Table 4. Stewardship Summary

	Relative	
Goal	Priority	Description
		<u>Deer Management</u> : Consider establishing a deer management program to allow
	.,	native species to fill forest understory and effectively compete against invasive
1	Very High	species. Contact Strike Team for advice on establishing a program.
		Eradication of Newly Emerging Species: There are 8 species listed as Stewardship
		Goal = 1 on the Non-Native Species List (Table 1) - includes species widespread in NJ,
		but emerging on the property. These include English Ivy, Japanese Aralia, Japanese
		Knotweed, Yellow Archangel, Chinese Wisteria, Japanese Maple, Deutzia, and
		Wintercreeper . GPS coordinates for all observed populations of these species are
		provided in Table 2. Additional searching should be conducted on a regular basis and
2	Very High	any new populations should be eradicated.
		<u>Protect Clean Areas</u> : Upland areas on the property have older forests with relatively
		few invasive species. Priority areas should be established and be subject to regular
		control efforts targeting all invasive species with Stewardship Goals = 2 (Table 1).
3	High	Wetland areas have severe infestations and
		Restoration: Existing native tree and shrub seedlings can be protected using cages to
		allow plants to exceed 5' tall (above deer browse line). Existing patch of forest
		wildflowers along trail at entrance could be protected using a small exclosure to
		demonstrate deer impacts and allow visitors to enjoy a healthy wildflower display.
		Additional small exclosures can be utilized to protect small areas of wildflower or
4	High	native shrubs.
		<u>Long-term Control</u> : For infested wetlands, the highest priority Stewardship Goal = 2
		species should be subject to control efforts at reducing / containing existing
		infestations. The highest priorty species include Autumn Olive, Japanese Barberry,
5	Moderate	Mugwort, Multiflora Rose, Wineberry, and Winged Burning Bush.

Table 1. Non-native Species Observations, Threat Levels, and Stewardship Goals

Species	Growth Form	Relative Threat Level	Stewardship Goal	Descriptive Notes	Treatment Notes - See links at bottom of table
openes	101111	Level	Gou.	Descriptive Notes	Treatment Notes See links at Sottom of table
					Treat in summer utilizing FS-1 or summer/winter utilizing CS-1.
					Small to moderate-sized plants can be pulled from ground,
Amur Honeysuckle	Shrub	Moderate	2	Small patches and scattered individuals	most effective when ground is wet.
			_		If treating in winter, consider CS-1. If treating in summer,
					consider CS-2 or CS-3. Cutting without herbicide may lead to
					extensive resprouting. Ground level plants can be treated with
Asiatic Bittersweet	Vine	Very High	2	Smothering trees in areas	FS-1.
		- , 5		, , , , , , , , , , , , , , , , , , ,	Treat in summer utilizing BB-1. Be sure to spray all the way
					around the trunk from the ground to 2' above ground. Highly
Autumn Olive	Shrub	High	2	Small patches and scattered individuals	sprouting species when cut.
					Treat in summer utilizing BB-1 and FS-1. For BB-1, be sure to
					spray all the way around the trunk from the ground to 2' above
Chinese Wisteria	Vine	Very High	1	Several large patches along roadside	ground. Highly sprouting species when cut.
					Treat in summer utilizing FS-1 or summer/winter utilizing CS-1.
					Small to moderate-sized plants can be pulled from ground,
Deutzia	Shrub	Low	1	One small patch	most effective when ground is wet.
				Several small patches - not smothering	If treating in winter, consider FS-3 or CS-1. If treating in
English Ivy	Vine	Very High	1	treesyet	summer, consider FS-1 or CS-2.
					Treat in March using FS-2 and/or hand pulling in April - May
Garlic Mustard	Herb	Moderate	2	Scattered individuals	before seeding.
					Treat in summer utilizing BB-1. Be sure to spray all the way
					around the trunk from the ground to 2' above ground. Highly
Japanese Aralia	Tree	Very High	1	Two locations but highly threatening	sprouting species when cut.
					Treat in summer utilizing FS-1 or winter using CS-1. Small to
				Dense infestations, especially in wetter	moderate-sized plants can be pulled from ground, most
Japanese Barberry	Shrub	High	2	areas	effective when ground is wet.
					Allow stems to reach full height in early June, cut to ground, all
					resprouting to 2-3', then treat with FS-3. Very small populations
					can be treated with CS-1. Cutting alone should follow same
				Small patches, but highly threatening	concept, allowing growth of 2-3' between cuttings to weaken
Japanese Knotweed	Herb	Very High	1	along lakeshore	roots.
Japanese Maple	Tree	Moderate	1	One individual along trail	Treat in summer using BB-1.
				Small patches and scattered individuals	
				in upland, extensive infestations in	
Japanese Stiltgrass	Grass	High	3	wetlands	Direct treatment not recommended

