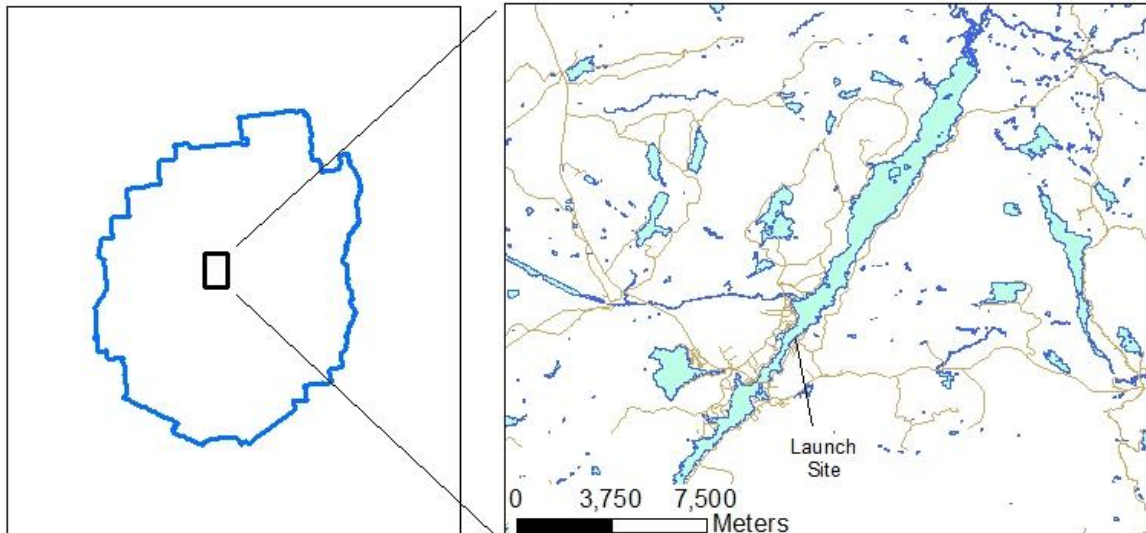


Long Lake Aquatic Plant Survey 2012



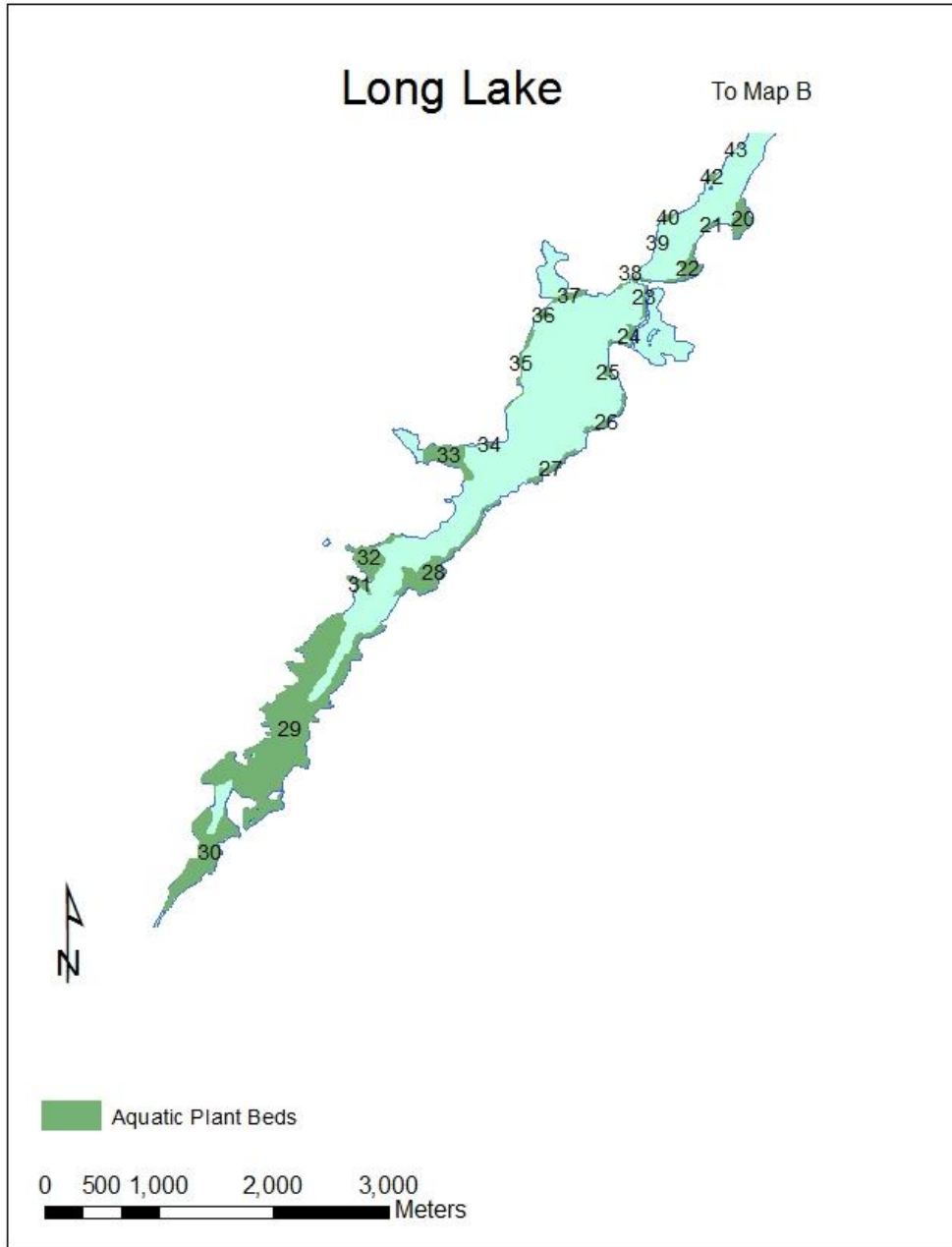
Map 47: Location of Long Lake.

Long Lake is located in the town of Long Lake in Hamilton County, New York (Map 47). The 3904 acre lake was accessed by a hardtop DEC boat launch on the south-eastern shore. The launch is located on Tarbell Road, roughly 1.5 miles down State Route 28 from its intersection with State Route 30.

