

Natural Area Mapping and Inventory of Kissena Park November 1986 Survey



Prepared by the Natural Resources Group
Michael R. Bloomberg, Mayor
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Kissena Park Natural Area Mapping & Inventory

Surveyed November 1986

234.762 acres

Introduction

City of New York Parks & Recreation (DPR) manages one of the most extensive and varied park systems of any city in the world. These 29,000 acres of city park property occupy about 15 percent of New York City's total area. In addition to flagship parks such as Central Park and Prospect Park, the city's parklands include over 11,000 acres of natural areas.

Until the 1980's, the Parks Department was primarily concerned with developed landscapes and recreation facilities rather than natural areas. In the absence of a comprehensive management policy, these areas succumbed to invasive species, pollution and erosion.

In 1984, Parks established the Natural Resources Group (NRG) with a mandate to acquire, restore and manage natural areas in New York City. The wetlands, forests, meadows, and shorelines under NRG's jurisdiction provide valuable habitat for hundreds of species, from rare wildflowers to endangered birds of prey. In addition to the goals mentioned above, NRG serves as a clearinghouse for technical research to aid in the protection and restoration of the city's natural resources. This inventory of Kissena Park was conducted in 1986 as part of NRG's commitment to improving the natural areas of New York City parks.

Kissena Park, bounded by Oak Avenue, Hemstead Turnpike, Kissena Boulevard, and Fresh Meadow Lane, was acquired by the City of New York in pieces. In 1904, the City purchased Kissena Lake from William T. Janes, whose father-in-law had run an ice cutting and manufacturing company on the lake in the late 19th century.

Following the death of horticulturist Samuel Bowne Parsons in 1906, the city acquired his historic tree grove, and a year later 65 acres of what was then mostly swampland were purchased. In 1914 the city bought a training farm for the Police Department's horses. Condemnation procedures and private purchases added to the park through 1927, and in 1947 Kissena Park became part of the "Queens Corridor" park system through the addition of Kissena Corridor Park, which links Kissena Park with Flushing Meadows-Corona Park and Cunningham Park.

The park was named by its developers in 1908 after Kissena Lake. It is thought that Parsons, an amateur Indian expert, named the lake in the mid-19th century after the Chippewa word "kissina," meaning "it is cold." The Chippewa are a Midwestern tribe, native to Baraga County, Michigan.

In the early 1870s Parsons started his own nursery at the site now home to the historic tree grove. Parson's nursery imported over 100 varieties of exotic trees, and was the first nursery to introduce Japanese maples and propagate rhododendron. Urban park planner Frederick Olmsted purchased and used many of Parson's trees for the construction of Central Park and Brooklyn's Prospect Park. Now more than 100 different types of trees can be found in Kissena Park, including Iranian parrotia and cork, Chinese toon, Asian katsura, and the rare bald cypress.

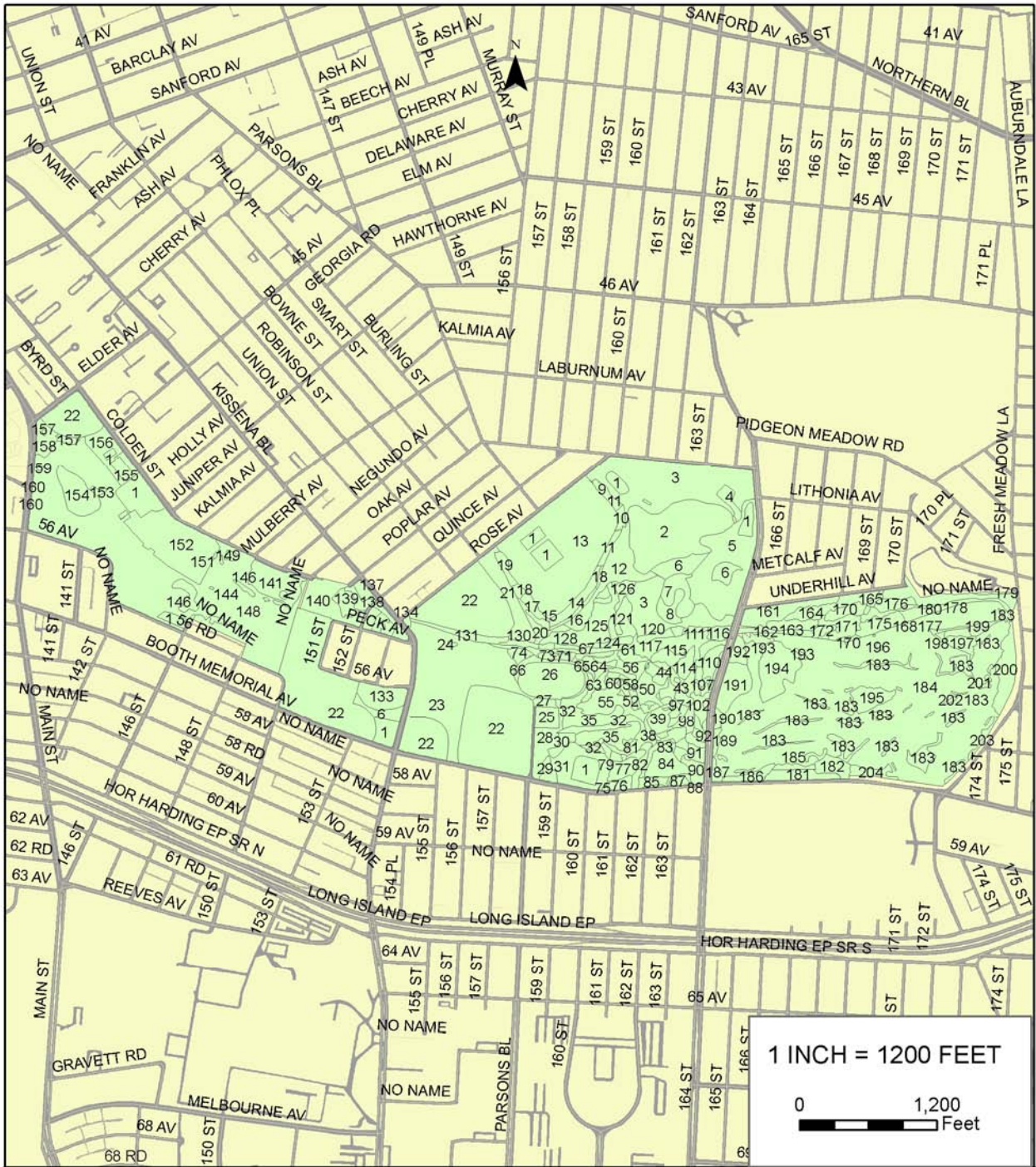
Since 1907 Kissena Park has undergone many improvements and renovations. In 1942, Kissena Lake was transformed into a "bathtub lake" when the Works Progress Administration drained it, built an encompassing stone retainer, and refilled it. The lake had to be drained again in 1983 due to a buildup of algae. Today the lake is home to a wide variety of plant and animal life, including snapping turtles, ducks, herons, egrets, and gallinules.

To facilitate the protection, management and restoration of Kissena Park, NRG completed an inventory of the area using entitiation, a process of identifying and describing ecologically distinct plant communities. Using aerial photographs and field reconnaissance, Parks staff delineated distinct ecological entities, known as entitiation units, based on cover type, understory structure, species composition, and topography. Evidence of historical use, current use, environmental disturbance, and additional notes were also recorded for each unit. Entitiation of Kissena Park resulted in a map and database that can be used to locate valuable and threatened areas. They also serve as a baseline for measuring change over time.

Entitiation

Entitiation is a type of plant community inventory well suited to the patchy environments often found in urban areas. Originally designed for European landscapes, the system was revised by NRG in 1985 for use in urban parkland. NRG has used entitiation widely and successfully to facilitate acquisition and restoration decisions. Put simply, entitiation is a process of breaking up a park into manageable parts called “entities” or “entitiation units.” Entitiation units are defined using a weighted list of criteria. The first level of distinction is based on cover type (e.g. closed forest, vineland, scrub), followed by canopy species composition, understory type (e.g. herbs, vines, shrubs), and understory species composition. Additional factors, such as topography and soil condition (e.g. wet, moist, dry) are also taken into account.

To prepare for fieldwork, mapping technicians examine aerial photographs and delineate areas of similar cover. The mapping staff use the aerial information to create a strategy for covering land area. In the field, boundaries are identified as described above. For each unit, staff record the data listed above, as well as current uses, environmental disturbances, historical indicators, community stability, and comments.



ENTITATION UNITS - JANUARY 1986
KISSENA PARK
 QUEENS COUNTY, CITY OF NEW YORK



City of New York
Parks & Recreation
Natural Resources Group

Arsenal North, 1234 Fifth Avenue, New York, NY 10029

Michael R. Bloomberg, Mayor
 Adrian Benepe, Commissioner

02/28/08

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ENTITATION UNITS - JANUARY 1986
 KISSENA PARK
 QUEENS COUNTY, CITY OF NEW YORK



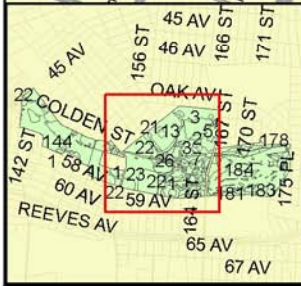
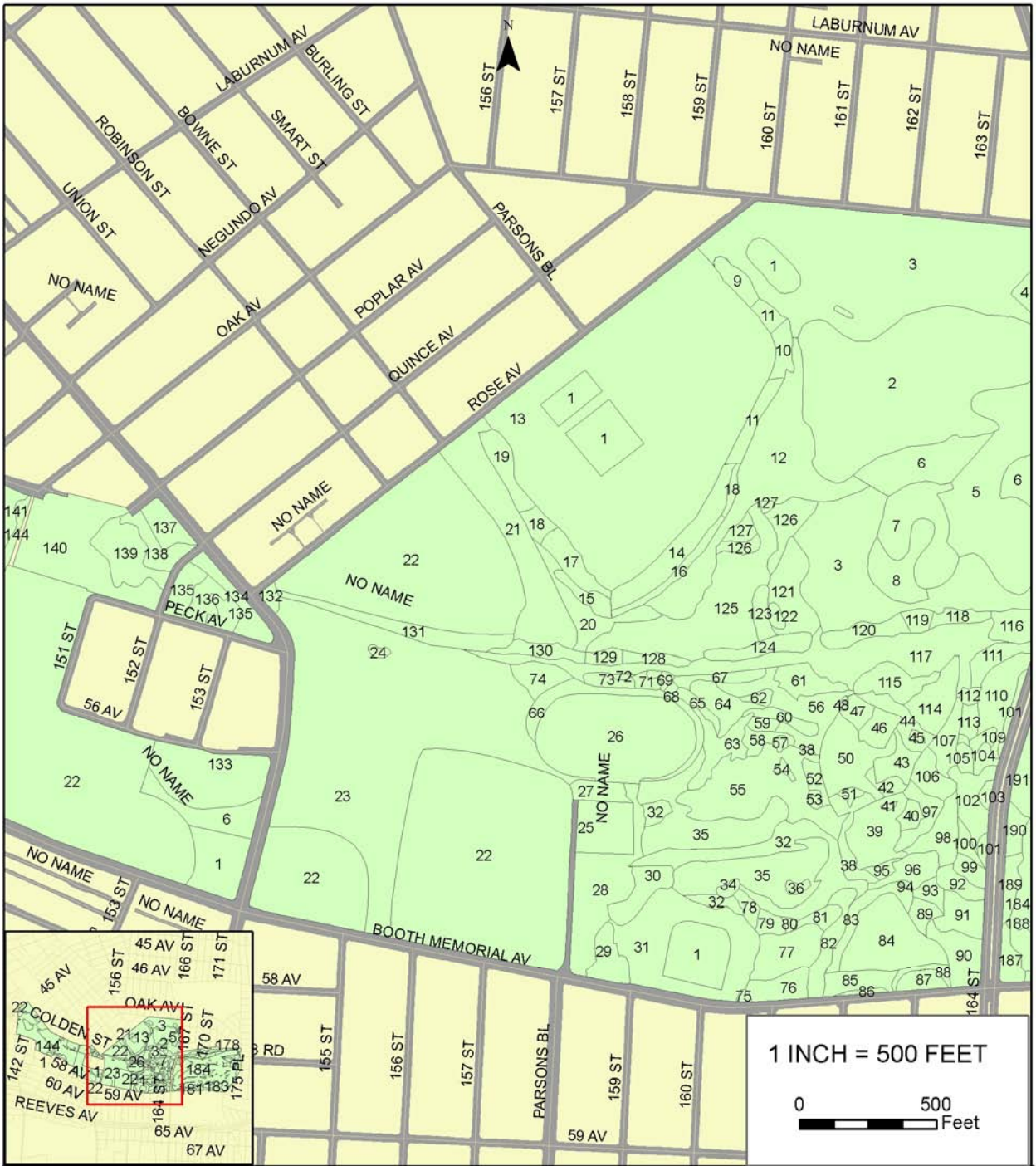
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1 INCH = 500 FEET

0 500 Feet

ENTITATION UNITS - JANUARY 1986

KISSENA PARK

QUEENS COUNTY, CITY OF NEW YORK



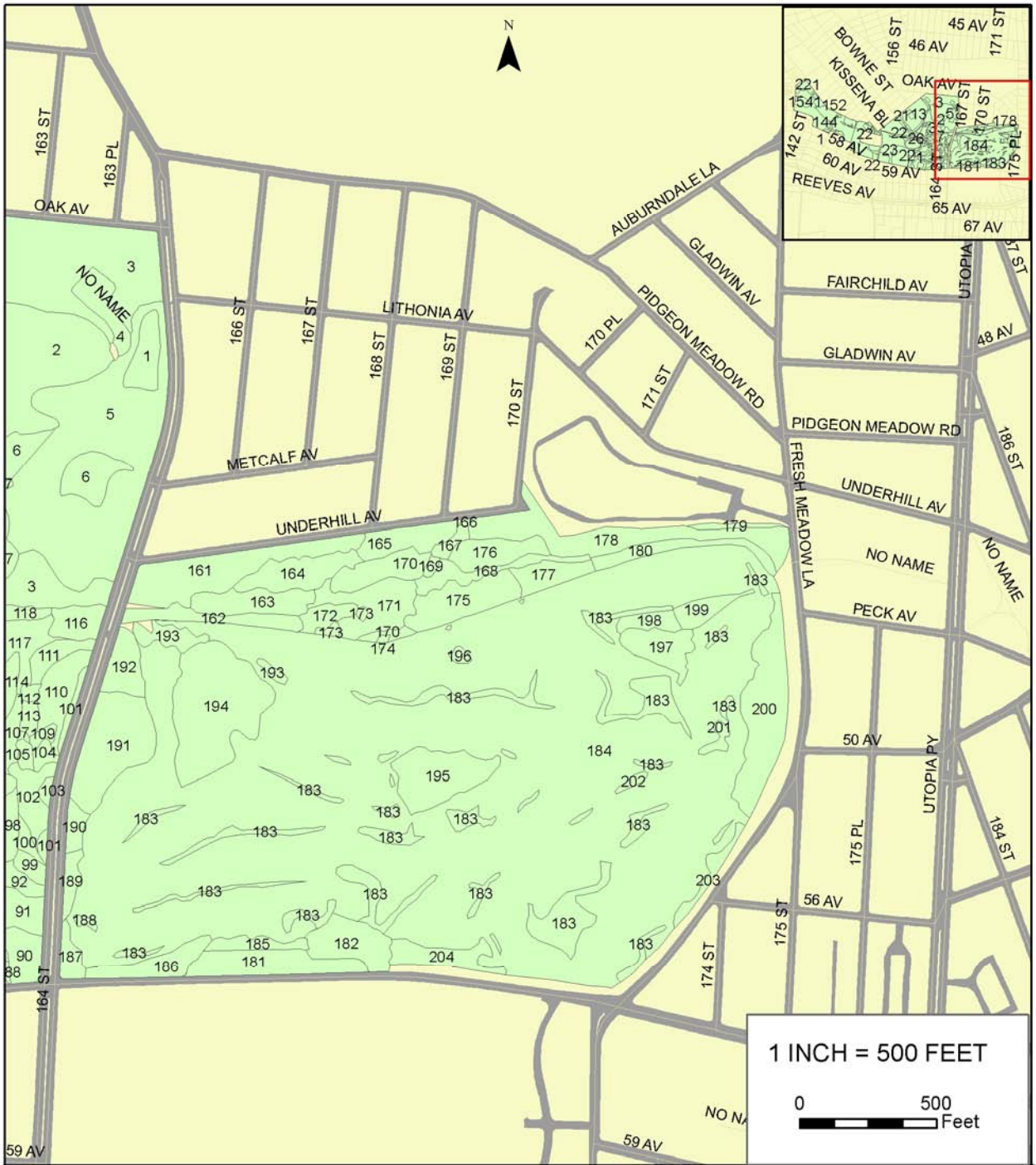
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ENTITATION UNITS - JANUARY 1986
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Kissena Park Entitation Unit Descriptions, Surveyed November 1986

Unit: 1
Acreage: 7.15
Mgmt. Concern: No

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Desert	London planetree	>30'	Yes		Playground	Trash
Deciduous	Mugwort	<5'	Yes			
Hemicryptophytes Level Dry	Cool season grass	<5'				

Comments:

One of the many recreational areas such as: playgrounds, basketball, tennis, bocce, and paddleball courts.

Unit: 2
Acreage: 7.98
Mgmt. Concern: No

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Aquatic plant	Phragmites	<5'			Sports	Pollution
Deciduous	Hornwort	<5'				
Geophytes	Spatterdock	<5'				
Level	Algae	<5'				
Surface water	Cattails	<5'				

Comments:

Kissena lake with scattered aquatic vegetation. Lake is drained every year and scraped periodically. It was used as an old boating pond and is used for ice skating in the winter. A few stands of Phragmites present; hornwort evident throughout lake. Fish, waterfowl and turtles noted.

Kissena Park Entitation Unit Descriptions, Surveyed November 1986

Unit: 3
Acreage: 8.81
Mgmt. Concern: No

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Woodland	Red oak	>30'			Foot traffic	
Deciduous	Tulip tree	>30'			Picnic	
Hemicryptophytes	Black oak	>30'			Vehicle access	
Undulating	Black locust	>30'	Yes			
Dry	London planetree	>30'	Yes			
	Red maple	>30'				

Comments:

Open woodland unit with well-maintained lawn, very manicured area. Some landscaped areas within unit, particularly near stairs leading to the lake. Other trees include American beech, flowering dogwood, black cherry, elm spp., and pin oak. Ground cover consists of CSG, mugwort, violet, chickweed, dandelion, plantain, etc.

Unit: 4
Acreage: 0.56
Mgmt. Concern: No

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Woodland	Pin oak	>30'			Foot traffic	
Mixed	Ornamental shrubs	<5' & 5-30'				
Chamaephytes	Red oak	>30'				
Slope	Apple spp.	5'-30'				
Dry	Black cherry	5'-30'				

Comments:

The building is the current park headquarters, however in the past it was the boat house for Kissena lake. It also contains public restrooms. Landscaped areas are between walkways that lead to and from the lake and the office.