Table 1. Non-native Species Observations, Threat Levels, and Stewardship Goals

		Relative			
	Growth	Threat	Stewardship		
Species	Form	Level	Goal	Descriptive Notes	Treatment Notes - See links at bottom of table
					Treat in summer utilizing FS-1 or summer/winter utilizing CS-1.
					Small to moderate-sized plants can be pulled from ground,
Morrow's Honeysuckle	Shrub	Moderate	2	Small patches and scattered individuals	most effective when ground is wet.
					Treat in October using foliar spray FS-7. Repeated cutting as
					desribed for Japanese Knotweed above can weaken plants over
Mugwort	Herb	High	2	Primarily near dam	time.
				Small patches and scattered individuals	Treat in summer utilizing FS-1 or winter using CS-1. Small to
				in upland, extensive infestations in	moderate-sized plants can be pulled from ground, most
Multiflora Rose	Shrub	High	2	wetlands	effective when ground is wet.
Norway Maple	Tree	Moderate	2	Scattered individuals	Treat in summer utlizing BB-1. Prioritize seedlings and saplings.
Tree-of-Heaven	Tree	Moderate	2	Scattered individuals	Treat in summer utilizing BB-1.
White Mulberry	Tree	Low	3	Scattered individuals	Treat in summer utlizing BB-1.
,					Treat in summer utilizing FS-1 or winter using CS-1. Small to
					moderate-sized plants can be pulled from ground, most
Wineberry	Shrub	High	2	Scattered individuals	effective when ground is wet.
					Took in a suppose a skilling of C. A. and a suppose of the skilling of C. A.
					Treat in summer utilizing FS-1 or summer/winter utilizing CS-1.
			_		Small to moderate-sized plants can be pulled from ground,
Winged Burning Bush	Shrub	High	2		most effective when ground is wet.
			_	Several small patches - not smothering	If treating in winter, consider FS-3 or CS-1. If treating in
Wintercreeper	Vine	Very High	1	treesyet	summer, consider FS-1 or CS-2.
Yellow Archangel	Herb	Low	1	Single patch, potential to spread	Treat in summer utilizing FS-1.

Stewardship Goal Notes:

- 1 = Eradicate all observed individuals
- 2 = Control through a long-term program
- 3 = Do not treat unless resources allow (only Very High, High or Moderate Threat species)

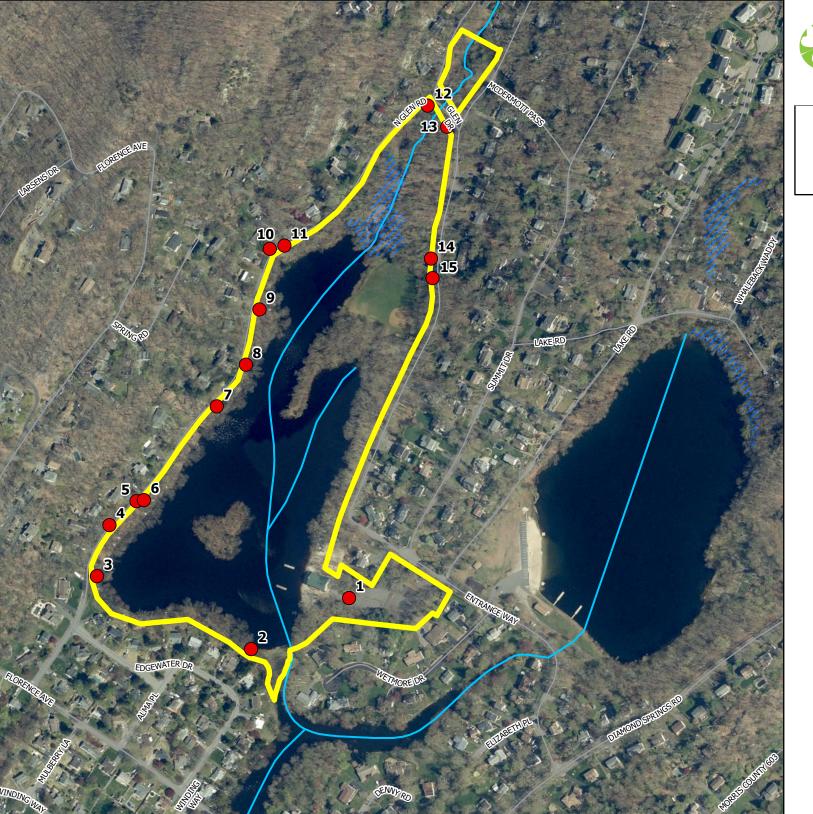
See Strike Team website for "Species List and Control Recommendations" and "Herbicide Use Suggestions and Mixing Table"

