

SITE NAME: Willow Creek Glen and Lake Slopes**SITE CODE:** UNA-61**DATA LAST UPDATED:** 1/3/00**OLD SITE CODE:** UL-06**LOCATION****Municipality:** Town of Ulysses**Latitude:** 42 31 12 N**USGS Quad:** Ludlowville**Longitude:** 76 34 58 W**Tax Parcel Numbers Included in this Site:**

Tax parcel data is accurate as of July 1, 1999. For up-to-date information on tax parcel descriptions and ownership, contact the Tompkins County Assessment Department. When a UNA covered less than 0.025 ac. of a parcel, the parcel was excluded from this list.

UL 17.-1-1.2	UL 18.-1-12.111	UL 18.-1-12.112	UL 18.-1-13	UL 18.-1-14	UL 18.-1-16.51	UL 18.-1-17.12
UL 18.-1-17.2	UL 18.-1-17.3	UL 18.-1-18	UL 18.-1-19.21	UL 18.-1-19.22	UL 18.-1-19.3	UL 18.-1-19.4
UL 18.-1-19.5	UL 18.-1-19.62	UL 18.-1-19.7	UL 18.-1-19.8	UL 18.-1-19.9	UL 18.-4-1.1	UL 18.-4-1.2
UL 18.-4-10.3	UL 18.-4-11	UL 18.-4-17.2	UL 18.-4-18.2	UL 18.-4-2	UL 18.-4-20	UL 18.-4-26.2
UL 18.-4-27	UL 18.-4-28.12	UL 18.-4-28.2	UL 18.-4-29.1	UL 18.-4-29.2	UL 18.-4-29.3	UL 18.-4-3
UL 18.-4-30	UL 18.-4-36	UL 26.-1-10.1	UL 26.-1-10.2	UL 26.-1-11	UL 26.-1-6	UL 26.-1-7
UL 26.-1-8	UL 26.-1-9					

SITE AND VEGETATION DESCRIPTION

This UNA includes a steep-sided gorge and waterfalls at Willow Creek Gorge, and the adjacent forested slopes on the west side of Cayuga Lake. Other streams dissect the slope. This site includes a very high diversity of forest tree species, with a diverse herbaceous cover. Forests on steeper sections of the hillside are dominated by oak-hickory forests with white pine common. On some more level sections successional forests grow on abandoned farmland. Forests on the north-facing slopes of the gorge are dominated by hemlock with beech, red maple, and yellow birch present. Mosses and ferns are prevalent on the rock outcrops. Forests on the south-facing slopes of the gorge are dominated by sugar maple with basswood, red maple, and white ash also abundant. Forests on the north-facing gorge slope are dense, with a full canopy and tall trees. On the drier south-facing gorge slopes, the canopy is more open. Along the gorge bottom is a small area with a floodplain associated with sycamore, cottonwood, American elm, and box elder.

REASONS FOR SELECTION

- Area of geologic importance
- Scenic/Aesthetic value
- Quality example of plant community
- Rare or scarce plants
- Old-growth forest

SPECIAL LAND-USE INFORMATION**Special Land-Use Designations and Features**

- A mature forest stand with trees over 150 years old is found on this site.
- Some or all of this site lies in an agricultural district, certified pursuant to NYS Agriculture and Markets Law.
- The Tompkins County Greenway Coalition has identified a biological corridor which includes this site.
- The Tompkins County Greenway Coalition has identified a possible multi-use trail on this site.

Water Resources

- Wetlands identified on the National Wetlands Inventory are found on this site.
- All or some of a lake or pond is found on this site.
- A stream runs through this site.
- A NYS protected stream runs through this site.

CONSERVATION OF THE SITE

Adjacent Land-Use: Lake cottages, residential, and agricultural.

Sensitivity of Site to Visitors: The site is considered quite vulnerable to disturbance by visitors, as the shaley banks are erosive.

Evidence of Disturbance and Threats to Site: Some areas have been logged, cottages have been built, and Periwinkle (*Vinca minor*) has invaded the area from old home sites. Continued lake shore development and expansion of houses are the main threats to the site.

Special Conservation/Management Needs: Periwinkle (*Vinca minor*) and other weedy plants should be removed from this site. Periwinkle has destroyed parts of this glen. The site does not have an adequate protective buffer.

Other Comments: Trails exist in some places in this area. The site is very scenic.

PHYSICAL CHARACTERISTICS OF THE SITE

Size (acres): 272.486 Elevation (ft.): 391 to 832 Aspect: NE, NW, SE

Topographic Features

Steep slope cut by creek gorge with waterfalls.

Geological Features

Excellent exposure of lower Genesee group. Tully limestone and 150 ft. of Moscow shale present. Joint plane fracturing, glacial erratics, fossiliferous shales, and limestone.

Soils Present on the Site

Soil characteristics of the site were determined manually and are approximate. In the future, digital soil data will provide more accurate information.

Slope %

- Flat
- 3 to 15
- 15 to 25
- Over 25

Topographic Position

- Crest
- Upper Slope
- Mid Slope
- Lower Slope
- Bottom

Plant Species

Although substantial effort was made to identify significant plant species on this site, it is possible that additional rare or scarce species exist that do not show up in this report. A field check is always recommended prior to modifying the landscape. Detailed information regarding each species' rareness and status may be found in Appendix D. For up-to-date information on species, contact the NY Natural Heritage Program (518-783-

Rarity: (Key: No checkmarks indicate that no species fall within those categories.)

- Global - At least one plant species designated as rare or scarce at the global level by The Nature Conservancy is found on this site.
- State - At least one plant species designated as rare or scarce at the state level by The Nature Conservancy and the New York Natural Heritage Program is found on this site.
- Local - At least one plant species designated as rare or scarce at the local level by the Tompkins County EMC and the Cornell Plantations is found on this site.

Legal Status:

- Federal - At least one plant species designated as threatened or endangered by the U.S. Department of the Interior is found on this site.
- State - At least one plant species designated in New York State as endangered, threatened, rare or exploitably vulnerable is found on this site.

Significant Plant Species Inventoried on this Site:

<u>Scientific Name</u>	<u>Common Name</u>	<u>Global/State/Local Rarity</u>	<u>Local Comments</u>	<u>State Legal Status</u>
Athyrium pycnocarpon	glade fern	L3	Scarce	Exploitably vulnerable
Acer spicatum	mountain maple	L4		None
Asplenium rhizophyllum	walking fern	L3	Scarce	Exploitably vulnerable
Carex albursina	White Bear Lake sedge	L3	Scarce	None
Taxus canadensis	yew, ground hemlock	L4		None

Animal Species

The UNA Inventory currently does not contain much specific data regarding animal species (and very little regarding rare or scarce species) on UNA sites. Therefore, this data should be viewed as preliminary and incomplete. A field check is always recommended prior to modifying the landscape. Detailed information regarding each species' rareness and status may be found in Appendix E. For up-to-date information on species, contact the NY Natural Heritage Program (518-783-3932).

Animal Description: The animal species found on this site are considered normal for the area.

Rarity: (Key: No checkmarks indicate that no species fall within those categories.)

