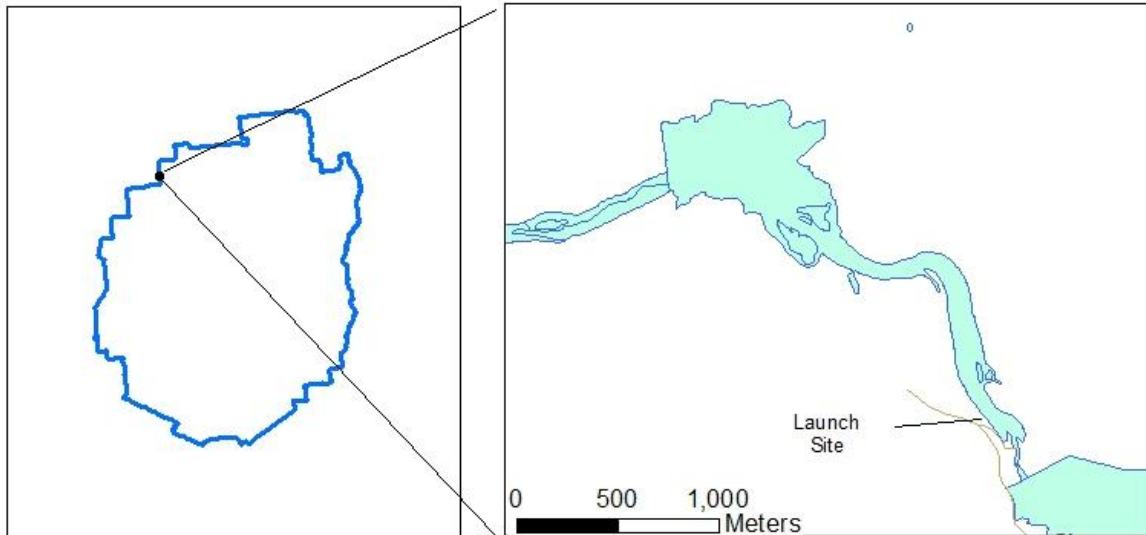


## Five Falls Reservoir Aquatic Plant Survey 2012



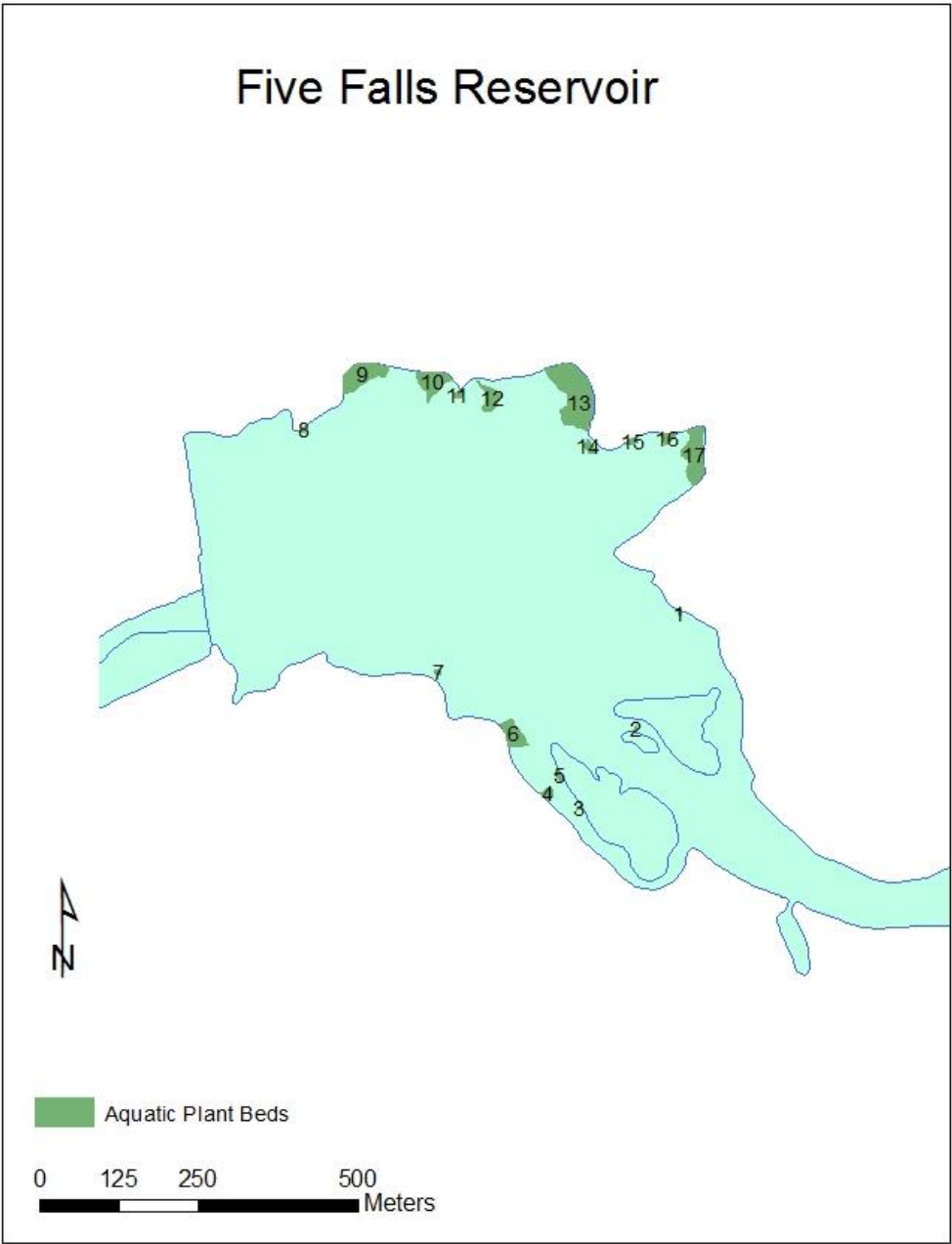
Map 36: Location of Five Falls Reservoir.