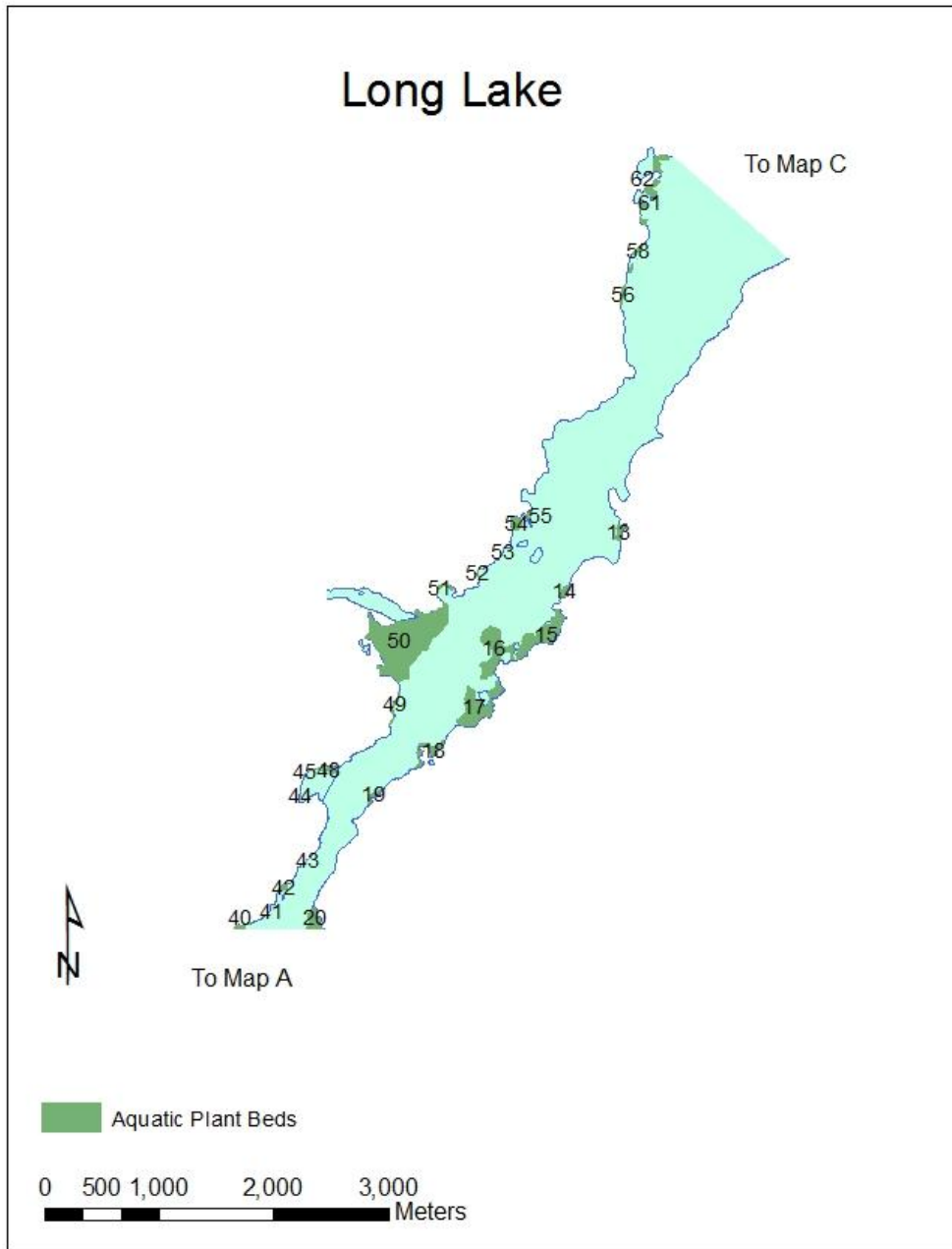
An aquatic plant survey of Long- Lake was conducted on 16-July-2012. Both Twoleaf or Variable-leaf watermilfoil (*Myriophyllum heterophyllum*) and Little floating heart (*Nymphoides cordata*) were detected during this survey. Variable-leaf watermilfoil is sometimes deemed invasive, Little floating heart is a species of concern. Aquatic plant coverage in Long Lake was moderate, comprised of 83 aquatic plant beds that collectively covered 530 acres or 13.6% of the surface area of the lake (Map 48). Twenty-four different aquatic species were identified during this survey. Common species of this lake included Ribbon leaf pondweed (*Potamogeton epihydri*), Claspingleaf pondweed (*P. perfoliatus*), Bur-reed (*Sparganium* sp.) and White waterlily (*Nymphaea odorata*). Purple bladderwort (*Utricularia purpurea*), Flatleaf bladderwort (*U. intermedia*), Common bladderwort (*U. vulgaris*), and Coontail (*Ceratophyllum* sp.) could all be confused with invasive species (Table 33).

Of the 169 rake tosses spaced throughout the littoral zone of the lake (Map 49), 62 rakes had acquired plants upon recovery (37%). Robbins pondweed (*P. robbinsii*) and Flatleaf bladderwort were species brought up on the rakes that were not detected in the surface survey (Table 34).