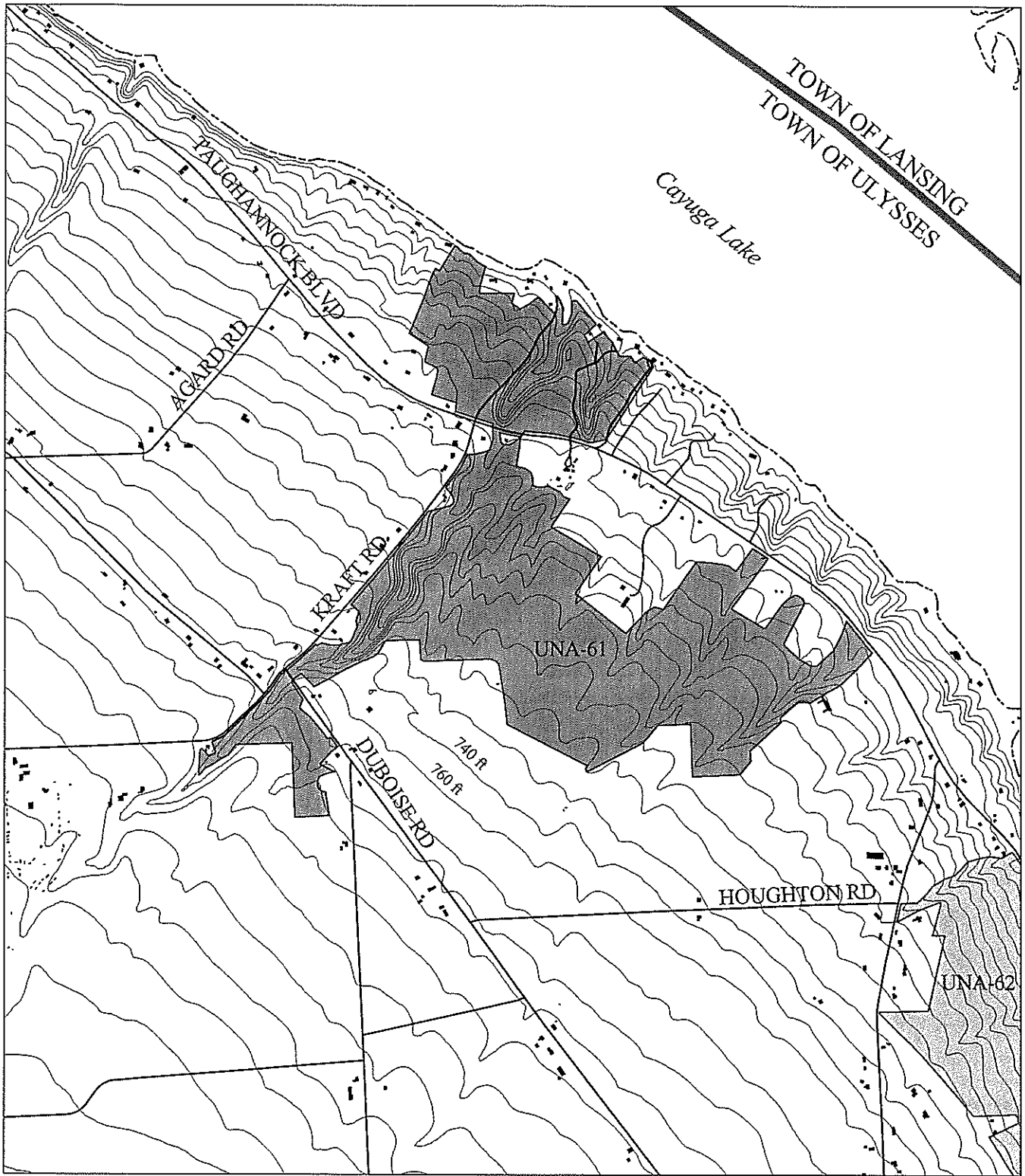
- Global - At least one animal species designated as rare or scarce at the global level by The Nature Conservancy is found on this site.
- State - At least one animal species designated as rare or scarce at the state level by The Nature Conservancy and the New York Natural Heritage Program is found on this site.

Legal Status:

- Federal - At least one animal species designated as threatened or endangered by the U.S. Department of the Interior is found on this site.
- State - At least one animal species designated by NYS as threatened or endangered is found on this site.

Animal Species Inventoried on this Site:








<u>Scientific Name</u>	<u>Common Name</u>	<u>Global/State Rarity</u>	<u>Federal/State Legal Status</u>	<u>Comments</u>
No data				

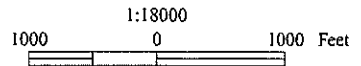


UNA-61 Willow Creek Glen and Lake Slopes

Tompkins County Environmental Management Council
 Inventory of Unique Natural Areas in Tompkins County
 Last Updated: September 1999

UNA boundaries were delineated by field biologists based on a review of air photographs, digital GIS base map data (roads, building footprints, 20 foot contours and streams) and field visits. UNA boundaries are approximate and should be used for general planning purposes only. As a practical matter the county does not warrant the accuracy or completeness of the information portrayed. The end user of this map agrees to accept the data "as is" with full knowledge that errors and omissions may exist, and to hold harmless the County for any damages that may result from an inappropriate use of this map.

-  Unique Natural Area UNA-61
-  Other Unique Natural Area(s)
-  Building Footprint
-  20 Foot Contour
-  Road
-  Cayuga Lake
-  Municipal Boundary



Town of Ulysses

SITE NAME: Maplewood Glen and Lake Slopes**SITE CODE:** UNA-62**DATA LAST UPDATED:** 1/3/00**OLD SITE CODE:** UL-10**LOCATION****Municipality:** Town of Ulysses**Latitude:** 42 30 22 N**USGS Quad:** Ludlowville, Ithaca West**Longitude:** 76 33 53 W**Tax Parcel Numbers Included in this Site:**

Tax parcel data is accurate as of July 1, 1999. For up-to-date information on tax parcel descriptions and ownership, contact the Tompkins County Assessment Department. When a UNA covered less than 0.025 ac. of a parcel, the parcel was excluded from this list.

UL 18.-3-10	UL 18.-3-6	UL 18.-3-7.2	UL 18.-3-9	UL 27.-4-1	UL 27.-4-10	UL 27.-4-12.1
UL 27.-4-12.2	UL 27.-4-12.3	UL 27.-4-13	UL 27.-4-14	UL 27.-4-15.2	UL 27.-4-16.2	UL 27.-4-18
UL 27.-4-2.2	UL 27.-4-21	UL 27.-4-22.1	UL 27.-4-22.2	UL 27.-4-23	UL 27.-4-3	UL 27.-4-4
UL 27.-4-5	UL 27.-4-6	UL 27.-4-7	UL 27.-4-8	UL 27.-4-9	UL 27.-5-1	UL 27.-5-10
UL 27.-5-11	UL 27.-5-12	UL 27.-5-13	UL 27.-5-14	UL 27.-5-15	UL 27.-5-2	UL 27.-5-3
UL 27.-5-4	UL 27.-5-6	UL 27.-5-7	UL 27.-5-7.1	UL 27.-5-8	UL 27.-5-9	UL 28.-1-17
UL 28.-1-18	UL 28.-1-19	UL 28.-1-20	UL 28.-1-21.1	UL 28.-1-21.2	UL 28.-1-24	UL 28.-1-25
UL 29.-1-1	UL 29.-1-10	UL 29.-1-12	UL 29.-1-13	UL 29.-1-14	UL 29.-1-15	UL 29.-1-16
UL 29.-1-17	UL 29.-1-18.2	UL 29.-1-2	UL 29.-1-20	UL 29.-1-21	UL 29.-1-22	UL 29.-1-23
UL 29.-1-24	UL 29.-1-28	UL 29.-1-29	UL 29.-1-3	UL 29.-1-31.2	UL 29.-1-32.2	UL 29.-1-33
UL 29.-1-34	UL 29.-1-36	UL 29.-1-37	UL 29.-1-38	UL 29.-1-39	UL 29.-1-40	UL 29.-1-41
UL 29.-1-5	UL 29.-1-6	UL 29.-1-7	UL 29.-1-8	UL 29.-1-9	UL 30.-3-1.1	UL 30.-3-1.2
UL 30.-3-2	UL 32.-1-4					