Five Falls Reservoir is located in the town of Colton in St. Lawrence County, New York (Map 36). The 107 acre reservoir was accessed by a hardtop DEC boat launch on the southern shore. The launch can be found on the Raquette River Road off from State Route 56, approximately 6 miles south of South Colton and 12.6 miles north of the intersection of 56 and State Route 3.

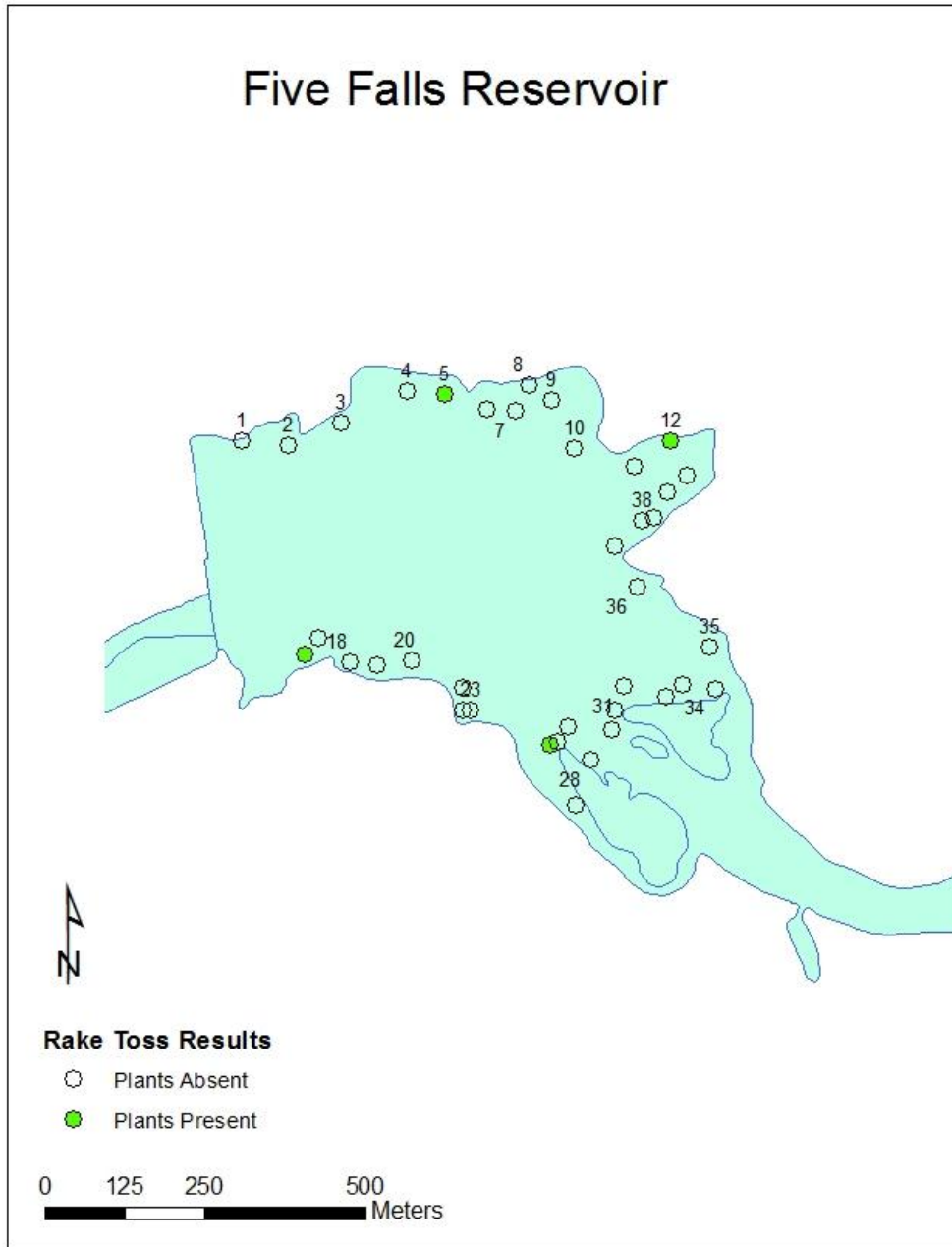
An aquatic plant survey of Five Falls Reservoir was conducted on 27-June-2012. Twoleaf or Variable-leaf watermilfoil (*Myriophyllum heterophyllum*) was detected during this survey (Map 39). The range in which this plant is deemed native or non-native is under debate and in some states this plant is classified as invasive. Aquatic plant coverage in Five Falls Reservoir was relatively low, comprised of 17 plant beds that collectively covered 3.7 acres or 3.4% of the surface area of the lake (Map 37). Nine different aquatic species were identified during this survey. Ribbon-leaf pondweed (*Potamogeton epihydri*), and Bur-reed (*Sparganium sp.*) were the most common species detected. Purple bladderwort (*Utricularia purpurea*) was the only species found that could easily be confused as an invasive species (Table 25).

