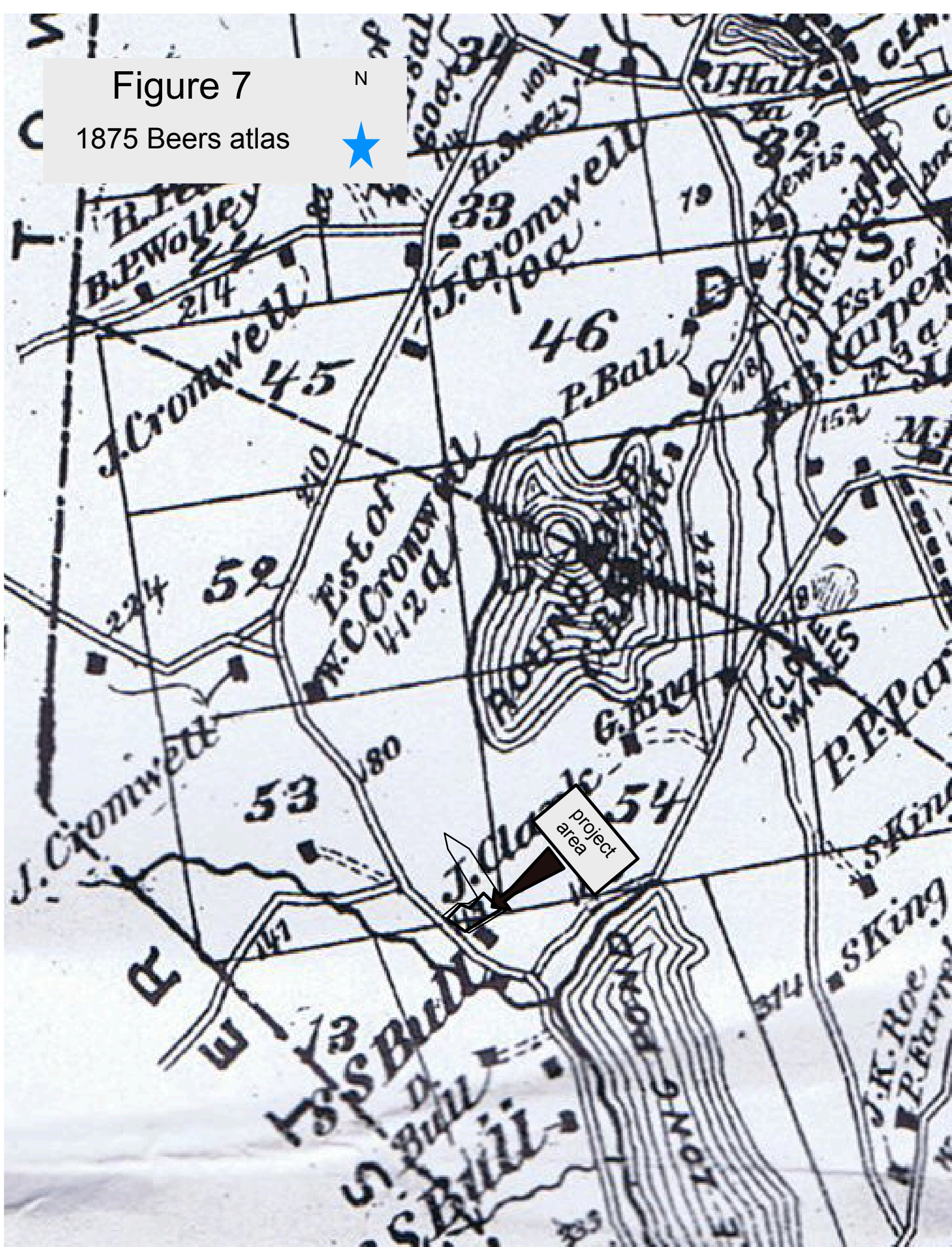


Figure 8

County Soil Survey

N

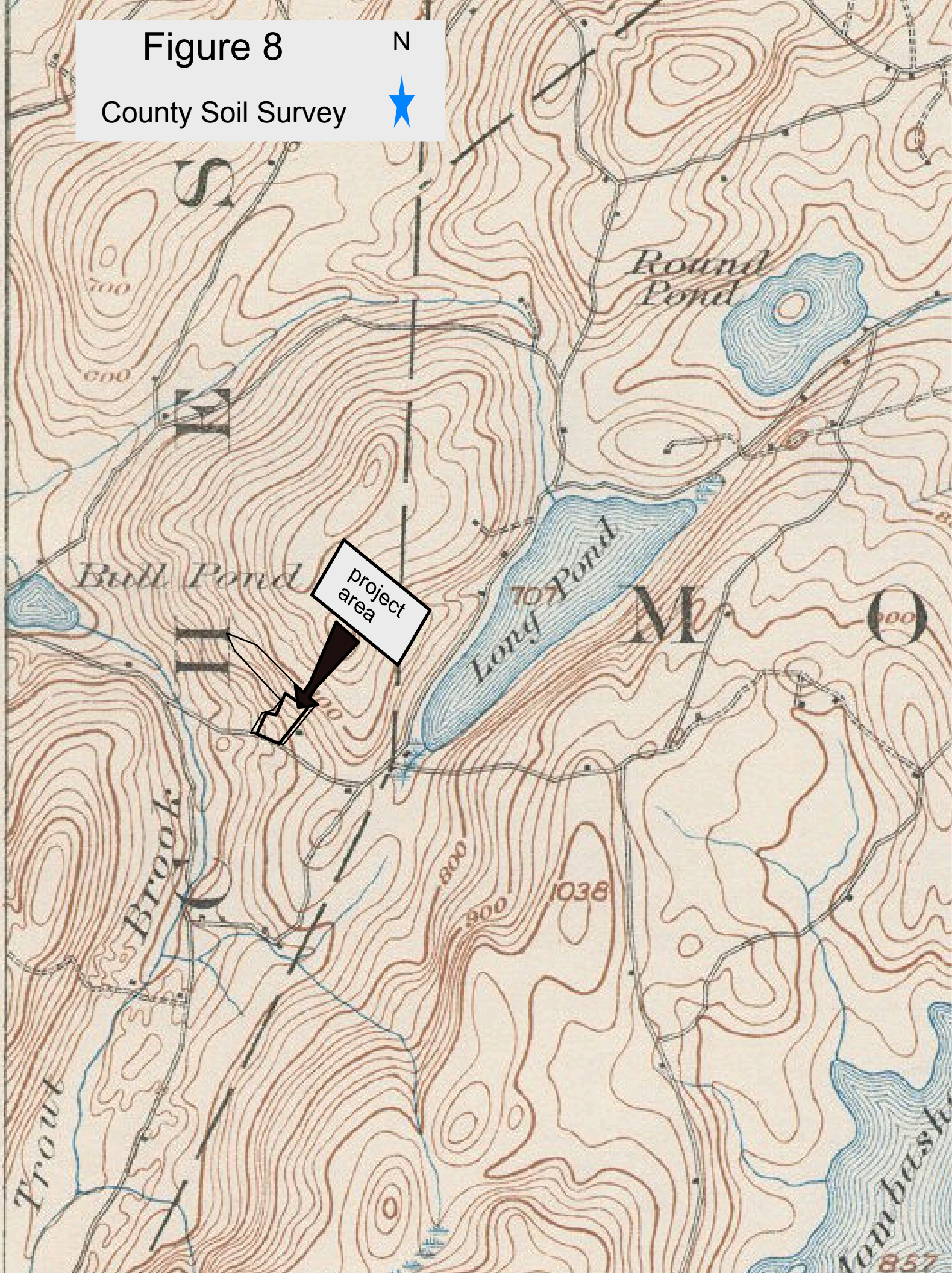


Figure 9

County Soil Survey

N

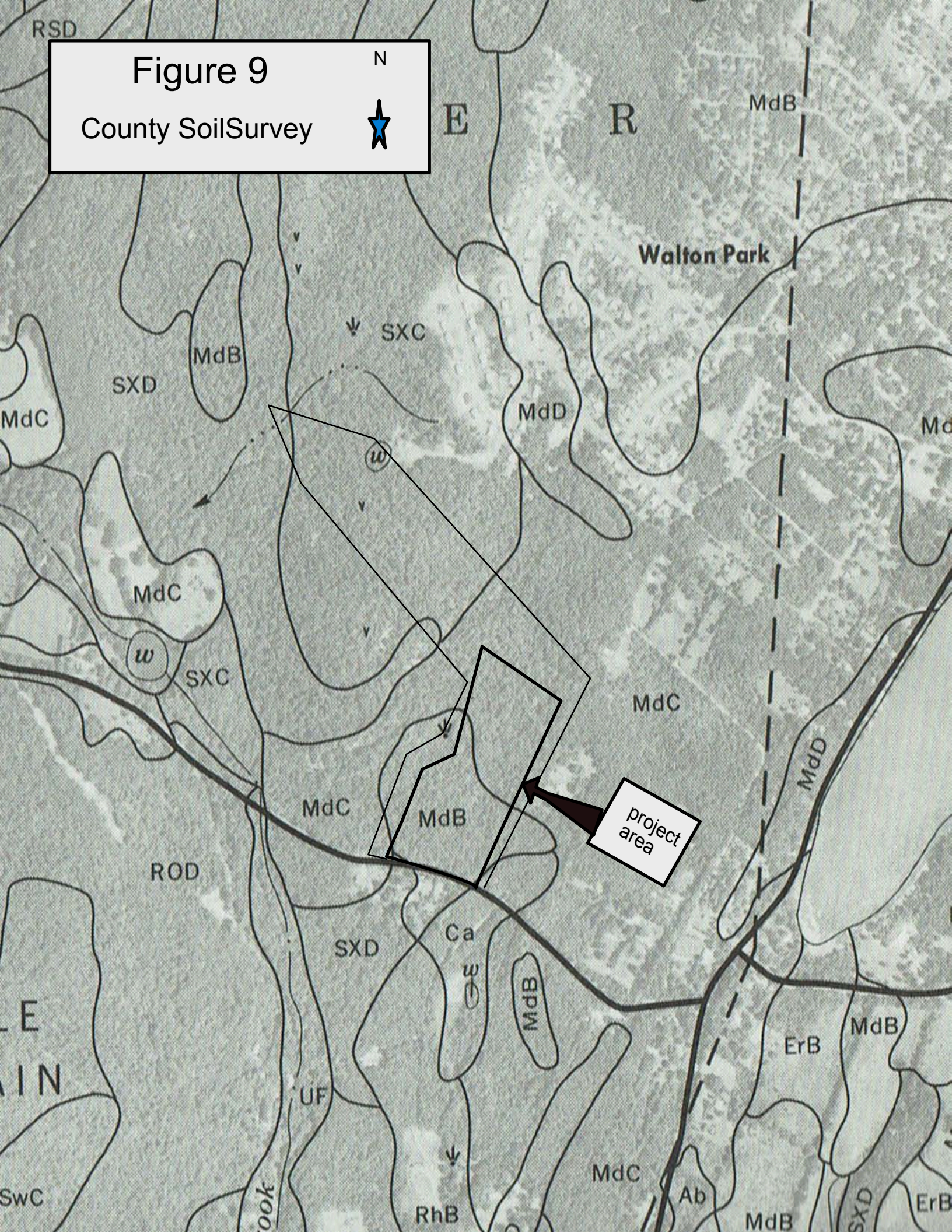


Photo 1

Looking NW along road

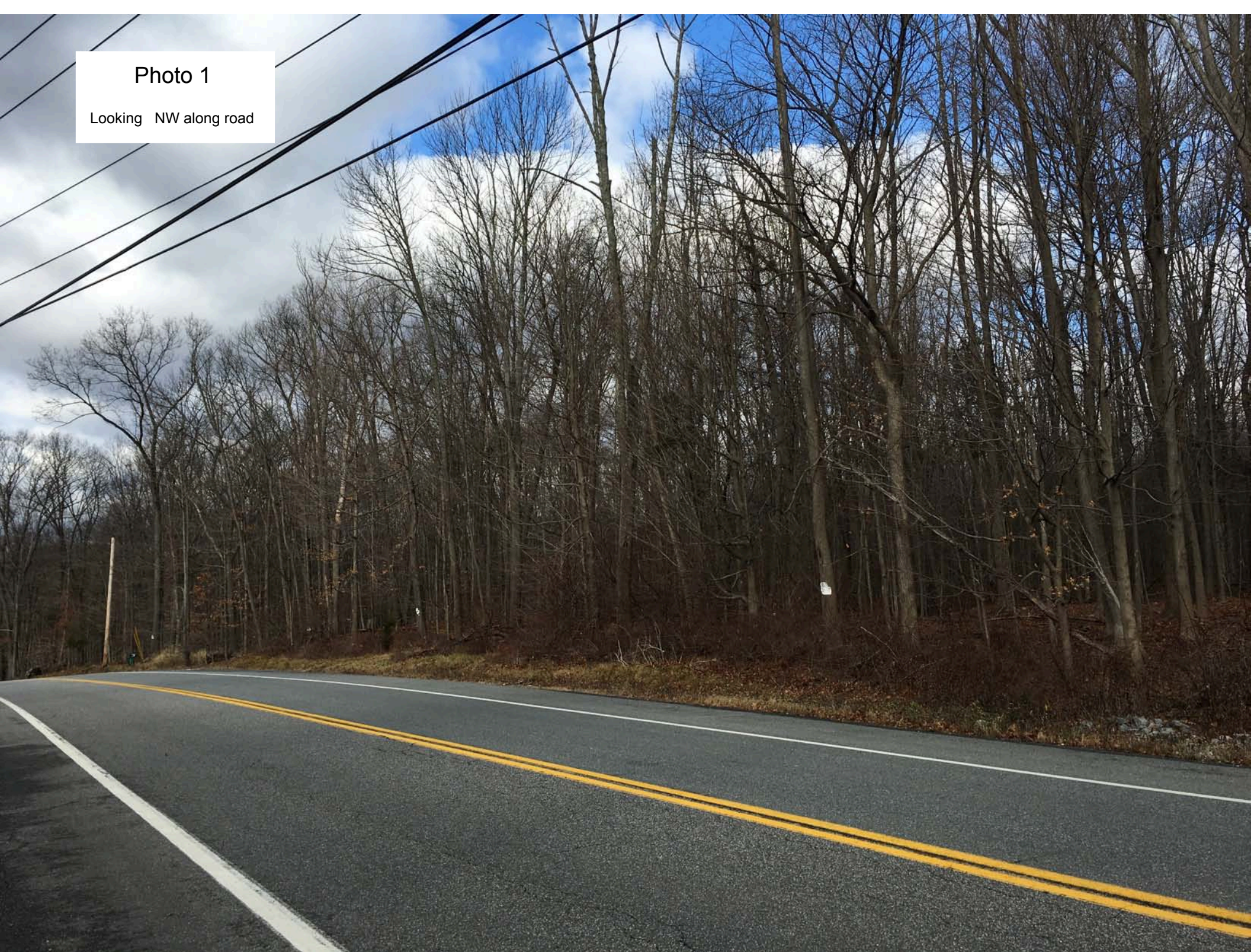


Photo 2

Looking toward ST 54 in progress



Photo 3

Looking south toward ST 189 & 190 in progress



Photo 4

Looking south at rocky steep slope



APPENDIX 2

SHOVEL TESTS

STP	LV	DEPTH(CM)	TEXTURE	COLOR	HOR	COMMENT
1	1	0-6	rootmat,leaves,humus		A/O	NCM
	2	6-28	GrLo	10YR4/2	A	NCM
	3	28-45	GrLo	10YR5/8	B	NCM
2	1	0-5	rootmat,leaves,humus		A/O	NCM
	2	5-28	GrLo	10YR4/2	A	NCM
	3	28-47	GrLo	10YR5/8	B	NCM
3	1	0-15	rootmat,leaves,humus		A/O	NCM
	2	15-29	GrLo	10YR4/2	A	NCM
	3	29-39	GrLo	10YR4/2	A	NCM
4	1	0-10	rootmat,leaves,humus		A/O	NCM
	2	10-30	GrLo	10YR4/2	A	NCM