SITE AND VEGETATION DESCRIPTION

This UNA includes Maplewood Glen and the adjacent forested slopes on the west side of Cayuga Lake. Other streams dissect the slope. Forests on steeper sections of the hillside are commonly dominated by oak-hickory forests with white pine common. On more level sections successional forests grow on abandoned farmland. Forests on the north-facing slopes of the gorge are dominated by hemlock with beech, red maple, and yellow birch. Mosses and ferns are prevalent on the rock outcrops. Forests on the south-facing slopes of the gorge are dominated by sugar maple with basswood, red maple, and white ash also abundant. The gorge at Maplewood has excellent, undisturbed oak woods and other high-quality forest examples.

REASONS FOR SELECTION

- Quality example of plant community
- Scenic/Aesthetic value
- Rare or scarce plants
- Old-growth forest

SPECIAL LAND-USE INFORMATIONSpecial Land-Use Designations and Features

- A mature forest stand with trees over 150 years old is found on this site.
- Some or all of this site lies in an agricultural district, certified pursuant to NYS Agriculture and Markets Law.
- The Tompkins County Greenway Coalition has identified a biological corridor which includes this site.
- The Tompkins County Greenway Coalition has identified a possible multi-use trail on this site.
- This site has views which are considered locally important. There are panoramic landscape views from the site. There is a scenic road running through the site.

Water Resources

- All or some of a lake or pond is found on this site.
- A stream runs through this site.
- A NYS protected stream runs through this site.

CONSERVATION OF THE SITE**Adjacent Land-Use:**

Agriculture and lakeshore residences.

Sensitivity of Site to Visitors:

The site had steep slopes, which are considered vulnerable to disturbance by visitors.

Evidence of Disturbance and Threats to Site:

Logging and lakeshore residential development are the main threats to the site.

Special Conservation/Management Needs:

It is unknown if the site has an adequate protective buffer.

PHYSICAL CHARACTERISTICS OF THE SITE

Size (acres): 208.024 Elevation (ft.): 390 to 803 Aspect: E, N and S along glen

Topographic Features

Moderate to steep slopes. Glen is dissected by Maplewood Creek and contains numerous waterfalls.

Geological Features

Exposed bedrock is present along the creek, gorge walls, and waterfalls.

Soils Present on the Site

Soil characteristics of the site were determined manually and are approximate. In the future, digital soil data will provide more accurate information.

Slope %

- Flat
 3 to 15
 15 to 25
 Over 25

Topographic Position

- Crest
 Upper Slope
 Mid Slope
 Lower Slope
 Bottom

Soil Name	Hydric (Wet)	Erodibility	Drainage
Hudson and Dunkirk soils, 20 to 45 percent slopes	Non-hydric	Highly erodible	Well drained to moderately well drained
Hudson silty clay loam, 12 to 20 percent slopes, eroded	Non-hydric	Highly erodible	Well drained to moderately well drained
Howard gravelly loam, 15 to 25 percent slopes	Non-hydric	Highly erodible	Well drained
Rock outcrop	Non-hydric	Not applicable	Not applicable
Hudson silty clay loam, 6 to 12 percent slopes, eroded	Non-hydric	Highly erodible	Well drained to moderately well drained
Hudson-Cayuga silt loams, 2 to 6 percent slopes	Non-hydric	Highly erodible	Well drained to moderately well drained

BIOLOGICAL CHARACTERISTICS OF THE SITE

General Cover Types

- Upland forest
- Rock outcrops and gravel banks
- Open water

Ecological Communities

Detailed information regarding each community type's rareness may be found in Appendix F. For up-to-date information on ecological communities, contact the NY Natural Heritage Program (518-783-3932).

Rarity: (Key: No checkmarks indicate that no communities fall within those categories.)

- Global - At least one community designated as rare or scarce at the global level by The Nature Conservancy is found on this site.
- State - At least one community designated as rare or scarce at the state level by The Nature Conservancy and the New York Natural Heritage Program is found on this site.
- Local - At least one community designated as rare or scarce at the local level by the Tompkins County EMC and the Cornell Plantations is found on this site.

Ecological Communities Inventoried on this Site:

Community Name	Description	Global/State/Local Rarity		
Beech-maple mesic forest	A hardwood forest with sugar maple and beech co-dominant. Found on moist, well-drained soils, on north and east facing slopes, and on gently sloping hilltops of any aspect, this ecological community type rarely occurs in ravines. Common associates are basswood, American elm, white ash, yellow birch, hop hornbeam, and red maple. Characteristic species in the sub-canopy are musclewood, striped maple, witch hazel, hobblebush, and alternate-leaved dogwood. There typically are few herbs and shrubs, but tree seedlings may be abundant. There are many spring ephemerals.	G4	S4	L4
Appalachian oak-hickory forest	A hardwood forest with more than 60% canopy cover of trees that occurs on well-drained sites, usually on flat hilltops, upper slopes, or south and west facing slopes. Dominant trees include one or more of red oak, white oak, and black oak. Mixed with oaks, are one or more of pignut, shagbark, and sweet pignut hickory. Common associates are white ash, red maple, and hop hornbeam. Small trees include flowering dogwood, witch hazel, shadbush, and choke cherry. Shrubs and groundlayer flora are diverse. Shrubs include maple-leaved viburnum, blueberries, red raspberry, gray dogwood, and beaked hazelnut.	G4G5	S4	L4
Hemlock-northern hardwood forest	A forest that typically occurs on lower slopes of ravines, on cool, mid-elevation slopes, and at the edges of drainage divide swamps. Hemlock is a co-dominant species with one to three others: beech, sugar maple, red maple, black cherry, white pine, yellow birch, black birch, red oak, and basswood. Shrubs have low abundance, but striped maple may be present. Herbs characteristic of northern and montane areas are common.	G4G5	S4	L4
Successional northern hardwoods	A forest with more than 60% canopy cover of trees that occurs on sites that have been cleared or otherwise disturbed. Dominant trees are usually two or more of the following: red maple, white pine, white ash, gray birch, quaking aspen, big-tooth aspen, and, less frequently, sugar maple and white ash. Tree seedlings and saplings may be of more shade tolerant species. Shrubs and ground cover species may be those of old-fields. In abandoned pasturelands apples and hawthorns may be present in the understory.	G5	S5	L4
Rocky headwater stream	The aquatic community of a small to moderate sized rocky stream with a moderate to steep gradient that lacks persistent emergent vegetation. The cold water stream flows over eroded bedrock near the stream origin and contains alternating riffle and pool sections. These streams typically have mosses and algae present, but few larger rooted plants.	G4	S4	L4

Plant Species

Although substantial effort was made to identify significant plant species on this site, it is possible that additional rare or scarce species exist that do not show up in this report. A field check is always recommended prior to modifying the landscape. Detailed information regarding each species' rareness and status may be found in Appendix D. For up-to-date information on species, contact the NY Natural Heritage Program (518-783-3932).