Of the 38 rake tosses spaced throughout the littoral zone of the lake (Map 38), 4 rakes had acquired plants upon recovery (10.5%). Purple bladderwort was the only species recovered on a rake that was not detected during the surface survey (Table 26).

Variable-leaf watermilfoil in Five Falls Reservoir was detected in 4 beds which covered 2.1 acres. This was 2.0% of the surface area of the reservoir and 56.8% of the total aquatic plant coverage in the reservoir (Map 39 & Table 27).

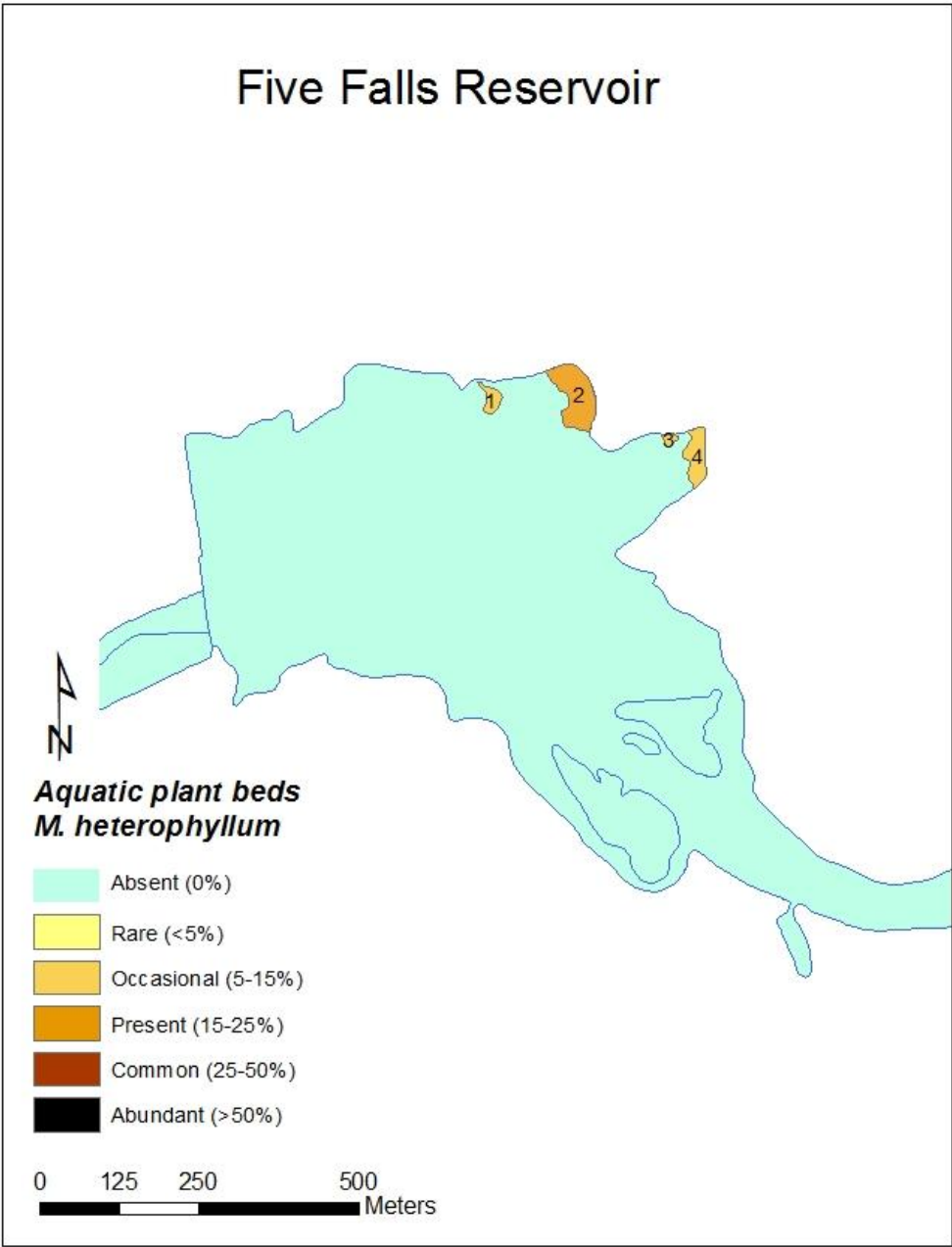


Map 37: Location of the aquatic plant beds detected in Five Falls Reservoir during the surface survey performed on 27 June, 2012. Data for Plant Beds can be found on Table 25.



Map 38: Rake toss locations on Five Falls Reservoir, 27 June, 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 26.



Map 39: Location of *Myriophyllum heterophyllum* beds detected in Five Falls Reservoir during the surface survey performed on 27 June, 2012. Data for *M. heterophyllum* beds can be found on Table 27.

Table 25: Percent cover of aquatic plant species detected at each plant bed in Five Falls Reservoir. Refer to Map 37 for bed locations. A = Abundant (<50% cover), C = Common (25-50%), P = Present (15-25%), O = Occasional (5-15%), and R = Rare (<5%).

Five Falls Reservoir		Plant Bed Numbers																	
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
<b>Scientific Name</b>	<b>Common Name</b>	<b>AREA (M<sup>2</sup>)</b>	64	49	69	280	148	1186	84	116	2071	1530	208	905	4920	279	202	315	2409