Kissena Park Entitation Unit Descriptions, Surveyed November 1986

Unit: 5
Acreage: 2.78
Mgmt. Concern: No

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Closed Forest Deciduous Hemicryptophytes Slope Dry	London planetree	>30'	Yes	Road	Foot traffic Picnic Sports	Compaction Erosion Trash

Comments:

London planetree monoculture; grove is planted. Other spp. include: Norway maple, tulip tree, chives, CSG, chickweed, dandelion, and common plantain.

Unit: 6
Acreage: 4.55
Mgmt. Concern: No

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Herbaceous Hemicryptophytes Slope Dry	Cool season grass	<5'			Foot traffic Picnic	Compaction

Comments:

Managed lawn with a few newly planted trees (e.g. red maple and flowering dogwood).

Kissena Park Entitation Unit Descriptions, Surveyed November 1986

Unit: 7
Acreage: 1.40
Mgmt. Concern: Yes

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Closed Forest	White pine	>30'		Exotics	Foot traffic	Compaction
Evergreen	Douglas elm	>30'	Yes		Campfire/ party	Trash
Hemicryptophytes	Norway spruce	>30'	Yes			
Slope	Cherry, black	<5'				
Dry						

Comments:

Memorial grove planted for WWI veterans. Other conifers: Eastern red cedar, Austrian pine, Alpine fir, Japanese black pine, and Scotch pine. Ground cover consists of CSG, chives, and path rush. Black cherry regeneration, specifically near base of evergreens.

Unit: 8
Acreage: 0.77
Mgmt. Concern: No

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Closed Forest	Norway maple	>30'	Yes	Exotics	Foot traffic	Compaction
Deciduous	London planetree	>30'	Yes		Picnic	Trash
Hemicryptophytes	Pin oak	>30'				
Slope	Horsechestnut	>30'				
Dry						

Comments:

Area of planted species as listed above. Possibly part of memorial grove. Little ground cover present; scattered grasses.

Kissena Park Entitation Unit Descriptions, Surveyed November 1986

Unit: 9
Acreage: 0.31
Mgmt. Concern: Yes

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Closed Forest	Red oak	>30'			Foot traffic	Compaction
Deciduous	Black birch	>30'			Vehicle access	Erosion
Phanerophytes	Black oak	>30'				Trash
Slope	Witch hazel	5'-30'				
Moist	Black cherry	All				
	Wisteria	<5'	Yes			

Comments:

Sloped unit bordering old nursery. Many exotics have invaded. Several very worn footpaths. Other species: American basswood (<5'), jet black bead, aster, Japanese honeysuckle, mapleleaf Viburnum, flowering dogwood, American hornbeam, mugwort, lady's thumb, and wild violet.

Unit: 10
Acreage: 0.28
Mgmt. Concern: Yes

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Closed Forest	Black oak	>30'		Exotics	Foot traffic	Compaction
Deciduous	White oak	>30'			Vehicle access	Large pits
Chamaephytes	Beech	<5' & >30'				
Slope	Mulberry spp.	>30' & 5-30'				
Dry	Jet black bead	<5' & 5-30'	Yes			
	English ivy	<5'	Yes			

Comments:

Sloped, landscaped unit; terracing throughout. MC: allow understory to reestablish. Other spp: flowering dogwood, arrowwood, Japanese barberry, quince, and one small American elm.

Kissena Park Entitation Unit Descriptions, Surveyed November 1986

Unit: 11
Acreage: 0.44
Mgmt. Concern: Yes

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Closed Forest	Black oak	>30'			Foot traffic	Compaction
Deciduous	American beech	>30'			Vehicle access	Erosion
Chamaephytes	Tulip tree	>30'				Fire
Slope	Red oak	>30'				
Dry	Black cherry	All				
	Flowering dogwood	5-30'				

Comments:

Closed forest with predominantly oak overstory on sloping hillside. Leaf litter seems to be dumped here after it is raked elsewhere in park. Other spp: white ash, Japanese maple, castor aralia regeneration, red maple, Norway maple, mapleleaf Viburnum, rose, small patch of trout lily, black birch, jet black bead, chives, aster, CSG, American elm, and deadly nightshade.

Unit: 12
Acreage: 3.19
Mgmt. Concern: No

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Woodland	Weeping willow	>30'	Yes	Exotics	Foot traffic	
Deciduous	Bald cypress	>30'	Yes		Vehicle access	
Hemicryptophytes	Red maple	>30'			Picnic	
Level	Horsechestnut	>30'	Yes			
Moist	Cool season grass	<5'				
	Chives	<5'				

Comments:

Unit of exotic plantings near Kissena lake. Open lawn area with trees scattered around. Other species include dandelion, common plantain, and burdock.

Kissena Park Entitation Unit Descriptions, Surveyed November 1986

Unit: 13
Acreage: 14.00
Mgmt. Concern: No

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Woodland	Japanese maple	5'-30'	Yes	Exotics	Foot traffic	Compaction
Deciduous	Flowering dogwood	5'-30'			Vehicle access	
Hemicryptophytes	London planetree	>30'	Yes			
Level	Pin oak	>30'				
Moist	Cool season grass	<5'				
	Japanese katsura	5-30'	Yes			

Comments:

Site of old nursery hence many different exotic and some native species. Persimmon growing inside park entrance next to tennis court. Area also known as Historic Grove.

Unit: 14
Acreage: 1.02
Mgmt. Concern: Yes

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Closed Forest	Red oak	>30'			Foot traffic	Erosion
Deciduous	Black cherry	All				Compaction
Phanerophytes	Black oak	>30'				
Slope	Tulip tree	>30'				
Dry	Sassafras	<5' & 5-30'				
	Jet black bead	<5'				

Comments:

Mature oak stand on steep slope with a lot of black cherry and Sassafras regeneration. Other tree species include mulberry, hickory spp., white ash, sweetgum, black tupelo, black locust, and flowering dogwood. Ground cover consists of rose, aster, path rush, forsythia, and CSG.

Kissena Park Entitation Unit Descriptions, Surveyed November 1986

Unit: 15
Acreage: 0.23
Mgmt. Concern: Yes

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Scrub	Rose	<5' & 5-30'	Yes		Foot traffic	
Deciduous	Mugwort	<5'	Yes		Vehicle access	
Chamaephytes	White ash	<5' & 5-30'				
Slope	Japanese honeysuckle	<5'	Yes			
Moist	Cool season grass	<5'				

Comments:

Scrubby unit dominated by rose and mugwort. MC: since it's a good wildlife site for cover. Adjacent to park pathway. Wild grape vine may become a concern, it's beginning to choke ash saplings.

Unit: 16
Acreage: 0.18
Mgmt. Concern: No

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Herbaceous	Mugwort	<5'	Yes	Old benches	Foot traffic	Trash
	Jewelweed	<5'			Vehicle access	
Hemicryptophytes	Cool season grass	<5'				
Level	Chives	<5'				
Moist	Rose	<5'	Yes			

Comments:

Part of the area is mowed so often, while the remainder is left untouched. The area is bordered by a paved walkway. Other species: curly dock, dandelion, Rubus, goldenrod, wild grape, and elderberry.

Kissena Park Entitation Unit Descriptions, Surveyed November 1986

Unit: 17
Acreage: 0.43
Mgmt. Concern: Yes

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Closed Forest	Black cherry	All		Cobblestone	Foot traffic	Compaction
Deciduous	Pin oak	>30'				Erosion
Phanerophytes	Black tupelo	All				Trash
Slope	Red maple	All				
Moist	Sassafras	All				
	Jet black bead	<5' & 5-30'				

Comments:

Other spp: rose, flowering dogwood, witch hazel, arrowwood, sweet cherry, American sycamore, aster, hawthorn, spicebush, true Solomon's seal, box elder, and Japanese honeysuckle.

Unit: 18
Acreage: 0.15
Mgmt. Concern: No

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Closed Forest	Black locust	>30'	Yes			
Deciduous	Pin oak	>30'			Foot traffic	Trash
Hemicryptophytes	Sassafras	All				
Slope	Red maple	5'-30'				
Moist	Black cherry	All				
	Honey locust	5-30'				

Comments:

Gently sloping closed forest with much less understory than adjacent unit 17. Ground cover primarily consists of star-of-Bethlehem. Much black cherry and Sassafras regeneration. Less bird species noted in this unit. Other spp: jet black bead, wild violet, arrowwood, cinquefoil, lady's thumb, rose, chives, poison ivy, and mulberry.

Kissena Park Entitation Unit Descriptions, Surveyed November 1986

Unit: 19
Acreage: 0.49
Mgmt. Concern: Yes

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Closed Forest	Black locust	>30'	Yes		Foot traffic	
Deciduous	Red maple	>30'			Picnic	
Hemicryptophytes	American elm	>30'			Vehicle access	
Slope	Pin oak	>30'				
Dry	American basswood	>30'				
	Star of bethlehem	<5'				

Comments:

Strange area consisting primarily of black locust and red maple. Corner of unit dominated by a small patch of privet. Other spp: Sassafras, flowering dogwood, London planetree, and sycamore maple.

Unit: 20
Acreage: 0.42
Mgmt. Concern: Yes

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Herbaceous	Cool season grass	<5'			Foot traffic	
	Red maple	>30'			Picnic	
Hemicryptophytes	Weeping willow	<5' & 5-30'	Yes		Vehicle access	
Level						
Wet						

Comments:

Unit is one of potential management concern because ground is very wet, more wet in some areas than others. Single red maple in lawn area; two willow saplings in very wet area. Surface water in one spot near stairs and across from Phragmites. Other species include: mugwort, clover, common plantain, dandelion, path rush, etc.

Kissena Park Entitation Unit Descriptions, Surveyed November 1986

Unit: 21
Acreage: 2.50
Mgmt. Concern: No

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Woodland	Pin oak	>30'			Foot traffic	
Deciduous	Cool season grass	<5'			Vehicle access	
Hemicryptophytes	Dandelion	<5'				
Level						
Dry						

Comments:

Mall like area lined with pin oaks. Strip of managed lawn between two center pathways. Other species include chickweed, common plantain, clover, and star-of-Bethlehem.

Unit: 22
Acreage: 33.11
Mgmt. Concern: No

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Herbaceous	Cool season grass	<5'			Sports	Compaction
	Dandelion	<5'			Picnic	
Hemicryptophytes	Pin oak	>30'			Foot traffic	
Level						
Dry						

Comments:

Large athletic area with three baseball fields. Receives a good deal of use. Lampposts along perimeter.

Kissena Park Entitation Unit Descriptions, Surveyed November 1986

Unit: 23
Acreage: 11.13
Mgmt. Concern: No

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Herbaceous	Mugwort	<5'	Yes	Landfill	Foot traffic	Fire
	Phragmites	<5' & 5-30'		Road	Horses	Compaction
Hemicryptophytes	Clover	<5'		Bldg parts		Dumping
Level	Cool season grass	<5'				
Dry						

Comments:

Large area of mugwort with patches of Phragmites. Entire area is on landfill. Many paths throughout. Perimeter has been bermed; some berms within unit. Scattered trees; willow, black locust, Lombardy poplar, and black cherry. Other spp: path rush, yarrow, etc.

Unit: 24
Acreage: 0.05
Mgmt. Concern: No

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Closed Forest	Weeping willow	5'-30'	Yes	Landfill	Foot traffic	Trash
Deciduous	Mugwort	<5'	Yes			
Hemicryptophytes						
Level						
Moist						

Comments:

A small cluster of weeping willows surrounded by a large highly disturbed field of mugwort. Pieces of fill (masonry) and small holes found in ground around the trees. Some mugwort underneath the willows along with small cherry seedlings. The unit is next to an abandoned railroad bed with a stream on the other side.

Kissena Park Entitation Unit Descriptions, Surveyed November 1986

Unit: 25
Acreage: 1.11
Mgmt. Concern: No

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Desert						Dumping
Level						
Surface water						

Comments:

Parking lot near ballfield and velodrome. Assorted trash and dumping throughout.

Unit: 26
Acreage: 3.51
Mgmt. Concern: No

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Herbaceous	Cool season grass	<5'		Landfill	Sports	Compaction
	Clover	<5'			Vehicle access	
Hemicryptophytes	Dandelion	<5'			Foot traffic	
Undulating	Mugwort	<5'	Yes			
Dry	Common plantain	<5'				

Comments:

Bicycle racing track with curved embankments on its ends known as a velodrome. Vehicles have access and use the track illegally. Place is adjacent to nearby parking lot and used as a hang-out spot by teenagers.

Kissena Park Entitation Unit Descriptions, Surveyed November 1986

Unit: 27
Acreage: 0.32
Mgmt. Concern: Yes

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Desert	Mugwort	<5'	Yes	Landfill	Vehicle access	Dumping
	Cool season grass	<5'			Foot traffic	Trash
Hemicryptophytes Level Surface water						

Comments:

Flooded area at end of parking lot near cycle track. Great birding spot; killdeer, yellowlegs, etc. sighted. Soil, wood chips, and trash dumped; some mounds form little islands in water. Killdeer have nested nearby on other side of parking lot in small mugwort field (unit #28).

Unit: 28
Acreage: 1.47
Mgmt. Concern: Yes

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Herbaceous	Mugwort	<5'	Yes	Landfill	Foot traffic	Dumping
	Clover	<5'		Foundation		Compaction
Hemicryptophytes Level	Goldenrod	<5'				Trash
Dry	Queen Anne's lace	<5'	Yes			
	Phragmites	<5'				

Comments:

Management concern due to the pair of nesting killdeer. A very compacted area with dumping and evidence of an old building site. Residents have used the area for dumping lawn clippings, leaves, and brush. Scattered elms found, but not enough to be considered regeneration.

Kissena Park Entitation Unit Descriptions, Surveyed November 1986

Unit: 29
Acreage: 0.40
Mgmt. Concern: No

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Woodland	Norway maple	All	Yes	Landfill	Foot traffic	Dumping
Deciduous	Black cherry	All		Exotics	Vehicle access	Trash
Geophytes	Mulberry	>30' & 5-30'				
Level	Honey locust	5'-30'				
Dry	Japanese knotweed	<5' & 5-30'	Yes			
	American elm	5-30'				

Comments:

Most likely the site of a previous nursery which has resulted in a very diverse and dense vegetation cover. Other species: rose, tulip tree, Virginia creeper, mugwort, Phragmites, smooth sumac, hawthorn, goldenrod, Ailanthus, dogbane, crabapple, box elder, and white ash.

Unit: 30
Acreage: 0.59
Mgmt. Concern: No

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Closed Forest	Silver maple	>30'			Foot traffic	Dumping
Deciduous	American elm	>30' & 5-30'			Vehicle access	Trash
Geophytes	Mulberry	>30' & 5-30'				
Level	Phragmites	<5' & 5-30'				
Moist	Mugwort	<5'				
	Japanese knotweed	<5'	Yes			

Comments:

Area seems to be composed of fill and remnants of the old nursery site. Part of the area was recently burned in March 1986 and there is plenty of dumping. Other spp: black cherry, Ailanthus, Eastern cottonwood (>30'), wild violet, aster, chives, goldenrod, and clover.

Kissena Park Entitation Unit Descriptions, Surveyed November 1986

Unit: 31
Acreage: 2.23
Mgmt. Concern: No

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Woodland	Hawthorn	5'-30'	Yes	Landfill	Foot traffic	Trash
Deciduous	Pin oak	>30'		Exotics	Vehicle access	
Hemicryptophytes	Cool season grass	<5'			Horses	
Undulating	Mugwort	<5'	Yes			
Moist						

Comments:

Managed lawn surrounding playground/recreational unit. Appears to be neglected compared with similar areas in Park. Perhaps due to its locale. Other spp: common plantain, dandelion, chickweed, mulberry, white pine. London planetree lines sidewalk.

Unit: 32
Acreage: 0.21
Mgmt. Concern: Yes

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Herbaceous	Mugwort	<5'	Yes	Landfill	Foot traffic	Fire
Hemicryptophytes					Vehicle access	Dumping
Undulating					Horses	Trash
Dry						

Comments:

Another mugwort field, except the mugwort is divided by a walkway made of asphalt with plenty of debris and litter on both sides. Dirt bikes contribute to most of the vehicle access problems. Other spp: plantain, dandelion, chives, and mushrooms (before the burn took place). MC: good area for potential meadow management to gain species diversity.

Kissena Park Entitation Unit Descriptions, Surveyed November 1986

Unit: 33
Acreage: 0.01
Mgmt. Concern: Yes

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Herbaceous	Japanese knotweed	<5'	Yes	Landfill	Foot traffic	Fire
Geophytes	Phragmites	<5'			Vehicle access	Dumping
Undulating						Trash
Dry						

Comments:

Small patch of Japanese knotweed near black locust unit with similar ground cover. Other species include mugwort and chives. Recently burned area. Phragmites surround unit.

Unit: 34
Acreage: 0.06
Mgmt. Concern: Yes

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Closed Forest	Black locust	<5' & >30'	Yes	Landfill	Foot traffic	Trash
Deciduous	Japanese knotweed	<5' & 5-30'	Yes			Compaction
Geophytes	Mugwort	<5'	Yes			
Level	Goldenrod	<5'				
Dry						

Comments:

Unit of black locust in between manicured lawn and trashed out field on landfill. Understory predominantly Japanese knotweed. Other spp: chives, deadly nightshade, black cherry (<5'), etc. Edge of unit border is Japanese knotweed.

Kissena Park Entitation Unit Descriptions, Surveyed November 1986

Unit: 35
Acreage: 1.68
Mgmt. Concern: Yes

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Herbaceous	Phragmites	<5'		Landfill	Foot traffic	Fire
Geophytes	Mugwort	<5'	Yes		Vehicle access	Dumping
Undulating						Trash
Dry						

Comments:

Recently burned field of Phragmites and mugwort. Phragmites apparently takes over a lot more rapidly after burns than mugwort. Fire occurred March 1986. Other species include goldenrod and CSG. A lot of heavy dumping and trash throughout field. Scattered shrubs, some Rubus present. Scattered trees include black cherry, mulberry, black locust, and Ailanthus.

Unit: 36
Acreage: 0.08
Mgmt. Concern: Yes

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Scrub	Smooth sumac	<5' & 5-30'		Landfill	Foot traffic	Fire
Deciduous	Mugwort	<5'	Yes		Vehicle access	Dumping
Chamaephytes	Phragmites	<5'			Horses	
Undulating	Bindweed	<5'				
Dry						

Comments:

Sumac scrubland recently scorched by intense fire (March '86). Most is severely burned, but beginning to regenerate already. Mugwort dominates ground cover. Other spp: clover, goldenrod, and chives.