Rarity: (Key: No checkmarks indicate that no species fall within those categories.)

- Global - At least one plant species designated as rare or scarce at the global level by The Nature Conservancy is found on this site.
- State - At least one plant species designated as rare or scarce at the state level by The Nature Conservancy and the New York Natural Heritage Program is found on this site.
- Local - At least one plant species designated as rare or scarce at the local level by the Tompkins County EMC and the Cornell Plantations is found on this site.

Legal Status:

- Federal - At least one plant species designated as threatened or endangered by the U.S. Department of the Interior is found on this site.
- State - At least one plant species designated in New York State as endangered, threatened, rare or exploitably vulnerable is found on this site.

Significant Plant Species Inventoried on this Site:

<u>Scientific Name</u>	<u>Common Name</u>	<u>Global/State/Local Rarity</u>	<u>Local Comments</u>	<u>State Legal Status</u>
Morus rubra	red mulberry	L2	Rare	None

Animal Species

The UNA Inventory currently does not contain much specific data regarding animal species (and very little regarding rare or scarce species) on UNA sites. Therefore, this data should be viewed as preliminary and incomplete. A field check is always recommended prior to modifying the landscape. Detailed information regarding each species' rareness and status may be found in Appendix E. For up-to-date information on species, contact the NY Natural Heritage Program (518-783-3932).

Animal Description: - - - - -

Rarity: (Key: No checkmarks indicate that no species fall within those categories.)

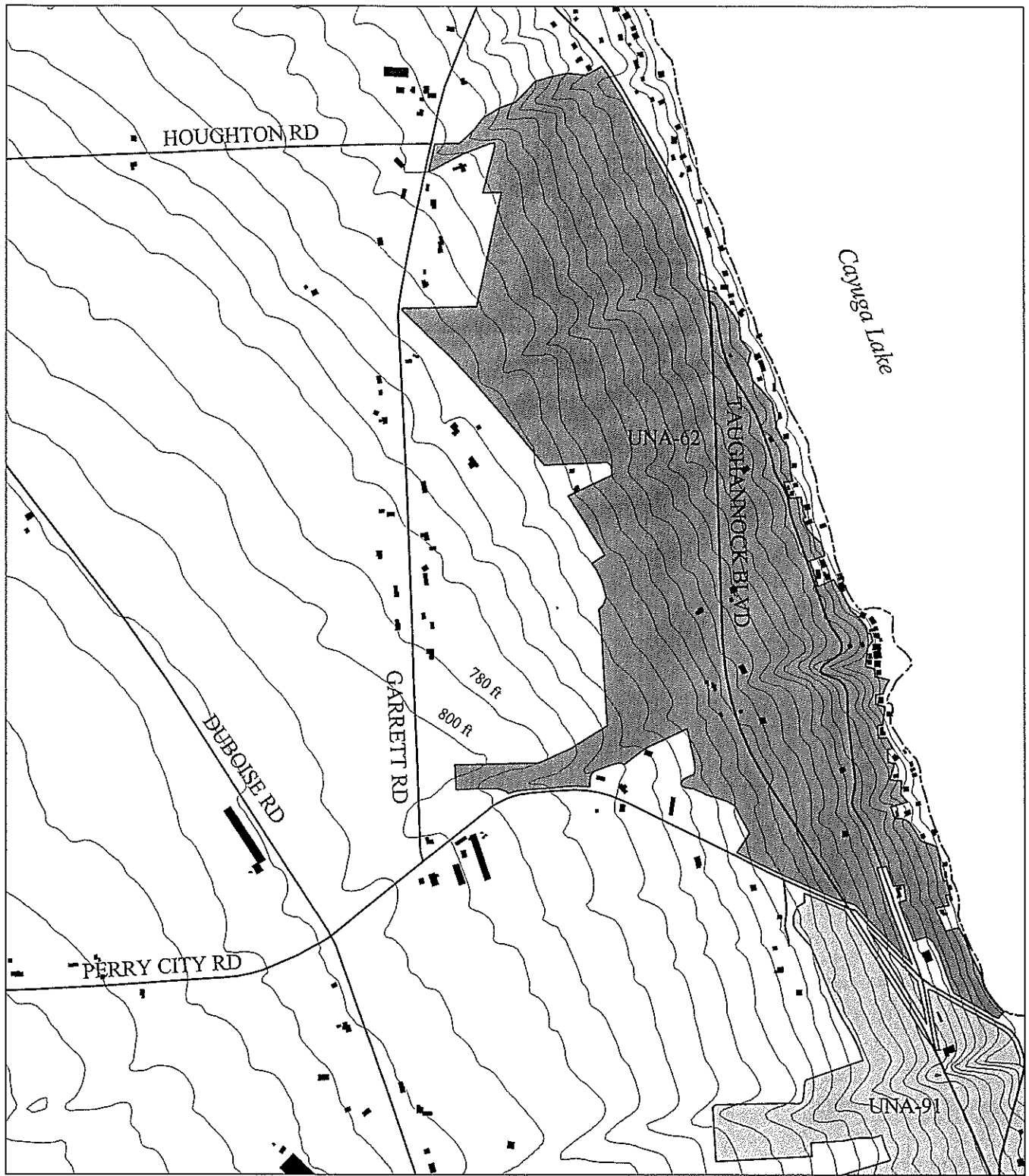
- Global - At least one animal species designated as rare or scarce at the global level by The Nature Conservancy is found on this site.
 State - At least one animal species designated as rare or scarce at the state level by The Nature Conservancy and the New York Natural Heritage Program is found on this site.

Legal Status:

- Federal - At least one animal species designated as threatened or endangered by the U.S. Department of the Interior is found on this site.
 State - At least one animal species designated by NYS as threatened or endangered is found on this site.

Animal Species Inventoried on this Site:







<u>Scientific Name</u>	<u>Common Name</u>	<u>Global/State Rarity</u>	<u>Federal/State Legal Status</u>	<u>Comments</u>
No data				



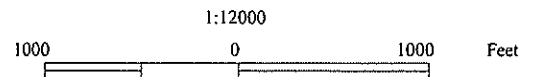
UNA-62 Maplewood Glen and Lake Slopes

Town of Ulysses

Tompkins County Environmental Management Council
 Inventory of Unique Natural Areas in Tompkins County
 Last Updated: September 1999

-  Unique Natural Area UNA-62
-  Other Unique Natural Area(s)
-  Building Footprint
-  20 Foot Contour
-  Road
-  Cayuga Lake

UNA boundaries were delineated by field biologists based on a review of air photographs, digital GIS base map data (roads, building footprints, 20 foot contours and streams) and field visits. UNA boundaries are approximate and should be used for general planning purposes only. As a practical matter the county does not warrant the accuracy or completeness of the information portrayed. The end user of this map agrees to accept the data "as is" with full knowledge that errors and omissions may exist, and to hold harmless the County for any damages that may result from an inappropriate use of this map.