Table 2. Invasive Species Points

		Number of		
Point ID	Common Name	Individuals	Latitude	Longitude
1	Japanese Aralia	2-10	-74.4625741	40.91189852
2	Japanese Maple	1	-74.46400038	40.91133507
3	Chinese Wisteria	101-1000	-74.46624509	40.91214133
4	Chinese Wisteria	>1000	-74.46606277	40.91270518
5	Yellow Archangel	2-10	-74.46566821	40.91296975
6	English Ivy	2-10	-74.46556201	40.91298123
7	Deutzia	2-10	-74.46449955	40.91401665
8	English Ivy	2-10	-74.46407453	40.91447685
9	Wintercreeper	2-10	-74.46387698	40.91508673
10	Japanese Knotweed	11-100	-74.4637268	40.91575632
11	Chinese Wisteria	101-1000	-74.46351344	40.91579222
12	Chinese Wisteria	>1000	-74.46142656	40.91733796
13	Wintercreeper	2-10	-74.46114224	40.91710411
14	Japanese Aralia	11-100	-74.46138014	40.91564767
15	English Ivy	2-10	-74.46135656	40.91543188

Table 3. Native Species List (Partial)
Sorted by Growth Form, then Common Name

	Growth		
Common Name	Form		
Cinnamon Fern	Fern		
Royal Fern	Fern		
Deer Tongue Grass	Grass		
Blue Wood Aster	Herb		
Canada Goldenrod	Herb		
Common Milkweed	Herb		
Field Aster	Herb		
Grass-leaved Goldenrod	Herb		
Pokeberry	Herb		
Pussy Toes	Herb		
Shinleaf	Herb		
Silverrod	Herb		
Striped Wintergreen	Herb		
White Snakeroot	Herb		
White Vervain	Herb		
White Wood Aster	Herb		
Wreath Goldenrod	Herb		
Blackhaw Viburnum	Shrub		
Elderberry	Shrub		
Highbush Blueberry	Shrub		
Lowbush Blueberry	Shrub		
Maleberry	Shrub		
Mountain Laurel	Shrub		
Shadbush	Shrub		
Smooth Alder	Shrub		
Spicebush	Shrub		
Winterberry Holly	Shrub		
Witch-hazel	Shrub		
American Elm	Tree		
American Holly	Tree		
Black Oak	Tree		
Black Tupelo	Tree		
Black Walnut	Tree		
Eastern Red Cedar	Tree		
Flowering Dogwood	Tree		
Gray Birch	Tree		
Ironwood	Tree		
Pignut Hickory	Tree		
Pin Oak	Tree		
Red Maple	Tree		
Red Oak	Tree		
Sassafras	Tree		
Shagbark Hickory	Tree		
Sweet Birch	Tree		
White Oak	Tree		
White Pine	Tree		
Fox Grape	Vine		
Poison-ivy	Vine		





Rock Ridge Lake Stewardship Map

Legend

- Invasive Points
- Property Boundary
- //// Wetlands (2012)
 - Stream