

Natural Area Mapping and Inventory of Udall's Cove 1987 Survey



Prepared by the Natural Resources Group
Michael R. Bloomberg, Mayor
Adrian Benepe, Commissioner

Udall's Cove Natural Area Mapping & Inventory

Surveyed October 1987

50 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 Udall's Cove was conducted in 1987 as part of NRG's commitment to improving the natural areas of New York City parks.

Udall's Cove and uplands extend from the Long Island Railroad to Little Neck Bay northward. Udall's Cove and Ravine, a 50 acre parcel located in Queens, is one of ten regional city parks slated for a detailed ecological assessment. The assessments include vegetation mapping. Wildlife habitation evaluation, a hydrogeological study, as well as observations of historical and present uses and existing environmental disturbances. Information collected from these assessments was used to formulate management recommendations.

Two freshwater streams drain into the Cove. One of these, Gabler's Creek, runs through the Wildlife Preserve. It flows north from Northern Boulevard (opposite St. Anastasia's Church) through "The Ravine," a deep wooded gully that lies between Little Neck and Douglaston. Gabler's Creek passes underneath the Long Island Railroad tracks just west of the Little Neck Station. It passes near Aurora Pond, then through a culvert underneath Sandhill Road (known locally as "the Back Road"), then out to the Cove through the salt marsh.

To facilitate the protection, management and restoration of Udall's Cove, 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 Udall's Cove 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, entitation is a process of breaking up a park into manageable parts called “entities” or “entitation units.” Entitation 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.



**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
Bill Tai, Director
Tim Wenskus, Project Manager
Craig Mandel, GIS/Data Manager
Jennifer Epstein, NRG Staff

Udall's Cove Natural Areas Entitment

- Entitment Unit Boundaries (1987)
- New York City Parkland (Not Surveyed)

This map is limited by the accuracy of its source data and is intended for illustrative use only.

01-31-2006

Udall's Cove Entitation Unit Descriptions, Surveyed October 1987

Unit: 1
Acreage: 0.31
Mgmt. Concern: No

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbance</u>
Herbaceous	Cool season grass	<5'			Sports	Trash
Hemicryptophytes	Mugwort	<5'	yes			
Level						
Dry						

Comments:

Strip of mown grass and mugwort just north of Northern Blvd. A wooden "Udall's Cove Wildlife Sanctuary" sign has fallen and a wooden backstop has become overgrown. Some trees (all <15': American elm, Ailanthus, sycamore maple, black cherry) growing along chain link fence. Other spp: red clover, English plantain, Queen Anne's lace, goldenrod, poor man's pepper, foxtail grass, Aster.

Unit: 2
Acreage: 1.24
Mgmt. Concern: Yes

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbance</u>
Herbaceous	Mugwort	<5'	Yes	Landfill	Foot traffic Gardens	Dumping
Hemicryptophytes						
Level						
Dry						

Comments:

Mugwort field with other herbaceous plants mixed in. Lots of Queen Anne's lace, CSG, goldenrod; also common mullein, butter-and-eggs, Aster, chives, curly dock, sweet white clover, common evening primrose. Some trees (<15') on edges: box elder, black locust. Also included in unit-small patch of mugwort, gill-over-the-ground, and purple top grass behind the fire station (plus small tomato garden). MC: very little dumping on edges. Control it before it gets out of hand.

Udall's Cove Entitation Unit Descriptions, Surveyed October 1987

Unit: 3
Acreage: 0.46
Mgmt. Concern: Yes

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbance</u>
Woodland	Black locust	<5' & 5-30'	Yes	Landfill	Other	Dumping
Deciduous	Ailanthus	<5' & 5-30'	Yes	Exotic		
Phanerophytes						
Undulating						
Dry						

Comments:

Black locust woodland. Undergrowth mostly Ailanthus <10' and other saplings. Trees are growing on mounds of land fill dumping, some new dumping also (wire fence, garden clippings, concrete). This unit forms a border around the field (B&A) and goes back to the fire house. Some encroachment: a cleared area with a grape arbor and other plantings. Other spp: mugwort, Eastern cottonwood, hickory spp. <5', Norway maple, bouncing bet, black cherry, wild trailing bean, black oak snag, mulberry.

Unit: 4
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>Disturbance</u>
Closed forest	Ailanthus	>30' & 5-30'	Yes	Landfill	Foot traffic	Dumping
Deciduous	Box elder	<5' & 5-30'				Trash
Phanerophytes	American sycamore	<5' & 5-30'				
Slope	Sycamore maple	<5' & 5-30'				
Dry						

Comments:

Ailanthus dominates upper canopy but lots more sycamore maple and box elder in understory plus American sycamore. Mugwort and garlic mustard dominate groundcover. Landfill slope heads down toward homes and into ravine. MC: disgusting area; sycamore regeneration is nice. Other species: mulberry, black locust, American beech (>30), mimosa, goldenrod, rose, patches of wild grape, CSG, winged euonymus, Virginia knotweed, hickory (<5'), poison ivy, day lily, honewort, wineberry, and Norway maple.

Udall's Cove Entitation Unit Descriptions, Surveyed October 1987

Unit: 5
Acreage: 1.00
Mgmt. Concern: Yes

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbance</u>
Closed forest Deciduous Phanerophytes Undulating Moist	Sycamore maple	All	Yes	Landfill	Foot traffic Dirt storage Vehicle access	Dumping Compaction Trash

Comments:

Sycamore maple forest just off parking lot. Area now being used to store dirt for sewer (?) construction. Patch of Sassafras; some patches of wild grape; Norway maple scattered through out. Lots of cats in area because adjacent to area of 10-12 shelters built for them in vineland unit 6. MC: Dirt which is smothering tree roots will kill those about 150' in from 43rd Ave. and 243rd St. Paved path. Slope from parking lot totally composed of woody debris. Other species: English ivy, mulberry, Japanese hops, ginkgo (<5), CSG, black cherry, mulberry, etc.