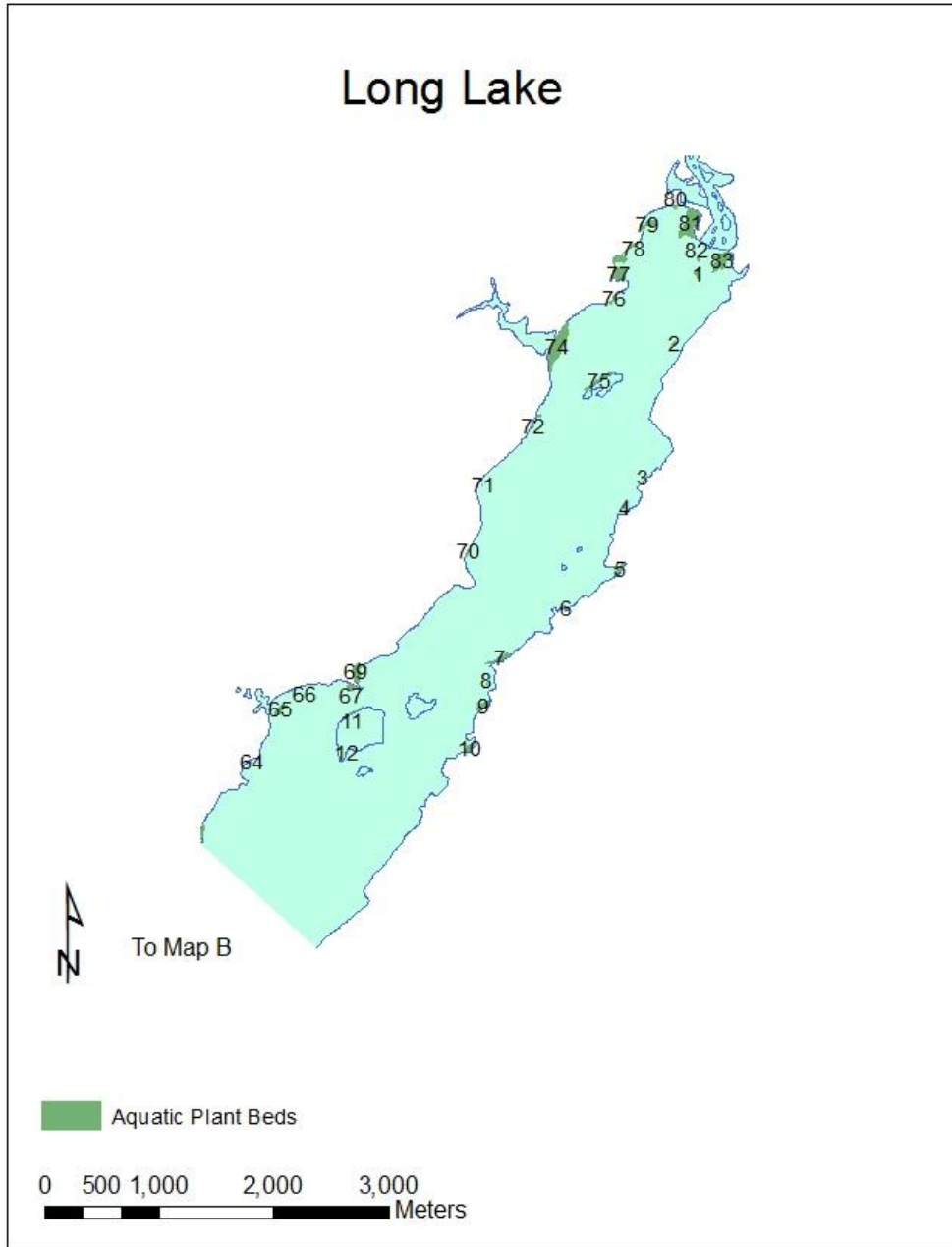
Variable-leaf watermilfoil in Long Lake was found in 22 beds that covered 377 acres. This was 9.7% of the surface area of Long Lake and 71.1% of the total aquatic plant coverage in the lake (Map 50 & Table 35). Little floating heart in Long Lake was found in 19 beds that covered 354 acres. This was 9.1% of the surface area of Long Lake and 66.8% of the total aquatic plant coverage in the lake (Map 51 & Table 36)



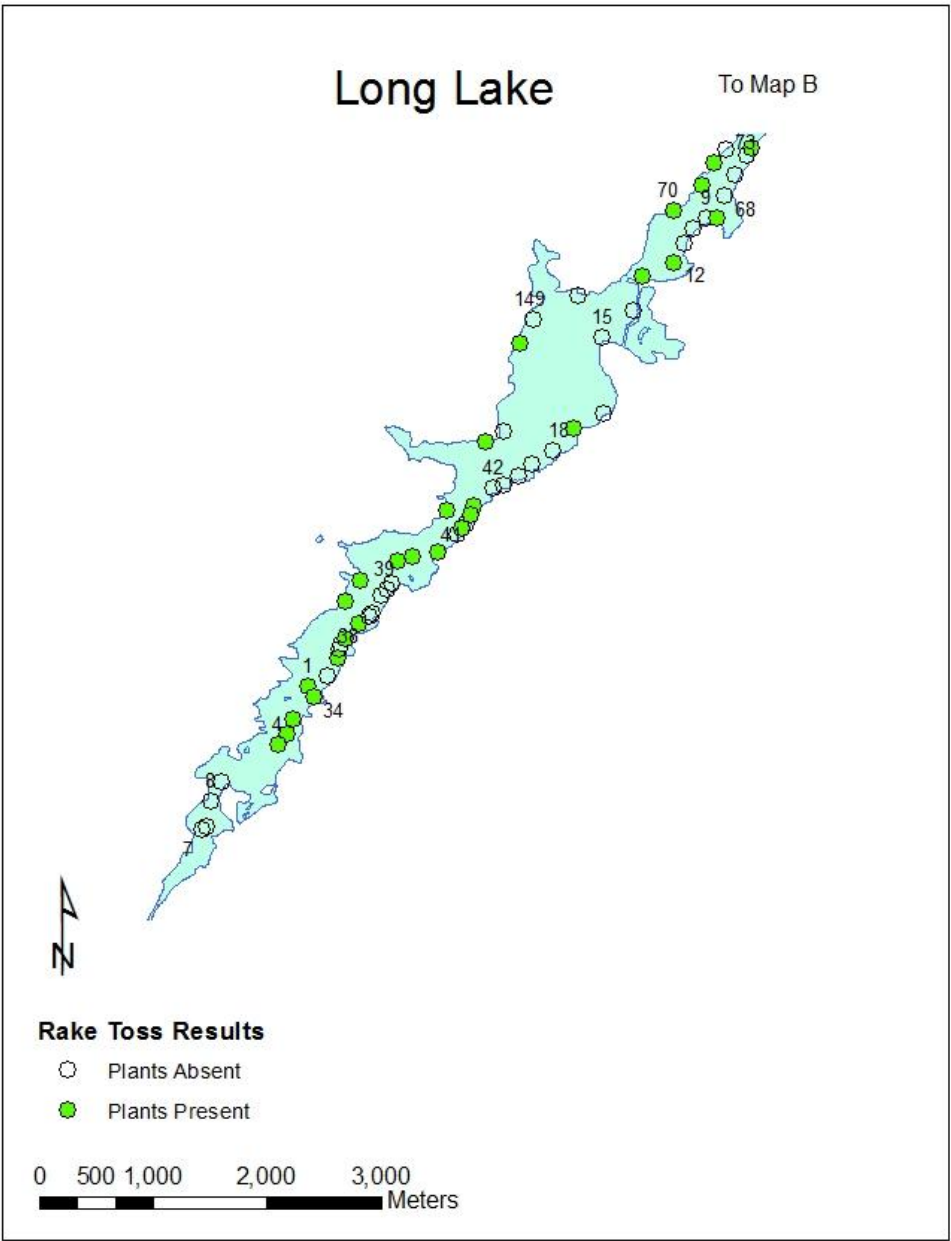
Map 48A: Location of the aquatic plant beds detected in Long Lake during the surface survey performed on 16 July, 2012.
Data for Plant Beds can be found on Table 33.