Kissena Park Entitation Unit Descriptions, Surveyed November 1986

Unit: 37
Acreage: 0.17
Mgmt. Concern: Yes

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Scrub	Rubus	<5'		Landfill	Foot traffic	Fire
Deciduous	Smooth sumac	<5' & 5-30'			Vehicle access	Dumping
Hemicryptophytes	Black cherry	<5' & 5-30'			Horses	
Undulating	Mugwort	<5'	Yes			
Dry	Milkweed	<5'				

Comments:

Found some rabbit pellets in this unit and browsing in cherry trees. Other spp: chives, Phragmites, poor man's pepper, goldenrod, and cool season grasses.

Unit: 38
Acreage: 0.25
Mgmt. Concern: Yes

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Herbaceous	Clover	<5'		Landfill	Foot traffic	Dumping
	Cool season grass	<5'			Vehicle access	Compaction
Hemicryptophytes	Phragmites	<5'			Horses	Fire
Level	Switchgrass	<5'				
Dry	Mugwort	<5'	Yes			

Comments:

An area composed of wood chips three feet thick. It has been scraped and removed. They have seeded the area with clover and planted some black cherries, blueberry shrubs, some aspens, and bayberry. Some trees have died, but will be replaced. An abundance of butterflies crickets, and bees. Other species include chives. Stability index will change as trees are planted and regenerate.

Kissena Park Entitation Unit Descriptions, Surveyed November 1986

Unit: 39
Acreage: 0.71
Mgmt. Concern: Yes

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Herbaceous	Cool season grass	<5'		Landfill	Foot traffic Vehicle access	Dumping Fire
	Goldenrod	<5'				
Hemicryptophytes Level Dry	Mugwort	<5'	Yes		Horses	Trash
	Phragmites	<5'				

Comments:

This area was a former dumping site for wood chips. It has been scraped of the wood chips and clover and small trees (pines, cherry, blueberry shrubs, etc.) have been planted. Trees are dying; they will be replaced. A few Eastern cottonwoods thriving. The place is loaded with crickets, bees, and butterflies. Other spp: clover, yarrow, Queen Anne's lace, aster, buttercups, switchgrass, path rush, Phragmites, Rubus, cinquefoil, black cherry, aspens, rose, Japanese knotweed, curly dock, plantain, willow, and birdsfoot trefoil.

Unit: 40
Acreage: 0.15
Mgmt. Concern: Yes

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Herbaceous	Phragmites	<5'		Landfill	Foot traffic Vehicle access	Fire Dumping
	Mugwort	<5'	Yes			
Geophytes Level Dry					Horses	Trash

Comments:

Recently burned unit of Phragmites just beginning to resprout. Mugwort beginning to come in around edges. Not sure if this burned in same fire as unit 35. This unit is close to forest edge.

Kissena Park Entitation Unit Descriptions, Surveyed November 1986

Unit: 41
Acreage: 0.03
Mgmt. Concern: Yes

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Herbaceous	Phragmites	<5' & 5-30'		Landfill	Foot traffic	Fire
	Mugwort	<5'	Yes		Vehicle access	
Hemicryptophytes	Goldenrod	<5'			Horses	
Undulating						
Dry						

Comments:

Small mound of Phragmites and mugwort, which are codominants, probably formed when adjacent areas were scraped. Other species include porcelain berry and CSG but only in small amounts.

Unit: 42
Acreage: 0.15
Mgmt. Concern: Yes

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Herbaceous	Phragmites	<5' & 5-30'		Landfill	Foot traffic	Dumping
	Mugwort	<5'	Yes		Vehicle access	Trash
Geophytes					Horses	
Level						
Dry						

Comments:

Thick stand of Phragmites one of the few that have not burned. Very little mugwort around edges near road; area's adjacent to unit 43. A lot of mugwort growing in Phragmites.

Kissena Park Entitation Unit Descriptions, Surveyed November 1986

Unit: 43
Acreage: 0.35
Mgmt. Concern: Yes

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Herbaceous	Mugwort	<5'	Yes	Landfill	Foot traffic	Dumping
	Pin oak	5'-30'			Vehicle access	Compaction
Hemicryptophytes	Goldenrod	<5'			Horses	Trash
Level	Phragmites	<5'				
Dry	Cool season grass	<5'				

Comments:

The area is mostly undisturbed compared to adjacent unit 42. Other spp: poison ivy, a patch of dogbane, mustard spp., CSG, chives, crabapple, Ailanthus, smooth sumac, Queens Anne's lace, Rubus, path rush, tatarian honeysuckle and black cherry trees with tent caterpillars. MC: good species diversity here.

Unit: 44
Acreage: 0.37
Mgmt. Concern: No

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Herbaceous	Phragmites	<5'		Landfill	Foot traffic	Dumping
	Rubus	<5'				Trash
Chamaephytes	Mugwort	<5'	Yes			
Undulating						
Dry						

Comments:

Area adjacent to the edge of the woods in which a vagabond lives. A lot of Rubus intermingled with the Phragmites. There is also a small single thicket of Rubus in the unit itself. Other spp: goldenrod, horsetail, and a few black cherry trees (<5); also a few scattered nannyberries and bindweed present.

Kissena Park Entitation Unit Descriptions, Surveyed November 1986

Unit: 45
Acreage: 0.05
Mgmt. Concern: Yes

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Scrub	Rubus	<5'				Dumping
Deciduous	Goldenrod	<5'				Trash
Chamaephytes	Cool season grass	<5'				
Level						
Dry						

Comments:

Undisturbed area dominated by Rubus and surrounded by Phragmites. MC: Don't want Phragmites invading. Other species include switchgrass, milkweed, and Queen Anne's lace.

Unit: 46
Acreage: 1.30
Mgmt. Concern: Yes

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Herbaceous	Polygonum	<5'		Landfill	Foot traffic	Dumping
	Mugwort	<5'	Yes			
Geophytes	Goldenrod	<5'				
Undulating	Phragmites	<5'				
Dry						

Comments:

A highly disturbed and very dry area. A lot of debris (stumps, rocks, and branches) from the forestry crews that has been covered with soil. The soil may be from the Kissena Lake scrapings. Many little holes or burrows are in the soil. Other spp: CSG, moss (now dried up), and ants. Single willow tree in the unit.

Kissena Park Entitation Unit Descriptions, Surveyed November 1986

Unit: 47
Acreage: 0.17
Mgmt. Concern: Yes

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Herbaceous	Polygonum	<5'		Landfill	Foot traffic	Dumping
	Bindweed	<5'				Compaction
Geophytes	Mugwort	<5'	Yes			Fire
Undulating						
Dry						

Comments:

MC: There should be a proper placing of dredge material from Kissena Lake. This area is similar to unit 61, but there is a lot more bindweed. The bindweed and/or the fire has killed a tree in the unit as well. Other spp: curly dock, goldenrod, Phragmites, and unknown grass.

Unit: 48
Acreage: 0.02
Mgmt. Concern: No

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Herbaceous	Cattails	<5'		Landfill	Foot traffic	
	Cool season grass	<5'			Vehicle access	
Geophytes	Algae	<5'			Horses	
Level						
Surface water						

Comments:

Wet area adjacent to nature trail that varies in water content depending upon the time of year. MC: because of cattail uniqueness. Other species includes path rush and elecharis spp. Quite a microscopic community abundant with life in the water. CSG more abundant during dry season.

Kissena Park Entitation Unit Descriptions, Surveyed November 1986

Unit: 49
Acreage: 0.01
Mgmt. Concern: Yes

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Herbaceous	Cattails	<5'		Landfill	Foot traffic	
	Phragmites	<5'			Vehicle access	
Geophytes	Sedge/rush grass	<5'			Horses	
Level						
Wet						

Comments:

Built up embankments surround a low area of cattails and Phragmites on three sides. Area adjacent to nature trail across from wet unit of cattails. Other species include goldenrod and curly dock. MC: Because of unique cattail growth. Species composition and community structure is changing but it is not distinguishable as to whether it is changing to a drier or wetter site.

Unit: 50
Acreage: 0.93
Mgmt. Concern: Yes

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Herbaceous	Mugwort	<5'	Yes	Landfill	Foot traffic	Compaction
	Cool season grass	<5'			Vehicle access	Dumping
Hemicryptophytes	Phragmites	<5'			Horses	Trash
Undulating	Goldenrod	<5'				
Dry	Clover	<5'				

Comments:

Area was scraped when wood chip pile was removed and nature trail put in. Berm embankment built up around adjacent unit 46. Unit very disturbed. Some planted trees, mostly black cherry regeneration. Tent caterpillars on black cherry trees. Wood chips under much of the vegetation. Other species include Queen Anne's lace, rose, cinquefoil, aster, burdock, path rush, plantain, etc.

Kissena Park Entitation Unit Descriptions, Surveyed November 1986

Unit: 51
Acreage: 0.08
Mgmt. Concern: Yes

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Herbaceous	Phragmites	<5'		Landfill	Foot traffic	
	Switchgrass	<5'			Vehicle access	
Geophytes	Clover	<5'			Horses	
Level	Mugwort	<5'	Yes			
Dry						

Comments:

Sparse patch of Phragmites with switchgrass growing amongst it. Ground cover consists of interspersed mugwort and a large amount of clover. Eastern cottonwood beginning to regenerate in spots; one sapling present. Other species include goldenrod, dandelion, chickweed, mustard spp., and a small amount of cool season grasses.

Unit: 52
Acreage: 0.17
Mgmt. Concern: Yes

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Herbaceous	Phragmites	<5' & 5-30'		Landfill		Dumping Trash
Geophytes						
Level						
Wet						

Comments:

An area that is bordered by foot paths (nature Trail) and unit 55. The edges of this unit increase in diversity as the elevation increases and as it becomes drier. A lot of previously dumped forestry debris. MC: because it is seasonally flooded. Other spp: CSG, goldenrod, mugwort, aster, and Queen Anne's lace.

Kissena Park Entitation Unit Descriptions, Surveyed November 1986

Unit: 53
Acreage: 0.06
Mgmt. Concern: Yes

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Herbaceous	Dogbane	<5'		Landfill	Foot traffic	Dumping
	Clover	<5'			Vehicle access	Trash
Geophytes	Goldenrod	<5'			Horses	
Undulating	Smooth sumac	<5'				
Dry	Mugwort	<5'	Yes			
	Cool season grass	<5'				

Comments:

Small knoll like patch of dogbane and clover adjacent to nature trail. Land snails sited in unit. MC: is to preserve the nice variety of species. Herbaceous groundcover includes poison ivy, Queen Anne's lace, Rubus, Phragmites, aster, clover, English plantain, and an abundance of yarrow.

Unit: 54
Acreage: 0.05
Mgmt. Concern: Yes

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Herbaceous	Path rush	<5'		Landfill	Foot traffic	Dumping
	Moss	<5'			Vehicle access	
Hemicryptophytes	Goldenrod	<5'			Horses	
Level						
Wet						

Comments:

Unit of seasonally wet (flooded?) path rush. Clumps of grass with soil patches and moss in between. Clover grows just outside this area in a higher and drier elevation. MC: because wet area which may be utilized if extending pond. Other spp: aster, curly dock, and mugwort.

Kissena Park Entitation Unit Descriptions, Surveyed November 1986

Unit: 55
Acreage: 1.55
Mgmt. Concern: Yes

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Herbaceous	Cool season grass	<5'		Landfill	Foot traffic	Fire
	Mugwort	<5'	Yes		Vehicle access	Dumping
Hemicryptophytes	Clover	<5'			Horses	Trash
Undulating	Eastern Cottonwood	all				
Dry	Goldenrod	<5'				
	Queen Anne's lace	<5'	Yes			

Comments:

Unit very mixed in herbaceous species. Large area, species composition varies as you traverse the unit. Trees are scattered but closer to adjoining wet areas; these also include black cherry, willow, crabapple, mapleleaf viburnum, and hawthorn. Very little but some black cherry regeneration. Other spp: plantain, moss, path rush, aster.

Unit: 56
Acreage: 0.90
Mgmt. Concern: Yes

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Herbaceous	Mugwort	<5'	Yes	Landfill	Foot traffic	Dumping
	Phragmites	<5'			Horses	
Hemicryptophytes	Polygonum	<5'				
Undulating	Goldenrod	<5'				
Dry						

Comments:

Units 64 and 56 are extremely similar, but there are no trees in unit 56. This unit like most of the others, in what is now a meadow, is very disturbed and undulating due to the dumping of the lake sediments. There are some praying mantis egg cases in the unit. Other spp: black cherry, evening primrose, dandelion, and CSG.

Kissena Park Entitation Unit Descriptions, Surveyed November 1986

Unit: 57
Acreage: 0.06
Mgmt. Concern: Yes

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Aquatic plant	Phragmites	<5'		Landfill	Foot traffic	Vandalism
	Hornwort	<5'			Vehicle access	
Geophytes	Weeping willow	<5' & >30'	Yes		Horses	
Level	Chair maker's rush	<5'				
Surface water	Cattails	<5'				

Comments:

Pond in meadow area of Kissena Park fed by a natural spring. Was dug out one and a half years ago. One large willow and one sapling growing near pond's edge. Hornwort and Phragmites growing in water. Pickerelweed also present.

Unit: 58
Acreage: 0.17
Mgmt. Concern: Yes

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Herbaceous	Mugwort	<5'	Yes	Landfill	Foot traffic	Trash
	Goldenrod	<5'			Horses	
Hemicryptophytes	Cool season grass	<5'				
Undulating	Smooth sumac	<5'				
Dry						

Comments:

MC: Because the meadow encompasses the spring fed pond. A nature trail winds its way through the unit. Part of the area is flat, but signs of past dumping evident. Small clumps of sumac bordering the Phragmites unit. Other spp: clover, curly dock, Queen Anne's lace, moss, one crabapple, strawberry, one black locust sapling, dandelion, daisy, and evening primrose.

Kissena Park Entitation Unit Descriptions, Surveyed November 1986

Unit: 59
Acreage: 0.11
Mgmt. Concern: No

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Closed Forest	Black locust	<5' & 5-30'	Yes	Landfill	Foot traffic	
Deciduous	Mugwort	<5'	Yes		Vehicle access	
Hemicryptophytes					Horses	
Undulating						
Dry						

Comments:

Stand of black locust atop raised slope near pond. Mugwort dominates the groundcover. A single black cherry tree on unit's edge toward bike track. Although the stand is a young age, there is no regeneration evident. Bird life abundant. Nearby pond provides perfect wildlife setting; therefore it is a management concern.

Unit: 60
Acreage: 0.17
Mgmt. Concern: Yes

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Herbaceous	Phragmites	<5'			Foot traffic	
	Black locust	5'-30'	Yes			
Geophytes	Japanese knotweed	<5'	Yes			
Level	Norway maple	5'-30'	Yes			
Moist	Weeping willow	<5' & 5-30'	Yes			
	Mugwort	<5'	Yes			

Comments:

MC: The area is occasionally flooded. Species are indicative of both wet and disturbed sites. Low lying area of Phragmites with some areas wetter than others. Other spp: black cherry, deadly nightshade, CSG, unknown shrub, bindweed, goldenrod, box elder, and arrow arum.

Kissena Park Entitation Unit Descriptions, Surveyed November 1986

Unit: 61
Acreage: 4.55
Mgmt. Concern: Yes

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Herbaceous	Polygonum	<5'		Landfill	Foot traffic	Dumping
	Mugwort	<5'	Yes			Compaction
Geophytes	Goldenrod	<5'				Trash
Undulating	Phragmites	<5' & 5-30'				
Dry						

Comments:

This is the area which also received Kissena Lake sediments. The dredging is done every twenty years. Other spp: mullein, evening primrose, black cherry, mustard spp., curly dock, plantain, clover, CSG, and dandelion.

Unit: 62
Acreage: 0.09
Mgmt. Concern: Yes

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Herbaceous	Phragmites	<5' & 5-30'		Landfill	Foot traffic	Dumping
	Mugwort	<5'	Yes			
Geophytes						
Undulating						
Dry						

Comments:

Unit of Phragmites on undulating surface with much disturbance. Ground cover is primarily mugwort but also patches of Polygonum present. Very disturbed unit therefore should be a small part of a larger management concern in this area.

Kissena Park Entitation Unit Descriptions, Surveyed November 1986

Unit: 63
Acreage: 0.53
Mgmt. Concern: Yes

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Aquatic plant	Phragmites	<5'		Landfill	Foot traffic	Dumping
	Cyperus spp.	<5'			Vehicle access	Trash
Geophytes	Pickeralweed	<5'			Horses	
Level	Algae	<5'				
Surface water						

Comments:

Vernal pond located at east end of cycle track. Bird life abundant as in other flooded area near parking lot. A few Eastern cottonwood saplings near water's edge. Pond shrinks in size as summer progresses; it totally dries up by midsummer, weather permitting.

Unit: 64
Acreage: 0.48
Mgmt. Concern: Yes

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Herbaceous	Mugwort	<5'	Yes	Landfill	Foot traffic	Dumping
	Phragmites	<5'				
	Eastern cottonwood	<5'				
Slope	Weeping willow	<5' & >30'	Yes			
Moist	Cool season grass	<5'				
	Goldenrod	<5'				

Comments:

Very disturbed area similar to adjacent unit 56, but this unit has more trees and there is good Eastern cottonwood regeneration. Phragmites are growing in the depression made by dumping and water collection. MC: because it is very disturbed and there are praying mantis egg cases. Other spp: thistle, polygonum, CSG, evening primrose, crabapple, black cherry, dandelion, etc.

Kissena Park Entitation Unit Descriptions, Surveyed November 1986

Unit: 65
Acreage: 0.16
Mgmt. Concern: Yes

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Herbaceous	Mugwort	<5'	Yes	Landfill	Foot traffic	Dumping
	Black locust	5'-30'	Yes			
Hemicryptophytes	Goldenrod	<5'				
Undulating	Cool season grass	<5'				
Moist	Weeping willow	5'-30'				
	E. Cottonwood	<5'				

Comments:

Area between disturbed unit 64, bike track, and vernal pond. Nice, quiet area, not easily accessible. MC: since variety of herbaceous cover is being overtaken by mugwort. Ground cover includes thistle, aster, path rush, dandelion, Queen Anne's lace, Phragmites, etc.

Unit: 66
Acreage: 0.63
Mgmt. Concern: Yes

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Herbaceous	Mugwort	<5'	Yes	Landfill	Foot traffic Vehicle access	Compaction
	Eastern Cottonwood	<5'				
Hemicryptophytes	Black locust	<5'	Yes			
Slope	Cool season grass	<5'				
Wet	Rose	<5'	Yes			

Comments:

Border strip alongside velodrome with much cottonwood and black locust regeneration near path. Other trees include weeping willow, black cherry, and mulberry. Other ground cover species include dandelion, clover, plantain etc.