Unit: 6
Acreage: 5.12
Mgmt. Concern: Yes

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbance</u>
Vineland Deciduous Lianas Undulating Moist	Wild grape Rose Porcelain berry	All <5' & 5-30' <5' & 5-30'	Yes	Landfill	Vehicle access Foot traffic Tree houses	Dumping Fire Trash

Comments:

Very large vineland of wild grape covering forested areas and surrounding most of the ravine. MC: Lots of dumping! Debris and an abandoned auto. MC: great birding area. Some openings with vines upon jewelweed and Japanese knotweed. Fairly equal of rose and porcelain berry. Other species: Ailanthus, Norway Maple, Sycamore maple, Aster, red oak, box elder, bittersweet, chives, American wisteria, Japanese honeysuckle, hickory spp., American sycamore, winged euonymus, mugwort, horsebalm, black cherry, black locust, bindweed, garlic mustard, etc.

Udall's Cove Entitation Unit Descriptions, Surveyed October 1987

Unit: 7
Acreage: 0.30
Mgmt. Concern: Yes

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbance</u>
Herbaceous	Mugwort	<5'	Yes	Landfill		Dumping
Hemicryptophytes	Ragweed, common	<5'				Trash
Level						Ditching
Dry						

Comments:

Herbaceous meadow of mugwort, great ragweed, common ragweed, CSG, crabgrass, Queen Anne's lace, smartweed, common plantain, curly dock, poor man's pepper, aster, chicory, red clover, goldenrod, foxtail grass, common evening primrose, lamb's Japanese knotweed. Unit is cleared area by side of a new home at end of 244th Street. MC: Some ditching, dumping, landfill.

Unit: 8
Acreage: 0.84
Mgmt. Concern: No

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbance</u>
Vineland	Kudzu	All	Yes	Landfill	Foot traffic	Dumping
Deciduous				Exotic		
Lianas						
Slope						
Moist						

Comments:

Vineland within a vineland. Growing on Japanese knotweed and trees. Main foot path bisects area. Very few other species-rose, Asiatic dayflower, mugwort, Virginia knotweed, sycamore maple, common hops.

Udall's Cove Entitation Unit Descriptions, Surveyed October 1987

Unit: 9
Acreage: 0.79
Mgmt. Concern: Yes

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbance</u>
Herbaceous Hemicryptophytes Slope Dry	Mugwort	<5' & 5-30'	Yes	Landfill	Foot traffic	Auto Dumping Trash

Comments:

Two small patches and one large strip of mugwort in the middle of a vineland (unit 6). This unit will probably be taken over by lianas; wild grape and porcelain berry are already on edges. MC: abandoned auto, heaps of landfill dumping. A sewer line runs down the center of unit. Other spp: Japanese knotweed, Norway maple, Ailanthus, bindweed, Virginia creeper, sycamore maple, pokeweed, common plantain, CSG, Queen Anne's lace, red clover, great ragweed, Phragmites, goldenrod, and aster.

Unit: 10
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>Disturbance</u>
Woodland Deciduous Phanerophytes Slope Moist	Box elder Hickory spp. Black cherry	All >30' >30'		Landfill	Encroachment	Dumping Compaction Trash

Comments:

Very small woodland behind yards of homes on 247th street. Little to no vines on trees. People are using area as yard space, for dumping, and one home has built a wooden, ranch - type fence (MC). Other spp: violet sp., red oak (one>30'), wild grape, porcelain berry, Virginia knotweed, mugwort, CSG, Smartweed, Lamb's quarters, black willow, Norway maple, etc.

Udall's Cove Entitation Unit Descriptions, Surveyed October 1987

Unit: 11
Acreage: 0.49
Mgmt. Concern: No

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbance</u>
Closed forest	Sycamore maple	All	Yes	Landfill	Foot traffic	Dumping
Deciduous	Black locust	>30' & 5-30'	Yes			Trash
Phanerophytes	Black cherry	>30'				
Slope	Norway maple	All	Yes			
Moist	Red oak	<5' & >30'				

Comments:

Closed forest of above trees occurring on slopes behind homes on 247th St. Lots of dumping to fill in slope (MC), and trash. Understory mostly maple regeneration. Other species: box elder, black willow, hickory spp., garlic mustard, rose, celandine, black birch, winged euonymus, horse chestnut (<5'), jewelweed, violets, Virginia knotweed, Asiatic dayflower, white snakeroot.

Unit: 12
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>Disturbance</u>
Closed forest	White pine	>30'		Exotic	Vehicle access	Trash
Mixed	Norway maple	All	Yes		Foot traffic	Dumping
Phanerophytes	Box elder	<5' & 5-30'				
Level						
Dry						

Comments:

Small strip of land that fronts on 247th street and allows access, mostly to dumpers, to the rest of Udall's cove. Three large planted white pines, a few Norway maple and box elder. Understory species Norway maple and box elder regeneration. Land privately owned. Other species spp: hickory (<5'), English ivy, mulberry, Japanese knotweed, garlic mustard.

Udall's Cove Entitation Unit Descriptions, Surveyed October 1987

Unit: 13
Acreage: 1.94
Mgmt. Concern: Yes

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbance</u>
Closed forest	Black willow	>30'		Landfill		Dumping
Deciduous	Box elder	<5' & 5-30'		Culvert		Trash
Geophytes						Erosion
Undulating						
Moist						

Comments:

Large disturbed wet-site forest. Groundcover either bare from erosion or has Japanese knotweed. Not too much regeneration of box elder, no willow regeneration, scattered Norway and sycamore maple. Dirt path in unit (continues from 243rd St.) Ditch digging in south end near Unit 14. Other spp: avens sp., honewort, CSG, white snakeroot, English ivy, garlic mustard, white ash, rose, Japanese hop, mugwort, hosta, crab apple, hickory sp., black cherry, American beech, violet, tulip tree, American sycamore, mock orange, horse chestnut, flowering dogwood, etc.