	3	20-30	GrLo	10YR5/8	B	NCM
5	1	0-10	rootmat,leaves,humus		A/O	NCM
	2	10-30	GrLo	10YR4/2	A	NCM
	3	30-43	GrLo	10YR5/8	B	NCM
6	1	0-10	rootmat,leaves,humus		A/O	NCM
	2	10-28	GrLo	10YR4/2	A	NCM
	3	18-38	GrLo	10YR5/8	B	NCM
7	1	0-12	rootmat,leaves,humus		A/O	NCM
	2	12-17	GrLo	10YR4/2	A	NCM
	3	17-29	GrLo	10YR5/8	B	NCM
8	1	0-12	rootmat,leaves,humus		A/O	NCM
	2	12-17	GrLo	10YR4/2	A	NCM
	3	17-29	GrLo	10YR5/8	B	NCM
9	1	0-11	rootmat,leaves,humus		A/O	NCM
	2	11-18	GrLo	10YR4/2	A	NCM
	3	18-30	GrLo	10YR5/8	B	NCM
10	1	0-14	rootmat,leaves,humus		A/O	NCM
	2	14-28	GrLo	10YR4/2	A	NCM
	3	28-40	GrLo	10YR5/8	B	NCM
11	1	0-13	rootmat,leaves,humus		A/O	NCM
	2	13-32	GrLo	10YR4/2	A	NCM
	3	32-43	GrLo	10YR5/8	B	NCM
12	1	0-12	rootmat,leaves,humus		A/O	NCM
	2	12-27	GrLo	10YR4/2	A	NCM
	3	27-39	GrLo	10YR5/8	B	NCM
13	1	0-13	rootmat,leaves,humus		A/O	NCM