SITE NAME: Glenwood Ravine and Lake Slopes**SITE CODE:** UNA-91**DATA LAST UPDATED:** 1/3/00**OLD SITE CODE:** UL-09**LOCATION****Municipality:** Town of Ulysses**Latitude:** 42 29 10 N**USGS Quad:** Ithaca West**Longitude:** 76 32 24 W**Tax Parcel Numbers Included in this Site:****Latitude:** 42 30 49 N**Longitude:** 76 33 35 W

Tax parcel data is accurate as of July 1, 1999. For up-to-date information on tax parcel descriptions and ownership, contact the Tompkins County Assessment Department. When a UNA covered less than 0.025 ac. of a parcel, the parcel was excluded from this list.

UL 30.-1-1	UL 30.-2-1	UL 30.-2-2	UL 30.-3-10	UL 30.-3-11	UL 30.-3-13	UL 30.-3-14
UL 30.-3-15	UL 30.-3-16.2	UL 30.-3-16.31	UL 30.-3-16.32	UL 30.-3-17	UL 30.-3-18	UL 30.-3-3.1
UL 30.-3-3.2	UL 30.-3-4	UL 30.-3-5	UL 30.-3-6	UL 30.-3-7.2	UL 30.-3-8	UL 30.-3-9
UL 31.-1-1	UL 31.-1-2.2	UL 31.-1-3	UL 31.-1-4	UL 31.-1-5	UL 31.-1-6	UL 31.-1-7
UL 31.-2-1.1	UL 31.-2-1.2	UL 31.-2-1.3	UL 31.-2-10	UL 31.-2-11	UL 31.-2-12.2	UL 31.-2-13
UL 31.-2-14	UL 31.-2-15	UL 31.-2-16	UL 31.-2-18	UL 31.-2-19	UL 31.-2-21	UL 31.-2-22
UL 31.-2-23	UL 31.-2-24	UL 31.-2-25	UL 31.-2-26	UL 31.-2-28	UL 31.-2-29	UL 31.-2-4
UL 31.-2-5	UL 31.-2-6	UL 31.-2-7	UL 31.-2-8.2	UL 31.-2-9	UL 32.-1-10	UL 32.-1-12.2
UL 32.-1-14	UL 32.-1-4	UL 32.-1-5	UL 32.-1-7	UL 32.-1-8	UL 32.-2-11.2	UL 32.-2-11.4
UL 32.-2-15	UL 32.-2-3.12	UL 32.-2-3.21	UL 32.-2-3.22	UL 32.-2-4	UL 32.-2-8.1	

SITE AND VEGETATION DESCRIPTION

This UNA includes Glenwood Ravine and the adjacent forested slopes on the west side of Cayuga Lake. Other streams dissect the slope. Forests on steeper sections of the hillside are commonly dominated by oak-hickory forests with white pine common. On more level sections there are beech maple forests as well as successional forests growing on abandoned farmland. Forests on the north-facing slopes of the gorge are dominated by hemlock with beech, red maple, and yellow birch. Mosses and ferns are prevalent on the rock outcrops. Forests on the south-facing slopes of the gorge are dominated by sugar maple, with basswood, red maple, and white ash also abundant. The gorge at Glenwood has excellent, undisturbed oak woods and other high-quality forest examples.

REASONS FOR SELECTION

- Quality example of plant community
- Scenic/Aesthetic value
- Rare or scarce plants
- Old-growth forest

SPECIAL LAND-USE INFORMATIONSpecial Land-Use Designations and Features

- The New York Natural Heritage Program has determined that this site may contain rare plants, animals, and/or significant ecological communities.
- The Tompkins County Greenway Coalition has identified a possible multi-use trail on this site.
- A mature forest stand with trees over 150 years old is found on this site.
- Some or all of this site lies in an agricultural district, certified pursuant to NYS Agriculture and Markets Law.
- The Tompkins County Greenway Coalition has identified a biological corridor which includes this site.
- This site has views which are considered locally important. There is a scenic road running through the site.

Water Resources

- All or some of a lake or pond is found on this site.
- A stream runs through this site.
- A NYS protected stream runs through this site.

CONSERVATION OF THE SITE

Adjacent Land-Use: Forest, commercial, residential, and a parking lot.
Sensitivity of Site to Visitors: The site is considered quite robust and not very sensitive to disturbance by visitors.
Evidence of Disturbance and Threats to Site: Trash has been dumped into the gorge. Development and logging are the primary threats to the site.
Special Conservation/Management Needs: The site does not have an adequate protective buffer.

PHYSICAL CHARACTERISTICS OF THE SITE

Size (acres): 245.874 **Elevation (ft.):** 389 to 815 **Aspect:** dominantly west, N and S along glen

Topographic Features

Steep slopes are dissected by Glenwood Creek and other small creeks.

Geological Features

Exposed bedrock is present along creek, gorge walls, and waterfalls.

Soils Present on the Site

Soil characteristics of the site were determined manually and are approximate. In the future, digital soil data will provide more accurate information.

Slope %

- Flat
 3 to 15
 15 to 25
 Over 25

Topographic Position

- Crest
 Upper Slope
 Mid Slope
 Lower Slope
 Bottom

<u>Soil Name</u>	<u>Hydric (Wet)</u>	<u>Erodibility</u>	<u>Drainage</u>
Rock outcrop	Non-hydric	Not applicable	Not applicable
Howard gravelly loam, 15 to 25 percent slopes	Non-hydric	Highly erodible	Well drained
Hudson and Dunkirk soils, 20 to 45 percent slopes	Non-hydric	Highly erodible	Well drained to moderately well drained
Hudson silty clay loam, 6 to 12 percent slopes, eroded	Non-hydric	Highly erodible	Well drained to moderately well drained
Hudson silty clay loam, 12 to 20 percent slopes, eroded	Non-hydric	Highly erodible	Well drained to moderately well drained
Howard gravelly loam, 5 to 15 percent simple slopes	Non-hydric	Highly erodible	Well drained
Hudson-Cayuga silt loams, 6 to 12 percent slopes, eroded	Non-hydric	Highly erodible	Well drained to moderately well drained
Rhinebeck silty clay loam, 6 to 12 percent slopes, eroded	Potential hydric inclusions	Potentially highly erodible	Somewhat poorly drained

BIOLOGICAL CHARACTERISTICS OF THE SITE

General Cover Types

- Upland forest
- Rock outcrops and gravel banks
- Open water

Ecological Communities

Detailed information regarding each community type's rareness may be found in Appendix F. For up-to-date information on ecological communities, contact the NY Natural Heritage Program (518-783-3932).

Rarity: (Key: No checkmarks indicate that no communities fall within those categories.)

- Global - At least one community designated as rare or scarce at the global level by The Nature Conservancy is found on this site.
- State - At least one community designated as rare or scarce at the state level by The Nature Conservancy and the New York Natural Heritage Program is found on this site.
- Local - At least one community designated as rare or scarce at the local level by the Tompkins County EMC and the Cornell Plantations is found on this site.