Unit: 14
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>Disturbance</u>
Herbaceous	Sunflower	<5' & 5-30'		Landfill		Dumping
	Japanese knotweed	<5'	Yes			
Therophytes	Ragweed, common	<5' & 5-30'				
Level	Mugwort	<5'	Yes			
Moist						

Comments:

Patch of sunflower (appr. 6.5') with Japanese knotweed in clumps, great ragweed (10') and mugwort mixed throughout. A few trees- black cherry, box elder (10'). Some jewelweed on edge. MC: landfilled dumping beneath plants. Other spp: bindweed, CSG, smartweed, and crab apple.

Udall's Cove Entitation Unit Descriptions, Surveyed October 1987

Unit: 15
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>Disturbance</u>
Vineland Deciduous Lianas Slope Moist	Porcelain berry	<5' & 5-30'		Abandoned Home Landfill		Fire Dumping

Comments:

Small area with burned house that is abandoned and covered with vines. Lots of furniture and things that were dragged out of the house and left there. Other species: wineberry, Japanese knotweed, mugwort, box elder (5-8'), and ornamental shrubs.

Unit: 16
Acreage: 0.51
Mgmt. Concern: Yes

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbance</u>
Herbaceous	Mugwort	<5' & 5-30'	Yes	Landfill	Foot traffic	Dumping
	Japanese knotweed	<5' & 5-30'	Yes	Sewerline		
Hemipterophytes	Jewelweed	<5'				
Level	Japanese hops	<5' & 5-30'	Yes			
Dry						

Comments:

Very mixed herbaceous strip above sewer line. Mugwort clearly dominates, Japanese knotweed grows toward edges, and significant of other species above (jewelweed and Japanese hops). Also quite a bit of thin-leaved sunflower and bindweed. MC: Dumping again, particularly woody debris. Other spp: rose-of-Sharon, pokeweed, smartweed, garlic mustard, CSG, common plantain, poison ivy, rose, bedstraw sp., wild grape.

Udall's Cove Entitation Unit Descriptions, Surveyed October 1987

Unit: 17
Acreage: 0.54
Mgmt. Concern: Yes

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbance</u>
Closed forest	Norway maple	All	Yes			
Deciduous	Hickory spp.	All				
Phanerophytes	Box elder	All				
Undulating						
Moist						

Comments:

Mixed disturbed forest of Norway maple, hickory spp., and box elder, none of which dominates. Unit borders houses on 247th Street. MC: dumping, trash, and other general misuses. Other species: Japanese knotweed, black cherry, garlic mustard, English ivy, patch of silver maple in northern end, wild grape, Japanese barberry, Japanese honeysuckle, and crab apple.

Unit: 18
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>Disturbance</u>
Closed forest	American beech	>30' & 5-30'		Landfill	Foot traffic	Compaction
Deciduous	Black cherry	5'-30'			Vehicle access	Dumping
Phanerophytes	Black oak	>30'				Vandalism
Slope	Black locust	>30' & 5-30'	Yes			
Moist	Red oak	5'-30'				
	Sycamore maple	<5' & 5-30'	Yes			

Comments:

Beech forest on fairly steep slope. Only "natural" woods encountered in Udall's Cove. MC: preserve this! Footpath from nearby homes to ravine (unit 13). Some vandalized trees, but overall not as disturbed as surrounding areas. Soil is unstable. Other species (very little - ground is bare): Aster, rose, Japanese knotweed, and arrowwood.

Udall's Cove Entitation Unit Descriptions, Surveyed October 1987

Unit: 19
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>Disturbance</u>
Vineland Deciduous Lianas Undulating Moist	Bittersweet Rose	All <5' & 5-30'	Yes Yes	Landfill Fence Culvert	Foot traffic	Dumping

Comments:

Vineland along south edge of LIRR. Rose is constant in understory. Some trees remain free of vines. Other species: garlic mustard, box elder, black cherry, mugwort, Japanese knotweed, avens sp., hickory (<5'), enchanter's nightshade, great ragweed, black locust, CSG, wineberry, Ailanthus, poison ivy, porcelain berry, Japanese honeysuckle, violet sp., winged euonymus, deadly nightshade, etc. MC: water pollution (orange color).

Unit: 20
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>Disturbance</u>
Vineland Deciduous Lianas Level Dry	Japanese hops	<5'	Yes			

Comments:

Small clearing of Japanese hops at northern end of unit 13 (close to LIRR). Vines just beginning to grow on nearby trees and Japanese knotweed. Other spp: mugwort, box elder (<5'), garlic mustard, and rose.

Udall's Cove Entitation Unit Descriptions, Surveyed October 1987

Unit: 21
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>Disturbance</u>
Closed Forest Deciduous Phanerophytes Slope Moist	Norway maple	All	Yes	Landfill	Foot traffic Vehicle access	Dumping Erosion

Comments:

Norway maple dominates this forest just south of the LIRR. Unit slopes down from the last house on the western edge of Udall's Cove. MC: Lots of erosion and dumping of wood and concrete. Mix of trees in overstory include two very large silver maple, one large red oak, some black cherry, black locust, and box elder. Groundcover is virtually non-existent except for Japanese knotweed along the railroad track. Other spp: American beech (~10'), garlic mustard, bittersweet, great ragweed, and horse chestnut seedling.

Unit: 22
Acreage: 0.69
Mgmt. Concern: No

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbance</u>
Vineland Deciduous Lianas Undulating Moist	Wild grape	<5' & 5-30'		Landfill	Foot traffic	Dumping

Comments:

Grape vineland growing mostly on box elder and other species that include Japanese knotweed, mugwort, Norway maple, black cherry, box elder, black willow (5-30'), bindweed, porcelainberry, thin-leaved sunflower, English ivy, and garlic mustard.