14	2	13-26	GrLo	10YR4/2	A	NCM
	3	24-37	GrLo	10YR5/8	B	NCM
	1	0-13	rootmat,leaves,humus		A/O	NCM
	2	13-28	GrLo	10YR4/2	A	NCM
	3	28-40	GiLo	10YR5/8	B	NCM
15	1	0-10	rootmat,leaves,humus		A/O	NCM
	2	10-28	GrSdLo	10YR4/2	A	NCM
	3	28-40	GrLo	10YR5/8	B	NCM
16	1	0-12	rootmat,leaves,humus		A/O	NCM
	2	12-28	GrSdLo	10YR4/2	A	NCM
	3	28-40	GrLo	10YR5/8	B	NCM
17	1	0-13	rootmat,leaves,humus		A/O	NCM
	2	13-29	GrSdLo	10YR4/2	A	NCM
	3	29-41	GrLo	10YR5/8	B	NCM
18	1	0-10	rootmat,leaves,humus		A/O	NCM
	2	10-27	GrSdLo	10YR4/2	A	NCM
	3	27-40	GrLo	10YR5/8	B	NCM
19	1	0-11	rootmat,leaves,humus		A/O	NCM
	2	11-26	GrSdLo	10YR4/2	A	NCM
	3	26-38	GrLo	10YR5/8	B	NCM
20	1	0-13	rootmat,leaves,humus		A/O	NCM
	2	13-30	GrSdLo	10YR4/2	A	NCM
	3	30-43	GrLo	10YR5/8	B	NCM
21	1	0-12	rootmat,leaves,humus		A/O	NCM
	2	12-32	GrSdLo	10YR4/2	A	NCM
	3	32-43	GrLo	10YR5/8	B	NCM
22	1	0-12	rootmat,leaves,humus		A/O	NCM
	2	12-31	GrLo	10YR4/2	A	NCM
	3	31-45	GrLo	10YR5/8	B	NCM
23	1	0-14	rootmat,leaves,humus		A/O	NCM
	2	14-30	GrLo	10YR4/2	A	NCM
	3	30-43	GrLo	10YR5/8	B	NCM
24	1	0-12	rootmat,leaves,humus		A/O	NCM
	2	12-28	GrSdLo	10YR4/2	A	NCM
	3	28-40	GrLo	10YR5/8	B	NCM
25	1	0-12	rootmat,leaves,humus		A/O	NCM
	2	12-28	GrSdLo	10YR4/2	A	NCM
	3	28-39	GrLo	10YR5/8	B	NCM
26	1	0-13	rootmat,leaves,humus		A/O	NCM
	2	13-25	GrSdLo	10YR4/2	A	NCM
	3	25-37	GrLo	10YR5/8	B	NCM

27	1	0-12	rootmat,leaves,humus		A/O	NCM
	2	12-29	GrLo	10YR4/2	A	NCM
	3	29-39	GrLo	10YR5/8	B	NCM
28	1	0-12	rootmat,leaves,humus		A/O	NCM
	2	12-28	GrSdLo	10YR4/2	A	NCM
	3	28-39	GrLo	10YR5/8	B	NCM
29	1	0-15	rootmat,leaves,humus		A/O	NCM
	2	15-28	GrSdLo	10YR4/2	A	NCM
	3	28-39	GrLo	10YR5/8	B	NCM
30	1	0-13	rootmat,leaves,humus		A/O	NCM
	2	13-32	GrLo	10YR4/2	A	NCM
	3	32-45	GrLo	10YR5/8	B	NCM
31	1	0-13	rootmat,leaves,humus		A/O	NCM
	2	13-30	GrLo	10YR4/2	A	NCM
	3	30-41	GrLo	10YR5/8	B	NCM
32	1	0-12	rootmat,leaves,humus		A/O	NCM
	2	12-29	GrLo	10YR4/2	A	NCM
	3	29-43	GrLo	10YR5/8	B	NCM
33	1	0-12	rootmat,leaves,humus		A/O	NCM
	2	12-32	GrLo	10YR4/2	A	NCM
	3	32-45	GrLo	10YR5/8	B	NCM
34	1	0-13	rootmat,leaves,humus		A/O	NCM
	2	13-30	GrLo	10YR4/2	A	NCM
	3	30-41	GrLo	10YR5/8	B	NCM
35	1	0-15	rootmat,leaves,humus		A/O	NCM
	2	15-30	GrLo	10YR4/2	A	NCM
	3	30-41	GrLo	10YR5/8	B	NCM
36	1	0-13	rootmat,leaves,humus		A/O	NCM
	2	13-31	GrLo	10YR4/2	A	NCM
	3	31-41	GrLo	10YR5/8	B	NCM
37	1	0-13	rootmat,leaves,humus		A/O	NCM
	2	13-30	GrLo	10YR4/2	A	NCM
	3	30-41	GrLo	10YR5/8	B	NCM
38	1	0-13	rootmat,leaves,humus		A/O	NCM
	2	13-23	GrLo	10YR4/2	A	NCM
	3	23-37	GrLo	10YR5/8	B	NCM
39	1	0-13	rootmat,leaves,humus		A/O	NCM
	2	13-27	GrLo	10YR4/2	A	NCM
	3	27-37	GrLo	10YR5/8	B	NCM

40	1	0-10	rootmat,leaves,humus		A/O	NCM
	2	10-29	GrLo	10YR4/2	A	NCM
	3	29-41	GrLo	10YR5/8	B	NCM
41	1	0-9	rootmat,leaves,humus		A/O	NCM
	2	9-29	GrLo	10YR4/2	A	NCM
	3	29-41	GrLo	10YR5/8	B	NCM
42	1	0-9	rootmat,leaves,humus		A/O	NCM
	2	9-30	GrLo	10YR4/2	A	NCM
	3	30-41	GrLo	10YR5/8	B	NCM
43	1	0-9	rootmat,leaves,humus		A/O	NCM
	2	9-32	GrLo	10YR4/2	A	NCM
	3	32-45	GrLo	10YR5/8	B	NCM
44	1	0-7	rootmat,leaves,humus		A/O	NCM
	2	3-25	GrLo	10YR4/2	A	NCM
	3	25-38	GrLo	10YR5/8	B	NCM
45	1	0-10	rootmat,leaves,humus		A/O	NCM
	2	10-28	GrLo	10YR4/2	A	NCM
	3	28-40	GrLo	10YR5/8	B	NCM
46	1	0-14	rootmat,leaves,humus		A/O	NCM
	2	14-29	GrLo	10YR4/2	A	NCM
	3	29-41	GrLo	10YR5/8	B	NCM
47	1	0-13	rootmat,leaves,humus		A/O	NCM
	2	13-25	GrLo	10YR4/2	A	NCM
	3	25-38	GrLo	10YR5/8	B	NCM
48	1	0-9	rootmat,leaves,humus		A/O	NCM
	2	9-29	GrLo	10YR4/2	A	NCM
	3	29-41	GrLo	10YR5/8	B	NCM
49	1	0-8	rootmat,leaves,humus		A/O	NCM
	2	8-28	GrLo	10YR4/2	A	NCM
	3	28-45	GrLo	10YR5/8	B	NCM
50	1	0-12	rootmat,leaves,humus		A/O	NCM
	2	12-28	GrLo	10YR4/2	A	NCM
	3	28-40	GrLo	10YR5/8	B	NCM
51	1	0-13	rootmat,leaves,humus		A/O	NCM
	2	13-30	GrLo	10YR4/2	A	NCM
	3	30-41	GrLo	10YR5/8	B	NCM
52	1	0-12	rootmat,leaves,humus		A/O	NCM
	2	12-27	GrLo	10YR4/2	A	NCM
	3	27-39	GrLo	10YR5/8	B	NCM

53	1	0-9	rootmat,leaves,humus		A/O	NCM
	2	9-25	GrLo	10YR4/2	A	NCM
	3	25-39	GrLo	10YR5/8	B	NCM
54	1	0-13	rootmat,leaves,humus		A/O	NCM
	2	13-bedrock				
55	1	0-10	rootmat,leaves,humus		A/O	NCM
	2	10-bedrock				
56	1	0-12	rootmat,leaves,humus		A/O	NCM
	2	12-18	GrLo	10YR4/2	A	NCM
	3	18-30	GrLo	10YR5/8	B	NCM
57	1	0-8	rootmat,leaves,humus		A/O	NCM
	2	8-29	GrLo	10YR4/2	A	NCM
	3	29-43	GrLo	10YR5/8	B	NCM
58	1	0-10	rootmat,leaves,humus		A/O	NCM
	2	10-29	GrLo	10YR4/2	A	NCM
	3	29-48	GrLo	10YR5/8	B	NCM
59	1	0-13	rootmat,leaves,humus		A/O	NCM
	2	13-30	GrLo	10YR4/2	A	NCM
	3	30-41	GrLo	10YR5/8	B	NCM
60	1	0-10	rootmat,leaves,humus		A/O	NCM
	2	10-30	GrLo	10YR4/2	A	NCM
	3	30-41	GrLo	10YR5/8	B	NCM
61	1	0-12	rootmat,leaves,humus		A/O	NCM
	2	12-28	GrLo	10YR4/2	A	NCM
	3	28-49	GrLo	10YR5/8	B	NCM
62	1	0-14	rootmat,leaves,humus		A/O	NCM
	2	14-29	GrLo	10YR4/2	A	NCM
	3	29-40	GrLo	10YR5/8	B	NCM
63	1	0-10	rootmat,leaves,humus		A/O	NCM
	2	10-30	GrLo	10YR4/2	A	NCM
	3	30-41	GrLo	10YR5/8	B	NCM
64	1	0-2	rootmat,leaves,humus		A/O	NCM
	2	2-27	GrLo	10YR4/2	A	NCM
	3	27-40	GrLo	10YR5/8	B	NCM
65	1	0-10	rootmat,leaves,humus		A/O	NCM
	2	10-30	GrLo	10YR4/2	A	NCM
	3	30-41	GrLo	10YR5/8	B	NCM
66	1	0-10	rootmat,leaves,humus		A/O	NCM
	2	10-30	GrLo	10YR4/2	A	NCM