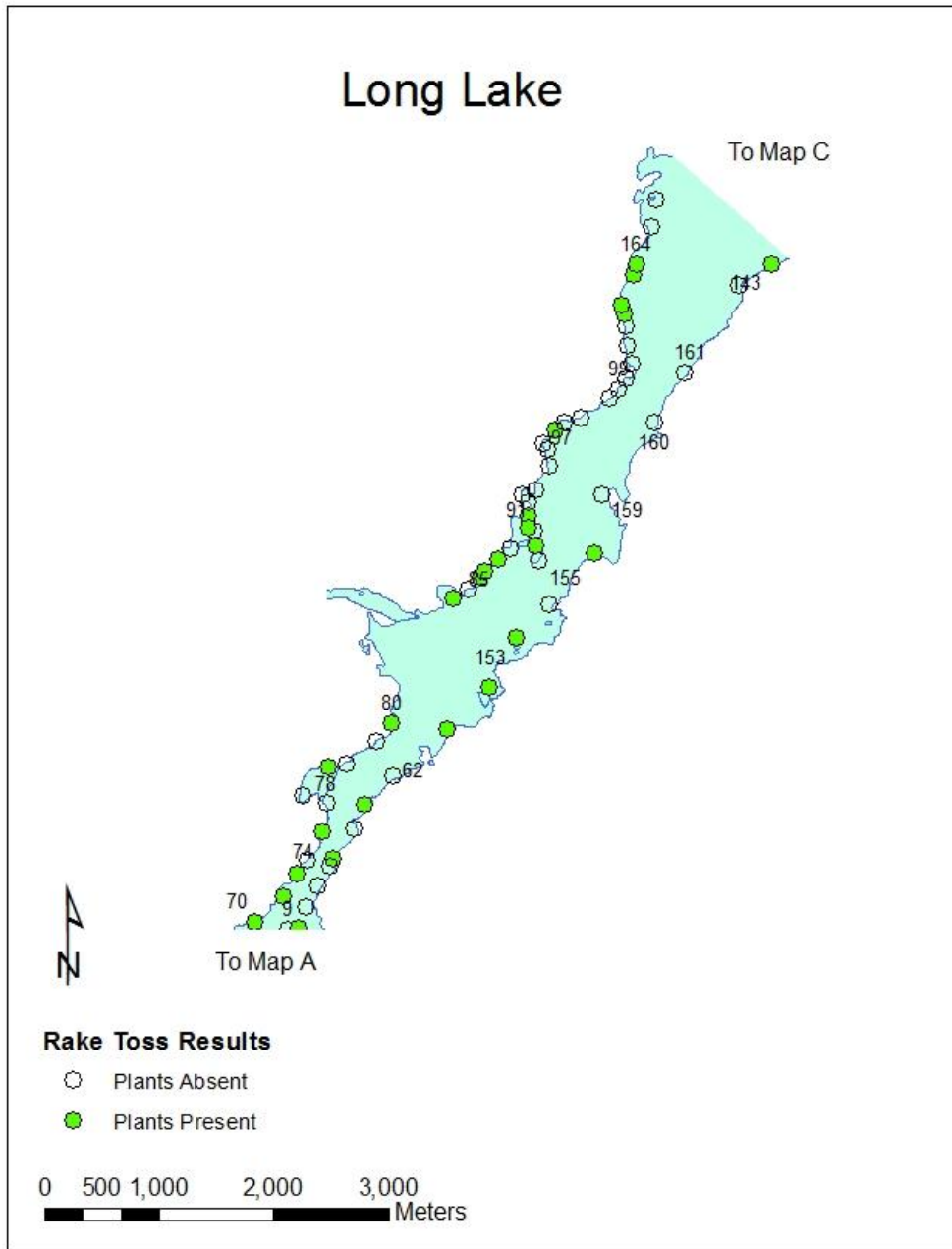
Map 48B: Location of the aquatic plant beds detected in Long Lake during the surface survey performed on 16 July, 2012.
 Data for Plant Beds can be found on Table 33.



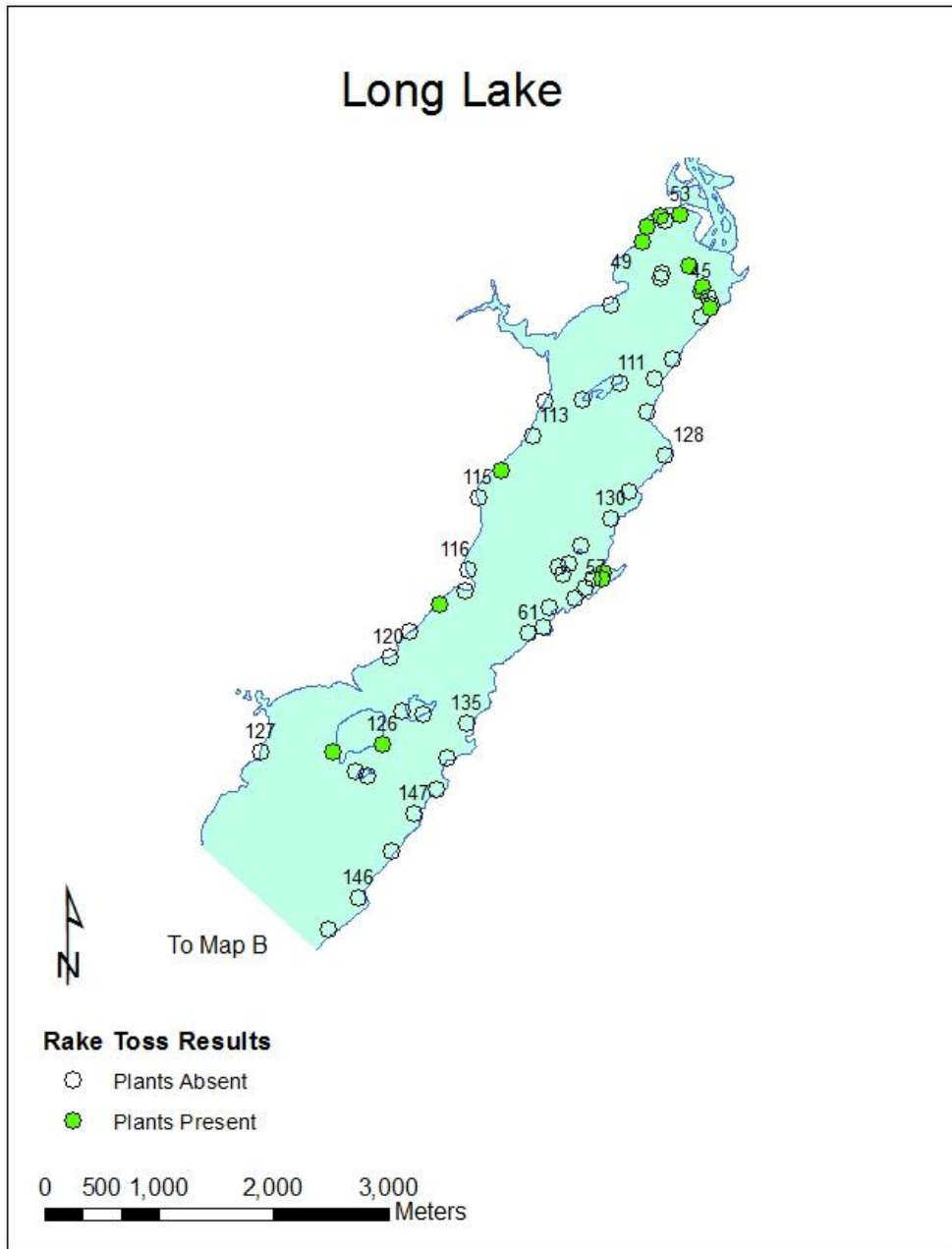
Map 48C: Location of the aquatic plant beds detected in Long Lake during the surface survey performed on 16 July, 2012.
 Data for Plant Beds can be found on Table 33.