Kissena Park Entitation Unit Descriptions, Surveyed November 1986

Unit: 67
Acreage: 0.26
Mgmt. Concern: Yes

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Herbaceous	Mugwort	<5'	Yes	Landfill	Foot traffic	Dumping
	Goldenrod	<5'		Sewer line	Vehicle access	
Hemicryptophytes	Cool season grass	<5'		Creed brnch	Horses	
Undulating	Phragmites	<5'				
Dry						

Comments:

Unit is adjacent to a chipped pathway used for walking, nature talks, cars, horses, and dirt bikes. It was originally planned for a railroad branch but scrapped. Area is hilly due to disturbance caused by dumping. Other spp: black cherry, plantain, curly dock, polygonum, and willows.

Unit: 68
Acreage: 0.04
Mgmt. Concern: Yes

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Herbaceous	Sedge	<5'		Landfill	Foot traffic	Dumping
	Cattails, common	<5'			Vehicle access	Compaction
Hemicryptophytes	Algae	<5'			Horses	
Level	Cool season grass	<5'				
Surface water						

Comments:

One half of the dumping area is seasonally flooded and/or wet most times of the year. This is the main reason for this unit being a management concern. Some debris with branches and stumps sparsely laid out in unit. Area frequented by birds who also find shelter in a nearby apple tree. Cattails unique to unit, another management concern. Other species are lily pads, pickerel weed, and bulrush.

Kissena Park Entitation Unit Descriptions, Surveyed November 1986

Unit: 69
Acreage: 0.05
Mgmt. Concern: Yes

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Herbaceous	Mugwort	<5'	Yes	Landfill	Vehicle access	Dumping
Hemicryptophytes	Cool season grass	<5'			Foot traffic	Compaction
Level					Horses	
Dry						

Comments:

Embankments built up around this area which was possibly used to dump dredge from Kissena Lake. Now, half of the area is wet (adjacent to unit 68) and half is dry this unit. A lot of debris is dumped here wood chips, branches, concrete, leaves, boulders, stumps, etc. Soil is very compacted. Little amount of vegetation, just beginning to sprout in some areas. MC: especially if dumping continues. Other species are clover and deadly nightshade.

Unit: 70
Acreage: 0.02
Mgmt. Concern: Yes

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Scrub	Smooth sumac	<5'		Landfill	Foot traffic	
Deciduous	Rubus	<5'		Sewer line	Vehicle access	
Chamaephytes	Black locust	5'-30'	Yes		Horses	
Level	Mugwort	<5'	Yes			
Dry						

Comments:

Small scrub unit similar to unit 72, but with Rubus and black locust present, no rose and one single black cherry. Other species include goldenrod. MC: because unit is very close to areas of dumping.

Kissena Park Entitation Unit Descriptions, Surveyed November 1986

Unit: 71
Acreage: 0.10
Mgmt. Concern: No

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Herbaceous	Mugwort	<5'	Yes	Sewer line	Foot traffic	Dumping
	Cool season grass	<5'			Horses	
Hemicryptophytes	Goldenrod	<5'			Vehicle access	
Level						
Dry						

Comments:

A very disturbed area with a lot of dumping, primarily branches and stumps. Other debris as well (car parts, foundations, masonry). Other species are aster, clover, Queen Anne's lace, and plantain.

Unit: 72
Acreage: 0.02
Mgmt. Concern: Yes

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Scrub	Smooth sumac	<5' & 5-30'		Landfill	Foot traffic	Dumping
Deciduous	Black cherry	<5' & 5-30'		Creed brnch	Horses	
Chamaephytes	Rose	<5' & 5-30'	Yes	Sewer line	Vehicle access	
Level	Mugwort	<5'	Yes			
Dry	Wild grape	<5'				
	Rubus	<5'				

Comments:

This unit is sandwiched between the cycle track and chipped path. There is a sewer line underneath and at one time a railroad branch (Creedmore line). The management concern is due to the pair of nesting brown thrashers and the sumac found in the unit. Also, there is a praying mantis egg case and a tent caterpillar nest present. Other species: dandelion, goldenrod, and mustard spp.

Kissena Park Entitation Unit Descriptions, Surveyed November 1986

Unit: 73
Acreage: 0.15
Mgmt. Concern: No

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Herbaceous	Mugwort	<5'	Yes	Landfill	Foot traffic	Dumping
	Goldenrod	<5'			Horses	Compaction
Hemicryptophytes	Clover	<5'			Vehicle access	
Slope	Cool season grass	<5'				
Dry	Queen Anne's lace	<5'	Yes			

Comments:

This unit is low lying and sloping and between the cycle track and chipped path. A praying mantis egg case found on a dried mugwort stem. Other spp: 2 pin oaks, black cherry, Rubus, aster, dandelion, E. cottonwood regeneration, and plantain.

Unit: 74
Acreage: 0.37
Mgmt. Concern: Yes

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Woodland	Eastern Cottonwood	All		Landfill	Foot traffic	Dumping
Deciduous	Black locust	All	Yes	Old drain		
Hemicryptophytes	Mulberry spp.	<5' & 5-30'				
Undulating	Mugwort	<5'	Yes			
Moist	Goldenrod	<5'				
	Phragmites	<5'				

Comments:

Small woodland near edge of mugwort field. Much cottonwood regeneration, specifically near path around cycle track. A lot of landfill debris noticeable at top of soil. MC: since cottonwoods appear to be taking over nicely. Ground cover mostly CSG.

Kissena Park Entitation Unit Descriptions, Surveyed November 1986

Unit: 75
Acreage: 0.05
Mgmt. Concern: Yes

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Closed Forest	Red maple	<5' & >30'		Exotics	Foot traffic	Dumping
Deciduous	Norway maple	<5' & >30'	Yes			Compaction
Phanerophytes	Silver maple	>30'				Trash
Undulating	White ash	>30' & 5-30'				
Moist	Black cherry	All				
	Ailanthus	<5' & >30'	Yes			

Comments:

MC: preserve native species in this natural area. Small unit of maples with little ground cover vegetation, possibly due to moisture and/or soil compaction. Adjacent to Booth Memorial Avenue; therefore, convenient dumping ground lawn clippings, etc. Quite a bit of black cherry regeneration, but not a threat since it's small. Other spp: rose-of Sharon, day lily, mugwort and CSG along border, violet, deadly nightshade, mulberry, and chives.

Unit: 76
Acreage: 0.52
Mgmt. Concern: Yes

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Closed Forest	Black cherry	All		Exotics	Foot traffic	Dumping
Deciduous	Pin oak	>30' & 5-30'			Dirt biking	Erosion
Phanerophytes	Sycamore maple	<5' & 5-30'	Yes		Horses	
Slope	Norway maple	<5' & 5-30'	Yes			
Dry	Exotic/cult spp	<5'	Yes			

Comments:

Closed forest dominated by black cherry with many exotic species present such as rose-of-Sharon, periwinkle, daylily, yew, daffodil, and Japanese barberry. The location is the site of an old nursery. MC: since there is very little forested area left in the park that is relatively undisturbed. Other spp: mulberry, arrowwood, mapleleaf viburnum, Virginia creeper, greenbrier, poison ivy, deadly nightshade, mugwort, Japanese honeysuckle, and chives.

Kissena Park Entitation Unit Descriptions, Surveyed November 1986

Unit: 77
Acreage: 0.80
Mgmt. Concern: Yes

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Closed Forest	Pin oak	All		Exotics	Foot traffic	Trash
Deciduous	Black cherry	All			Dirt bikes	Dumping
Phanerophytes	Gray birch	<5' & 5-30'			Horses	
Slope	Norway maple	<5' & 5-30'	Yes			
Dry						

Comments:

This area is a management concern because it is less disturbed and is part of the small forested areas of the park. At one time, this was the site of an old nursery. Other spp: black tupelo, white oak, quaking aspen, mugwort, chives, Virginia creeper, poison ivy, goldenrod, CSG, Rose, Japanese barberry, Japanese honeysuckle, dogbane, garlic mustard, and true Solomon's seal.

Unit: 78
Acreage: 0.10
Mgmt. Concern: No

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Closed Forest	Black locust	5'-30'	Yes		Foot traffic	Fire
Deciduous	Black cherry	<5' & 5-30'			Horses	Trash
Hemicryptophytes	Mugwort	<5'	Yes			
Level						
Dry						

Comments:

This unit lies between the field of Phragmites and mugwort and the playground and recreation site. Other species are wild violet, Phragmites, mulberry, CSG, and chives.

Kissena Park Entitation Unit Descriptions, Surveyed November 1986

Unit: 79
Acreage: 0.20
Mgmt. Concern: Yes

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Closed Forest	Black cherry	All			Foot traffic	Trash
Deciduous	Black locust	All	Yes			Compaction
Phanerophytes	Mugwort	<5'	Yes			
Slope						
Dry						

Comments:

Small unit of black cherry with some scattered black locusts. Area is carpeted with black cherry seedlings little other ground vegetation. Those spots that receive more sunlight have a high concentration of mugwort. MC: one of the few natural areas in park. Other spp: deadly nightshade, goldenrod, etc.

Unit: 80
Acreage: 0.05
Mgmt. Concern: No

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Scrub	Smooth sumac	<5' & 5-30'		Landfill	Foot traffic	Dumping
Deciduous	Goldenrod	<5'				Trash
Hemicryptophytes	Mugwort	<5'	Yes			
Level						
Dry						

Comments:

The unit is on the border of a highly disturbed field, hence the dominance of mugwort. There are rabbit droppings on a car hood in the unit. Other spp: CSG, milkweed, clover, and regenerating black cherry.

Kissena Park Entitation Unit Descriptions, Surveyed November 1986

Unit: 81
Acreage: 0.13
Mgmt. Concern: No

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Closed Forest	Black locust	>30' & 5-30'	Yes			Fire
Deciduous	Mugwort	<5'	Yes			
Hemicryptophytes	Garlic mustard	<5'				
Slope						
Dry						

Comments:

Area is the edge between the highly disturbed field and the less disturbed forest. There is a sea of garlic mustard with some black cherry regeneration occurring near the forest edge. Other species are goldenrod and self heal.

Unit: 82
Acreage: 0.45
Mgmt. Concern: Yes

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Woodland	Black willow	>30'			Foot traffic	Erosion
Deciduous	Mugwort	<5'			Vehicle access	Dumping
Hemicryptophytes					Horses	Trash
Slope						
Dry						

Comments:

Strip along road forested area of park. Willow on west side of road; mugwort dominates ground cover. Exotic species listed here have spilled over only in area adjoining unit 1. A lot of black cherry regeneration in area near unit 77. MC: quite a bit of dumping along road. Other species are rose-of-Sharon, dandelion, clover, Virginia creeper, Japanese honeysuckle, campion, Queen Anne's lace, goldenrod, mullein, mustard spp., etc.

Kissena Park Entitation Unit Descriptions, Surveyed November 1986

Unit: 83
Acreage: 0.27
Mgmt. Concern: Yes

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Closed Forest	Pin oak	All			Foot traffic	Dumping
Deciduous	Black oak	All			Horses	Trash
Phanerophytes	Black cherry	All				
Slope	White ash	All				
Dry	Norway maple	All	Yes			
	Gray birch	5-30'				

Comments:

Part of border along forested area with a wide variety of species. A lot of black cherry regeneration; oak spp. regenerating nicely too. Noted more sycamore maple regeneration than Norway maple. Other trees include E. cottonwood, smooth sumac, mulberry, buckthorn, and white oak. Herbaceous species include day lily, rose, true and false Solomon's seal, poison ivy, arrowwood, mugwort, chives, goldenrod, garlic mustard, jewelweed, Rubus, CSG, bayberry, flowering dogwood, and tatarian honeysuckle.

Unit: 84
Acreage: 1.36
Mgmt. Concern: Yes

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Closed Forest	Black oak	All			Foot traffic	
Deciduous	Black cherry	All			Bike/ ATV	
Phanerophytes	Black birch	>30'			Horses	
Slope	Pin oak	>30'				
Dry	Sycamore maple	<5'	Yes			

Comments:

Closed forest of oak-cherry-birch left relatively undisturbed and providing a nice area (snags, cover, etc.) for many bird species. Nice regeneration; enough sycamore maple regeneration to warrant mention. Ash regeneration in one spot. Other spp: rose, true and false Solomon's seal, deadly nightshade, Virginia creeper, chives, poison ivy, mugwort, CSG, aster, lesser celandine, lily-of-the-valley, wild violet, etc.

Kissena Park Entitation Unit Descriptions, Surveyed November 1986

Unit: 85
Acreage: 0.43
Mgmt. Concern: Yes

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Closed Forest	Black cherry	All		Road	Foot traffic	Trash
Deciduous	Pin oak	All			Horses	Dumping
Phanerophytes	Sycamore maple	<5' & 5-30'				
Slope	White ash	<5' & 5-30'				
Dry	Virginia creeper	<5'				

Comments:

MC: Because area is relatively natural, and also, there is a flicker nesting in a black cherry snag. The Virginia creeper is very large in size. Sycamore maple and white ash are small and in the process of growing and they might eventually change the species composition. There is a good bit of oak and black cherry regeneration. Other species are chives, lady's thumb, false Solomon's seal, arrowwood, aster, spirea spp., Japanese honeysuckle, poison ivy and rose-of-Sharon.

Unit: 86
Acreage: 0.04
Mgmt. Concern: Yes

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Closed Forest	Norway maple	All	Yes	Road	Vehicle access	Dumping
Deciduous	Sycamore maple	All	Yes		Foot traffic	Trash
Phanerophytes	Black cherry	<5' & >30'				
Slope	Mugwort	<5'	Yes			
Dry						

Comments:

Thin strip of maple bordering Booth Memorial Avenue. A lot of leaf dumping, branches, and old Christmas trees throughout the unit; therefore, it's a management concern. More sycamore maple regeneration and more older Norway maple trees present. Other spp: Japanese knotweed, Virginia creeper, chives, dandelion, poison ivy, Japanese barberry, catbrier, rose-of-Sharon, CSG, English ivy, plantain, etc.

Kissena Park Entitation Unit Descriptions, Surveyed November 1986

Unit: 87
Acreage: 0.25
Mgmt. Concern: Yes

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Closed Forest	Black locust	>30'	Yes	Road	Garden	Trash
Deciduous	Black cherry	All			Foot traffic	
Geophytes	Norway maple	<5'	Yes		Vehicle access	
Level	Sycamore maple	<5'	Yes			
Dry	Japanese knotweed	<5' & 5-30'	Yes			

Comments:

Closed forest of older black locust atop a knoll near Booth Memorial Avenue. Older black cherry appear to be dying. Quite a bit of maple regeneration; more sycamore under 5 feet than Norway. Huge patch of Japanese knotweed where an area has been cleared for gardening in the center. Great variety of ground cover species includes marsh marigold, lady's-thumb, garlic mustard, Japanese honeysuckle, Virginia creeper, poison ivy, mint spp., rose, tatarian honeysuckle, day lily, mugwort, deadly nightshade. Trees are white ash, mulberry, and hawthorn.

Unit: 88
Acreage: 0.11
Mgmt. Concern: Yes

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Closed Forest	Norway maple	All	Yes		Foot traffic	Erosion
Deciduous	Black cherry	<5' & >30'			Dirt bikes	Compaction
Phanerophytes	Sycamore maple	All	Yes			Dumping
Slope						
Dry						

Comments:

Unit 88 is an extremely steep slope with heavy foot traffic and dirt bike use causing erosion and compaction. Some of the sides are bare and others covered with small black cherry seedlings. Other spp: chives, false Solomon's seal, poison ivy, Japanese knotweed, lesser celandine, aster, black birch, deadly nightshade, lady's-thumb, Virginia creeper, day lily, rose, arrowwood, CSG, Japanese barberry and honeysuckle spp.

Kissena Park Entitation Unit Descriptions, Surveyed November 1986

Unit: 89
Acreage: 0.18
Mgmt. Concern: Yes

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Woodland	Black locust	>30'	Yes		Foot traffic	Compaction
Deciduous	Ailanthus	>30' & 5-30'	Yes		Dirt bikes	
Chamaephytes	Mulberry spp.	<5' & 5-30'			Horses	
Slope	Rubus	<5'				
Dry						

Comments:

A small open area with plenty of sunlight reaching the forest floor. There is a nature trail winding its way through the unit. Unit 89 has regenerating cherry and mulberry. MC: do not want Ailanthus and Rubus taking over. Other spp: lady's-thumb, wild grape, goldenrod, deadly nightshade, mugwort, Virginia creeper, Japanese honeysuckle, tatarian honeysuckle, dogbane, sycamore maple, and CSG.

Unit: 90
Acreage: 0.64
Mgmt. Concern: No

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Closed Forest	Black cherry	All			Foot traffic	Trash
Deciduous	Sycamore maple	All	Yes		Horses	
Phanerophytes					Vehicle access	
Slope						
Dry						

Comments:

Closed forest of black cherry and sycamore maple at east corner of Kissena park. Ground cover is mainly a blanket of cherry regeneration. Other trees are black birch, white ash, and sweet cherry. A small amount of wild grape growing on black cherries in one area. Other spp: Virginia creeper, lesser celandine, lady's-thumb, aster, elderberry, mulberry, arrowwood, a little oak regeneration, poison ivy, Japanese knotweed, CSG, chives, jewelweed, wild violet, and garlic mustard. MC: part of natural forest.

Kissena Park Entitation Unit Descriptions, Surveyed November 1986

Unit: 91
Acreage: 0.50
Mgmt. Concern: Yes

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Closed Forest	Black cherry	All		Road	Foot traffic	Compaction
Deciduous	Black oak	All			Vehicle access	Trash
Phanerophytes	Sycamore maple	<5' & 5-30'	Yes		Horses	
Slope	Arrowwood	<5' & 5-30'				
Dry						

Comments:

Unit 12 is very similar to unit 91, but the obvious distinction is the presence of black oaks. There is a paved path running through the unit. The area has more undergrowth than unit 12. Other spp: poison ivy, Virginia creeper, Solomon's seal, lady's-thumb, wild grape, white ash, white oak, red oak, lily-of-the-valley, red maple, pin oak, Japanese knotweed, black birch, bittersweet, and Jack-in-the-pulpit.

Unit: 92
Acreage: 0.24
Mgmt. Concern: Yes

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Closed Forest	Pin oak	>30'		Road	Foot traffic	Trash
Deciduous	Black cherry	All			Horses	Dumping
Phanerophytes	Black oak	All			Vehicle access	
Level	Japanese knotweed	<5' & 5-30'	Yes			
Dry	Tar. Honeysuckle	<5' & 5-30'				
	Arrowwood	<5'				

Comments:

Closed forest with mixed species. Sunlight filters through easily in spots. Blanket of poison ivy in one area; Japanese honeysuckle, Japanese knotweed, and black cherry regeneration in other spots. Knotweed is rapidly growing in sunlight areas. Other trees are tulip tree, big tooth aspen, white ash, sycamore maple, American elm, and red maple. NOTE: dominant vegetation <15' is borderline phanerophyte/ chamaephyte. MC: knotweed problem. Other sp: arrowwood, Virginia creeper, great ragweed, mugwort, aster, chives, garlic mustard, goldenrod, etc.