Udall's Cove Entitation Unit Descriptions, Surveyed October 1987

Unit: 23
Acreage: 0.10
Mgmt. Concern: Yes

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbance</u>
Closed Forest	Silver maple	5'-30'		Landfill	Foot traffic	Pollution
Deciduous	Box elder	5'-30'		Culvert		Erosion
Geophytes	Japanese knotweed	<5' & 5-30'	Yes			Dumping
Level						
Moist						

Comments:

Virtually no regeneration in this small forest. Quite a bit of erosion surrounding channel; polluted water, exposed roots. Not many trees here. Japanese knotweed dominates understory. Other species (hardly any): Virginia creeper, CSG, deadly nightshade, black cherry, wild grape, rose, and poison ivy.

Unit: 24
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>Disturbance</u>
Herbaceous	Cool season grass	<5'		Landfill	Vehicle access	
Deciduous						
Hemicryptophytes						
Level						
Dry						

Comments:

Small herbaceous spot on the corner of 247th Street and 40th Ave. that is mowed and kept clean. Unit ends at culvert channel.

Udall's Cove Entitation Unit Descriptions, Surveyed October 1987

Unit: 25
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>Disturbance</u>
Closed Forest Deciduous Geophytes Level Moist	Box elder	5'-30'		Landfill Structure	Vehicle access	Dumping Trash Erosion

Comments:

Box elder forest along 40th Avenue. Other trees are American elm, Norway maple, silver maple, and one large Eastern cottonwood. Concrete structure in middle of unit. Two patches of Japanese knotweed along road. Bittersweet in some of trees. knotweed may eventually dominate ground cover. Other sp.: garlic mustard, rose, Japanese honeysuckle, poison ivy, Virginia creeper, black cherry, mugwort, smartweed, English ivy, etc. MC: Road is collapsing; no groundcover.

Unit: 26
Acreage: 0.63
Mgmt. Concern: No

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbance</u>
Desert Level Dry				Landfill	Railroad	

Comments:

Line of LIRR. No complaints.

Udall's Cove Entitation Unit Descriptions, Surveyed October 1987

Unit: 27
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>Disturbance</u>
Vineland	Bittersweet	All	Yes	Landfill	Lirr row	Dumping
Deciduous	Kudzu	>30' & 5-30'	Yes	Exotic	Foot traffic	Trash
Chamaephytes	Black cherry	All		Fence	Vehicle access	
Slope	Box elder	<5' & 5-30'				
Moist	Black locust	>30' & 5-30'				

Comments:

Vineland of bittersweet and kudzu over the tops of trees (mostly black cherry, box elder, and black locust). Understory mostly shrubs: rose, privet, yew - the last two planted or grown in from dumped garden clippings. Unit includes LIRR chainlink fence (damaged in spots) and goes up to tracks. Other species: hickory, wild grape, rose, poison ivy, jet black bead, Japanese knotweed, English ivy, horse chestnut, red oak.

Unit: 28
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>Disturbance</u>
Closed forest	Black cherry	<5' & 5-30'		Landfill		Erosion
Deciduous				Rr embankmt		Trash
Lianas						
Slope						
Dry						

Comments:

LIRR embankment with black cherry overstory and poison ivy ground cover. Some Sassafras mixed in, a few Norway maple, box elder, black locust. Other species: winged euonymus, bittersweet, rose, red maple, white snakeroot. Trees are cut at base by LIRR.

Udall's Cove Entitation Unit Descriptions, Surveyed October 1987

Unit: 29
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>Disturbance</u>
Closed forest Deciduous Phanerophytes Slope Dry	Norway maple Black cherry	<5' & 5-30' <5' & 5-30'	Yes	Landfill Exotic	Vehicle access	Trash Erosion

Comments:

Not as much black cherry as Norway Maple, but lots of it is regenerating near railroad tracks. Some trees covered in vines. Lots of Sassafras (<5) near railroad and some mimosa (<5), Erosion in spots from railroad embankment. Unit on north side. Other species: Japanese knotweed, porcelain berry, American hackberry (>30'), bittersweet, Japanese honeysuckle, Virginia creeper, white snakeroot, mugwort, shining sumac, catbrier, Asiatic dayflower, etc.

Unit: 30
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>Disturbance</u>
Herbaceous Geophytes Level Dry	Knotweed, Japanese	<5' & 5-30'	Yes	Landfill	Vehicle access Foot traffic	Trash

Comments:

Patch of Japanese knotweed along Sandhill Road. Nothing else growing here.

Udall's Cove Entitation Unit Descriptions, Surveyed October 1987

Unit: 31
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>Disturbance</u>
Closed forest Deciduous Lianas Level Wet	Silver maple	<5' & 5-30'			Vehicle access	Clippings

Comments:

Small wet-site wooded area. Mostly silver maple but there's also two large eastern cottonwoods (one covered with vines), box elder, and some pussy willow. Lots of lianas in understory and as groundcover - Virginia creeper, Japanese honeysuckle, poison ivy, and bittersweet. Unit surrounded by Phragmites and Japanese knotweed. Other species: rose, mugwort, goldenrod, CSG, clover, common plantain, wineberry, purple loosestrife, jewelweed etc.

Unit: 32
Acreage: 1.19
Mgmt. Concern: No

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

Comments:

Other species (in addition to Phragmites) are goldenrod, purple loosestrife, Japanese knotweed, patches of jewelweed, a pocket of Japanese hops (near culvert across from Arleigh Road), bittersweet, porcelain berry, etc. Most of the vines are on edges near other units.