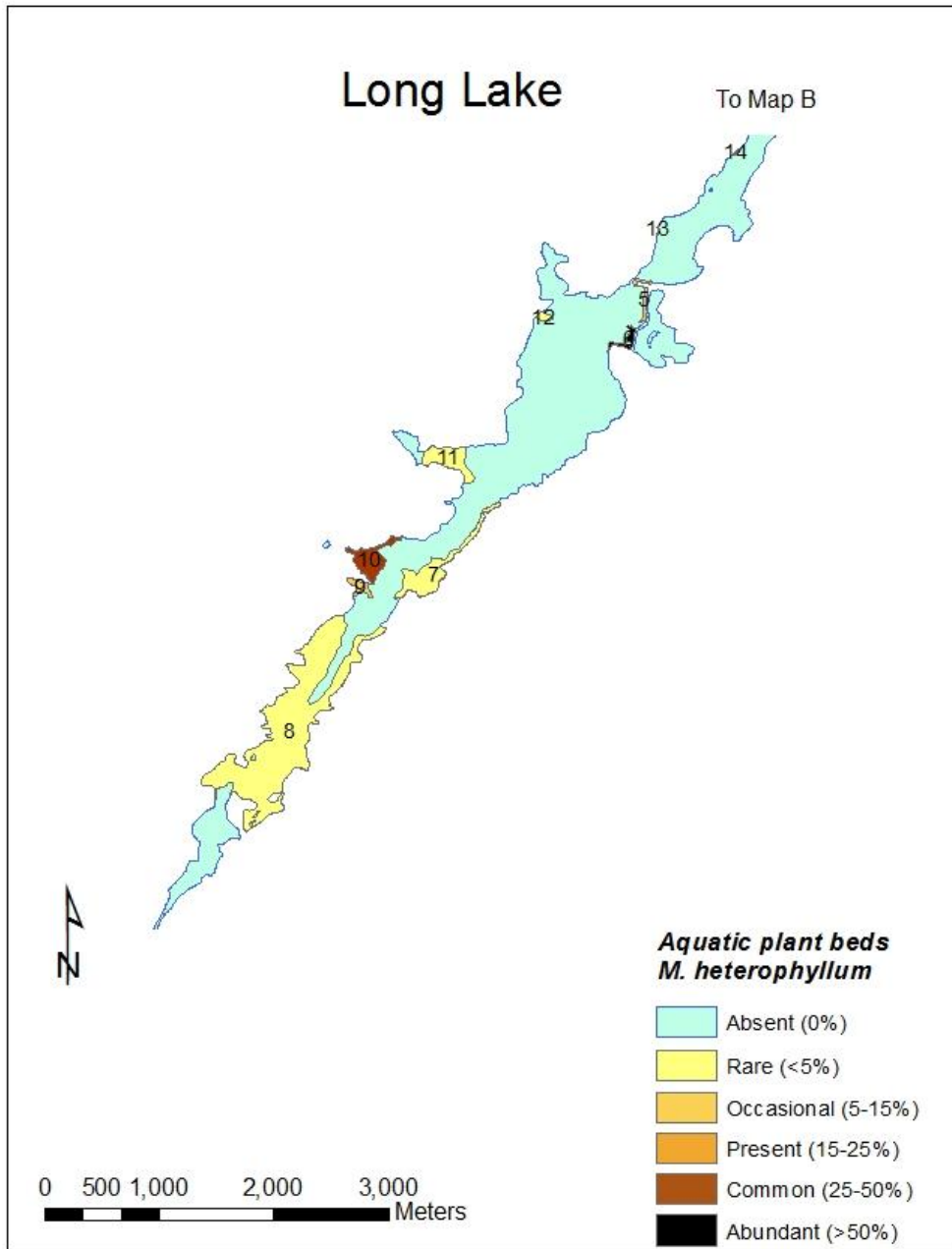
Map 49A: Rake toss locations on Long Lake, 16 July, 2012. Open circles represent locations where no plants were detected, closed circles represent locations where plants were encountered on the rake. Data for Rake Tosses can be found on Table 34.



Map 49B: Rake toss locations on Long Lake, 16 July, 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 34.