Ecological Communities Inventoried on this Site:

<u>Community Name</u>	<u>Description</u>	<u>Global/State/Local Rarity</u>		
Appalachian oak-hickory forest	A hardwood forest with more than 60% canopy cover of trees that occurs on well-drained sites, usually on flat hilltops, upper slopes, or south and west facing slopes. Dominant trees include one or more of red oak, white oak, and black oak. Mixed with oaks, are one or more of pignut, shagbark, and sweet pignut hickory. Common associates are white ash, red maple, and hop hornbeam. Small trees include flowering dogwood, witch hazel, shadbush, and choke cherry. Shrubs and groundlayer flora are diverse. Shrubs include maple-leaved viburnum, blueberries, red raspberry, gray dogwood, and beaked hazelnut.	G4G5	S4	L4
Hemlock-northern hardwood forest	A forest that typically occurs on lower slopes of ravines, on cool, mid-elevation slopes, and at the edges of drainage divide swamps. Hemlock is a co-dominant species with one to three others: beech, sugar maple, red maple, black cherry, white pine, yellow birch, black birch, red oak, and basswood. Shrubs have low abundance, but striped maple may be present. Herbs characteristic of northern and montane areas are common.	G4G5	S4	L4
Rocky headwater stream	The aquatic community of a small to moderate sized rocky stream with a moderate to steep gradient that lacks persistent emergent vegetation. The cold water stream flows over eroded bedrock near the stream origin and contains alternating riffle and pool sections. These streams typically have mosses and algae present, but few larger rooted plants.	G4	S4	L4
Shale talus slope woodland	An open to closed canopy woodland that occurs on talus slopes composed of shale. Slopes are unstable and very well drained. Soils are shallow and dry. Canopy cover is less than 50%. Characteristic trees include chestnut oak, pignut hickory, red oak, white oak, white pine, white ash, and eastern white cedar. Characteristic shrubs include smooth sumac, poison ivy, hairy penstemon, everlasting, and Pennsylvania sedge.	G3G4	S3	L3
Beech-maple mesic forest	A hardwood forest with sugar maple and beech co-dominant. Found on moist, well-drained soils, on north and east facing slopes, and on gently sloping hilltops of any aspect, this ecological community type rarely occurs in ravines. Common associates are basswood, American elm, white ash, yellow birch, hop hornbeam, and red maple. Characteristic species in the sub-canopy are musclewood, striped maple, witch hazel, hobblebush, and alternate-leaved dogwood. There typically are few herbs and shrubs, but tree seedlings may be abundant. There are many spring ephemerals.	G4	S4	L4

Plant Species

Although substantial effort was made to identify significant plant species on this site, it is possible that additional rare or scarce species exist that do not show up in this report. A field check is always recommended prior to modifying the landscape. Detailed information regarding each species' rareness and status may be found in Appendix D. For up-to-date information on species, contact the NY Natural Heritage Program (518-783-

Rarity: (Key: No checkmarks indicate that no species fall within those categories.)

- Global - At least one plant species designated as rare or scarce at the global level by The Nature Conservancy is found on this site.
- State - At least one plant species designated as rare or scarce at the state level by The Nature Conservancy and the New York Natural Heritage Program is found on this site.
- Local - At least one plant species designated as rare or scarce at the local level by the Tompkins County EMC and the Cornell Plantations is found on this site.

Legal Status:

- Federal - At least one plant species designated as threatened or endangered by the U.S. Department of the Interior is found on this site.
- State - At least one plant species designated in New York State as endangered, threatened, rare or exploitably vulnerable is found on this site.

Significant Plant Species Inventoried on this Site:

<u>Scientific Name</u>	<u>Common Name</u>	<u>Global/State/Local Rarity</u>	<u>Local Comments</u>	<u>State Legal Status</u>
Celtis occidentalis	hackberry	L3	Scarce	None

Animal Species

The UNA Inventory currently does not contain much specific data regarding animal species (and very little regarding rare or scarce species) on UNA sites. Therefore, this data should be viewed as preliminary and incomplete. A field check is always recommended prior to modifying the landscape. Detailed information regarding each species' rareness and status may be found in Appendix E. For up-to-date information on species, contact the NY Natural Heritage Program (518-783-3932).

Animal Description: - - - - -

Rarity: (Key: No checkmarks indicate that no species fall within those categories.)

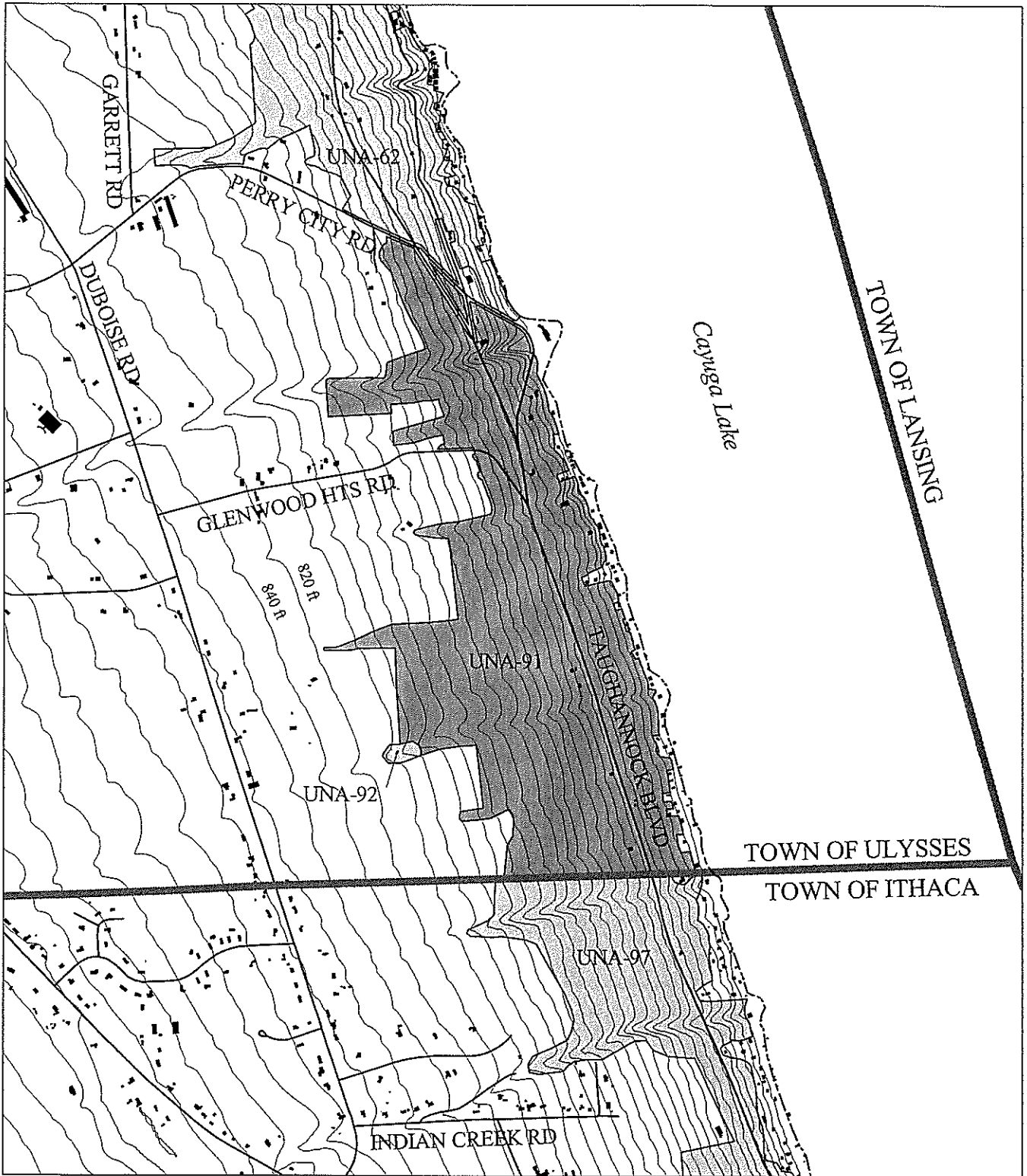
- Global - At least one animal species designated as rare or scarce at the global level by The Nature Conservancy is found on this site.
- State - At least one animal species designated as rare or scarce at the state level by The Nature Conservancy and the New York Natural Heritage Program is found on this site.