	3	30-41	GrLo	10YR5/8	B	NCM
67	1	0-10	rootmat,leaves,humus		A/O	NCM
	2	10-28	GrLo	10YR4/2	A	NCM
	3	28-39	GrLo	10YR5/8	B	NCM
68	1	0-10	rootmat,leaves,humus		A/O	NCM
	2	10-30	GrLo	10YR4/2	A	NCM
	3	30-40	GrLo	10YR5/8	B	NCM
69	1	0-13	rootmat,leaves,humus		A/O	NCM
	2	13-26	GrLo	10YR4/2	A	NCM
	3	26-39	GrLo	10YR5/8	B	NCM
70	1	0-12	rootmat,leaves,humus		A/O	NCM
	2	12-27	GrLo	10YR4/2	A	NCM
	3	27-39	GrLo	10YR5/8	B	NCM
71	1	0-13	rootmat,leaves,humus		A/O	NCM
	2	13-31	GrLo	10YR4/2	A	NCM
	3	31-42	GrLo	10YR5/8	B	NCM
72	1	0-12	rootmat,leaves,humus		A/O	NCM
	2	12-32	GrLo	10YR4/2	A	NCM
	3	32-42	GrLo	10YR5/8	B	NCM
73	1	0-13	rootmat,leaves,humus		A/O	NCM
	2	13-29	GrLo	10YR4/2	A	NCM
	3	29-41	GrLo	10YR5/8	B	NCM
74	1	0-12	rootmat,leaves,humus		A/O	NCM
	2	12-30	GrLo	10YR4/2	A	NCM
	3	30-45	GrLo	10YR5/8	B	NCM
75	1	0-10	rootmat,leaves,humus		A/O	NCM
	2	10-30	GrLo	10YR4/2	A	NCM
	3	30-41	GrLo	10YR5/8	B	NCM
76	1	0-2	rootmat,leaves,humus		A/O	NCM
	2	2-29	GrLo	10YR4/2	A	NCM
	3	29-41	GrLo	10YR5/8	B	NCM
77	1	0-10	rootmat,leaves,humus		A/O	NCM
	2	10-30	GrLo	10YR4/2	A	NCM
	3	30-41	GrLo	10YR5/8	B	NCM
78	1	0-12	rootmat,leaves,humus		A/O	NCM
	2	12-30	GrLo	10YR4/2	A	NCM
	3	30-45	GrLo	10YR5/8	B	NCM
79	1	0-13	rootmat,leaves,humus		A/O	NCM
	2	13-33	GrLo	10YR4/2	A	NCM
	3	33-48	GrLo	10YR5/8	B	NCM

80	1	0-13	rootmat,leaves,humus		A/O	NCM
	2	13-33	GrLo	10YR4/2	A	NCM
	3	33-48	GrLo	10YR5/8	B	NCM
81	1	0-13	rootmat,leaves,humus		A/O	NCM
	2	13-36	GrLo	10YR4/2	A	NCM
	3	36-49	GrLo	10YR5/8	B	NCM
82	1	0-12	rootmat,leaves,humus		A/O	NCM
	2	12-29	GrLo	10YR4/2	A	NCM
	3	29-40	GrLo	10YR5/8	B	NCM
83	1	0-13	rootmat,leaves,humus		A/O	NCM
	2	13-32	GrLo,wet	10YR4/2	A	NCM
	3	32-42	GrLo	10YR5/8	B	NCM
84	1	0-13	rootmat,leaves,humus		A/O	NCM
	2	13-29	GrLo	10YR4/2	A	NCM
	3	29-41	GrLo	10YR5/8	B	NCM
85	1	0-12	rootmat,leaves,humus		A/O	NCM
	2	12-28	GrLo	10YR4/2	A	NCM
	3	28-40	GrLo	10YR5/8	B	NCM
86	1	0-9	rootmat,leaves,humus		A/O	NCM
	2	9-29	GrLo	10YR4/2	A	NCM
	3	29-39	GrLo	10YR5/8	B	NCM
87	1	0-10	rootmat,leaves,humus		A/O	NCM
	2	10-32	GrLo	10YR4/2	A	NCM
	3	32-47	GrLo	10YR5/8	B	NCM
88	1	0-14	rootmat,leaves,humus		A/O	NCM
	2	14-26	GrLo	10YR4/2	A	NCM
	3	26-39	GrLo	10YR5/8	B	NCM
89	1	0-13	rootmat,leaves,humus		A/O	NCM
	2	13-33	GrLo	10YR4/2	A	NCM
	3	33-48	GrLo	10YR5/8	B	NCM
90	1	0-13	rootmat,leaves,humus		A/O	NCM
	2	13-26	GrLo	10YR4/2	A	NCM
	3	26-38	GrLo	10YR5/8	B	NCM
91	1	0-13	rootmat,leaves,humus		A/O	NCM
	2	13-33	GrLo	10YR4/2	A	NCM
	3	33-48	GrLo	10YR5/8	B	NCM
92	1	0-13	rootmat,leaves,humus		A/O	NCM
	2	13-32	GrLo	10YR4/2	A	NCM
	3	32-42	GrLo	10YR5/8	B	NCM

93	1	0-13	rootmat,leaves,humus		A/O	NCM
	2	13-33	GrLo	10YR4/2	A	NCM
	3	33-48	GrLo	10YR5/8	B	NCM
94	1	0-14	rootmat,leaves,humus		A/O	NCM
	2	14-29	GrLo,wet	10YR4/2	A	NCM
	3	29-48	GrLo	10YR5/8	B	NCM
95	1	0-13	rootmat,leaves,humus		A/O	NCM
	2	13-32	GrLo	10YR4/2	A	NCM
	3	32-42	GrLo	10YR5/8	B	NCM
96	1	0-13	rootmat,leaves,humus		A/O	NCM
	2	13-32	GrLo	10YR4/2	A	NCM
	3	32-42	GrLo	10YR5/8	B	NCM
97	1	0-10	rootmat,leaves,humus		A/O	NCM
	2	10-32	GrLo	10YR4/2	A	NCM
	3	32-45	GrLo	10YR5/8	B	NCM
98	1	0-10	rootmat,leaves,humus		A/O	NCM
	2	10-32	GrLo	10YR4/2	A	NCM
	3	32-45	GrLo	10YR5/8	B	NCM
99	1	0-12	rootmat,leaves,humus		A/O	NCM
	2	12-25	GrLo	10YR4/2	A	NCM
	3	25-38	GrLo	10YR5/8	B	NCM
100	1	0-12	rootmat,leaves,humus		A/O	NCM
	2	12-34	GrLo	10YR4/2	A	NCM
	3	34-49	GrLo	10YR5/8	B	NCM
101	1	0-14	rootmat,leaves,humus		A/O	NCM
	2	14-28	GrLo	10YR4/2	A	NCM
	3	28-39	GrLo	10YR5/8	B	NCM
102	1	0-9	rootmat,leaves,humus		A/O	NCM
	2	9-30	GrLo	10YR4/2	A	NCM
	3	30-41	GrLo	10YR5/8	B	NCM
103	1	0-10	rootmat,leaves,humus		A/O	NCM
	2	10-31	GrLo	10YR4/2	A	NCM
	3	31-45	GrLo	10YR5/8	B	NCM
104	1	0-10	rootmat,leaves,humus		A/O	NCM
	2	10-31	GrLo	10YR4/2	A	NCM
	3	31-45	GrLo	10YR5/8	B	NCM
105	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-25	GrLo	10YR4/2	A	NCM
	3	25-37	GrLo	10YR5/8	B	NCM