Udall's Cove Entitation Unit Descriptions, Surveyed October 1987

Unit: 33
Acreage: 0.46
Mgmt. Concern: Yes

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbance</u>
Closed forest	Box elder	All		Landfill	Foot traffic	Vandalism
Deciduous	Black cherry	<5' & 5-30'				
Lianas	Black willow	>30' & 5-30'				
Undulating						
Wet						

Comments:

Wet site forest with box elder dominant. Very disturbed (MC) - piles of landfill, lots of lianas coming in. Understory contains box elder (<5'), but mostly Japanese honeysuckle, bittersweet, rose, Virginia creeper, and some wild grape. Other species: silver maple, American sycamore, jewelweed, horsetail, catbrier, Norway maple, black locust, garlic mustard, Virginia knotweed, sensitive fern, hickory (<5'), American beech (<10'), winged euonymus, arrowwood.

Unit: 34
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>Disturbance</u>
Herbaceous	Knotweed, Japanese	<5' & 5-30'	Yes	Culvert Landfill	Foot traffic	Pollution Dumping
Geophytes						
Undulating						
Moist						

Comments:

Patches of Japanese knotweed with some trees; black locust, box elder, black willow, Northern catalpa, American hackberry. Porcelain berry and other species: poison ivy, Norway maple, smartweed, silver maple, etc.

Udall's Cove Entitation Unit Descriptions, Surveyed October 1987

Unit: 35
Acreage: 0.27
Mgmt. Concern: No

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbance</u>
Herbaceous	Jewelweed	<5'				Trash
Therophytes Depression Surface water	Phragmites	<5' & 5-30'				

Comments:

Small wet meadow of jewelweed, some Phragmites on edges. Spots with standing water, some black willow regenerating. Other spp: willow herb, CSG, smartweed, deadly nightshade, climbing false buckwheat, purple loosestrife, etc.

Unit: 36
Acreage: 0.73
Mgmt. Concern: Yes

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbance</u>
Closed forest	Silver maple	>30' & 5-30'		Landfill	Foot traffic	Dumping
Deciduous	Black willow	All			Tree house	Erosion
Chamaephytes Undulating Wet	Box elder	<5' & 5-30'				

Comments:

Closed forest of silver maple (mostly in southern area) and black willow (more on the wetter ground in the north), less box elder. Understory mainly rose, more herbaceous ground cover in wetter spots, more lianas in drier areas. Unit borders the corner of 38th Drive and Douglas Road. Some dumping occurs (MC). Also, huge eroded gully leading from drainage pipe. Other species: Phragmites, bedstraw, jewelweed, horsetail, white avens, celandine, Virginia creeper, poison ivy, smartweed.

Udall's Cove Entitation Unit Descriptions, Surveyed October 1987

Unit: 37
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>Disturbance</u>
Vineland	Porcelain berry	All			Foot traffic	
Deciduous	Black willow	>30' & 5-30'				
Lianas						
Undulating						
Wet						

Comments:

Porcelain berry vineland overtopping a nice wetland community (MC). Lianas cover black willow trees, jewelweed, dogwood, arrowwood, Phragmites, and Japanese knotweed. Other species: deadly nightshade, box elder, rose, poison ivy, false nettle, silver maple. Tearthumb, honeysuckle sp., pin oak, beggar ticks, willow herb, etc. Tons of birds - red winged black birds, flickers, catbirds, etc.

Unit: 38
Acreage: 1.33
Mgmt. Concern: Yes

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbance</u>
Closed forest	Black locust	>30' & 5-30'	Yes	Landfill	Foot traffic	Erosion
Deciduous	Black cherry	All				Dumping
Lianas	Norway maple	<5' & 5-30'	Yes			
Undulating						
Moist						

Comments:

Large forest of black locust and black cherry with Norway maple regeneration. MC: Lots of dumping near road, also erosion channels. Understory very viney. poison ivy, Virginia creeper, Japanese honeysuckle, bittersweet, and porcelain berry in spots. A lot of seedlings of Norway maple. Groundcover is vines and herbaceous species. At the north end only leaf litter. Other species: American Sycamore (>30'), black oak (>30'), enchanter's nightshade, sycamore maple, sweet cherry, rose, garlic mustard, mugwort, black walnut, box elder, etc.

Udall's Cove Entitation Unit Descriptions, Surveyed October 1987

Unit: 39
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>Disturbance</u>
Closed forest	Hickory spp.	All		Foundation	Foot traffic	Erosion
Deciduous	Box elder	<5' & 5-30'		Full-crown tree		Dumping
Phanerophytes	Black oak	>30'		Landfill		Trash
Slope	White oak	<5' & 5-30'				
Moist	Norway maple	<5' & 5-30'	Yes			
	Black cherry	<5' & 5-30'				

Comments:

Forested slope with very large black oak and American beech with very little regeneration of these species. Younger trees especially hickory, Norway maple, Black cherry, and box elder at bottom of slope are dominant. Understory mostly regenerating trees, but also lots of poison ivy. Other plants include horse chestnut (>30', <5'), black locust, catbrier, linden, Virginia knotweed, garlic mustard, mock orange, periwinkle, English ivy, day lily, porcelain berry, Aster, red maple, Japanese barberry, white wood aster, and enchanter's nightshade.

Unit: 40
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>Disturbance</u>
Aquatic (fresh)	Phragmites	<5' & 5-30'				Trash
Geophytes						
Depression						
Surface water						

Comments:

Aurora's pond and its associated vegetation, mostly Phragmites which is filling in the pond. Other species of which there are very few. One large American sycamore, cattails, false nettle, CSG, jewelweed, beggar ticks, smartweed, barnyard grass, silver maple, purple loosestrife, great ragweed, wild grape, rice cutgrass, etc. MC: Phragmites

Udall's Cove Entitation Unit Descriptions, Surveyed October 1987

Unit: 41
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>Disturbance</u>
Closed forest	Silver maple	5'-30'		Landfill		Trash
Deciduous	Ailanthus	5'-30'	Yes			
Geophytes	Phragmites	<5' & 5-30'				
Level	Mulberry spp.	5'-30'	Yes			
Wet						

Comments:

Small closed forest on north side of Sandhill Road. Phragmites dominates the groundcover. All trees are between 5-30' tall. No real tree species clearly dominates but there are patches of first two and few mulberry trees. Other species include : pussy willow, rose, purple loosestrife, bindweed, CSG, Japanese knotweed, Northern catalpa. American elm, box elder, garlic mustard, jewelweed, black willow, horse tail, umbrella sedge, mugwort, and some planted dogwood species.