Legal Status:

- Federal - At least one animal species designated as threatened or endangered by the U.S. Department of the Interior is found on this site.
- State - At least one animal species designated by NYS as threatened or endangered is found on this site.

Animal Species Inventoried on this Site:








<u>Scientific Name</u>	<u>Common Name</u>	<u>Global/State Rarity</u>	<u>Federal/State Legal Status</u>	<u>Comments</u>
No data				



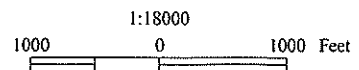
UNA-91 Glenwood Ravine and Lake Slopes

Town of Ulysses

Tompkins County Environmental Management Council
 Inventory of Unique Natural Areas in Tompkins County
 Last Updated: September 1999

-  Unique Natural Area UNA-91
-  Other Unique Natural Area(s)
-  Building Footprint
-  20 Foot Contour
-  Road
-  Cayuga Lake
-  Municipal Boundary

UNA boundaries were delineated by field biologists based on a review of air photographs, digital GIS base map data (roads, building footprints, 20 foot contours and streams) and field visits. UNA boundaries are approximate and should be used for general planning purposes only. As a practical matter the county does not warrant the accuracy or completeness of the information portrayed. The end user of this map agrees to accept the data "as is" with full knowledge that errors and omissions may exist, and to hold harmless the County for any damages that may result from an inappropriate use of this map.



SITE NAME: Poyer Orchard Diatreme
DATA LAST UPDATED: 1/3/00

SITE CODE: UNA-92
OLD SITE CODE: UL-07

LOCATION

Municipality: Town of Ulysses

Latitude: 42 29 02 N

USGS Quad: Ithaca West

Longitude: 76 33 42 W

Tax Parcel Numbers Included in this Site:

Tax parcel data is accurate as of July 1, 1999. For up-to-date information on tax parcel descriptions and ownership, contact the Tompkins County Assessment Department. When a UNA covered less than 0.025 ac. of a parcel, the parcel was excluded from this list.

UL 32.-2-11.4 UL 32.-2-8.1 UL 32.-2-8.2

SITE AND VEGETATION DESCRIPTION

This site consists of a natural forest, a small glen, rock outcrops, and a stream.

REASONS FOR SELECTION

- Area of geologic importance
- Cultural/historic/archeological site

SPECIAL LAND-USE INFORMATION

Special Land-Use Designations and Features

- Some or all of this site lies in an agricultural district, certified pursuant to NYS Agriculture and Markets Law.
- The Tompkins County Greenway Coalition has identified a biological corridor which includes this site.
- This site is considered historically valuable by local residents. As the mineral content of a diatreme area very closely resembles that of South African diamond-bearing soils, there was an attempt to mine diamonds from the area in the 1930's. No diamonds were found. However, some uncommon minerals were found.

Water Resources

- A stream runs through this site.
- A NYS protected stream runs through this site.

CONSERVATION OF THE SITE

Evidence of Disturbance and Threats to Site: Excavation (mining of mineral deposits at the site) has occurred. An old tumbler (a piece of mining equipment) remains on the site.

Special Conservation/Management Needs: The site does not have an adequate protective buffer.

Other Comments: This area combines a unique geologic exposure of igneous rock with important events in the County's history. This is a geologically important site because the mineral content of diatreme very closely resembles that of South African diamond-bearing soils. The site was discovered following the flood of July, 1935, and was worked for two summers in hopes of finding diamonds. None were found, but some uncommon minerals were identified.

PHYSICAL CHARACTERISTICS OF THE SITE

Size (acres): 1.489 Elevation (ft.): 761 to 804 Aspect: west

Topographic Features

Small stream and ravine.

Geological Features

Site of a diatreme, or pipe, (a tube-shaped mass of rock), which is created by an explosion in an igneous dike. The diatreme is approximately 160 ft. in diameter, with Alonite base material. It is located in an old streambed. The glen cuts through Genesee group shales with many fossil brachiopods. The remains of old mining equipment are present near the diatreme.

Soils Present on the Site

Soil characteristics of the site were determined manually and are approximate. In the future, digital soil data will provide more accurate information.

Soil Name

Hydric (Wet)

Erodibility

Drainage

Rock outcrop

Non-hydric

Not applicable

Not applicable

Hudson silty clay loam, 6 to 12 percent slopes, eroded

Non-hydric

Highly erodible

Well drained to moderately well drained

Hudson-Cayuga silt loams, 6 to 12 percent slopes, eroded

Non-hydric

Highly erodible

Well drained to moderately well drained

Slope %

Flat

3 to 15

15 to 25

Over 25

Topographic Position

Crest

Upper Slope

Mid Slope

Lower Slope

Bottom

BIOLOGICAL CHARACTERISTICS OF THE SITE

General Cover Types

Upland forest

Rock outcrops and gravel banks

Open water

Ecological Communities

Detailed information regarding each community type's rareness may be found in Appendix F. For up-to-date information on ecological communities, contact the NY Natural Heritage Program (518-783-3932).

Rarity: (Key: No checkmarks indicate that no communities fall within those categories.)

- Global - At least one community designated as rare or scarce at the global level by The Nature Conservancy is found on this site.
- State - At least one community designated as rare or scarce at the state level by The Nature Conservancy and the New York Natural Heritage Program is found on this site.
- Local - At least one community designated as rare or scarce at the local level by the Tompkins County EMC and the Cornell Plantations is found on this site.

Ecological Communities Inventoried on this Site:

<u>Community Name</u>	<u>Description</u>	<u>Global/State/Local Rarity</u>		
Successional northern hardwoods	A forest with more than 60% canopy cover of trees that occurs on sites that have been cleared or otherwise disturbed. Dominant trees are usually two or more of the following: red maple, white pine, white ash, gray birch, quaking aspen, big-tooth aspen, and, less frequently, sugar maple and white ash. Tree seedlings and saplings may be of more shade tolerant species. Shrubs and ground cover species may be those of old-fields. In abandoned pasturelands apples and hawthorns may be present in the understory.	G5	S5	L4
Rocky headwater stream	The aquatic community of a small to moderate sized rocky stream with a moderate to steep gradient that lacks persistent emergent vegetation. The cold water stream flows over eroded bedrock near the stream origin and contains alternating riffle and pool sections. These streams typically have mosses and algae present, but few larger rooted plants.	G4	S4	L4

Plant Species

Although substantial effort was made to identify significant plant species on this site, it is possible that additional rare or scarce species exist that do not show up in this report. A field check is always recommended prior to modifying the landscape. Detailed information regarding each species' rareness and status may be found in Appendix D. For up-to-date information on species, contact the NY Natural Heritage Program (518-783-3932).

