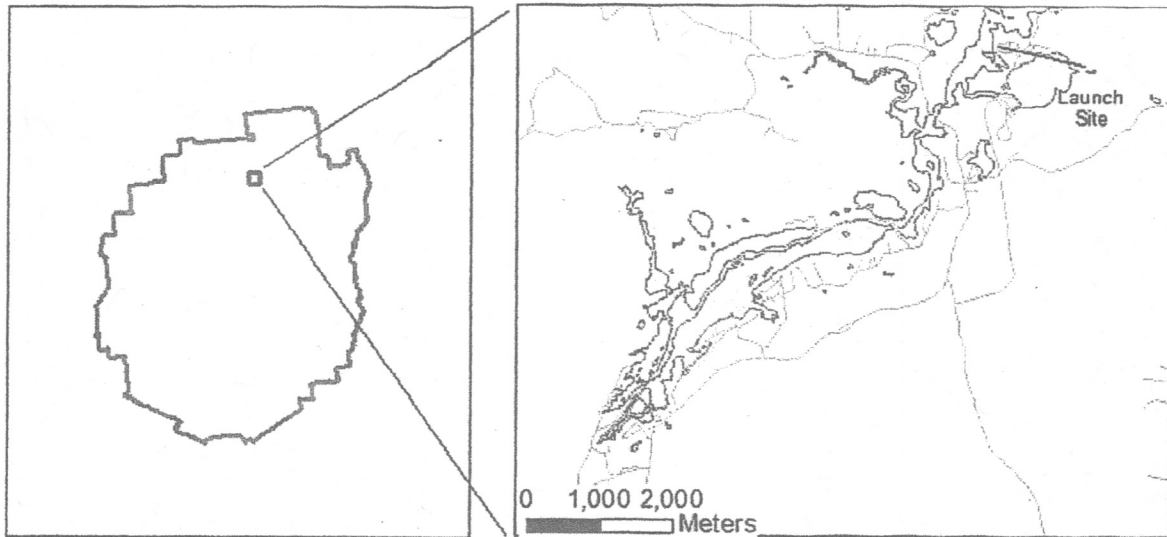


Rainbow Lake & Clear Pond (Rainbow Lake) Aquatic Plant Survey 2012

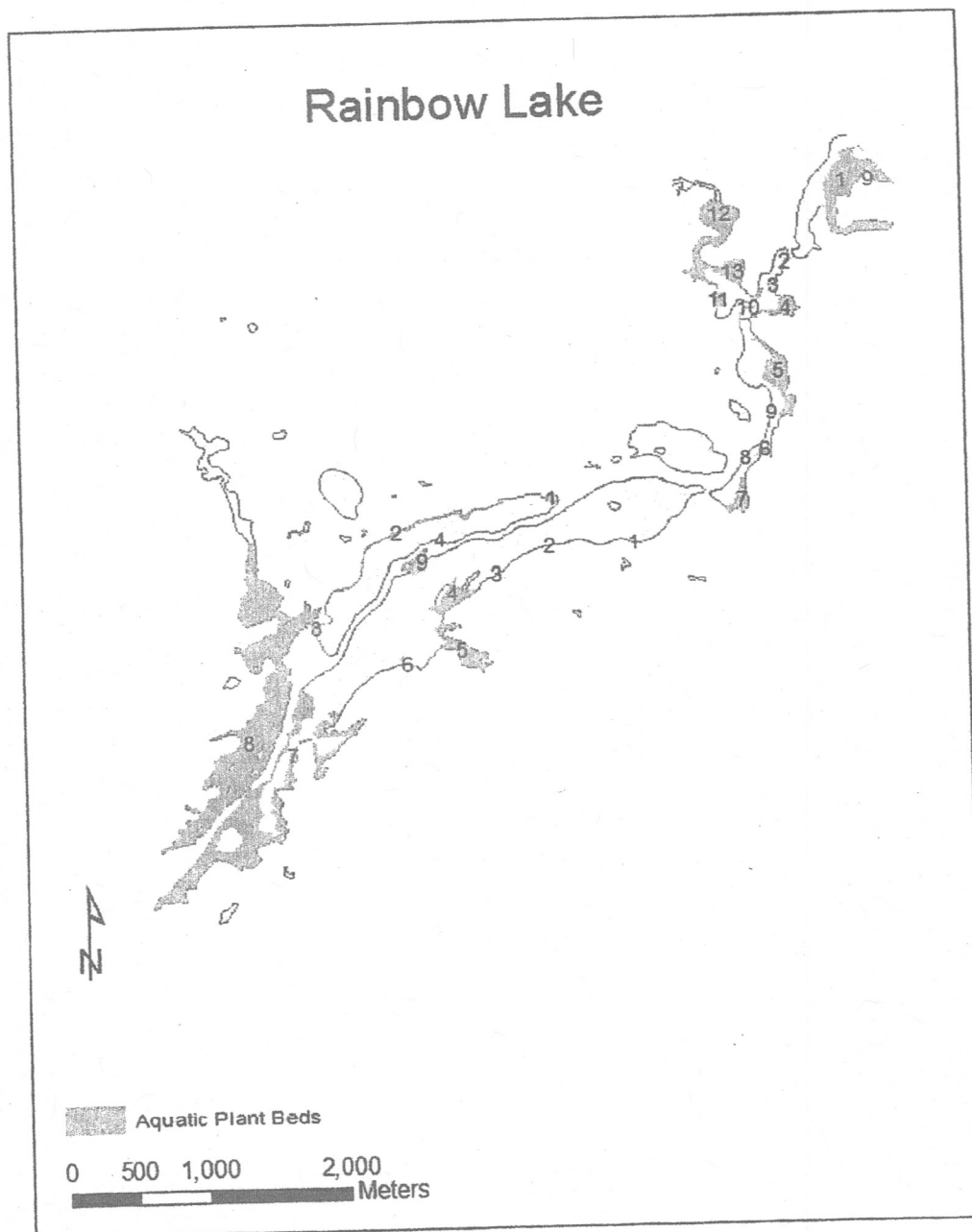


Map 1: Location of Rainbow Lake & Clear Pond (Rainbow Lake).

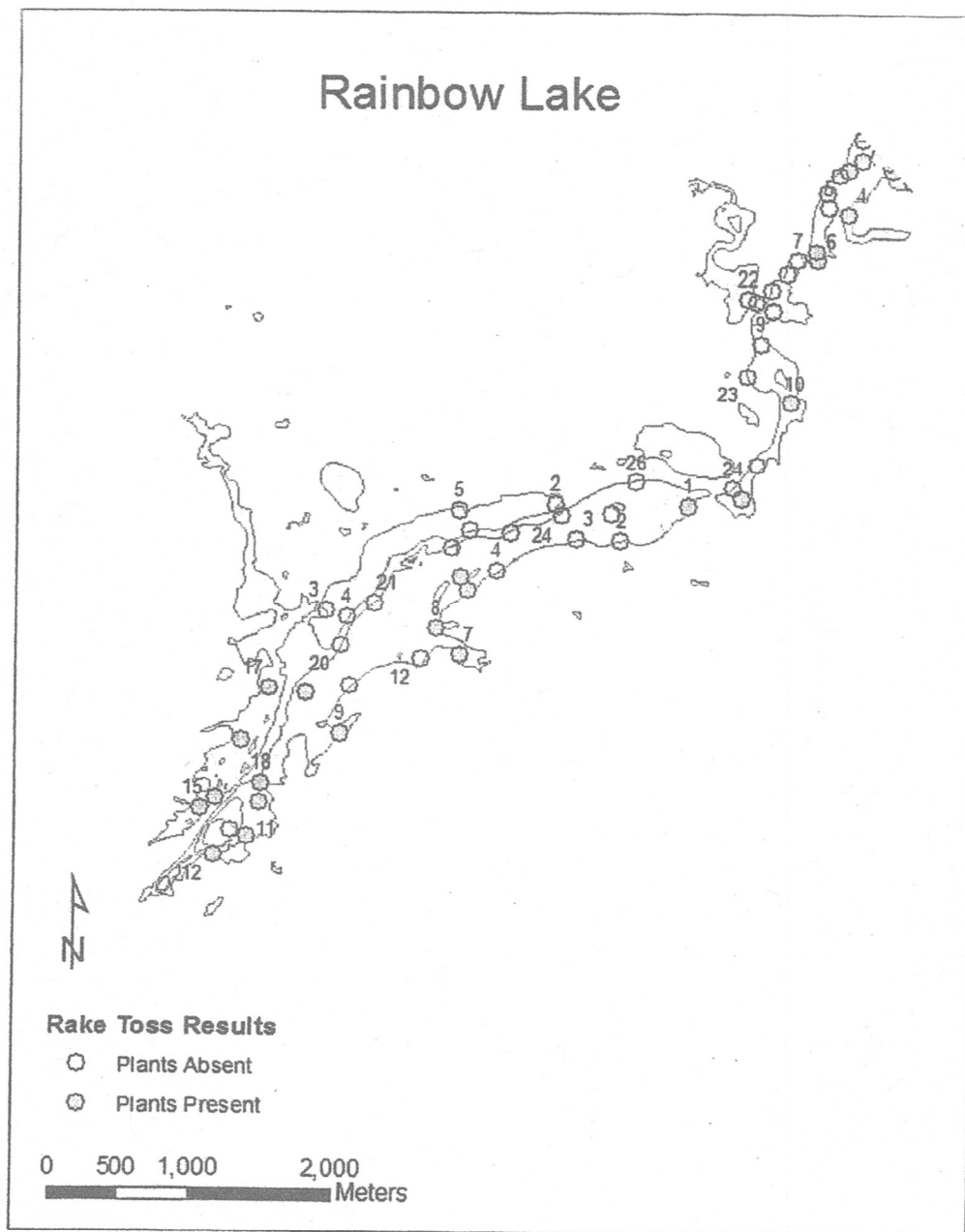
Rainbow Lake is located in the town of Brighton in Franklin County, New York (Map 1). The 588 acre lake was accessed by the Rainbow Lake Narrows from the Camp Road off from the Kushaqua-Mud Pond Road in Onchiota, New York.