106	1	0-9	rootmat,leaves,humus		A/O	NCM
	2	9-25	GrLo	10YR4/2	A	NCM
	3	25-37	GrLo	10YR5/8	B	NCM
107	1	0-8	rootmat,leaves,humus		A/O	NCM
	2	8-22	GrLo	10YR4/2	A	NCM
	3	22-35	GrLo	10YR5/8	B	NCM
108	1	0-7	rootmat,leaves,humus		A/O	NCM
	2	7-26	GrLo	10YR4/2	A	NCM
	3	26-38	GrLo	10YR5/8	B	NCM
109	1	0-9	rootmat,leaves,humus		A/O	NCM
	2	9-23	GrLo	10YR4/2	A	NCM
	3	23-31	GrLo	10YR5/8	B	NCM
110	1	0-10	rootmat,leaves,humus		A/O	NCM
	2	10-27	GrLo	10YR4/2	A	NCM
	3	27-39	GrLo	10YR5/8	B	NCM
111	1	0-8	rootmat,leaves,humus		A/O	NCM
	2	8-31	GrLo	10YR4/2	A	NCM
	3	31-42	GrLo	10YR5/8	B	NCM
112	1	0-5	rootmat,leaves,humus		A/O	NCM
	2	5-35	GrLo	10YR4/2	A	NCM
	3	35-41,rocks	GrLo	10YR5/8	B	NCM
113	1	0-10	rootmat,leaves,humus		A/O	NCM
	2	10-27	GrLo	10YR4/2	A	NCM
	3	27-39	GrLo	10YR5/8	B	NCM
114	1	0-10	rootmat,leaves,humus		A/O	NCM
	2	10-31	GrLo	10YR4/2	A	NCM
	3	31-45	GrLo	10YR5/8	B	NCM
115	1	0-8	rootmat,leaves,humus		A/O	NCM
	2	8-28	GrLo	10YR4/2	A	NCM
	3	28-40	GrLo	10YR5/8	B	NCM
116	1	0-8	rootmat,leaves,humus		A/O	NCM
	2	8-27	GrLo	10YR4/2	A	NCM
	3	27-40	GrLo	10YR5/8	B	NCM
117	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-13	GrLo	10YR4/2	A	NCM
	3	13-rocks				
118	1	0-10	rootmat,leaves,humus		A/O	NCM
	2	10-25	GrLo	10YR4/2	A	NCM
	3	25-37	GrLo	10YR5/8	B	NCM

119	1	0-8	rootmat,leaves,humus		A/O	NCM
	2	8-29	GrLo	10YR4/2	A	NCM
	3	29-39	GrLo	10YR5/8	B	NCM
120	1	0-13	rootmat,leaves,humus		A/O	NCM
	2	13-27	GrLo	10YR4/2	A	NCM
	3	27-40	GrLo	10YR5/8	B	NCM
121	1	0-10	rootmat,leaves,humus		A/O	NCM
	2	10-25	GrLo	10YR4/2	A	NCM
	3	25-37	GrLo	10YR5/8	B	NCM
122	1	0-10	rootmat,leaves,humus		A/O	NCM
	2	10-25	GrLo	10YR4/2	A	NCM
	3	25-37	GrLo	10YR5/8	B	NCM
123	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-28	GrLo	10YR4/2	A	NCM
	3	28-40	GrLo	10YR5/8	B	NCM
124	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-18	GrLo	10YR4/2	A	NCM
	3	18-39	GrLo	10YR5/8	B	NCM
125	1	0-10	rootmat,leaves,humus		A/O	NCM
	2	10-25	GrLo	10YR4/2	A	NCM
	3	25-37	GrLo	10YR5/8	B	NCM
126	1	0-10	rootmat,leaves,humus		A/O	NCM
	2	10-25	GrLo	10YR4/2	A	NCM
	3	25-37	GrLo	10YR5/8	B	NCM
127	1	0-9	rootmat,leaves,humus		A/O	NCM
	2	9-26	GrLo	10YR4/2	A	NCM
	3	26-40	GrLo	10YR5/8	B	NCM
128	1	0-9	rootmat,leaves,humus		A/O	NCM
	2	9-18	GrLo	10YR4/2	A	NCM
	3	18-30	GrLo	10YR5/8	B	NCM
129	1	0-10	rootmat,leaves,humus		A/O	NCM
	2	10-25	GrLo	10YR4/2	A	NCM
	3	25-37	GrLo	10YR5/8	B	NCM
130	1	0-8	rootmat,leaves,humus		A/O	NCM
	2	8-19	GrLo	10YR4/2	A	NCM
	3	19-30	GrLo	10YR5/8	B	NCM
131	1	0-13	rootmat,leaves,humus		A/O	NCM
	2	13-22	GrLo	10YR4/2	A	NCM
	3	22-35	GrLo	10YR5/8	B	NCM

132	1	0-12	rootmat,leaves,humus		A/O	NCM
	2	12-23	GrLo	10YR4/2	A	NCM
	3	23-35	GrLo	10YR5/8	B	NCM
133	1	0-13	rootmat,leaves,humus		A/O	NCM
	2	13-27	GrLo	10YR4/2	A	NCM
	3	27-39	GrLo	10YR5/8	B	NCM
134	1	0-12	rootmat,leaves,humus		A/O	NCM
	2	12-24	GrLo	10YR4/2	A	NCM
	3	24-38	GrLo	10YR5/8	B	NCM
135	1	0-10	rootmat,leaves,humus		A/O	NCM
	2	10-27	GrLo	10YR4/2	A	NCM
	3	27-39	GrLo	10YR5/8	B	NCM
136	1	0-7	rootmat,leaves,humus		A/O	NCM
	2	7-27	GrLo,gravel	10YR4/2	A	NCM
	3	27-40	GrLo,gravel	10YR5/8	B	NCM
137	1	0-7	rootmat,leaves,humus		A/O	NCM
	2	7-20	GrLo,gravel	10YR4/2	A	NCM
	3	20-23,rocks	GrLo	10YR5/8	B	NCM
138	1	0-9	rootmat,leaves,humus		A/O	NCM
	2	9-24	GrLo	10YR4/2	A	NCM
	3	24-35	GrLo	10YR5/8	B	NCM
139	1	0-9	rootmat,leaves,humus		A/O	NCM
	2	9-35	GrLo	10YR4/2	A	NCM
	3	35-45	GrLo	10YR5/8	B	NCM
140	1	0-8	rootmat,leaves,humus		A/O	NCM
	2	8-25	GrLo	10YR4/2	A	NCM
	3	25-41	GrLo	10YR5/8	B	NCM
141	1	0-8	rootmat,leaves,humus		A/O	NCM
	2	8-23	GrLo	10YR4/2	A	NCM
	3	23-35	GrLo	10YR5/8	B	NCM
142	1	0-11	rootmat,leaves,humus		A/O	NCM
	2	11-24	GrLo,gravel	10YR4/2	A	NCM
	3	24-38	GrLo	10YR5/8	B	NCM
143	1	0-13	rootmat,leaves,humus		A/O	NCM
	2	13-30	GrLo	10YR4/2	A	NCM
	3	30-41	GrLo	10YR5/8	B	NCM
144	1	0-12	rootmat,leaves,humus		A/O	NCM
	2	12-27	GrLo	10YR4/2	A	NCM

	3	27-39	GrLo	10YR5/8	B	NCM
145	1	0-13	rootmat,leaves,humus		A/O	NCM
	2	13-22	GrLo	10YR4/2	A	NCM
	3	22-35	GrLo	10YR5/8	B	NCM
146	1	0-10	rootmat,leaves,humus		A/O	NCM
	2	10-18	GrLo	10YR4/2	A	NCM
	3	18-rock				
147	1	0-10	rootmat,leaves,humus		A/O	NCM
	2	10-25	GrLo	10YR4/2	A	NCM
	3	25-37	GrLo	10YR5/8	B	NCM
148	1	0-12	rootmat,leaves,humus		A/O	NCM
	2	12-26	GrLo	10YR4/2	A	NCM
	3	26-38	GrLo	10YR5/8	B	NCM
149	1	0-10	rootmat,leaves,humus		A/O	NCM
	2	10-27	GrLo	10YR4/2	A	NCM
	3	27-37	GrLo	10YR5/8	B	NCM
150	1	0-10	rootmat,leaves,humus		A/O	NCM
	2	10-25	GrLo	10YR4/2	A	NCM
	3	25-37	GrLo	10YR5/8	B	NCM
151	1	0-14	rootmat,leaves,humus		A/O	NCM
	2	14-17	GrLo	10YR4/2	A	NCM
	3	17-rocks				
152	1	0-12	rootmat,leaves,humus		A/O	NCM
	2	12-28	GrLo	10YR4/2	A	NCM
	3	28-40	GrLo	10YR5/8	B	NCM
153	1	0-12	rootmat,leavls,humus		A/O	NCM
	2	12-28	GrLo	10YR4/2	A	NCM
	3	28-40	GrLo	10YR5/8	B	NCM
154	1	0-12	rootmat,leaves,humus		A/O	NCM
	2	12-31	GrLo	10YR4/2	A	NCM
	3	31-43	GrLo	10YR5/8	B	NCM
155	1	0-13	rootmat,leaves,humus		A/O	NCM
	2	13-28	GrLo	10YR4/2	A	NCM
	3	28-40	GrLo	10YR5/8	B	NCM
156	1	0-12	rootmat,leaves,humus		A/O	NCM
	2	12-26	GrLo	10YR4/2	A	NCM
	3	26-38	GrLo	10YR5/8	B	NCM
157	1	0-12	rootmat,leaves,humus		A/O	NCM
	2	12-27	GrLo	10YR4/2	A	NCM
	3	27-38	GrLo	10YR5/8	B	NCM