Unit: 42
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>Disturbance</u>
Woodland	Box elder	All		Hedgerow	Foot traffic	Dumping
Deciduous	Silver maple	>30' & 5-30'		Stone channel		
Geophytes						
Level						
Moist						

Comments:

Small wet-site woodland mostly of box elder, silver maple, some Norway maple, and a few large black willow. Understory species: Japanese knotweed, patches of rose. Hedgerow of privet. MC: very little dumping along road. Other species: jewelweed, garlic mustard, deadly nightshade, black walnut (<10'), horse chestnut (<10'), enchanter's nightshade, Phragmites, Japanese honeysuckle, poison ivy, and chives.

Udall's Cove Entitation Unit Descriptions, Surveyed October 1987

Unit: 43
Acreage: 0.70
Mgmt. Concern: Yes

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbance</u>
Closed forest Deciduous Lianas Undulating Moist	Box elder	<5' & 5-30'		Fence		Dumping Auto

Comments:

Another disturbed site, box elder forest. Lots of vines and debris. One large Eastern cottonwood, 2 large black willows and a few silver maple. Old fence ends unit although there appears to be no defined boundary with adjacent yards. Little regeneration.

MC: Dumpster, furniture and other debris. Other species: rose, porcelain berry, Japanese hops, Japanese knotweed, mulberry, black locust, privet sp, celandine, Phragmites, black walnut, poison ivy, garlic mustard, bittersweet, ailanthus, Rubus, jewelweed, Japanese honeysuckle, avens, wild grape, Virginia creeper, Norway maple, etc.

Unit: 44
Acreage: 0.29
Mgmt. Concern: Yes

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbance</u>
Vineland Deciduous Lianas Slope Moist	Bittersweet Black cherry Hickory spp.	All >30' & 5-30' All	Yes	Landfill		Dumping

Comments:

Bittersweet vineland growing on black cherry, hickory, black locust and other trees. Unit goes from Sandhill Rd. and Douglas Rd. and slopes down to the channel with Phragmites. Small strip of CSG at road edge. Other spp: black walnut, mulberry, Norway maple, porcelain berry, box elder, poison ivy, sycamore maple, Ailanthus, jewelweed, English ivy, sweet autumn clematis, crab apple, Northern catalpa, one white oak (30'), day lily. MC: dumping at top of road.

Udall's Cove Entitation Unit Descriptions, Surveyed October 1987

Unit: 45
Acreage: 5.98
Mgmt. Concern: No

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbance</u>
Herbaceous	Phragmites	<5' & 5-30'				Trash
Geophytes						
Undulating						
Wet						

Comments:

Patches of Phragmites on higher ground in salt marsh. Other plants mixed in are marsh elder, orache, saltwort, sea blite, unknown chenopod, spikegrass, seaside goldenrod, Ailanthus and salt water cordgrass.

Unit: 46
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>Disturbance</u>
Herbaceous	Mugwort	<5'	Yes	Landfill	Vehicle access Foot traffic	
Hemicryptophytes						
Level						
Dry						

Comments:

Small patch of mugwort at the corner of 38th Avenue and Brookside Street. A few Ailanthus (most under 10'), American sycamore (5-30) and a clump of shinning sumac (~8' tall) grow around its edges. Some bittersweet growing on trees.

Udall's Cove Entitation Unit Descriptions, Surveyed October 1987

Unit: 47
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>Disturbance</u>
Aquatic (fresh)	Duckweed	<5'				
Hydrophytes	Grass spp.	<5'				
Depression						
Surface water						

Comments:

Small pond close to the corner of Brookside Street and 38th Avenue. Old hurricane fence on the northeast side, possibly put there for protection from dumpers. MC: very little freshwater ponds - please preserve. Some jewelweed on edges.

Unit: 48
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>Disturbance</u>
Herbaceous	Cool season grass	<5'		Landfill		Compaction
Hemicryptophytes	Clover spp.	<5'				Dumping
Level						
Dry						

Comments:

Small fenced off meadow adjacent to new home on 38th Ave. Not sure of ownership. One large dying silver maple but there's lots of it under 5' plus a few Eastern cottonwood and black locust. Variety of plants include Queen Anne's lace, mugwort, lamb's quarter, polygonum spp., deadly nightshade, foxtail grass, wild lettuce, curly dock, crab grass, common ragweed, poison ivy, beggar's ticks, Virginia Creeper, pokeweed, Virginia knotweed, etc.

Udall's Cove Entitation Unit Descriptions, Surveyed October 1987

Unit: 49
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>Disturbance</u>
Closed forest	Black walnut	>30'		Landfill		Dumping
Deciduous	Bittersweet	All	Yes	Foundation		
Lianas				Exotic		
Slope						
Moist						

Comments:

Classic example of pinnately compound tree confusion. Strip of black walnut trees over taken by lianas, other trees include Kentucky coffee tree, hickory sp., Ailanthus, American elm, black cherry. Other spp: mimosa, mock orange, amur honeysuckle, jewelweed, celandine, rose, white snakeroot, garlic mustard, and English ivy, sweet autumn clematis. MC: dumping, mostly of garden debris.

Unit: 50
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>Disturbance</u>
Herbaceous	Cool season grass	<5'		Landfill		
Hemicryptophytes						
Level						
Moist						

Comments:

Strip of mown grass with small planted trees along Douglas Road. Telephone poles and railway ties are used to block off access from road. Other spp: dandelion, yew, arborvitae, Eastern hemlock, silver maple, garlic mustard, English ivy, Eastern red cedar, white pines, black cherry, mulberry etc.