Kissena Park Entitation Unit Descriptions, Surveyed November 1986

Unit: 93
Acreage: 0.17
Mgmt. Concern: Yes

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Closed Forest	Pin oak	All		Exotics		Compaction
Deciduous	Black cherry	All		Road		Erosion
Phanerophytes	Black oak	All				
Slope						
Dry						

Comments:

MC: plenty of oak regeneration of various oak species. There is also great diversity here and wildlife shrubs, such as buckthorn, Rubus, and blueberry. Barberry growing in this area which is unusual. A lot of CSG present--unusual ground cover in a forest. Other spp: cinquefoil, goldenrod, Virginia creeper, poison ivy, arrowwood, wild violet, black birch, quaking aspen, gray birch. Tartarian honeysuckle, mugwort, white ash, false Solomon's seal, Japanese honeysuckle, etc.

Unit: 94
Acreage: 0.03
Mgmt. Concern: Yes

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Vineland	Porcelain berry	<5' & 5-30'	Yes			
	Smooth sumac	<5' & 5-30'				
Chamaephytes	Mugwort	<5'	Yes			
Slope						
Dry						

Comments:

Small patch of scrubland being taken over by lianas. Most likely due to location at forest edge. MC: vines have potential to encroach on adjacent areas.

Kissena Park Entitation Unit Descriptions, Surveyed November 1986

Unit: 95
Acreage: 0.09
Mgmt. Concern: Yes

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Herbaceous	Japanese knotweed	<5' & 5-30'	Yes		Foot traffic	
	Rubus	<5'			Vagabond	
Geophytes	Phragmites	<5' & 5-30'				
Level	Rose	<5'	Yes			
Dry	Mugwort	<5' & 5-30'	Yes			

Comments:

Unit of knotweed and scrubby species bordering forest edge and meadow. Phragmites patch close to meadow. Not much foot traffic through unit. Provides great cover for vagabonds living in park. MC: with proper encouragement, unit could provide essential winter cover for wildlife; at present, not much use here. Other spp: goldenrod, milkweed, cinquefoil, CSG, etc--all near outer edge of unit adjacent to meadow. Additional spp: Eastern cottonwood, crabapple.

Unit: 96
Acreage: 0.31
Mgmt. Concern: Yes

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Woodland	Pin oak	>30'			Foot traffic	Erosion
Deciduous	Black cherry	<5' & >30'			Sports	Compaction
Hemicryptophytes	Smooth sumac	<5' & 5-30'			Horses	
Slope	Mugwort	<5'	Yes			
Dry	Rubus	<5'				

Comments:

Unit primarily dominated by pin oak and black cherry, but quite an assortment of tree species throughout. Ground cover predominantly mugwort. Sumac is regenerating in area of open sunlight. Some liana present. Unlike adjacent unit 95, this area is frequented by birds and should be maintained. Other trees: box elder, Eastern cottonwood, black oak, black locust, crabapple, mulberry, sycamore maple. Other spp: milkweed, arrowwood, CSG, wild grape, switchgrass, bush clover, cinquefoil, Virginia creeper, poison ivy, yarrow, bayberry, etc.

Kissena Park Entitation Unit Descriptions, Surveyed November 1986

Unit: 97
Acreage: 0.28
Mgmt. Concern: No

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Herbaceous	Mugwort	<5' & 5-30'	Yes		Foot traffic	Trash
Hemicryptophytes Level Dry	Phragmites	<5' & 5-30'				

Comments:

Dense strip of mugwort and Phragmites bordering forest edge. Layers of dead mugwort under the vegetation. Phragmites are in clumps. Little or no other vegetation.

Unit: 98
Acreage: 0.44
Mgmt. Concern: Yes

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Closed Forest	Black cherry	All		Road	Foot traffic	Compaction
Deciduous	Black oak	5'-30'			Sports	Vandalism
Phanerophytes	Black locust	>30'	Yes		Horses	Dumping
Slope	Ailanthus	<5' & >30'	Yes			
Dry	Japanese knotweed	<5'	Yes			

Comments:

Area extremely disturbed; many trees have been cut. There is a dirt bike jump inside unit as well. Also many signs of gatherings broken glass, garbage, and cans. MC: due to Ailanthus regeneration and heavy use by dirt bikes. Other species are mugwort, tatarian honeysuckle, sycamore maple, chives, lady's-thumb, mulberry, rose, Virginia creeper, lesser celandine, wild violet, mustard, white ash, Norway maple, etc.

Kissena Park Entitation Unit Descriptions, Surveyed November 1986

Unit: 99
Acreage: 0.14
Mgmt. Concern: Yes

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Vineland	Wild grape Black cherry	<5' & 5-30' All		Road	Foot traffic Horses Vehicle access	Trash Dumping
Lianas Slope Dry						

Comments:

Unit of grape vines spread out in area; leads from road to interior. Two dead cottonwoods, one covered with poison ivy. Some fire scars on trees. MC: lianas spreading to adjacent cherry trees. Other spp: pin and black oak, American elm, mulberry, sycamore maple, mugwort, Virginia creeper, lady's-thumb, rose, poison ivy, tatarian honeysuckle, and a patch of Japanese knotweed where more sunlight filters through.

Unit: 100
Acreage: 0.19
Mgmt. Concern: No

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Closed Forest Deciduous Phanerophytes Level Dry	Black cherry Black oak Arrowwood Pin oak	All <5' & >30' <5' >30'		Road	Foot traffic Horses Vehicle access	Trash Dumping

Comments:

Closed forest of black cherry with a few large oaks. Understory is easy to move through but is indicative of good regeneration. Other species include jewelweed, lily-of-the-valley, garlic mustard, lady's-thumb, Virginia creeper, poison ivy, Japanese knotweed, Japanese honeysuckle, false and true Solomon's seal, Viburnum, mulberry, rose, elderberry, Japanese barberry, crabapple, tatarian honeysuckle, etc.

Kissena Park Entitation Unit Descriptions, Surveyed November 1986

Unit: 101
Acreage: 0.06
Mgmt. Concern: No

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Herbaceous Geophytes Slope Dry	Japanese knotweed	<5' & 5-30'	Yes		Foot traffic Horses Vehicle access	Trash

Comments:

An embankment next to 164th Street and sloping into the woods. Lot is a dense stand of Japanese knotweed with many little cherry seedlings all over. However, the black cherry will probably be shaded out. Other spp: CSG and chives.

Unit: 102
Acreage: 0.36
Mgmt. Concern: Yes

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Closed Forest Deciduous Geophytes Slope Dry	Black cherry Japanese knotweed Arrowwood	All <5' & 5-30' <5'	Yes	Road	Foot traffic Horses Vehicle access	Trash Dumping

Comments:

Primarily a black cherry stand with a thick understory of Japanese knotweed and arrowwood. MC: due to the lack of black cherry because the Japanese knotweed is shading it out. Other spp: aster, garlic mustard, sycamore maple on slope next to road and is regenerating, jewelweed, Jack-in-the-pulpit on border, and some black oak regeneration.

Kissena Park Entitation Unit Descriptions, Surveyed November 1986

Unit: 103
Acreage: 0.04
Mgmt. Concern: Yes

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Closed Forest	White ash	All			Foot traffic	Dumping
Deciduous	Black cherry	All			Vehicle access	
Hemicryptophytes	American elm	>30' & 5-30'				
Slope	Mugwort	<5'	Yes			
Dry						

Comments:

Highly disturbed unit. Ground cover very sparse. Area full of trash and dumping, such as cut grass, branches, and debris. Little regeneration due to intense dumping; MC: because of this. Other spp: red maple, sycamore maple, star-of-Bethlehem, Jack-in-the-pulpit, black oak, aster, CSG, lady's-thumb, chives, rose wild geranium, clover, and deadly nightshade.

Unit: 104
Acreage: 0.14
Mgmt. Concern: Yes

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Closed Forest	Sycamore maple	All	Yes	Road	Foot traffic	Trash
Deciduous	American elm	<5' & 5-30'			Horses	Dumping
Lianas	Pin oak	5'-30'			Vehicle access	
Level	Wild grape	All				
Dry	White ash	>30'				
	Japanese knotweed	<5' & 5-30'	Yes			

Comments:

MC: Closed forest that is being taken over by grape lianas. Top of large sycamore maple tree has broken off. Area is full of birds. Ground cover is predominantly Japanese knotweed, Japanese honeysuckle, mugwort, and goldenrod, but there is also poison ivy, Viburnum, chives, CSG, black cherry, rose, horsetail, trout lily, and Rubus.

Kissena Park Entitation Unit Descriptions, Surveyed November 1986

Unit: 105
Acreage: 0.13
Mgmt. Concern: Yes

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Scrub	Rubus	<5'		Road	Foot traffic	Dumping
Deciduous	Black locust	>30'	Yes		Horses	Trash
Chamaephytes	Sycamore maple	<5' & 5-30'	Yes		Sports	
Level	Wild grape	<5' & 5-30'				
Dry	Japanese knotweed	<5' & 5-30'	Yes			
	Smooth sumac	<5' & 5-30'				

Comments:

This unit is composed of many shrubs and vines with a few trees dispersed throughout. It receives a lot of sun and provides a good area for birds; therefore, it's a management concern. Also, area should be kept open and devoid of Japanese knotweed. A lot of disturbance has occurred as evidenced by the presence of berm. Other spp: goldenrod, mugwort, cinquefoil, CSG, Virginia creeper, Phragmites, mustard spp., hawthorn, arrowwood, poison ivy, white ash seedlings, American elm, switchgrass, jewelweed and an abundance of rose.

Unit: 106
Acreage: 0.30
Mgmt. Concern: No

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Woodland	Black cherry	<5' & 5-30'			Foot traffic	Trash
Deciduous	Pin oak	5'-30'			Horses	Dumping
Hemicryptophytes	Mugwort	<5'	Yes		Vehicle access	
Level	Rubus	<5'				
Dry						

Comments:

Open woodland of black cherry and mugwort with a few scattered pin oaks. Rubus interspersed within unit. Other spp: Phragmites, aster, CSG, hawkweed, goldenrod, cinquefoil, plantain, and bush clover.

Kissena Park Entitation Unit Descriptions, Surveyed November 1986

Unit: 107
Acreage: 0.19
Mgmt. Concern: No

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Closed Forest	Black cherry	<5' & 5-30'		Road	Foot traffic	Trash
Deciduous	Pin oak	>30' & 5-30'			Vehicle access	Dumping
Hemicryptophytes	Mugwort	<5'	Yes		Horses	
Level	Rose	<5' & 5-30'	Yes			
Dry	Goldenrod	<5'				

Comments:

This unit is surrounded by a paved walkway and a chipped nature trail towards the disturbed field. Area dominated by small black cherry trees as the field succession continuous towards a forest state. Many birds find this a good area for food and perching. Other spp: dayflower, Rubus, arrowwood, plantain, chives, white ash, bayberry, poison ivy, and buttercup.

Unit: 108
Acreage: 0.04
Mgmt. Concern: Yes

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Herbaceous	Japanese knotweed	<5' & 5-30'	Yes	Road	Foot traffic	
	Smooth sumac	<5' & 5-30'			Vehicle access	
Chamaephytes	Rubus	<5' & 5-30'			Horses	
Slope	Elderberry	<5' & 5-30'				
Dry						

Comments:

Small, almost Knoll-like unit comprised of the above species; this is possibly due to building up the embankment as paved road was put in. Community structure of unit is borderline herbaceous/scrub. Will definitely change but still a large amount of Japanese knotweed. MC: because of knotweed problem and the unit's potential as good wildlife habitat. Other spp: Phragmites, mugwort, jewelweed, black cherry regeneration, arrowwood, Asiatic dayflower, smartweed and lamb's quarters.

Kissena Park Entitation Unit Descriptions, Surveyed November 1986

Unit: 109
Acreage: 0.09
Mgmt. Concern: No

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Herbaceous	Phragmites	<5' & 5-30'			Foot traffic	Trash
Geophytes	Rubus	<5'			Sports	
Level					Horses	
Moist						

Comments:

Stand of Phragmites in moist area of forest. Other species include goldenrod, chives, CSG, cinquefoil, elderberry, Japanese knotweed, mugwort, jewelweed, rose, and some pin oak regeneration toward edge near 164th street.

Unit: 110
Acreage: 0.68
Mgmt. Concern: Yes

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Closed Forest	Black oak	All			Foot traffic	Trash
Deciduous	Swamp white oak	>30'			Sports	Compaction
Phanerophytes	Pin oak	All			Horses	Dumping
Level	Red maple	>30'				
Moist	Black cherry	<5' & 5-30'				
	White ash	All				

Comments:

MC: The area is a moist to wet site, thus the site is full of wet indicator species such as: Jack-in-the-pulpit, trout lily, swamp white oak, and red maple. Most likely the oldest stand of trees in Kissena park. The aforementioned oak species codominate the unit. Other species include Sassafras, American elm, American hornbeam, aster, goldenrod, CSG, Japanese knotweed, lady's thumb, Rubus, poison ivy, arrowwood, chives, mugwort, sycamore maple, etc.

Kissena Park Entitation Unit Descriptions, Surveyed November 1986

Unit: 111
Acreage: 0.37
Mgmt. Concern: No

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Closed Forest	Black cherry	All			Foot traffic	
Deciduous	Black locust	All	Yes		Vehicle access	
Phanerophytes	Black oak	All			Horses	
Level	American elm	<5' & 5-30'				
	Mugwort	<5'				
	Japanese knotweed	<5' & 5-30'	Yes			

Comments:

Forested unit which borders 164th Street and huge open area where nature trail starts. Edge along nature trail has Japanese knotweed, wild grape, and rose. Mugwort dominates ground cover. Other spp: crabapple, Ailanthus, sycamore maple, Viburnum, saplings, tatarian honeysuckle, mulberry, elderberry, Rubus, lady's thumb Virginia creeper, and CSG.

Unit: 112
Acreage: 0.06
Mgmt. Concern: Yes

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Closed Forest	Black locust	>30' & 5-30'	Yes	Road	Foot traffic	Dumping
Deciduous	Ailanthus	All	Yes		Vehicle access	
Hemicryptophytes	Mugwort	<5'	Yes		Horses	
Slope	Japanese knotweed	<5' & 5-30'	Yes			
Dry						

Comments:

Disturbed area just off paved road and nature trail. Embankment near area possibly built up when road was put in. Unit full of exotic species. Other species, just located on edge of unit, are Rubus, black cherry, and regeneration of sycamore maple and pin oak.

Kissena Park Entitation Unit Descriptions, Surveyed November 1986

Unit: 113
Acreage: 0.18
Mgmt. Concern: Yes

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Closed Forest	Black cherry	All		Road	Foot traffic	Compaction
Deciduous	Gray birch	>30' & 5-30'			Vehicle access	Erosion
Phanerophytes	Pin oak	All			Horses	
Undulating	Sycamore maple	<5' & 5-30'	Yes			
Dry	American elm	All				
	Rubus	<5'				

Comments:

Closed forest of black cherry with a significant amount of gray birch. Embankment near paved road built up; entire unit one of undulating mounds. Where canopy lets sunlight in, almost equal amounts of Rubus and Japanese knotweed have thrived. Other trees include swamp white oak, black locust, and mulberry. Other species are wild grape, poison ivy, goldenrod, aster, lady's-thumb, carrion flower, mugwort, rose, garlic mustard, CSG, and moss.

Unit: 114
Acreage: 0.62
Mgmt. Concern: Yes

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Closed Forest	Black cherry	All		Road	Foot traffic	Compaction
Deciduous	Black oak	All			Vehicle access	Trash
Hemicryptophytes	Pin oak	<5' & 5-30'			Horses	Dumping
Level	Gray birch	5'-30'				
Dry	Sassafras	<5' & 5-30'				

Comments:

There is plenty of heavy foot traffic throughout the unit with plenty of litter and a small spot where gatherings take place. Composed primarily of black cherry and black oak with plenty of mugwort covering the forest floor. There are two large, man-made holes in the unit as well. Other species are red maple, white oak, Virginia creeper, goldenrod, a patch of Rubus, CSG, a patch of arrowwood, mulberry, Japanese knotweed, smooth sumac, Phragmites, smartweed and deadly nightshade.

Kissena Park Entitation Unit Descriptions, Surveyed November 1986

Unit: 115
Acreage: 0.48
Mgmt. Concern: No

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Closed Forest	Black locust	All	Yes		Foot traffic	
Deciduous	Ailanthus	All	Yes		Vagabonds	Trash
Hemicryptophytes	Sycamore maple	<5' & 5-30'	Yes		Campfire/ party	Dumping
Level	Black cherry	<5' & 5-30'				
Dry	Weeping willow	>30' & 5-30'	Yes			
	Mugwort	<5'	Yes			

Comments:

Closed forest of black locust adjacent to meadow. A good amount of Ailanthus and sycamore maple present. Also, three big weeping willows in unit. Mugwort dominates the ground cover. More sunlight filters through this unit than adjacent unit 114. Vagabonds living in unit and maintaining a very small garden. Other spp: Phragmites, horsetail, Queen Anne's lace, clover, goldenrod, bindweed, English plantain, garlic mustard, great ragweed, Rubus, wild violet, wild grape, pin oak, black oak, rose, jewelweed, etc.

Unit: 116
Acreage: 0.47
Mgmt. Concern: No

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Herbaceous	Cool season grass	<5'			Foot traffic	Compaction
	Clover	<5'			Horses	Trash
Hemicryptophytes					Vehicle access	
Level						
Dry						

Comments:

Unit marks the beginning of the Park's nature trail. Area has been scraped and chipped. Some exotic pines were planted for aesthetic purposes; however, they are either dead or dying.

Kissena Park Entitation Unit Descriptions, Surveyed November 1986

Unit: 117
Acreage: 2.89
Mgmt. Concern: Yes

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Herbaceous	Mugwort	<5'		Landfill	Foot traffic	
	Clover	<5'				
Hemicryptophytes	Phragmites	<5'				
Undulating						

Comments:

Highly disturbed unit on top of scraped and wood-chipped area probably resulting from nature trail construction. A few small trees scattered throughout, such as black locust, Ailanthus, black cherry. Other spp: milkweed, mulberry seedlings, curly dock, planted wildflowers, evening primrose, plantain, CSG, and planted trees (red maple, ash, Norway maple all dying).

Unit: 118
Acreage: 0.20
Mgmt. Concern: No

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Closed Forest	Pin oak	All		Landfill	Foot traffic	Compaction
Deciduous	Black cherry	All				
Phanerophytes						
Slope						
Dry						

Comments:

Black cherry/pin oak closed forest with little ground cover. A great deal of cherry regeneration and scattered herbaceous species such as mugwort, CSG, goldenrod, deadly nightshade, etc.