158	1	0-13	rootmat,leaves,humus		A/O	NCM
	2	13-26	GrLo	10YR4/2	A	NCM
	3	26-37	GrLo	10YR5/8	B	NCM
159	1	0-13	rootmat,leaves,humus		A/O	NCM
	2	13-34	GrLo	10YR4/2	A	NCM
	3	34-45	GrLo	10YR5/8	B	NCM
160	1	0-14	rootmat,leaves,humus		A/O	NCM
	2	14-26	GrLo	10YR4/2	A	NCM
	3	26-39	GrLo	10YR5/8	B	NCM
161	1	0-13	rootmat,leaves,humus		A/O	NCM
	2	13-27	GrLo	10YR4/2	A	NCM
	3	27-37	GrLo	10YR5/8	B	NCM
162	1	0-13	rootmat,leaves,humus		A/O	NCM
	2	13-29	GrLo	10YR4/2	A	NCM
	3	29-40	GrLo	10YR5/8	B	NCM
163	1	0-15	rootmat,leaves,humus		A/O	NCM
	2	15-27	GrLo	10YR4/2	A	NCM
	3	27-43	GrLo	10YR5/8	B	NCM
164	1	0-13	rootmat,leaves,humus		A/O	NCM
	2	13-29	GrLo	10YR4/2	A	NCM
	3	29-41	GrLo	10YR5/8	B	NCM
165	1	0-13	rootmat,leaves,humus		A/O	NCM
	2	13-28	GrLo	10YR4/2	A	NCM
	3	28-38	GrLo	10YR5/8	B	NCM
166	1	0-14	rootmat,leaves,humus		A/O	NCM
	2	14-27	GrLo	10YR4/2	A	NCM
	3	27-38	GrLo	10YR5/8	B	NCM
167	1	0-13	rootmat,leaves,humus		A/O	NCM
	2	13-30	GrLo	10YR4/2	A	NCM
	3	30-40	GrLo	10YR5/8	B	NCM
168	1	0-12	rootmat,leaves,humus		A/O	NCM
	2	12-32	GrLo	10YR4/2	A	NCM
	3	32-43	GrLo	10YR5/8	B	NCM
169	1	0-13	rootmat,leaves,humus		A/O	NCM
	2	13-26	GrLo	10YR4/2	A	NCM
	3	26-37	GrLo	10YR5/8	B	NCM
170	1	0-12	rootmat,leaves,humus		A/O	NCM
	2	12-26	GrLo	10YR4/2	A	NCM
	3	26-40	GrLo	10YR5/8	B	NCM

171	1	0-12	rootmat,leaves,humus		A/O	NCM
	2	12-26	GrLo	10YR4/2	A	NCM
	3	26-38	GrLo	10YR5/8	B	NCM
172	1	0-12	rootmat,leaves,humus		A/O	NCM
	2	12-27	GrLo	10YR4/2	A	NCM
	3	27-38	GrLo	10YR5/8	B	NCM
173	1	0-12	rootmat,leaves,humus		A/O	NCM
	2	12-19	GrLo	10YR4/2	A	NCM
	3	9-rock				
174	1	0-12	rootmat,leaves,humus		A/O	NCM
	2	12-33	GrLo	10YR4/2	A	NCM
	3	33-43	GrLo	10YR5/8	B	NCM
175	1	0-10	rootmat,leaves,humus		A/O	NCM
	2	10-25	GrLo	10YR4/2	A	NCM
	3	25-37	GrLo	10YR5/8	B	NCM
176	1	0-10	rootmat,leaves,humus		A/O	NCM
	2	10-25	GrLo	10YR4/2	A	NCM
	3	25-37	GrLo	10YR5/8	B	NCM
177	1	0-10	rootmat,leaves,humus		A/O	NCM
	2	10-27	GrLo	10YR4/2	A	NCM
	3	27-37	GrLo	10YR5/8	B	NCM
178	1	0-10	rootmat,leaves,humus		A/O	NCM
	2	10-26	GrLo	10YR4/2	A	NCM
	3	26-38	GrLo	10YR5/8	B	NCM
179	1	0-12	rootmat,leaves,humus		A/O	NCM
	2	12-27	GrLo	10YR4/2	A	NCM
	3	27-38	GrLo	10YR5/8	B	NCM
180	1	0-12	rootmat,leaves,humus		A/O	NCM
	2	12-26	GrLo	10YR4/2	A	NCM
	3	26-39	GrLo	10YR5/8	B	NCM
181	1	0-13	rootmat,leaves,humus		A/O	NCM
	2	13-26	GrLo	10YR4/2	A	NCM
	3	26-38	GrLo	10YR5/8	B	NCM
182	1	0-7	rootmat,leaves,humus		A/O	NCM
	2	7-27	GrLo	10YR4/2	A	NCM
	3	27-38	GrLo	10YR5/8	B	NCM
183	1	0-7	rootmat,leaves,humus		A/O	NCM
	2	7-17	GrLo	10YR4/2	A	NCM
	3	17-bedrock				

184	1	0-4	rootmat,leaves,humus		A/O	NCM
	2	4-12	GrLo	10YR4/2	A	NCM
	3	12-20,rock	GrLo	10YR4/2	A	NCM
185	1	0-8	rootmat,leaves,humus		A/O	NCM
	2	8-19	GrLo	10YR4/2	A	NCM
	3	19-31	GrLo	10YR5/8	B	NCM
186	1	0-10	rootmat,leaves,humus		A/O	NCM
	2	10-25	GrLo	10YR4/2	A	NCM
	3	25-37	GrLo	10YR5/8	B	NCM
187	1	0-6	rootmat,leaves,humus		A/O	NCM
	2	6-16	GrLo	10YR4/2	A	NCM
	3	16-26	GrLo	10YR5/8	B	NCM
188	1	0-8	rootmat,leaves,humus		A/O	NCM
	2	8-28	GrLo	10YR4/2	A	NCM
	3	28-41	GrLo	10YR4/2	A	NCM
189	1	0-13	rootmat,leaves,humus		A/O	NCM
	2	13-24	GrLo	10YR4/2	A	NCM
	3	24-38	GrLo	10YR5/8	B	NCM
190	1	0-14	rootmat,leaves,humus		A/O	NCM
	2	14-25	GrLo	10YR4/2	A	NCM
	3	25-37	GrLo	10YR5/8	B	NCM
191	1	0-9	rootmat,leaves,humus		A/O	NCM
	2	9-31	GrLo	10YR4/2	A	NCM
	3	31-42	GrLo	10YR5/8	B	NCM
192	1	0-8	rootmat,leaves,humus		A/O	NCM
	2	8-24	GrLo	10YR4/2	A	NCM
	3	24-38	GrLo	10YR5/8	B	NCM
193	1	0-9	rootmat,leaves,humus		A/O	NCM
	2	9-20	GrLo	10YR4/2	A	NCM
	3	20-30	GrLo	10YR5/8	B	NCM
194	1	0-9	rootmat,leaves,humus		A/O	NCM
	2	9-28	GrLo	10YR4/2	A	NCM
	3	28-40	GrLo	10YR5/8	B	NCM
195	1	0-12	rootmat,leaves,humus		A/O	NCM
	2	12-30	GrLo	10YR4/2	A	NCM
	3	30-45	GrLo	10YR4/2	A	NCM
196	1	0-13	rootmat,leaves,humus		A/O	NCM
	2	13-29	GrLo	10YR4/2	A	NCM
	3	29-48	GrLo	10YR5/8	B	NCM

197	1	0-13	rootmat,leaves,humus		A/O	NCM
	2	13-25	GrLo	10YR4/2	A	NCM
	3	25-37	GrLo	10YR5/8	B	NCM
198	1	0-13	rootmat,leaves,humus		A/O	NCM
	2	13-25	GrLo	10YR4/2	A	NCM
	3	25-38	GrLo	10YR4/2	A	NCM
199	1	0-13	rootmat,leaves,humus		A/O	NCM
	2	13-28	GrLo	10YR4/2	A	NCM
	3	28-40	GrLo	10YR5/8	B	NCM
200	1	0-12	rootmat,leaves,humus		A/O	NCM
	2	12-28	GrLo	10YR4/2	A	NCM
	3	28-40	GrLo	10YR5/8	B	NCM
201	1	0-14	rootmat,leaves,humus		A/O	NCM
	2	14-28	GrLo	10YR4/2	A	NCM
	3	28-39	GrLo	10YR5/8	B	NCM
202	1	0-12	rootmat,leaves,humus		A/O	NCM
	2	12-30	GrLo	10YR4/2	A	NCM
	3	30-42	GrLo	10YR5/8	B	NCM
203	1	0-13	rootmat,leaves,humus		A/O	NCM
	2	13-28	GrLo	10YR4/2	A	NCM
	3	28-38	GrLo	10YR5/8	B	NCM
204	1	0-10	rootmat,leaves,humus		A/O	NCM
	2	10-25	GrLo	10YR4/2	A	NCM
	3	25-37	GrLo	10YR5/8	B	NCM
205	1	0-7	rootmat,leaves,humus		A/O	NCM
	2	7-26	GrLo	10YR4/2	A	NCM
	3	26-37	GrLo	10YR5/8	B	NCM
206	1	0-13	rootmat,leaves,humus		A/O	NCM
	2	13-33	GrLo	10YR4/2	A	NCM
	3	33-44	GrLo	10YR5/8	B	NCM
207	1	0-13	rootmat,leaves,humus		A/O	NCM
	2	13-29	GrLo	10YR4/2	A	NCM
	3	290-39	GrLo	10YR5/8	B	NCM
208	1	0-14	rootmat,leaves,humus		A/O	NCM
	2	14-28	GrLo	10YR4/2	A	NCM
	3	28-43	GrLo	10YR5/8	B	NCM
209	1	0-13	rootmat,leaves,humus		A/O	NCM
	2	13-28	GrLo	10YR4/2	A	NCM
	3	28-39	GrLo	10YR5/8	B	NCM