Udall's Cove Entitation Unit Descriptions, Surveyed October 1987

Unit: 51
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>Disturbance</u>
Closed forest	Silver maple	>30'				Woody debris
Deciduous	Norway maple	<5' & 5-30'	Yes			Erosion
Lianas	Bittersweet	All	Yes			
Undulating	Poison ivy	<5' & 5-30'				
Moist	Rose	<5' & 5-30'	Yes			

Comments:

Closed forest of very large silver maple with some Norway maple regeneration mixed in. However there's a lot of vines here which will eventually take over unit. Quite a bit of rose in understory, ornamental scattered throughout (Siebold viburnum, privet, amur honeysuckle). Opening in canopy. Other species: Virginia creeper, English ivy, Japanese honeysuckle, jewelweed, Phragmites, wineberry, Asiatic dayflower, black cherry, hickory (>30'), 3 large black walnut, pokeweed, mugwort, honewort, porcelainberry, crabapple, etc.

Unit: 52
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>Disturbance</u>
Woodland	Black willow	5'-30'		Landfill	Foot traffic	Dumping
Deciduous	Eastern cottonwood	>30' & 5-30'				
Geophytes	Silver maple					
Level						
Dry						

Comments:

Strip of above trees plus box elder at the corner of 34th Avenue. There is some dumping of organic debris along the road. A foot path extends from (Brookside Street.) an active driveway. Understory is Phragmites, mugwort, great ragweed, rose, polygonum sp. close to road. Other species: deadly nightshade, Japanese honeysuckle, CSG.

Udall's Cove Entitation Unit Descriptions, Surveyed October 1987

Unit: 53
Acreage: 0.79
Mgmt. Concern: Yes

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbance</u>
Closed forest	Silver maple	>30' & 5-30'		Landfill		Dumping
Deciduous	Cottonwood, eastern	All		Fence		Trash
Lianas	Wisteria	All	Yes			
Undulating						
Moist						

Comments:

Strip of forest between two houses. MC: Encroachment, dumping and trash from both. Vines (wisteria, bittersweet, poison ivy, Virginia creeper) climbing into trees and covering the ground in most places. Other sp: Phragmites, horsetail, sensitive fern, Japanese knotweed, mugwort Boston and English ivy, Aster, American elm, pin oak, Ailanthus, and Paulownia.

Unit: 54
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>Disturbance</u>
Herbaceous	Grass spp.	<5'		Landfill		
	Hydrophyte, unknown	<5'		Parking lot		
Therophytes	Purslane	<5'	Yes			
Depression						
Surface water						

Comments:

Small depression that collects water. Area may have been paved or gravel parking lot. Vegetation is a stunted mixture of backyard grass, umbrella sedge, purslane and unknown hydrophyte in the water. Phragmites moving in on edges. Other species: spike rush, beggar's tick, red top grass, annual salt marsh, aster, mugwort, common ragweed, common plantain.

Udall's Cove Entitation Unit Descriptions, Surveyed October 1987

Unit: 55
Acreage: 8.05
Mgmt. Concern: No

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbance</u>
Intertidal	Salt water cordgrass	<5'			Pipeline	

Level
 Surface water

Comments:

Marsh appears very healthy and has apparently grown quite a bit in the last four years since the aerial photos were taken. Areas of flotsam. Other sp., all in very small amounts, spikegrass, salt meadow cordgrass, marsh elder, and Phragmites. Beyond the pipeline and this unit mud flats are exposed about 150' at low tide.

Unit: 56
Acreage: 0.26
Mgmt. Concern: No

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbance</u>
Woodland	Pin oak	<5' & 5-30'			Landfill	Dumping
Deciduous	Grey birch	<5' & 5-30'			Parking lot	
Geophytes	Ailanthus	<5' & 5-30'	Yes			
Level						
Dry						

Comments:

Disturbed area (old parking lot?) becoming colonized by trees. Understory mostly Phragmites, but other herbaceous spp. mixed in gravelly soil. Other species: black willow, London planetree, switchgrass, Queen Anne's lace, Aster, mugwort, Virginia creeper.

Udall's Cove Entitation Unit Descriptions, Surveyed October 1987

Unit: 57
Acreage: 0.27
Mgmt. Concern: No

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbance</u>
Herbaceous Hemicryptophytes Slope Dry	Mugwort	<5'	Yes	Landfill Boatyard		Dumping

Comments:

Mugwort meadow that slopes down to abandoned boatyard. Other sp: Queen Anne's lace, CSG, orchard grass, common ragweed, sweet white clover, aster, Phragmites, common evening primrose, red clover, crab grass, goldenrod.

Unit: 58
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>Disturbance</u>
Woodland Deciduous Hemicryptophytes Undulating Dry	Cottonwood, eastern	>30' & 5-30'		Landfill		Dumping

Comments:

Small woodland of Eastern cottonwood. Understory mugwort, some smooth sumac, amur honeysuckle, rose, Rubus, black cherry. Other species: goldenrod, deer-tongue grass, sweet white clover, Phragmites, bittersweet, silver maple, black locust.

Udall's Cove Entitation Unit Descriptions, Surveyed October 1987

Unit: 59
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>Disturbance</u>
Herbaceous Deciduous Geophytes Undulating Surface water	Phragmites	<5' & 5-30'		Landfill		Dumping

Comments:

Wet spot near a small channel (man-made with gravel at beginning). Vegetation mainly Phragmites, but also cattails, barnyard grass, spike rush, beggar ticks, polygonum spp., umbrella sedge. Silver maple and black willow in spots. MC: dumping and trash. Other species: Aster, mugwort, great ragweed, unknown hydrophyte.