Kissena Park Entitation Unit Descriptions, Surveyed November 1986

Unit: 119
Acreage: 0.16
Mgmt. Concern: No

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Closed Forest	Black locust	All	Yes	Landfill	Foot traffic	Trash
Deciduous	Black cherry	<5' & 5-30'				
Phanerophytes	Mugwort	<5'	Yes			
Slope	Pin oak	<5' & 5-30'				
Dry						

Comments:

Black locust forest with black cherry in understory. Ground cover is fairly sparse mostly black cherry seedlings. Other species include pokeweed, goldenrod, great ragweed, Norway maple, deadly nightshade, and CSG.

Unit: 120
Acreage: 0.39
Mgmt. Concern: No

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Closed Forest	Black willow	>30'			Foot traffic	Compaction
Deciduous	Black cherry	All				Dumping
Phanerophytes	Pin oak	>30' & 5-30'				
Slope	Mugwort	<5'	Yes			
Moist						

Comments:

Forested strip between landscaped section of park and landfill area. Apparently, this strip of woods ran parallel to the old railroad. Nice, healthy, native, fairly undisturbed woods. Other species: box elder regeneration, white ash, mulberry, rose, aster, Japanese honeysuckle, bittersweet, black locust, and one very large cottonwood.

Kissena Park Entitation Unit Descriptions, Surveyed November 1986

Unit: 121
Acreage: 0.84
Mgmt. Concern: Yes

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Herbaceous	Mugwort	<5'	Yes			
Hemicryptophytes						
Slope						
Dry						

Comments:
 Other species: plantain, rose, porcelain berry, black cherry over 30', etc.

Unit: 122
Acreage: 0.10
Mgmt. Concern: No

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Herbaceous	Cool season grass	<5'			Foot traffic	
Hemicryptophytes						
Level						
Moist						

Comments:
 Small patch of cool season grasses sandwiched between a unit of mugwort and two strips of trees.

Kissena Park Entitation Unit Descriptions, Surveyed November 1986

Unit: 123
Acreage: 0.22
Mgmt. Concern: Yes

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Woodland	Weeping willow	>30'	Yes		Foot traffic	
Deciduous	Black cherry	>30'				
Phanerophytes	Pin oak	<5' & 5-30'				
Level	Green ash	<5' & >30'				
Moist	Jewelweed	<5'				
	Rubus	<5'				

Comments:

Unit of "moist site" tree species dividing units of mugwort and Phragmites. Trees appear to be young; site has a lot of potential. Ground cover is predominantly jewelweed and Rubus (dense). Other species are CSG, porcelain berry, mugwort, rose, goldenrod, deadly nightshade. One large black cherry blowdown.

Unit: 124
Acreage: 0.38
Mgmt. Concern: No

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Closed Forest	Black willow	>30'		Landfill	Foot traffic	Dumping
Deciduous	Weeping willow	>30'	Yes			
Phanerophytes	Black cherry	>30' & 5-30'				
Slope	White ash	5'-30'				
Moist						

Comments:

Thin strip of woods between landscaped park and "filled" park. Seems to run parallel to, or on, old Creedmore railroad bed. Dense herbaceous ground cover, black cherry in understory. MC: fairly undisturbed, native forest let's keep it that way. Other spp: mugwort, goldenrod, lady's thumb, jewelweed, deadly nightshade, arrowwood, rose.

Kissena Park Entitation Unit Descriptions, Surveyed November 1986

Unit: 125
Acreage: 2.67
Mgmt. Concern: Yes

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Herbaceous Geophytes Level Wet	Phragmites	<5' & 5-30'				

Comments:

Large area of Phragmites around Kissena lake drainage pipe. MC: don't want them to spread. Scattered trees throughout black locust and black willow. Mugwort along edges. Some areas with standing water. Probably Phragmites due to restricted flow from Kissena lake.

Unit: 126
Acreage: 0.53
Mgmt. Concern: Yes

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Closed Forest Deciduous Geophytes Level Surface water	Black willow Black tupelo Skunk cabbage Jewelweed	<5' & >30' All <5' <5'			Drain pipe Foot traffic	Trash

Comments:

Small, swamp like woods along Kissena lake drainage pipe. Very important to maintain. Probably reminiscent of the swamps/marshes that used to exist before the Moses era. Excellent wildlife site. Other spp., are red maple, mulberry, goldenrod, deadly nightshade, CSG, Phragmites, green ash, black cherry, wild violet, and arrow arum.

Kissena Park Entitation Unit Descriptions, Surveyed November 1986

Unit: 127
Acreage: 0.45
Mgmt. Concern: Yes

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Vineland	Porcelain berry	All	Yes		Foot traffic	Trash
Deciduous	Black willow	>30'				
Phanerophytes	Black locust	All	Yes			
Level	Catbrier	All				
Surface water						

Comments:

Very diverse unit being taken over by vines. Other species include: arrowwood, rose, mugwort, goldenrod, tulip tree, Rubus, green ash, black cherry, spicebush, red oak, wild grape, arrow arum, Asiatic dayflower, CSG, deadly nightshade, cinquefoil, jewelweed, etc.

Unit: 128
Acreage: 0.17
Mgmt. Concern: Yes

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Closed Forest	Green ash	>30' & 5-30'		Landfill	Foot traffic	Dumping
Deciduous	Black willow	>30'			Picnic	Trash
Phanerophytes	Black locust	<5'	Yes			
Slope	Black cherry	All				
Wet	Oak, pin	<5' & 5-30'				
	White ash	>30'				

Comments:

Wet site. Former stream. Other species are mugwort, Phragmites, poison ivy, goldenrod, CSG, mustard spp., Norway maple (>5'), etc. MC: nice wet site closed forest with little disturbance maintain it.

Kissena Park Entitation Unit Descriptions, Surveyed November 1986

Unit: 129
Acreage: 0.12
Mgmt. Concern: Yes

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Closed Forest	White ash	<5' & >30'		Landfill	Foot traffic	Dumping
Deciduous	Green ash	<5' & >30'				Trash
Hemicryptophytes	Black cherry	5'-30'				
Slope	Mugwort	<5'	Yes			
Wet	Cool season grass	<5'				
	Phragmites	<5' & 5-30'				

Comments:

Small wet woods at the bottom of old Creedmore railroad bed. MC: should be maintained. Very wet in spring. Other spp: black locust, Eastern cottonwood, bush honeysuckle, black willow, jewelweed, rose, goldenrod, CSG, etc.

Unit: 130
Acreage: 0.34
Mgmt. Concern: Yes

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Closed Forest	Green ash	All		Landfill	Foot traffic	Erosion
Deciduous	Black willow	>30'		RR bed		
Phanerophytes	Mugwort	<5'	Yes			
Slope						
Moist						

Comments:

Small forested strip along old Creedmore railroad bed. MC: nice, wet woods; consequently, little ground cover vegetation. Other species include skunk cabbage, Phragmites, jewelweed, black cherry, red maple, rose, black locust, etc. A great deal of ash regeneration.

Kissena Park Entitation Unit Descriptions, Surveyed November 1986

Unit: 131
Acreage: 0.62
Mgmt. Concern: No

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Woodland	Black cherry	5'-30'		Landfill	Foot traffic	Trash
Deciduous	American elm	5'-30'				
Geophytes	Pin oak	5'-30'				
Slope	Black willow	>30'				
Moist	Mulberry spp.	>30'				
	White ash	>30'				

Comments:

Very diverse, disturbed, scattered strip of trees along old Creedmore railroad bed. Adjacent to ballfields. Other spp: mugwort, CSG, deadly nightshade, rose, cinquefoil, dogbane, hawthorn, smooth sumac and porcelain berry.

Unit: 132
Acreage: 0.08
Mgmt. Concern: No

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Herbaceous	Mugwort	<5'	Yes	Landfill		
	Cool season grass	<5'				
Hemicryptophytes	Clover	<5'				
Level						
Dry						

Comments:

Small, landscaped garden at corner of Kissena Boulevard and Rose Avenue. Not maintained very well as indicated by above species. Some exotic shrubs planted along with two trees.

Kissena Park Entitation Unit Descriptions, Surveyed November 1986

Unit: 133
Acreage: 1.42
Mgmt. Concern: Yes

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Woodland	Willow spp.	All	Yes	Landfill	Foot traffic	Erosion
Deciduous	Phragmites	<5' & 5-30'		Culvert	Vehicle access	Compaction
Geophytes	Mugwort	<5' & 5-30'	Yes			Dumping
Level	Cool season grass	<5'				
Moist						

Comments:

Open woodland of willows (weeping and black) with Phragmites. Area apparently floods seasonally as is evidenced by the presence of a culvert. MC: Dumping in unit. Also, adjacent homeowners have caused erosion and soil compaction by parking cars park boundary. Nice variety of herbaceous species includes dandelion, mustard spp., great ragweed, path rush, aster, clover, bindweed, curly dock, chives, one mulberry and one silver maple.

Unit: 134
Acreage: 0.39
Mgmt. Concern: No

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Herbaceous	Cool season grass	<5'			Foot traffic	
Hemicryptophytes	English plantain	<5'	Yes		Vehicle access	
Level					Horses	
Dry						

Comments:

A buffer zone about 20' wide along the road that is mowed by the Parks Department. Other species are dandelion, clover, and mugwort.

Kissena Park Entitation Unit Descriptions, Surveyed November 1986

Unit: 135
Acreage: 0.59
Mgmt. Concern: No

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Herbaceous	Cool season grass	<5'				
	Phragmites	<5'	Yes			
Hemicryptophytes	Mugwort	<5'	Yes			
Level	Clover	<5'				
Dry	Dogbane	<5'				

Comments:

This unit is not mowed regularly. Other species include daisy, Queen Anne's lace, rose, curly dock, poison ivy, dandelion, Japanese honeysuckle, Virginia creeper, yarrow, goldenrod, daisy fleabane, and crabapple.

Unit: 136
Acreage: 0.27
Mgmt. Concern: Yes

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Closed Forest	Black locust	All	Yes	Landfill	Foot traffic	Trash
Deciduous	Eastern Cottonwood	<5' & >30'			Vehicle access	Leaf dump.
Hemicryptophytes	Pin oak	<5' & >30'				Dumping
Level	Mulberry spp.	5'-30'				
Dry	Crabapple	5'-30'				
	Mugwort	<5'	Yes			

Comments:

Small closed forest of black locust and E. cottonwood. There is more regeneration of black locust, however. One huge manmade hole in unit. Leaf dumping evident. Good variety of herbaceous species. Wild grape and rose growing on a couple of trees in unit, therefore a management concern. Mugwort in much of understory but also many other species such as CSG, great ragweed, goldenrod, Virginia creeper, black cherry, Ailanthus, clover, Queen Anne's lace, chives, deadly nightshade, poison ivy and bindweed.

Kissena Park Entitation Unit Descriptions, Surveyed November 1986

Unit: 137
Acreage: 0.32
Mgmt. Concern: No

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Herbaceous	Clover	<5'		Landfill	Residential	Compaction
	Cool season grass	<5'				
Hemicryptophytes	Mugwort	<5'	Yes			
Level	Common Plantain	<5'				
Moist	Phragmites	<5'				

Comments:

A unit in which Phragmites is coming in. Part of a residential plot is mowed, part appears to be left unmowed. A fence surrounds the unit.

Unit: 138
Acreage: 0.41
Mgmt. Concern: Yes

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Herbaceous	Mugwort	<5' & 5-30'	Yes	Landfill	Vehicle access	Dumping
	Clover	<5'			Foot traffic	Compaction
Hemicryptophytes						Trash
Undulating						
Dry						

Comments:

Unit adjacent to houses built on parkland. Heavy dumping, particularly of concrete and building materials throughout the area. A great deal of unit of soil compaction evident. Other species include goldenrod Phragmites, milkweed, curly dock, poor man's pepper, common plantain, Queen Anne's lace, CSG, evening primrose, birdsfoot trefoil, great ragweed, etc.

Kissena Park Entitation Unit Descriptions, Surveyed November 1986

Unit: 139
Acreage: 0.81
Mgmt. Concern: Yes

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Woodland	Black locust	5'-30'	Yes	Landfill	Foot traffic	Dumping
Deciduous	Eastern Cottonwood	>30' & 5-30'			Picnic	Trash
Hemicryptophytes	Mugwort	<5'	Yes		Campfire	Compaction
Undulating	Rose	<5' & 5-30'	Yes			
Dry	Black cherry	<5' & 5-30'				

Comments:

Highly disturbed, and therefore diverse, unit. A great deal of dumping (concrete and fill). Other species are smooth sumac, crabapple, mulberry, box elder, Japanese knotweed, Ailanthus, hawthorn, dogbane, Phragmites, Rubus, Japanese honeysuckle, clover, goldenrod, deadly nightshade, etc.

Unit: 140
Acreage: 2.34
Mgmt. Concern: Yes

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Herbaceous	Cool season grass	<5'		Landfill	Foot traffic	Dumping
	Goldenrod	<5'			Vehicle access	Trash
Hemicryptophytes	Mugwort	<5'	Yes			
Level	Phragmites	<5' & 5-30'				
Dry						

Comments:

Unit dominated by cool season grass growing in clumps possibly due to drainage patterns. MC: since it is one of the few areas in the corridor not dominated by mugwort. It has good potential. Trees scatter the unit, Eastern cottonwood, box elder, European mountain ash, smooth sumac, crabapple, and black cherry. Other species include rose, Japanese honeysuckle, yarrow, clover, birdsfoot trefoil, milkweed, common and English plantain, etc.

Kissena Park Entitation Unit Descriptions, Surveyed November 1986

Unit: 141
Acreage: 2.18
Mgmt. Concern: No

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Herbaceous	Cool season grass	<5'		Landfill	Foot traffic	Fire
Deciduous	Mugwort	<5'	Yes			Trash
Hemicryptophytes	Phragmites	5'-30'				
Level	Eastern Cottonwood	5'-30'				
Dry	Black locust	5'-30'	Yes			
	Crabapple	5-30'				

Comments:

Scattered trees at lower end of mixed field. Fire scars on dead trees. Scattered clumps of Phragmites. Unit bordered on north by hurricane fence. Some London planetree at walkway towards playing field.

Unit: 142
Acreage: 0.08
Mgmt. Concern: No

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Herbaceous	Phragmites	<5'		Landfill		Fire
	Black locust	<5' & 5-30'	Yes			Dumping
Geophytes	Mugwort	<5'	Yes			
Undulating	Dogbane	<5'				
Dry	Goldenrod	<5'				

Comments:

Small depression with some cool season grass growing in it. Also some clover present. Surface fire burned back Phragmites.

Kissena Park Entitation Unit Descriptions, Surveyed November 1986

Unit: 143
Acreage: 0.06
Mgmt. Concern: Yes

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Herbaceous	Phragmites	<5' & 5-30'		Landfill		Trash
Deciduous	Mugwort	<5'	Yes			
Geophytes	Milkweed	<5'				
Undulating	Cool season grass	<5'				
Moist	Eastern Cottonwood	5'-30'				
	Box Elder	5-30'				

Comments:

A unit of Phragmites and mugwort with scattered trees. No evidence of recent burning. Some smooth sumac coming in and some Lombardy poplar in unit. MC: because trees provide variety in this area and should be encouraged to grow. Phragmites will probably remain dominant, however.

Unit: 144
Acreage: 28.82
Mgmt. Concern: Yes

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Herbaceous	Mugwort	<5' & 5-30'	Yes	Landfill	Foot traffic	Fire
	Clover	<5'			Vehicle access	Dumping
Hemicryptophytes	Goldenrod	<5'				
Level	Cool season grass	<5'				
Dry						

Comments:

Large field of mugwort which stretches throughout Kissena corridor. Other species mentioned above are intermixed or occur in patches, but are not as abundant. Fires occur regularly; dumping in much of area. Some scattered trees are present, such as Eastern cottonwood, black locust, Ailanthus, and smooth sumac. MC: not only because of dumping but also because it is a wasteland.

Kissena Park Entitation Unit Descriptions, Surveyed November 1986

Unit: 145
Acreage: 0.05
Mgmt. Concern: Yes

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Scrub	Smooth sumac	<5'		Landfill		Fire
Deciduous	Mugwort	<5'	Yes			
Chamaephytes						
Slope						
Dry						

Comments:

A small stand of smooth sumac just before the public gardens. There are fire scars on the dead remaining sumac stalks. There are some Phragmites present among the sumac. MC: because the sumac adds diversity to an area where it is lacking.

Unit: 146
Acreage: 0.70
Mgmt. Concern: No

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Woodland	Black locust	All	Yes	Landfill	Foot traffic	Fire
Deciduous	Mugwort	<5' & 5-30'	Yes		Vehicle access	Trash
Hemicryptophytes						Dumping
Undulating						
Dry						

Comments:

Unit of black locust in Kissena corridor mugwort field. There are multiple units; smallest one contains some lamb's-quarters. One unit is near community gardens. Other species are two Eastern cottonwoods in unit near path's edge, and common plantain, cool season grass, and clover species.

Kissena Park Entitation Unit Descriptions, Surveyed November 1986

Unit: 147
Acreage: 0.04
Mgmt. Concern: No

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Closed Forest	Black cherry	>30' & 5-30'		Landfill	Foot traffic	Trash
Deciduous	Mugwort	<5'	Yes		Vehicle access	Dumping
Hemicryptophytes	Black locust	<5' & >30'	Yes			
Level						
Dry						

Comments:

Small unit of black cherry with a small amount of black locust regeneration. Area adjacent to backyards of houses on 56th Street. Black cherry trees run along fence; one single black locust over 30'. Other spp: great ragweed, clover, deadly nightshade, pokeweed, shepherd's purse, common plantain, smartweed, CSG, lamb's-quarters, mulberry, and carrion flower.

Unit: 148
Acreage: 0.81
Mgmt. Concern: No

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Woodland	Black locust	>30' & 5-30'	Yes	Landfill	Yards	Fire
Deciduous	Eastern Cottonwood	>30' & 5-30'			Foot traffic	
Hemicryptophytes	Silver maple	5'-30'			Picnic	
Level	Cool season grass	<5'				
Dry	Mugwort	<5'	Yes			

Comments:

Maintained yards on park property which act as a fire break in Kissena corridor. Various ornamentals planted, some vegetables. Also, some yards used for recreational purposes, such as picnicking, etc. Area is maintained through an understanding with the Parks Dept.

Kissena Park Entitation Unit Descriptions, Surveyed November 1986

Unit: 149
Acreage: 0.17
Mgmt. Concern: No

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Closed Forest	Black locust	<5' & 5-30'	Yes	Landfill	Foot traffic	Dumping
Deciduous	Ailanthus	<5' & 5-30'	Yes		Vehicle access	
Phanerophytes	Mugwort	<5' & 5-30'	Yes			
Undulating						
Dry						

Comments:

Closed forest of black locust with Ailanthus regeneration. Mugwort dominates the ground cover. Other species are clover and goldenrod.

Unit: 150
Acreage: 0.04
Mgmt. Concern: No

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Closed Forest	Box Elder	<5' & 5-30'		Landfill	Foot traffic	Dumping
Deciduous	Ailanthus	<5' & 5-30'	Yes	Sewer line		
Hemicryptophytes	Mugwort	<5'	Yes			
Undulating						
Moist						

Comments:

Small unit of box elder and Ailanthus in topographic depression. Should try to maintain and expand. Little patch of Japanese Knotweed adjacent to footpath.