Rarity: (Key: No checkmarks indicate that no species fall within those categories.)

- Global - At least one plant species designated as rare or scarce at the global level by The Nature Conservancy is found on this site.
- State - At least one plant species designated as rare or scarce at the state level by The Nature Conservancy and the New York Natural Heritage Program is found on this site.
- Local - At least one plant species designated as rare or scarce at the local level by the Tompkins County EMC and the Cornell Plantations is found on this site.

Legal Status:

- Federal - At least one plant species designated as threatened or endangered by the U.S. Department of the Interior is found on this site.
- State - At least one plant species designated in New York State as endangered, threatened, rare or exploitably vulnerable is found on this site.

Significant Plant Species Inventoried on this Site:

<u>Scientific Name</u>	<u>Common Name</u>	<u>Global/State/Local Rarity</u>	<u>Local Comments</u>	<u>State Legal Status</u>
None known				

Animal Species

The UNA Inventory currently does not contain much specific data regarding animal species (and very little regarding rare or scarce species) on UNA sites. Therefore, this data should be viewed as preliminary and incomplete. A field check is always recommended prior to modifying the landscape. Detailed information regarding each species' rareness and status may be found in Appendix E. For up-to-date information on species, contact the NY Natural Heritage Program (518-783-3932).

Animal Description: - - - -

Rarity: (Key: No checkmarks indicate that no species fall within those categories.)

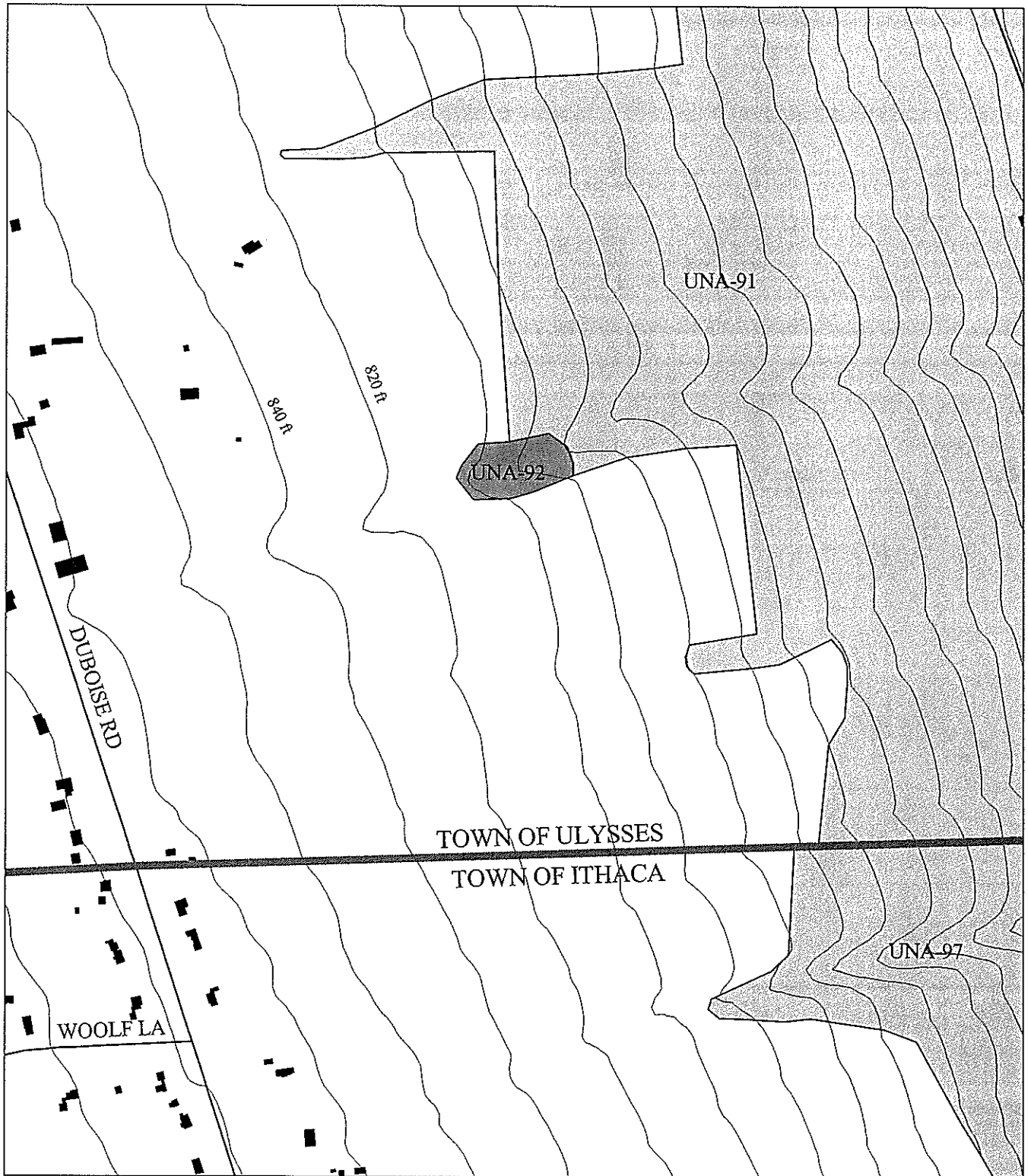
- Global - At least one animal species designated as rare or scarce at the global level by The Nature Conservancy is found on this site.
- State - At least one animal species designated as rare or scarce at the state level by The Nature Conservancy and the New York Natural Heritage Program is found on this site.

Legal Status:

- Federal - At least one animal species designated as threatened or endangered by the U.S. Department of the Interior is found on this site.
- State - At least one animal species designated by NYS as threatened or endangered is found on this site.

Animal Species Inventoried on this Site:

<u>Scientific Name</u>	<u>Common Name</u>	<u>Global/State Rarity</u>	<u>Federal/State Legal Status</u>	<u>Comments</u>
No data				









Town of Ulysses

UNA-92 Poyer Orchard Diatreme

Tompkins County Environmental Management Council
 Inventory of Unique Natural Areas in Tompkins County
 Last Updated: September 1999

UNA boundaries were delineated by field biologists based on a review of air photographs, digital GIS base map data (roads, building footprints, 20 foot contours and streams) and field visits. UNA boundaries are approximate and should be used for general planning purposes only. As a practical matter the county does not warrant the accuracy or completeness of the information portrayed. The end user of this map agrees to accept the data "as is" with full knowledge that errors and omissions may exist, and to hold harmless the County for any damages that may result from an inappropriate use of this map.

-  Unique Natural Area UNA-92
-  Other Unique Natural Area(s)
-  Building Footprint
-  20 Foot Contour
-  Road
-  Municipal Boundary