Unit: 60
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>Disturbance</u>
Desert Hemicryptophytes Level Dry				Landfill Paved path	Vehicle access	

Comments:

Old parking lot, asphalt and gravel surface. Some foxtail grass and crab grass growing in cracks. Mugwort and aster on edges. This unit is at the corner of 33rd Avenue.

Udall's Cove Entitation Unit Descriptions, Surveyed October 1987

Unit: 61
Acreage: 0.31
Mgmt. Concern: No

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbance</u>
Herbaceous Deciduous Hemicryptophytes Level Dry	Mugwort	<5'	Yes	Landfill		

Comments:

Unit of mugwort with Japanese knotweed. Unit goes up to the edge of the Phragmites near the salt marsh. It is bordered on the other side by the fences surrounding homes on 33rd Avenue. A small border of CSG is also included. Other species: aster, foxtail grass, common plantain, crabgrass, dandelion etc.

Unit: 62
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>Disturbance</u>
Intertidal	Spikegrass	<5'		Pipeline		
Hemicryptophytes Level Wet	Salt-meadow cord Glasswort, spiney	<5' <5'				

Comments:

Area of almost equal mix of salt meadow cordgrass and spikegrass. More spikegrass near marsh elder unit, more s.m. cordgrass near salt water cordgrass unit. In some of the wetter spots, there is glasswort.

Udall's Cove Entitation Unit Descriptions, Surveyed October 1987

Unit: 63
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>Disturbance</u>
Closed forest	Silver maple	>30'		Landfill	Vehicle access	Dumping
Deciduous	English ivy	<5' & 5-30'	Yes			
Lianas	Knotweed, Japanese	<5' & 5-30'	Yes			
Undulating						
Moist						

Comments:

English ivy growing up the trunks of most trees. Unit will probably become a vineland. Part of unit may be on Aurora's property which is north of unit. Some wood dumping, lawn debris. Other species are American elm, mulberry, Norway maple, mugwort, privet, Phragmites, rose, pin oak, black cherry, avens sp., Japanese honeysuckle, etc.

Unit: 64
Acreage: 0.57
Mgmt. Concern: No

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbance</u>
Woodland	Silver maple	<5' & 5-30'		Landfill	Vehicle access	Dumping
Deciduous	Black locust	5'-30'	Yes	Home	Foot traffic	
Hemicryptophytes	Cottonwood, eastern	<5' & 5-30'				
Undulating	Mugwort	<5' & 5-30'	Yes			
Dry	Ailanthus	<5' & 5-30'	Yes			

Comments:

Most of the trees are between 5-30'. Growing on rubble from when house was demolished. Trees are spread out and encircle unit 65. Mugwort dominates groundcover. Other species: Amur honeysuckle, Virginia creeper, mulberry, goldenrod, great ragweed, rose, clover, American sycamore, black cherry, sweet cherry, and patch of smooth sumac.

Udall's Cove Entitation Unit Descriptions, Surveyed October 1987

Unit: 65
Acreage: 0.69
Mgmt. Concern: Yes

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbance</u>
Herbaceous Hemicryptophytes Level Dry	Mugwort	<5' & 5-30'	Yes		Foot traffic Bike/ atv Vehicle access	Soil Dumping

Comments:

Mugwort field growing on a site where previously there was a home. Partly state owned. Cool season grasses mixed in. Small seedlings of Eastern cottonwood, silver maple, Ailanthus and black locust are encroaching. MC: maintain it! Edge along Marenette Street very compacted and devoid of vegetation. Nice herbaceous variety includes Queen Anne's lace, goldenrod, sweet white clover, New York aster, small white aster, hawthorn, red clover, WSG, chicory, common plantain, great ragweed, chairmaker's rush, Phragmites, curly dock, path rush, etc.

Unit: 66
Acreage: 0.54
Mgmt. Concern: No

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbance</u>
Scrub Deciduous Chamaephytes Level Moist	Marsh elder	<5' & 5-30'		Pipeline		

Comments:

Patch of marsh elder scrub in the middle of saltwater cordgrass. Patches of orache, spikegrass, sea blite, salt wort, unknown chenopod, Phragmites.

Udall's Cove Entitation Unit Descriptions, Surveyed October 1987

Unit: 67
Acreage: 2.47
Mgmt. Concern: No

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbance</u>
Herbaceous Hemicryptophytes Level Dry	Cool season grass	<5'			Play area	

Comments:

Play field along Douglaston Road, also equipped with swings, slides, basketball court and ball field. Planted hedges and trees such as weeping willow and pine sp. Marsh elder growing along edge above salt water cordgrass; sweetgum, privet near road, honey locust, rose, etc.

Unit: 68
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>Disturbance</u>
Woodland Deciduous Hemicryptophytes Slope Dry	Hickory spp.	>30'		Landfill	Vehicle access Dog walking	

Comments:

Woodland strip along street at the northern tip of Udall's clove. Quite a bit of American basswood, silver maple, American hackberry and mulberry. Gradual slope toward bay. Other species: patch of black locust, Eastern hemlock, white pine, mugwort, wild grape, hawthorn, red oak, privet, deadly nightshade, pine sp., etc.

Udall's Cove Entitation Unit Descriptions, Surveyed October 1987

Unit: 69
Acreage: 0.39
Mgmt. Concern: Yes

<u>Site:</u>	<u>Species</u>	<u>Height</u>	<u>Exotic</u>	<u>Historical</u>	<u>Uses</u>	<u>Disturbance</u>
Closed forest Deciduous Hemicryptophytes Undulating Dry	Black locust Mugwort	5'-30' <5'	Yes Yes	Landfill	Foot traffic	Dumping

Comments:

Small forest of black locust open on all sides with undulating lumps of landfill. Close to inlet and old marina. Other species: pokeweed, Japanese knotweed, rose, Phragmites, smooth sumac, one black cherry, Queen Anne's lace, etc.

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.