Kissena Park Entitation Unit Descriptions, Surveyed November 1986

Unit: 151
Acreage: 0.03
Mgmt. Concern: Yes

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Closed Forest	Black locust	<5' & 5-30'	Yes	Landfill	Foot traffic	Trash
Deciduous	Smooth sumac	<5' & 5-30'				
Hemicryptophytes	Mugwort	<5' & 5-30'	Yes			
Undulating	Mulberry spp.	<5'				
Dry						

Comments:

Small forest of locust with sumac and mulberry in understory. MC: anything that may out compete the mugwort and/or add diversity should be maintained. Other spp: Ailanthus, CSG, lamb's-quarters, etc. Unit adjacent to community gardens.

Unit: 152
Acreage: 5.87
Mgmt. Concern: Yes

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Herbaceous	Vegetables	<5'	Yes	Landfill	Garden	
	Mugwort	<5'	Yes	Hedgerow	Foot traffic	
Therophytes						
Level						
Moist						

Comments:

Community gardens in Kissena corridor. Mugwort borders some farmed lots. MC: because of encroachment.

Kissena Park Entitation Unit Descriptions, Surveyed November 1986

Unit: 153
Acreage: 0.17
Mgmt. Concern: No

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Herbaceous	Phragmites	5'-30'		Landfill		
Geophytes	Mugwort	<5'	Yes			
Slope						

Comments:

Unit of Phragmites and mugwort lacking other herbaceous species No evidence of recent burning.

Unit: 154
Acreage: 2.12
Mgmt. Concern: No

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Herbaceous	Clover	<5'			Foot traffic	Compaction
	Cool season grass	<5'			Dirt bikes	Dumping
Hemipterophytes	Mugwort	<5'	Yes		Horses	Trash
Level						
Dry						

Comments:

A larger fields than unit 159 composed primarily of clover and cool season grasses with patches of mugwort. There is a path bisecting the grassy field. Other spp: common plantain, English Plantain, great ragweed, scattered Phragmites, Eastern cottonwood and Queen Anne's lace.

Kissena Park Entitation Unit Descriptions, Surveyed November 1986

Unit: 155
Acreage: 0.18
Mgmt. Concern: No

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Herbaceous	Cool season grass	<5'			Foot traffic Vehicle access	Trash
Hemicryptophytes Level Dry						

Comments:

Unit 155 is a managed lawn; a buffer between the road and playground. Other species are English plantain, mugwort, and dandelion.

Unit: 156
Acreage: 1.33
Mgmt. Concern: No

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Herbaceous	Cool season grass	<5'		Landfill	Foot traffic	
Hemicryptophytes Undulating Dry						

Comments:

Grasses surrounding recreational facilities off of Colden Street. Probably maintained more expensively in the past. Looks like mugwort may be taking over. Other spp: dandelion, lettuce spp., evening primrose, clover.

Kissena Park Entitation Unit Descriptions, Surveyed November 1986

Unit: 157
Acreage: 0.02
Mgmt. Concern: No

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Herbaceous	Phragmites	5'-30'		Landfill		Trash
Deciduous	Mugwort	<5'	Yes			
Geophytes	Eastern cottonwood	>30'				
Undulating						

Comments:

Phragmites surrounded by cool season grasses. Has not burned in the past year. Other species include clover, English plantain, Queen Anne's lace, curly dock, chives and goldenrod.

Unit: 158
Acreage: 0.93
Mgmt. Concern: No

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Herbaceous	Cool season grass	<5'		Landfill	Foot traffic	Compaction
Hemicryptophytes	Warm season grass	<5'			Vehicle access	
Undulating					Sports	
Dry						

Comments:

Approximately half cool, half warm season grasses. Also, curly dock, English plantain, mugwort, Queen Anne's lace, day lily, and clover. Site can be wet at times.

Kissena Park Entitation Unit Descriptions, Surveyed November 1986

Unit: 159
Acreage: 0.02
Mgmt. Concern: Yes

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Herbaceous	Japanese knotweed	<5' & 5-30'	Yes	Landfill		Trash
Geophytes Level Dry						

Comments:

Knotweed dominates the unit and shades out surrounding mugwort on the perimeter. MC: Knotweed is a problem.

Unit: 160
Acreage: 0.05
Mgmt. Concern: No

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Herbaceous	Dogbane	<5'	Yes	Landfill	Foot traffic	Compaction
	Mugwort	<5'	Yes			
Geophytes	Ailanthus	>30' & 5-30'				
Slope	Smooth sumac	<5'				
Dry						

Comments:

Community structure is changing due to the Ailanthus regeneration. Other species: dogbane, Phragmites, and milkweed.

Kissena Park Entitation Unit Descriptions, Surveyed November 1986

Unit: 161
Acreage: 1.87
Mgmt. Concern: No

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Herbaceous	Cool season grass	<5'			Dog walking	
	Clover	<5'				
Hemicryptophytes	Plantain spp.	<5'				
Level	Dandelion	<5'				
Dry						

Comments:

Managed lawn between wooded area just outside Kissena golf course and Underhill Avenue. Used for dog walking. Also, wildlife count unusually high due to birdfeeding. Other species include mugwort, pointed blue-eyed grass, and chicory.

Unit: 162
Acreage: 0.50
Mgmt. Concern: No

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Closed Forest	Pin oak	>30' & 5-30'			Foot traffic	Trash
Deciduous	Eastern Cottonwood	>30' & 5-30'			Horses	
Hemicryptophytes	American elm	5'-30'			Dirt bikes	
Level	Mugwort	<5'	Yes			
Dry						

Comments:

Unit extends along fence of golf course. Other species include common plantain, great ragweed, red maple, CSG, curly dock, silver maple, black cherry, poison ivy, and Rubus.

Kissena Park Entitation Unit Descriptions, Surveyed November 1986

Unit: 163
Acreage: 0.83
Mgmt. Concern: Yes

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Woodland	Eastern Cottonwood	All			Foot traffic	Leaf dump.
Deciduous	Rose	<5' & 5-30'	Yes		Horses	Dumping
Chamaephytes	Phragmites	<5' & 5-30'			Vehicle access	Trash
Level	Smooth sumac	<5' & 5-30'				
Dry	Red maple	<5' & 5-30'				
	Oak, pin	<5' & 5-30'				

Comments:

Open woodland of cottonwood with a large open area of Phragmites and sumac. Some cottonwood is dying. Large depression in unit; dirt road through area. MC: because good wildlife site. Other species include American elm, black locust, deadly nightshade, goldenrod, mugwort, cool season grasses, Rubus, common plantain, and great ragweed.

Unit: 164
Acreage: 0.75
Mgmt. Concern: No

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Closed Forest	Black locust	All	Yes	Landfill	Foot traffic	Dumping
Deciduous	American elm	>30' & 5-30'		Sewer	Dirt bikes	Trash
Chamaephytes	Crabapple	5'-30'				Auto
Slope	Black cherry	5'-30'				
Dry	Rose	<5' & 5-30'	Yes			

Comments:

Moist in some spots with horsetails, jewelweed. Other species: mugwort, periwinkle, Phragmites, CSG, London planetree, and pin oaks. Black locust invading from unit 161.

Kissena Park Entitation Unit Descriptions, Surveyed November 1986

Unit: 165
Acreage: 0.74
Mgmt. Concern: Yes

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Herbaceous	Phragmites	<5' & 5-30'			Vehicle access	Dumping
	Mugwort	<5'	Yes		Foot traffic	Trash
Geophytes	Rose	<5' & 5-30'	Yes			Leaf dump.
Undulating	Crabapple	<5' & 5-30'				
Dry	Weeping willow	<5' & >30'	Yes			
	E. Cottonwood	All				

Comments:

Area is heavily trashed with everything from tires to tree limbs. Evidence of dumping due to undulating topography of the unit. Parts of the unit were used as access ways to dump cars and other items, but have now been blocked off. MC: due to dumping.

Other species: goldenrod, curly dock, CSG, lesser fleabane, cattails, clover, great ragweed, common plantain, dandelion, black cherry, cinquefoil, path rush, American elm, and Japanese knotweed.

Unit: 166
Acreage: 0.03
Mgmt. Concern: No

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Closed Forest	Black locust	<5' & 5-30'	Yes	Landfill		Last dump
Deciduous	Mugwort	<5'	Yes			
Geophytes	Cool season grass	<5'				
Slope						
Moist						

Comments:

Other species: chives, clover, mint spp.; black locust is regenerating very well.

Kissena Park Entitation Unit Descriptions, Surveyed November 1986

Unit: 167
Acreage: 0.14
Mgmt. Concern: No

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Herbaceous	Phragmites	<5' & 5-30'			Vehicle access	Dumping
	Mugwort	<5'	Yes			
Geophytes	Goldenrod	<5'				
Undulating	American elm	<5'				
Dry	Rubus	<5'				

Comments:

Small herbaceous unit dominated by Phragmites, mugwort, and goldenrod. Recent fire destroyed elm, Rubus, one crab apple, and possible other tree species. Trees scattered in area. Area separates unit 169. Other species include dogbane, great ragweed, shepherd's purse, and chives.

Unit: 168
Acreage: 0.46
Mgmt. Concern: No

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Herbaceous	Phragmites	<5' & 5-30'			Foot traffic	Dumping
	Mugwort	<5'	Yes		Horses	Trash
Geophytes					Vehicle access	
Level						
Dry						

Comments:

Strip of predominantly Phragmites with mugwort bordering path. Very tall in most spots. Some Eastern cottonwood regeneration. Other herbaceous species include garlic mustard, rose, common plantain, curly dock, clover, cool season grass, goldenrod, lesser fleabane, path rush, and everlasting pea.

Kissena Park Entitation Unit Descriptions, Surveyed November 1986

Unit: 169
Acreage: 0.07
Mgmt. Concern: Yes

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Closed Forest	American elm	>30' & 5-30'			Foot traffic	Trash
Deciduous	Eastern Cottonwood	All				
Hemicryptophytes	Garlic mustard	<5'				
Level	Mugwort	<5'	Yes			
Moist						

Comments:

Small stand of elms and poplars. Looks like poplars will eventually dominate. Area is in a slight depression. MC: maintain and encourage growth. Other species: fuzzy avens, horsetail, nettle, rose, black snakeroot, goldenrod, black cherry, crab apple, CSG, and curly dock.

Unit: 170
Acreage: 0.14
Mgmt. Concern: No

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Herbaceous	Phragmites	<5' & 5-30'			Foot traffic	
	Mugwort	<5' & 5-30'	Yes			
Geophytes	Weeping willow	>30'	Yes			
Level						
Moist						

Comments:

Unit is dominated by very tall Phragmites, about 12' tall. Mugwort is dispersed throughout and is also fairly tall. Other species: wisteria and two willow trees in unit.

Kissena Park Entitation Unit Descriptions, Surveyed November 1986

Unit: 171
Acreage: 0.96
Mgmt. Concern: No

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Herbaceous	Mugwort	<5'	Yes		Foot traffic	Dumping
	Rose	<5' & 5-30'	Yes		Vehicle access	
Hemicryptophytes	Black cherry	<5' & 5-30'			Horses	
Level	Phragmites	<5'				
Dry						

Comments:

Herbaceous unit with scattered clumps of rose and scattered black cherry trees. Road bisects unit. Mugwort dominates ground cover. Other species are yarrow, clover, Queen Anne's lace, cinquefoil, CSG, poor man's pepper, curly dock, and goldenrod.

Unit: 172
Acreage: 0.32
Mgmt. Concern: No

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Herbaceous	Mugwort	<5'	Yes		Foot traffic	Auto
	Cool season grass	<5'			Horses	Dumping
Hemicryptophytes					Vehicle access	
Level						
Dry						

Comments:

Small unit of cool season grass and mugwort with a huge ditch running parallel to fence. One black cherry, one American elm, and some rose growing near and on fence. Great ragweed, jewelweed, fern, and goldenrod growing in ditch. Clover is also present.

Kissena Park Entitation Unit Descriptions, Surveyed November 1986

Unit: 173
Acreage: 0.11
Mgmt. Concern: No

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Closed Forest	Black locust	<5' & 5-30'	Yes			
Deciduous	Weeping willow	>30'	Yes			
Hemicryptophytes	Red maple	>30'				
Level	Rose	<5' & 5-30'	Yes			
Dry						

Comments:

Three small isolated islands of trees amongst the field of unit 171. Other species: great ragweed, mugwort, CSG, pin oak, Eastern cottonwood, clover, goldenrod, and curly dock.

Unit: 174
Acreage: 0.02
Mgmt. Concern: No

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Closed Forest	Black cherry	All			Foot traffic	
Deciduous	American elm	<5' & 5-30'				
Hemicryptophytes	Mugwort	<5'	Yes			
Level	Rose	<5' & 5-30'	Yes			
Dry	Phragmites	<5' & 5-30'				

Comments:

Very small stand of black cherry against golf course fence. Few trees, very little regeneration. Community structure will probably change to scrub in the future. One black cherry is becoming engulfed by rose; one elm that's dying. Other species: pokeweed, goldenrod, Rubus, deadly nightshade, great ragweed, poison ivy, red maple, and an ash sapling.

Kissena Park Entitation Unit Descriptions, Surveyed November 1986

Unit: 175
Acreage: 1.06
Mgmt. Concern: No

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Closed Forest	Red maple	All			Foot traffic	Dumping
Deciduous	White ash	All			Vehicle access	Auto
Phanerophytes	Black cherry	All				Fire
Slope	Black tupelo	>30'				
Moist	Crabapple	>30' & 5-30'				
	Rose	<5' & 5-30'	Yes			

Comments:

Closed forest with wet indicator species just outside golf course fence. One large depression in unit with trillium spp., ferns, and skunk cabbage. Understory is thick with tree regeneration and shrubby species in many parts. Also, another spot where canopy opens up; a fallen red maple is there. Other species: spicebush, burdock, arrowwood, Rubus, lady's - thumb, common plantain, poison ivy, catbrier, goldenrod, CSG, wood sorrel, witch hazel, clover, and mugwort.

Unit: 176
Acreage: 0.67
Mgmt. Concern: Yes

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Scrub	Rose	<5' & 5-30'	Yes		Foot traffic	Dumping
Deciduous	Crabapple	<5' & 5-30'				
Chamaephytes	Black cherry	<5' & 5-30'				
Level	Green ash	<5' & 5-30'				
Dry	Rubus	<5'				
	Cool season grass	<5'				

Comments:

This is one of the nicest areas in Kissena park and the corridor as well. It's a haven for birds and a great place to identify and enjoy wildflowers. The area is scrubby with small trees intermixed in this lively meadow. Area also has numerous large ant hills. Other species: Anne's lace, hawkweed, yarrow, daisy fleabane, clover, American elm, mugwort, English plantain, goldenrod, dogbane, Phragmites, cinquefoil, milkweed, chives, pin oak, hawthorn, yellow goatsbeard, and Asiatic dayflower.

Kissena Park Entitation Unit Descriptions, Surveyed November 1986

Unit: 177
Acreage: 0.45
Mgmt. Concern: No

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Closed Forest	Black cherry	All			Foot traffic	Dumping
Deciduous	American elm	<5' & 5-30'			Vehicle access	Trash
Phanerophytes	White ash	>30' & 5-30'				
Slope	Rose	All	Yes			
Dry						

Comments:

Small closed forest of black cherry with a lot of cherry regeneration. A good amount of American elm regenerating also. Quite a bit of rose in the understory, but phanerophytes still the dominant under 15'. One big mulberry tree in unit plus gray birch, crab apple, red maple, hawthorn, pin oak, wood sorrel, goldenrod, Virginia creeper, common plantain, cool season grass, pokeweed, mugwort, aster, poison ivy, deadly nightshade, arrowwood, aster, lady's - thumb, etc.

Unit: 178
Acreage: 2.40
Mgmt. Concern: No

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Herbaceous	Mugwort	<5'	Yes		Foot traffic	Dumping
	Clover	<5'			Dirt bikes	Trash
Hemicryptophytes	Cool season grass	<5'			Horses	
Level	Goldenrod	<5'				
Dry						

Comments:

This unit is the corridor between the EPA facility and the golf course. There is a dirt pathway used by joggers, dirtbikers, and horseback riders. There are two patches of cattails in the unit and trees along the fence; specifically, mulberry, green ash, black cherry, and Ailanthus. Other species: common plantain, cattails, dandelion, curly dock, Queen Anne's lace, dogbane, white ash regeneration, black cherry regeneration, Phragmites, and everlasting pea.

Kissena Park Entitation Unit Descriptions, Surveyed November 1986

Unit: 179
Acreage: 0.09
Mgmt. Concern: No

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Closed Forest	Black locust	All	Yes			Dumping
Deciduous	Green ash	<5' & 5-30'				
Phanerophytes	Black cherry	<5' & 5-30'				
Slope	Ailanthus	<5' & 5-30'	Yes			
Dry						

Comments:

Unit follows along the fence that borders the NYC EPA parking lot. Evidence of dumping with plenty of poison ivy growing. Other species: mulberry, mugwort.

Unit: 180
Acreage: 0.51
Mgmt. Concern: No

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Closed Forest	Green ash	All			Foot traffic	Compaction
Deciduous	White ash	All				Erosion
Phanerophytes	Black cherry	All				Dumping
Slope	Rose	<5' & 5-30'	Yes			
Dry						

Comments:

This unit borders the golf course along the fence and provides a buffer zone for the course. Unit has a steep gradient. Other species include mugwort, American elm, goldenrod, mulberry, poison ivy, Rubus, some oak trees and oak regeneration, and deadly nightshade.

Kissena Park Entitation Unit Descriptions, Surveyed November 1986

Unit: 181
Acreage: 0.96
Mgmt. Concern: No

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Desert	Black oak	5'-30'			Vehicle access	Trash
	Norway maple	>30'	Yes		Foot traffic	
Hemipterophytes	Cool season grass	<5'				
Level						
Dry						

Comments:

Parking lot of Kissena golf course. Small strip of cool season grasses with one large Norway Maple and some newly planted oaks. Other herbaceous species are shepherd's purse, white clover, common and English plantain, dandelion, aster, and mugwort.

Unit: 182
Acreage: 0.80
Mgmt. Concern: No

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Desert					Foot traffic	Compaction
					Golf bldngs	
Level						
Dry						

Comments:

Kissena park golf club house and maintenance area. There is also a snack bar. Ornamentals surround the buildings, including all sorts of flowers, shrubs, and trees; lianas, hemlock, Norway maple, CSG, American sycamore, pokeweed, great ragweed, mulberry, Rubus, and wood sorrel.