210	1	0-13	rootmat,leaves,humus		A/O	NCM
	2	13-26	GrLo	10YR4/2	A	NCM
	3	26-39	GrLo	10YR5/8	B	NCM
211	1	0-12	rootmat,leaves,humus		A/O	NCM
	2	12-28	GrLo	10YR4/2	A	NCM
	3	28-39	GrLo	10YR5/8	B	NCM
212	1	0-13	rootmat,leaves,humus		A/O	NCM
	2	13-25	GrLo	10YR4/2	A	NCM
	3	25-39	GrLo	10YR5/8	B	NCM
213	1	0-13	rootmat,leaves,humus		A/O	NCM
	2	13-29	GrLo	10YR4/2	A	NCM
	3	29-39	GrLo	10YR5/8	B	NCM
214	1	0-13	rootmat,leaves,humus		A/O	NCM
	2	13-30	GrLo	10YR4/2	A	NCM
	3	30-40	GrLo	10YR5/8	B	NCM
215	1	0-13	rootmat,leaves,humus		A/O	NCM
	2	13-30	GrLo	10YR4/2	A	NCM
	3	30-40	GrLo	10YR5/8	B	NCM
216	1	0-13	rootmat,leaves,humus		A/O	NCM
	2	13-30	GrLo	10YR4/2	A	NCM
	3	30-41	GrLo	10YR5/8	B	NCM
217	1	0-14	rootmat,leaves,humus		A/O	NCM
	2	14-30	GrLo	10YR4/2	A	NCM
	3	30-42	GrLo	10YR5/8	B	NCM
218	1	0-13	rootmat,leaves,humus		A/O	NCM
	2	13-27	GrLo	10YR4/2	A	NCM
	3	27-38	GrLo	10YR5/8	B	NCM
219	1	0-13	rootmat,leaves,humus		A/O	NCM
	2	13-28	GrLo	10YR4/2	A	NCM
	3	28-40	GrLo	10YR5/8	B	NCM
220	1	0-13	rootmat,leaves,humus		A/O	NCM
	2	13-24	GrLo	10YR4/2	A	NCM
	2	24-34	GrLo	10YR4/2	A	NCM
221	1	0-7	rootmat,leaves,humus		A/O	NCM
	2	7-25	GrLo	10YR4/2	A	NCM
	3	25-36	GrLo	10YR4/2	A	NCM
222	1	0-6	rootmat,leaves,humus		A/O	NCM
	2	6-22	GrLo	10YR4/2	A	NCM
	3	22-34	GrLo	10YR4/2	A	NCM

223	1	0-6	rootmat,leaves,humus		A/O	NCM
	2	6-24	GrLo	10YR4/2	A	NCM
	3	24-37	GrLo	10YR5/8	B	NCM
224	1	0-7	rootmat,leaves,humus		A/O	NCM
	2	7-28	GrLo	10YR4/2	A	NCM
	3	28-40	GrLo	10YR5/8	B	NCM
225	1	0-6	rootmat,leaves,humus		A/O	NCM
	2	6-26	GrLo	10YR4/2	A	NCM
	3	26-rock				
226	1	0-7	rootmat,leaves,humus		A/O	NCM
	2	7-27	GrLo	10YR4/2	A	NCM
	3	27-38	GrLo	10YR4/2	A	NCM
227	1	0-9	rootmat,leaves,humus		A/O	NCM
	2	9-24	GrLo	10YR4/2	A	NCM
	3	24-38	GrLo	10YR5/8	B	NCM
228	1	0-7	rootmat,leaves,humus		A/O	NCM
	2	4-21	GrLo	10YR4/2	A	NCM
	3	21-rock				
229	1	0-9	rootmat,leaves,humus		A/O	NCM
	2	9-20	GrLo	10YR4/2	A	NCM
	3	20-35	GrLo	10YR4/2	A	NCM
230	1	0-5	rootmat,leaves,humus		A/O	NCM
	2	5-22	GrLo	10YR4/2	A	NCM
	3	22-35	GrLo	10YR5/8	B	NCM
231	1	0-6	rootmat,leaves,humus		A/O	NCM
	2	6-17	GrLo	10YR4/2	A	NCM
	3	17-30	GrLo	10YR5/8	B	NCM
232	1	0-6	rootmat,leaves,humus		A/O	NCM
	2	6-bedrock				
233	1	0-8	rootmat,leaves,humus		A/O	NCM
	2	8-27	GrLo	10YR4/2	A	NCM
	3	27-37	GrLo	10YR5/8	B	NCM
234	1	0-9	rootmat,leaves,humus		A/O	NCM
	2	9-25	GrLo	10YR4/2	A	NCM
	3	25-35	GrLo	10YR5/8	B	NCM
235	1	0-9	rootmat,leaves,humus		A/O	NCM
	2	9-25	GrLo	10YR4/2	A	NCM
	3	25-35	GrLo	10YR5/8	B	NCM
236	1	0-9	rootmat,leaves,humus		A/O	NCM

237	2	9-24	GrLo	10YR4/2	A	NCM
	3	24-37	GrLo	10YR5/8	B	NCM
	1	0-10	rootmat,leaves,humus		A/O	NCM
	2	10-28	GrLo	10YR4/2	A	NCM
	3	28-38	GrLo	10YR5/8	B	NCM
238	1	0-8	rootmat,leaves,humus		A/O	NCM
	2	8-18	GrLo	10YR4/2	A	NCM
	3	18-31	GrLo	10YR5/8	B	NCM
239	1	0-6	rootmat,leaves,humus		A/O	NCM
	2	6-15	GrLo	10YR4/2	A	NCM
	3	15-27	GrLo	10YR5/8	B	NCM
240	1	0-5	rootmat,leaves,humus		A/O	NCM
	2	5-12	GrLo	10YR4/2	A	NCM
	3	12-rock				
241	1	0-9	rootmat,leaves,humus		A/O	NCM
	2	9-25	GrLo	10YR4/2	A	NCM
	3	25-40	GrLo	10YR5/8	B	NCM
242	1	0-9	rootmat,leaves,humus		A/O	NCM
	2	9-24	GrLo	10YR4/2	A	NCM
	3	24-35	GrLo	10YR5/8	B	NCM
243	1	0-10	rootmat,leaves,humus		A/O	NCM
	2	10-23	GrLo	10YR4/2	A	NCM
	3	23-rock				
244	1	0-10	rootmat,leaves,humus		A/O	NCM
	2	10-25	GrLo	10YR4/2	A	NCM
	3	25-36	GrLo	10YR5/8	B	NCM
245	1	0-10	rootmat,leaves,humus		A/O	NCM
	2	10-20	GrLo	10YR4/2	A	NCM
	3	20-rocks				
246	1	0-14	rootmat,leaves,humus		A/O	NCM
	2	14-20	GrLo	10YR4/2	A	NCM
	3	20-rocks				
247	1	0-13	rootmat,leaves,humus		A/O	NCM
	2	13-25	GrLo	10YR4/2	A	NCM
	3	25-38	GrLo	10YR5/8	B	NCM
248	1	0-13	rootmat,leaves,humus		A/O	NCM
	2	13-26	GrLo	10YR4/2	A	NCM
	3	26-37	GrLo	10YR5/8	B	NCM
249	1	0-12	rootmat,leaves,humus		A/O	NCM
	2	12-30	GrLo	10YR4/2	A	NCM
	3	30-41	GrLo	10YR5/8	B	NCM