<i>Eriocaulon sp.</i>	Pipewort		-	-	A	O	C	P	-	-	O	-	-	-	-	-	-	-	-
<i>Lobelia dortmanna</i>	Water lobelia		-	-	-	-	-	-	-	-	R	-	-	-	-	-	-	-	-
<i>Myriophyllum heterophyllum</i>	Twoleaf watermilfoil		-	-	-	-	-	-	-	-	-	-	-	O	P	-	-	O	O
<i>Potamogeton amplifolius</i>	Large-leaf pondweed		C	-	-	-	-	-	-	-	O	P	-	R	O	O	-	O	R
<i>Potamogeton epihydrus</i>	Ribbon-leaf pondweed		A	C	-	A	R	-	P	-	O	-	-	O	P	O	-	O	O
<i>Sagittaria graminea</i>	Grassy arrowhead		-	-	C	-	R	-	R	-	O	-	-	-	-	-	-	-	-
<i>Sparganium sp.</i>	Bur-reed		-	-	O	P	-	A	A	O	O	P	P	C	P	O	P	O	O
<i>Vallisneria americana</i>	Eel-grass		-	-	-	-	R	-	-	-	-	-	-	-	-	-	-	-	-

Table 26: Species present on the rake at each of the rake toss locations and abundance. Refer to Map 38 for Rake locations.

Five Falls Reservoir		Rake Toss Numbers			
<b>Scientific Name</b>	<b>Common Name</b>	5	12	16	24
<i>Myriophyllum heterophyllum</i>	Twoleaf watermilfoil	-	R	-	-
<i>Sagittaria graminea</i>	Grassy arrowhead	-	-	R	-
<i>Sparganium sp.</i>	Bur-reed	O	-	-	-
<i>Utricularia purpurea</i>	Purple bladderwort	-	-	O	R

Table 27: Percent cover of *Myriophyllum heterophyllum* detected at each plant bed in Five Falls Reservoir. Refer to Map 39 for *M. heterophyllum* locations. A = Abundant (<50% cover), C = Common (25-50%), P = Present (15-25%), O = Occasional (5-15%), and R = Rare (<5%).

Five Falls Reservoir		Plant Bed Numbers				
			1	2	3	4
<i>Scientific Name</i>	Common Name	AREA (M <sup>2</sup> )	905	4920	315	2409
<i>Myriophyllum heterophyllum</i>	Twoleaf watermilfoil		O	P	O	O