An aquatic plant survey of Rainbow Lake was conducted on 23-August-2012. No invasive species were detected during this survey. Aquatic plant coverage in Rainbow Lake was relatively high, comprised of 28 aquatic plant beds that covered 317 acres or 53.9% of the surface area of the lake (Map 2). Nineteen different aquatic species were identified during this survey. Common species in the Lake included Water naiad (*Najas* sp.), Spatterdock (*Nuphar variegata*), and Watershield (*Brasenia schreberi*). Purple bladderwort (*Utricularia purpurea*), Common bladderwort (*U. vulgaris*), Whorl-leaf watermilfoil (*Myriophyllum verticillatum*), Shortspike watermilfoil (*M. sibiricum*), and Coontail (*Ceratophyllum* sp.) were species found in the lake that could be easily confused with invasive species (Table 2).

Of the 55 rake tosses spaced throughout the littoral zone of Rainbow Lake (Map 3), 23 had acquired plants upon recovery (41.8%). Brittlewort (*Nitella* sp.) was the only species recovered by the rake tosses that was not detected during the surface survey (Table 3).



Map 2: Location of the aquatic plant beds detected in Rainbow Lake and Clear Pond (Rainbow Lake) during the surface survey performed on 23 August, 2012.
Data for Plant Beds can be found on Table 2.



Map 3: Rake toss locations on Rainbow Lake and Clear Pond (Rainbow Lake), 23 August, 2012. Open circles represent locations where no plants were detected, closed circles represent locations where plants were encountered on the rake.
Data for Rake Tosses can be found on Table 2.

[illegible]

Clear Pond (Rainbow Lake)			Plant Bed Numbers			
Scientific Name	Common Name	AREA (M ²)	1	2	3	4
			4276	31905	7131	478
<i>Brasenia schreberi</i>	Water shield		3	3	2	2
<i>Najas</i> sp.	Water naiad		-	1	-	-
<i>Nuphar variegata</i>	Spatdock		1	-	1	-
<i>Potamogeton amplifolius</i>	Large-leaf pondweed		2	2	-	-
<i>Potamogeton epiphydrus</i>	Ribbon-leaf pondweed		-	2	-	-
<i>Potamogeton robbinsii</i>	Robbins pondweed		-	1	-	-
<i>Sparganium</i> sp.	Bur-reed		-	1	-	-
<i>Vallisneria americana</i>	Eel-grass		-	2	-	-

Table 2: Species present on the rake at each of the rake toss locations and abundance. Refer to Map 3 for Rake locations.

Rainbow Lake		Rake Toss Numbers																	
Scientific Name	Common Name	1	5	6	7	8	9	10	11	12	14	15	16	17	18	19			
<i>Ceratophyllum</i> sp.	Coontail	-	-	-	-	-	-	-	-	-	-	-	R	O	-	-			
<i>Elodea canadensis</i>	Canadian waterweed	-	-	-	C	-	-	A	-	-	O	-	-	-	-	-			
<i>Elodea nuttalia</i>	Western waterweed	-	-	-	-	-	-	-	-	O	-	-	-	-	-	-			
<i>Myriophyllum sibiricum</i>	Shortspike watermilfoil	-	-	-	C	-	-	-	-	R	-	-	-	O	-	-			
<i>Myriophyllum verticillatum</i>	Whorl-leaf watermilfoil	-	-	-	P	-	-	-	-	-	-	-	-	-	-	-			
<i>Najas</i> sp.	Water naiad	R	-	C	-	O	A	-	-	C	-	O	-	-	R	P			
<i>Nitella</i> sp.	Brittlewort	-	-	-	-	-	-	-	-	-	-	-	P	A	-	-			
<i>Potamogeton amplifolius</i>	Large-leaf pondweed	-	-	-	-	-	-	-	-	-	R	-	-	-	-	-			
<i>Potamogeton robbinsii</i>	Robbins pondweed	-	O	-	-	-	-	O	P	O	-	O	O	P	R	-			
<i>Sparganium</i> sp.	Bur-reed	-	-	-	-	-	-	-	-	R	-	-	-	-	-	-			
<i>Utricularia purpurea</i>	Purple bladderwort	-	O	R	-	R	O	-	-	-	R	O	R	O	-	O			
<i>Utricularia vulgaris</i>	Common bladderwort	-	-	-	-	-	-	R	-	-	-	-	-	-	-	-			

Rainbow Lake Narrows		Rake Toss Numbers									
Scientific Name	Common Name	1	2	3	4	6	10	14	18		
<i>Elodea canadensis</i>	Canadian waterweed	-	-	-	-	-	-	P	-		
<i>Elodea nuttalia</i>	Western waterweed	-	-	-	-	R	R	-	-		
<i>Najas</i> sp.	Water naiad	A	A	R	A	-	R	A	O		
<i>Potamogeton amplifolius</i>	Large-leaf pondweed	-	-	-	-	-	-	R	-		
<i>Vallisneria americana</i>	Eel-grass	-	-	-	-	-	-	-	R		

No rakes returned with plant materials during the aquatic plant survey of Clear Pond (Rainbow Lake)
23-August-2012