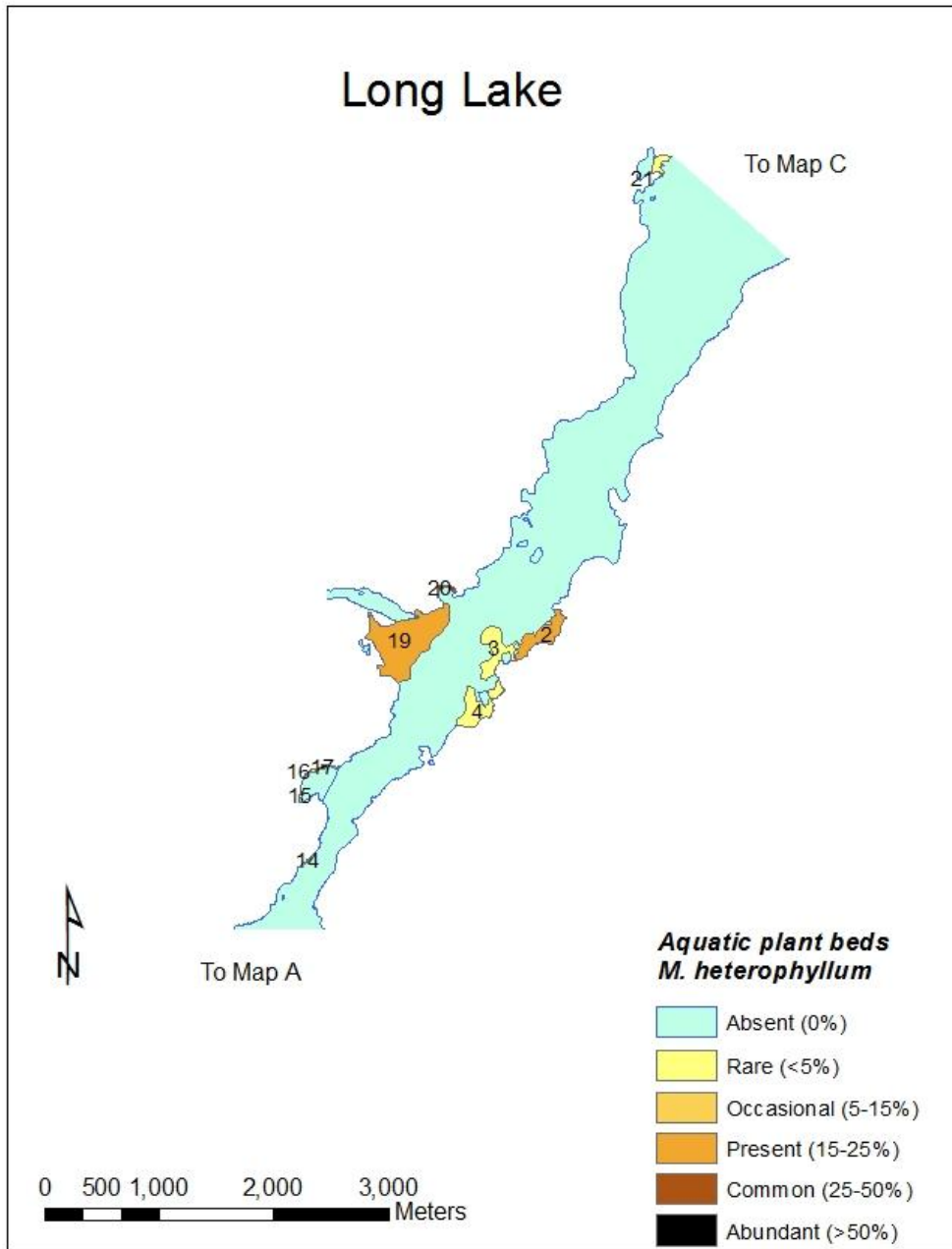


Map 49C: Rake toss locations on Long Lake, 16 July, 2012. Open circles represent locations where no plants were detected, closed circles represent locations where plants were encountered on the rake. Data for Rake Tosses can be found on Table 34.



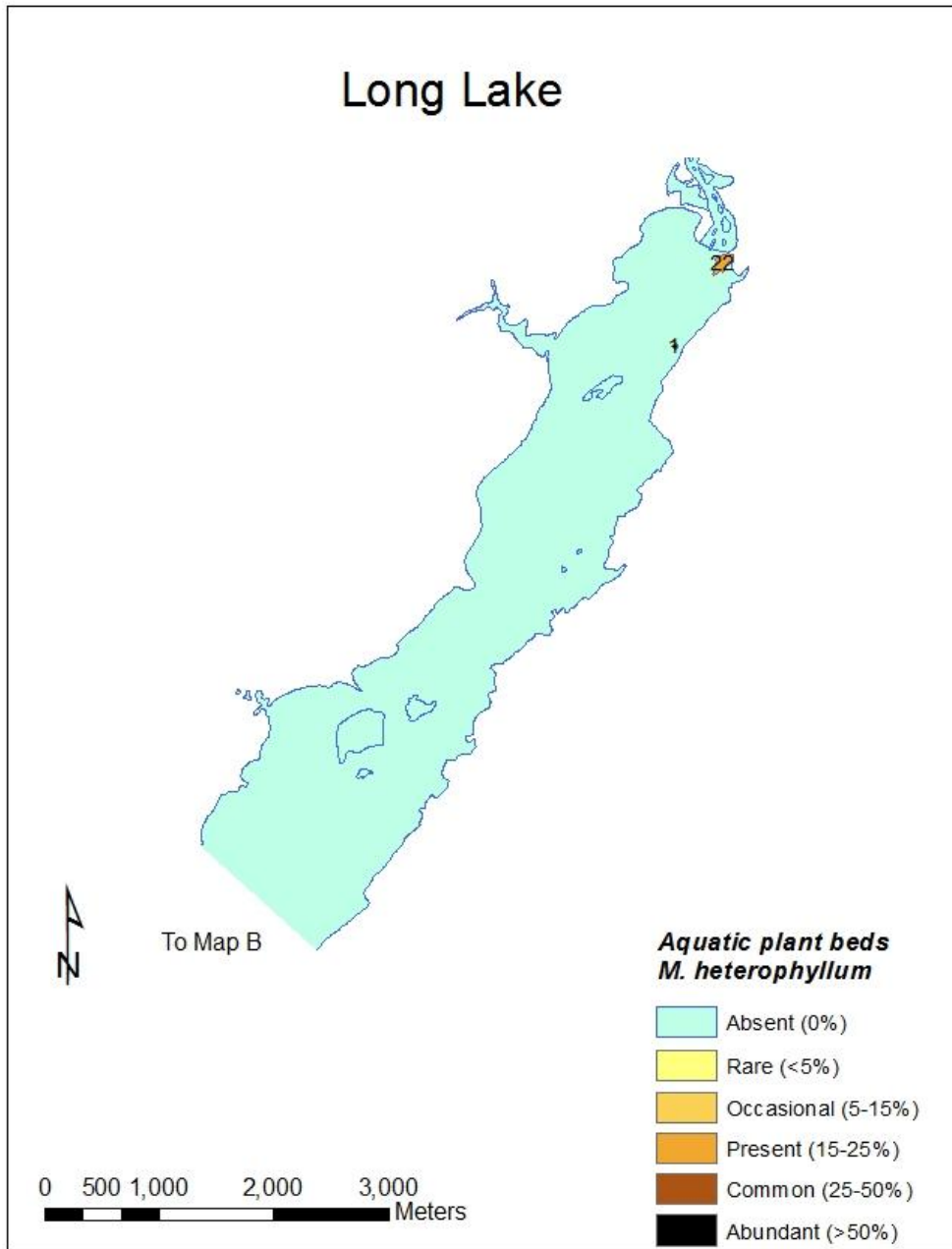
Map 50A: Location of *Myriophyllum heterophyllum* beds detected in Long Lake during the surface survey performed on 16 July, 2012.