Kissena Park Entitation Unit Descriptions, Surveyed November 1986

Unit: 183
Acreage: 3.81
Mgmt. Concern: No

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Woodland	Pin oak	>30'			Sports	
Deciduous	Norway maple	>30'	Yes		Golf carts	
Hemicryptophytes	Sweetgum	>30'			Foot traffic	
Undulating	Tulip tree	>30'				
Dry	Flowering dogwood	5'-30'				
	Hawthorn	5-30'	Yes			

Comments:

Strips of woodland between fairways on Kissena golf course. Species dominate varies in each area. Variety of trees include black cherry, sweet cherry, black oak, bitternut hickory, crab apple, white ash, witch hazel, and American hornbeam. Ground cover is predominantly cool season grasses. There is also some common plantain, English plantain, dandelion, deadly nightshade, one Scotch pine, three red maples, white oak, white ash, American elm, one dead sweetgum, and one dead Norway Maple.

Unit: 184
Acreage: 51.40
Mgmt. Concern: No

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Herbaceous	Cool season grass	<5'			Sports	
Hemicryptophytes					Golf carts	
Undulating					Foot traffic	
Dry						

Comments:

Unit 184 is the fairways of Kissena park golf course. Thus, it is well maintained throughout the entire year, especially the warmer months. Mowing occurs on a regular basis. Other species are dandelion, clover, common plantain, English plantain, etc.

Kissena Park Entitation Unit Descriptions, Surveyed November 1986

Unit: 185
Acreage: 0.38
Mgmt. Concern: No

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Closed Forest	White pine	>30' & 5-30'			Foot traffic	
Mixed	Scotch pine	>30' & 5-30'	Yes		Golf carts	
Hemicryptophytes	White ash	All				
Slope	Hawthorn	5'-30'	Yes			
Dry	Black cherry	<5' & 5-30'				

Comments:

Unit is adjacent to the parking lot, but separated by a wire fence. Other species include mulberry, pokeweed, deadly nightshade, Japanese honeysuckle, rose, American elm sapling, Ailanthus, mugwort, CSG, avens, Norway maple, burdock, and oak saplings.

Unit: 186
Acreage: 0.30
Mgmt. Concern: No

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Closed Forest	White pine	>30'		Foundation	Sports	Erosion
Mixed	Black cherry	<5' & 5-30'		Sewer	Foot traffic	
Phanerophytes	White ash	All			Golf carts	
Slope	Crabapple	<5' & 5-30'				
Dry	Tulip tree	<5' & >30'				
	London planetree	>30'	Yes			

Comments:

Unit of large scattered white pine with a thick understory of black cherry, white ash, and apple species. Area along the fence on edge of the golf course at Booth Memorial Avenue. Thick undergrowth includes flowering dogwood, Virginia creeper, poison ivy, goldenrod, mugwort, rose, deadly nightshade, great ragweed, sycamore maple <5', American elm, arrowwood, aster, Japanese honeysuckle, milkweed, CSG, and mulberry which is doing extremely well under the pine trees.

Kissena Park Entitation Unit Descriptions, Surveyed November 1986

Unit: 187
Acreage: 0.15
Mgmt. Concern: Yes

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Closed Forest	Black locust	>30' & 5-30'	Yes			
Deciduous	Sycamore maple	<5' & 5-30'	Yes			
Phanerophytes	Black cherry	<5' & 5-30'				
Slope	American elm	<5' & 5-30'				
Dry	Mugwort	<5'	Yes			
	Japanese knotweed	<5' & 5-30'				

Comments:

Closed forest of black locust with much regeneration of American elm, black cherry, and sycamore maple. No locust regeneration except a few seedlings in the adjacent fairway. Unit is located at the corner of 164th Street and Booth Memorial. One large clump of Japanese knotweed toward corner of area. Great variety of herbaceous cover which includes cinquefoil, English plantain, Asiatic dayflower, deadly nightshade, Virginia creeper, Japanese barberry, dandelion, Rubus, chives, burdock, wild violet, mulberry, mustard spp., and one oak seedling.

Unit: 188
Acreage: 0.05
Mgmt. Concern: No

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Woodland	Tulip tree	>30'			Sports	Compaction
Deciduous	Red maple	>30'			Foot traffic	Erosion
Chamaephytes	Witch hazel	5'-30'				
Slope	American elm	5'-30'				
Dry	Rose	<5' & 5-30'	Yes			
	Honeysuckle sp.	5-30'				

Comments:

Unit has a couple of large trees with a lot of understory comprised of rose, honeysuckle, Japanese barberry, and witch hazel. It seems to be trimmed back during the season. Other species: mugwort, Virginia Creeper, English plantain, CSG, bindweed, sycamore maple, goldenrod, wild grape, and Rubus.

Kissena Park Entitation Unit Descriptions, Surveyed November 1986

Unit: 189
Acreage: 0.20
Mgmt. Concern: No

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Herbaceous	Japanese knotweed	<5' & 5-30'	Yes	Pipes		Trash
	Mugwort	<5'	Yes			Dumping
Geophytes	Dogbane	<5'				
Slope	Goldenrod	<5'				
Dry						

Comments:

This unit is the embankment along the road and there seems to be cutting of the mugwort periodically. The cuttings are left there. There is a hole with irrigation valves which are accessible to the golf crew. Other species are one black cherry, black locust, and patches of dogbane and goldenrod, and Asiatic dayflower.

Unit: 190
Acreage: 0.19
Mgmt. Concern: No

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Closed Forest	Black locust	>30' & 5-30'	Yes			
Deciduous	Mugwort	<5'	Yes			
Hemicryptophytes	Goldenrod	<5'				
Slope	Rubus	<5'				
Dry						

Comments:

Unit of black locust in Kissena golf course bordering 164th Street. Ground cover is predominantly mugwort, goldenrod, and Rubus. No black locust regeneration evident, but some black cherry here. Other species are bindweed, chives, rose, one oak sapling, Asiatic dayflower, wild violet, burdock, American elm, goldenrod, mulberry, Japanese barberry, mustard spp., deadly nightshade, dandelion, English plantain, goldenrod, and Virginia creeper.

Kissena Park Entitation Unit Descriptions, Surveyed November 1986

Unit: 191
Acreage: 1.52
Mgmt. Concern: Yes

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Closed Forest	Red maple	All		Culvert	Foot traffic	Leaf dump
Deciduous	White ash	All				
Therophytes	Black oak	All				
Level	Black cherry	<5' & 5-30'				
Dry	Jewelweed	<5'				

Comments:

This unit has wet indicator species such as: skunk cabbage, jewelweed, and red maple. This area receives runoff from 164th street via culverts from the road making this area seasonally or temporarily wet. MC: due to the wet site species. Other species: jewelweed, poison ivy, rose, burdock, lesser celandine, aster, ladies - thumb, mulberry, elderberry, CSG, chives, goldenrod, bittersweet, crab apple, mugwort, American elm, and cinquefoil.

Unit: 192
Acreage: 0.40
Mgmt. Concern: Yes

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Closed Forest	Pin oak	>30'			Foot traffic	Leaf dump
Deciduous	Red maple	>30'				
Phanerophytes	Sassafras	<5' & 5-30'				
	White ash	<5' & >30'				

Comments:

Closed forest on Kissena golf course near 164th Street dominated by pin oak. Unit is much drier than adjacent unit 191. Quite a bit of Sassafras and black cherry regeneration. Black oak is evident on the northeastern end; a single huge white oak also present here. Other species: ferns, catbrier, aster, CSG, sycamore maple, jewelweed, poison ivy, rose, chives, Viburnum, Rubus, arrowwood, carrion flower, and cinquefoil.

Kissena Park Entitation Unit Descriptions, Surveyed November 1986

Unit: 193
Acreage: 0.34
Mgmt. Concern: No

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Closed Forest	Pin oak	>30'			Sports	
Deciduous	Black oak	>30'			Foot traffic	
Hemicryptophytes	White oak	>30'			Golf carts	
Level	Swamp white oak	>30'				
Dry						

Comments:

Closed forest of oak species with mowed hemicryptophytic ground cover. Mostly pin and black oak in almost equal amounts. One huge swamp white oak. Also present are black cherry and black tupelo. Ground cover is primarily CSG. Unit is between two forested units of oak.

Unit: 194
Acreage: 2.71
Mgmt. Concern: Yes

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Closed Forest	Black locust	All			Foot traffic	Dumping
Deciduous	Pin oak	>30'			Vehicle access	Trash
Phanerophytes	Red maple	All				
Level	Black cherry	All				
Dry	White ash	All				
	Oak, white	>30'&5'				

Comments:

A large forested unit with greater diversity towards the edges of the golf course. There are leaves and branches dumped here. MC: it is a mature forest that provides shade and aesthetics for the golfers and food and cover for wildlife. There is a small opening where goldenrod and Rubus grows. Other species: catbrier, pokeweed, deadly nightshade, aster, lady's - thumb, burdock, chives, goldenrod, poison ivy, Rubus, wild grape, rose, CSG, mugwort, trout lily, Virginia creeper, cinquefoil, smartweed, jewelweed, mulberry, Sassafras, serviceberry, etc.

Kissena Park Entitation Unit Descriptions, Surveyed November 1986

Unit: 195
Acreage: 1.30
Mgmt. Concern: No

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Closed Forest	Black cherry	All			Foot traffic	Leaf dump
Deciduous	White ash	<5' & 5-30'				
Phanerophytes	Pin oak	<5' & >30'				
Slope	Aster	<5'				
Dry						

Comments:

Closed forest with an abundance of black cherry vs. a few oaks in Kissena golf course. Primarily large pin oak, some black oak regeneration occurred. Aster dominates the ground cover. Other species: great ragweed, deadly nightshade, goldenrod, mugwort, poison ivy, rose, CSG, Castor aralia, wild grape, Sassafras, Viburnum, rose, mulberry, bittersweet, spicebush, and true Solomon's seal. A lot of white ash regeneration. Leaf dumping occurs here, too.

Unit: 196
Acreage: 0.07
Mgmt. Concern: Yes

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Closed Forest	Black cherry	All			Foot traffic	
Deciduous	Witch hazel	5'-30'			Bathroom	
Phanerophytes	Rose	<5' & 5-30'	Yes			
Slope						
Dry						

Comments:

Small unit of large black cherry, witch hazel, and rose. A flowering dogwood present and one hawthorn with rose growing over it. Unit has a distinct smell of urine. Not much black cherry regeneration in middle of area; mostly along the border. Also some mugwort in unit. MC: rose overtaking unit and usage problem.

Kissena Park Entitation Unit Descriptions, Surveyed November 1986

Unit: 197
Acreage: 0.59
Mgmt. Concern: No

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Closed Forest	Black cherry	All			Foot traffic	Leaf dump
Deciduous	Pin oak	All				Trash
Phanerophytes	White ash	<5' & 5-30'				
Slope						
Dry						

Comments:

Unit of black cherry on slope of Kissena golf course. More white ash regeneration than black cherry or pin oak. A path has been made by vehicles that dump lawn clippings, branches, and leaves. Other species: witch hazel, hawthorn, sweetgum, apple, mulberry, gray birch, American elm, deadly nightshade, rose, cool season grass, chives, goldenrod, Japanese honeysuckle, wild grape, Virginia creeper, lamb's quarters, arrowwood, and mugwort.

Unit: 198
Acreage: 0.28
Mgmt. Concern: No

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Desert				Foundation	Sports Foot traffic	Compaction Scraping
Level						
Dry						

Comments:

Unit is the site of old maintenance building which has since burned down and its remains were removed. At time of entitation, area was scraped and desert-like. Possibly by the end of the summer, cool season grasses will dominate.

Kissena Park Entitation Unit Descriptions, Surveyed November 1986

Unit: 199
Acreage: 0.00
Mgmt. Concern: No

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Desert	Cool season grass	<5'			Maint. Building	
Hemicryptophytes						
Level						
Dry						

Comments:

There is a road from outside the golf course to the pump house building. The building is also used for supplies. Grass is growing between the paved roadway.

Unit: 200
Acreage: 1.74
Mgmt. Concern: No

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Closed Forest	Black cherry	All		Fence	Foot traffic	Leaf dump
Deciduous	White ash	All				
Phanerophytes	American elm	All				
Slope						
Dry						

Comments:

Sloping unit of black cherry and white ash adjacent to fence on Kissena golf course. A good amount of American elm present; other trees include mulberry, gray birch, sweetgum, tulip tree, quaking aspen, pin oak, black oak, and sycamore maple. Ground cover is primarily mugwort in area where canopy opens up. Rubus is growing in each end of the unit where leaves have been dumped. Other species: deadly nightshade, goldenrod, cool season grasses, wood sorrel, lady's- thumb, yew, poison ivy, pokeweed, lesser celandine, Virginia creeper, wild grape, etc.

Kissena Park Entitation Unit Descriptions, Surveyed November 1986

Unit: 201
Acreage: 0.11
Mgmt. Concern: No

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Closed Forest	Black cherry	All			Foot traffic	
Deciduous	White ash	>30' & 5-30'				
Phanerophytes	Norway maple	<5' & >30'	Yes			
Slope						
Dry						

Comments:

A small forest unit. It differs from unit 183 in that it has black cherry regeneration and there is no longer a managed lawn beneath the tree canopy. Other species: mugwort, mulberry, cool season grasses, goldenrod, apple, oak seedling, chives, American elm, Japanese honeysuckle, common milkweed.

Unit: 202
Acreage: 0.06
Mgmt. Concern: No

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Scrub	Forsythia	<5'	Yes		Foot traffic	Erosion
Deciduous	Apple	<5' & 5-30'				Compaction
Chamaephytes	Sweet cherry	<5' & 5-30'				Trash
	Pin oak	>30' & 5-30'				
Dry	Mugwort	<5'	Yes			
	Witch hazel	5-30'				

Comments:

A very steep sloping unit that was planted with forsythia and apple spp.. The mugwort may be getting cut back every now and again. Other species: rose, goldenrod, deadly nightshade, pokeweed, and cool season grasses.

Kissena Park Entitation Unit Descriptions, Surveyed November 1986

Unit: 203
Acreage: 0.19
Mgmt. Concern: No

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Closed Forest	White ash	All			Sports	
Deciduous	Pin oak	All			Golf carts	
Phanerophytes	Sycamore maple	<5' & 5-30'	Yes		Foot traffic	
Level	Tulip tree	>30'				
Dry	Silver maple	5'-30'				

Comments:

Unit consisting primarily of phanerophytes growing along the fence of Kissena golf course. Some large white ash and a pin oak are closer to the fairway; the area surrounding that is not mowed that often. One large tulip tree present. Other species: goldenrod, mugwort, deadly nightshade, common and English plantain, dandelion, cool season grasses, red maple, thistle, wood sorrel, and clover.

Unit: 204
Acreage: 0.43
Mgmt. Concern: No

<u>Site</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbances</u>
Closed Forest	White pine	>30'		Fence		Dumping
Mixed	Black cherry	<5' & 5-30'				Leaf dump
Phanerophytes	Scotch pine	>30' & 5-30'	Yes			
Slope	White ash	All				
Dry	Sycamore maple	<5' & 5-30'	Yes			
	Ailanthus	<5' & 5-30'	Yes			

Comments:

Unit is behind the work shed where all the maintenance equipment is kept. There is dumping of leaves, branches, and 3 dead Scotch pines. There are some patches of oak and elm regeneration and pockets of Ailanthus. Other species: poison ivy, Virginia creeper, American Elm, mulberry, Rubus, cool season grasses, goldenrod, English plantain, mugwort, deadly nightshade, smartweed, oak seedlings, dogbane, and Asiatic dayflower.

APPENDIX: Glossary

Many of these definitions are adapted from Marge Garguillo's unpublished *Plants of New York City Natural Areas: An ecological manual* (2005).

Chamaephyte: Mature branch or shoot system remaining perennially less than or equal to 100in above ground. Buds are produced on aerial branches close to the soil. (e.g. shrubs)

Closed forest: An area formed by trees at least 15 feet tall with interlocking crowns and at least 80% canopy closure.

Competition: The ability of one plant to overwhelm another plant by shading it out or otherwise overwhelming it.

Deciduous: Majority of trees shed their foliage in the autumn months.

Depression: A hollow, or low point, as compared to the surrounding topography. May or may not contain water.

Dominant: The most abundant plants in a particular plant community. A **codominant** plant is about equally as abundant as the dominant species.

Exotic: A species that does not naturally inhabit a specific area. An exotic plant may or may not be invasive where it is introduced.

Exotic planting: A gardened area where non-native species (e.g. privet, periwinkle) are tended.

Full-crown tree: Initially open-grown and free of competition: currently very large with a dominating crown.

Geophyte: Plants with buds or shoots surviving below the ground (rhizomes, bulbs, stem tubers, root tubers.)

Graminoid: Grasses and grass-like plants.

Hedgerow: Evidence of trees or shrubs planted in line i.e., maple or privet along road or path.

Hemicryptophyte: Shoots die back to ground level.

Herb: Plants without woody tissues that die back to the ground in the winter. This classification is usually applied to broad-leaved plants rather than grasses, but includes grasses for the purpose of entitation.

Herbaceous community: An area where grasses, grasslike plants, and herbaceous plants are predominant. Woody plants may be sparingly present, but cover less than 30% of area.

Intertidal Communities: Substrate is exposed and flooded by tides, includes the associated splash zone.

Invasive plant: A plant species that grows and reproduces without constraint, crowding or shading out other plants. The term is usually applied to plants that are not native to the given region. Invasiveness in a plant that is native to the region is rare and probably caused by unusual circumstances.

Knoll: A small isolated hillock.

Landfill: Topography altered by previous filling or dumping: i.e., while building a road or altering a wetland area. Look for rubble on the soil surface or sudden changes in grade.

Lianas: Vascular plants needing support, rooting in the ground permanently (vines).

Native plant: Plants that were growing in this region before Europeans came to North America. Native plants are adapted to the climate and soils of their region. They have relationships with birds, mammals, insects, and fungi and are integrated into the ecology of the region. New York City's native plants come from seed that spread northward after the last glaciers melted thousands of years ago.

Ornamental: Plants used as horticultural specimens in gardens or developed parks, not intended to reproduce or be part of a natural plant community. Very often they are non-native plants.

Phanerophyte: Plants that grow taller than 100 in. or whose shoots do not die back periodically to that height (e.g., trees).

Scrub: A shrubland or thicket, mainly composed of woody plants 1.5 to 15 feet tall.

Slope: Ground that forms a natural or artificial incline.

Soil compaction: Increasing soil density and decreasing porosity due to application of mechanical forces to the soil: i.e. due to vehicle, horse, or foot traffic.

Species: A group of organisms that can interbreed to produce fertile young.

Understory: Habitat below the tree canopy of a forest. The understory is a plant community of tree saplings, shrubs, herbs, graminoids, and mosses that can live in shade or part shade.

Undulating: The area has a wavy surface. Its neither a slope, a level area, or a depression, but rather a combination of all three.

Vineland: An area formed by at least 30% vines. Vines may be supported by vegetation, artificial means or ground surface. Often occurs on the forest or shrub border.

Woodland: An area formed by trees at least 15 feet tall, with most of their crowns not touching each other, but at least 30% canopy closure.