250	1	0-12	rootmat,leaves,humus		A/O	NCM
	2	12-27	GrLo	10YR4/2	A	NCM
	3	27-37	GrLo	10YR5/8	B	NCM
251	1	0-2	rootmat,leaves,humus		A/O	NCM
	2	2-12	GrLo	10YR4/2	A	NCM
	3	12-21	GrLo	10YR5/8	B	NCM
252	1	0-13	rootmat,leaves,humus		A/O	NCM
	2	13-30	GrLo	10YR4/2	A	NCM
	3	30-40	GrLo	10YR5/8	B	NCM
253	1	0-12	rootmat,leaves,humus		A/O	NCM
	2	12-31	GrLo	10YR4/2	A	NCM
	3	31-41	GrLo	10YR5/8	B	NCM
254	1	0-13	rootmat,leaves,humus		A/O	NCM
	2	13-32	GrLo	10YR4/2	A	NCM
	3	32-40	GrLo	10YR5/8	B	NCM
255	1	0-13	rootmat,leaves,humus		A/O	NCM
	2	13-26	GrLo	10YR4/2	A	NCM
	3	26-37	GrLo	10YR5/8	B	NCM
256	1	0-12	rootmat,leaves,humus		A/O	NCM
	2	12-32	GrLo	10YR4/2	A	NCM
	3	32-45	GrLo	10YR5/8	B	NCM
257	1	0-13	rootmat,leaves,humus		A/O	NCM
	2	13-30	GrLo	10YR4/2	A	NCM
	3	30-41	GrLo	10YR5/8	B	NCM
258	1	0-13	rootmat,leaves,humus		A/O	NCM
	2	13-30	GrLo	10YR4/2	A	NCM
	3	30-40	GrLo	10YR5/8	B	NCM
259	1	0-12	rootmat,leaves,humus		A/O	NCM
	2	12-29	GrLo	10YR4/2	A	NCM
	3	29-39	GrLo	10YR5/8	B	NCM
260	1	0-13	rootmat,leave,humus		A/O	NCM
	2	13-30	GrLo	10YR4/2	A	NCM
	3	30-41	GrLo	10YR5/8	B	NCM
261	1	0-12	rootmat,leaves,humus		A/O	NCM
	2	12-22	GrLo	10YR4/2	A	NCM
	3	22-38	GrLo	10YR5/8	B	NCM
262	1	0-14	rootmat,leaves,humus		A/O	NCM
	2	14-33	GrLo	10YR4/2	A	NCM
	3	33-45	GrLo	10YR5/8	B	NCM

263	1	0-13	rootmat,leaves,humus		A/O	NCM
	2	13-30	GrLo	10YR4/2	A	NCM
	3	30-40	GrLo	10YR5/8	B	NCM
264	1	0-12	rootmat,leaves,humus		A/O	NCM
	2	12-27	GrLo	10YR4/2	A	NCM
	3	27-40	GrLo	10YR5/8	B	NCM
265	1	0-13	rootmat,leaves,humus		A/O	NCM
	2	13-30	GrLo	10YR4/2	A	NCM
	3	30-40	GrLo	10YR5/8	B	NCM
266	1	0-13	rootmat,leaves,humus		A/O	NCM
	2	13-28	GrLo	10YR4/2	A	NCM
	3	28-38	GrLo	10YR5/8	B	NCM
267	1	0-13	rootmat,leaves,humus		A/O	NCM
	2	13-25	GrLo	10YR4/2	A	NCM
	3	25-40	GrLo	10YR5/8	B	NCM
268	1	0-13	rootmat,leaves,humus		A/O	NCM
	2	13-22	GrLo	10YR4/2	A	NCM
	3	22-32	GrLo	10YR5/8	B	NCM
269	1	0-9	rootmat,leaves,humus		A/O	NCM
	2	9-27	GrLo	10YR4/2	A	NCM
	3	27-37	GrLo	10YR5/8	B	NCM
270	1	0-8	rootmat,leaves,humus		A/O	NCM
	2	8-17	GrLo	10YR4/2	A	NCM
	3	17-29	GrLo	10YR5/8	B	NCM
271	1	0-9	rootmat,leaves,humus		A/O	NCM
	2	9-20	GrLo	10YR4/2	A	NCM
	3	20-40	GrLo	10YR5/8	B	NCM
272	1	0-9	rootmat,leaves,humus		A/O	NCM
	2	9-22	GrLo	10YR4/2	A	NCM
	3	22-32	GrLo	10YR5/8	B	NCM
273	1	0-8	rootmat,leaves,humus		A/O	NCM
	2	8-19	GrLo	10YR4/2	A	NCM
	3	19-31	GrLo	10YR5/8	B	NCM
274	1	0-8	rootmat,leaves,humus		A/O	NCM
	2	8-20	GrLo	10YR4/2	A	NCM
	3	20-31	GrLo	10YR5/8	B	NCM
275	1	0-8	rootmat,leaves,humus		A/O	NCM
	2	8-22	GrLo	10YR4/2	A	NCM
	3	22-32	GrLo,wet	10YR5/8	B	NCM

276	1	0-8	rootmat,leaves,humus		A/O	NCM
	2	8-25	GrLo	10YR4/2	A	NCM
	3	25-37	GrLo	10YR5/8	B	NCM
277	1	0-8	rootmat,leaves,humus		A/O	NCM
	2	8-21	GrLo	10YR4/2	A	NCM
	3	21-rock				
278	1	0-9	rootmat,leaves,humus		A/O	NCM
	2	9-18	GrLo	10YR4/2	A	NCM
	3	18-31	GrLo	10YR5/8	B	NCM
279	1	0-9	rootmat,leaves,humus		A/O	NCM
	2	9-21	GrLo	10YR4/2	A	NCM
	3	21-32	GrLo	10YR5/8	B	NCM
280	1	0-12	rootmat,leaves,humus		A/O	NCM
	2	12-22	GrLo	10YR4/2	A	NCM
	3	22-33	GrLo	10YR5/8	B	NCM
281	1	0-13	rootmat,leaves,humus		A/O	NCM
	2	13-19	GrLo	10YR4/2	A	NCM
	3	19-30	GrLo	10YR5/8	B	NCM
282	1	0-12	rootmat,leaves,humus		A/O	NCM
	2	12-20	GrLo	10YR4/2	A	NCM
	3	20-30	GrLo	10YR5/8	B	NCM
283	1	0-13	rootmat,leaves,humus		A/O	NCM
	2	13-21	GrLo,wet	10YR4/2	A	NCM
	3	21-35	GrLo	10YR5/8	B	NCM
284	1	0-13	rootmat,leaves,humus		A/O	NCM
	2	13-25	GrLo	10YR4/2	A	NCM
	3	25-35	GrLo	10YR5/8	B	NCM
285	1	0-12	rootmat,leaves,humus		A/O	NCM
	2	12-32	GrLo	10YR4/2	A	NCM
	3	32-44	GrLo	10YR5/8	B	NCM
286	1	0-13	rootmat,leaves,humus		A/O	NCM
	2	13-31	GrLo	10YR4/2	A	NCM
	3	31-43	GrLo	10YR5/8	B	NCM
287	1	0-13	rootmat,leaves,humus		A/O	NCM
	2	13-30	GrLo	10YR4/2	A	NCM
	3	30-40	GrLo	10YR5/8	B	NCM
288	1	0-12	rootmat,leaves,humus		A/O	NCM
	2	12-32	GrLo	10YR4/2	A	NCM
	3	32-42	GrLo	10YR5/8	B	NCM

289	1	0-13	rootmat,leaves,humus		A/O	NCM
	2	13-26	GrLo	10YR4/2	A	NCM
	3	26-36	GrLo	10YR5/8	B	NCM
290	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-22	GrLo	10YR4/2	A	NCM
	3	22-32	GrLo	10YR5/8	B	NCM
291	1	0-13	rootmat,leaves,humus		A/O	NCM
	2	13-23	GrLo	10YR4/2	A	NCM
	3	23-35	GrLo	10YR5/8	B	NCM
292	1	0-13	rootmat,leaves,humus		A/O	NCM
	2	13-22	GrLo	10YR4/2	A	NCM
	3	22-32	GrLo	10YR5/8	B	NCM
293	1	0-9	rootmat,leaves,humus		A/O	NCM
	2	9-13	GrLo	10YR4/2	A	NCM
	3	13-28	GrLo	10YR5/8	B	NCM
294	1	0-8	rootmat,leaves,humus		A/O	NCM
	2	8-18	GrLo,wet	10YR4/2	A	NCM
	3	18-bedrock				
295	1	0-12	rootmat,leaves,humus		A/O	NCM
	2	12-24	GrLo	10YR4/2	A	NCM
	3	24-34	GrLo	10YR5/8	B	NCM
296	1	0-12	rootmat,leaves,humus		A/O	NCM
	2	12-16	GrLo	10YR4/2	A	NCM
	3	16-bedrock				
297	1	0-13	rootmat,leaves,humus		A/O	NCM
	2	13-30	GrLo	10YR4/2	A	NCM
	3	30-40	GrLo	10YR5/8	B	NCM
298	1	0-13	rootmat,leaves,humus		A/O	NCM
	2	13-26	GrLo	10YR4/2	A	NCM
	3	26-36	GrLo	10YR5/8	B	NCM
299	1	0-9	rootmat,leaves,humus		A/O	NCM
	2	9-22	GrLo	10YR4/2	A	NCM
	3	22-35	GrLo	10YR5/8	B	NCM

APPENDIX 3

Table of Map Documented Structures

Location	MA	On or Adjacent to Project Area	Owner	Eco-niche	Comments
north side of Laroe Rd. west of Walton Lake/Lakes Rd.	1850	adjacent	J. Gray	agricultural	Fig. 6
same as above	1875	on	na	agricultural	Fig. 7
same as above	1908	on	na	rural	Fig. 8