Data for *M. heterophyllum* Beds can be found on Table 35.



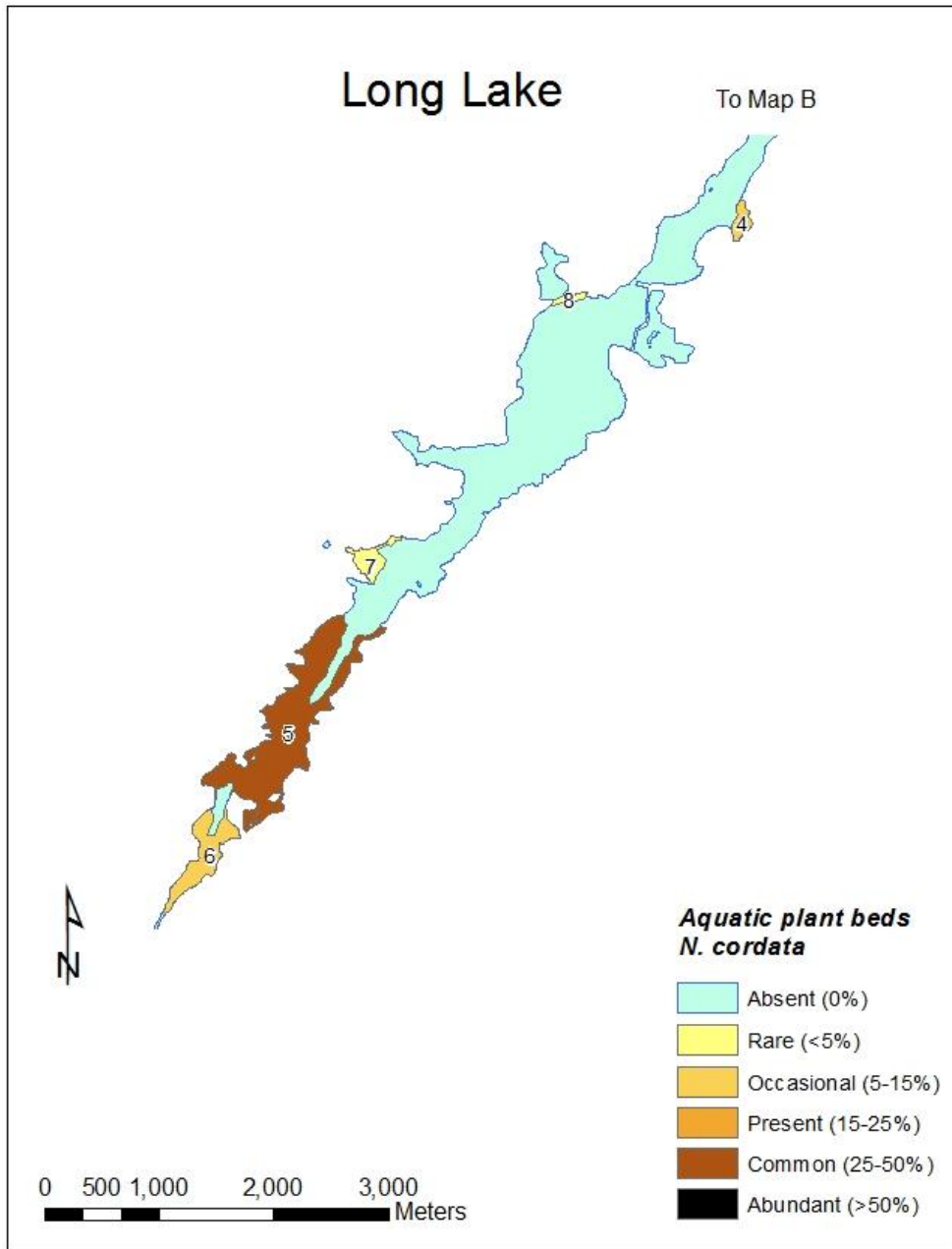
Map 50B: Location of *Myriophyllum heterophyllum* beds detected in Long Lake during the surface survey performed on 16 July, 2012.

Data for *M. heterophyllum* Beds can be found on Table 35.



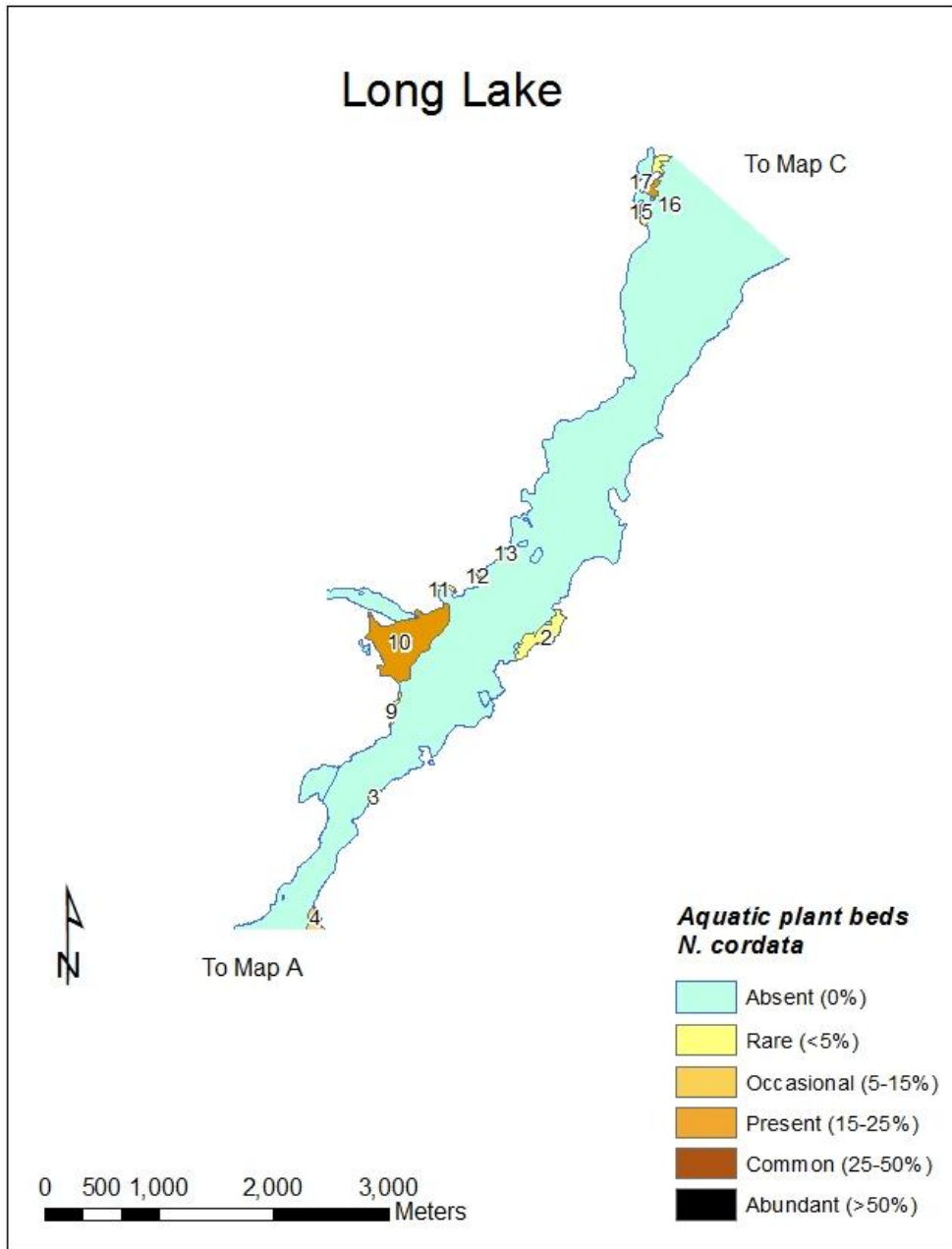
Map 50C: Location of *Myriophyllum heterophyllum* beds detected in Long Lake during the surface survey performed on 16 July, 2012.

Data for *M. heterophyllum* Beds can be found on Table 35.



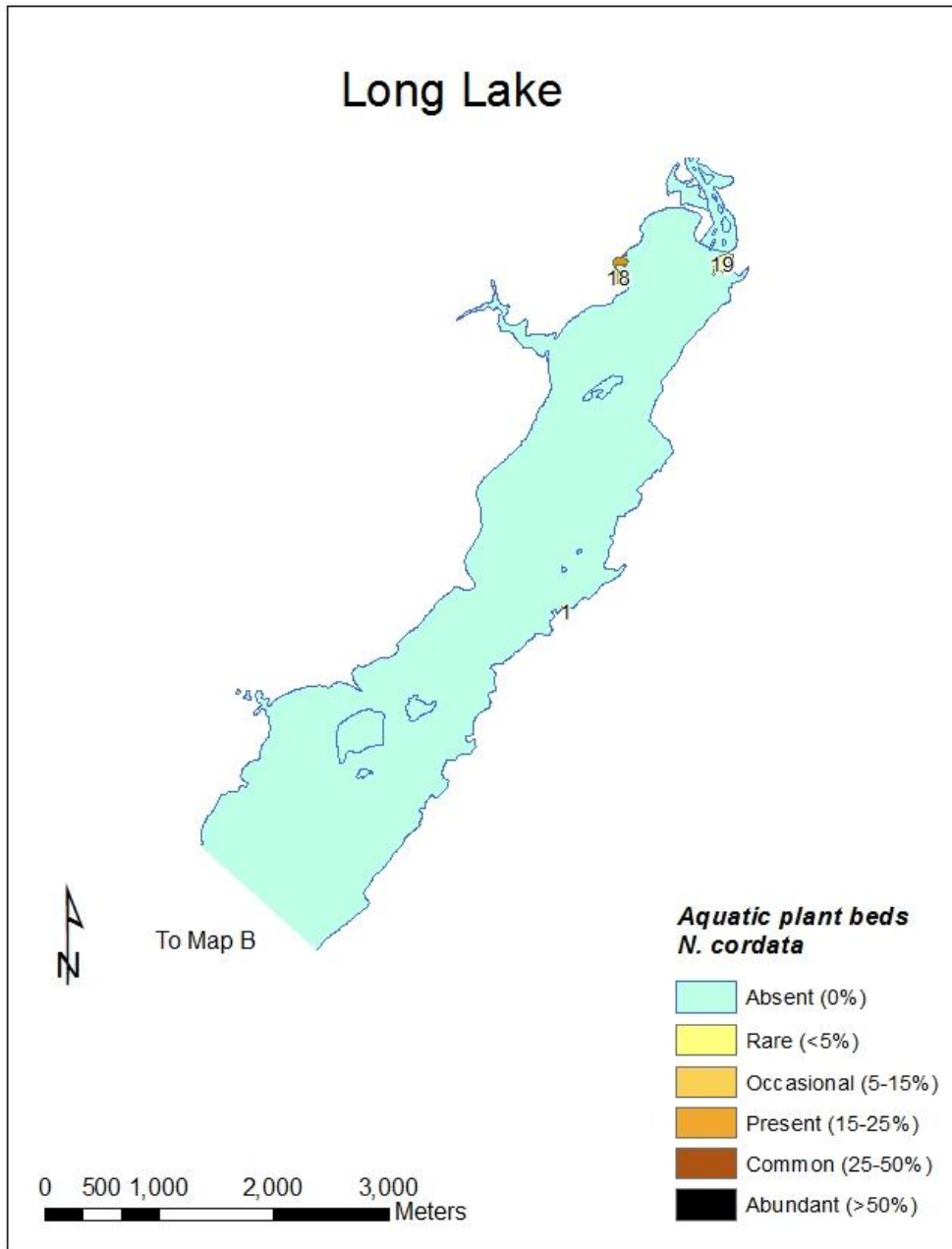
Map 51A: Location of *Nymphoides cordata* beds detected in Long Lake during the surface survey performed on 16 July, 2012.

Data for *N. cordata* Beds can be found on Table 36.



Map 51B: Location of *Nymphoides cordata* beds detected in Long Lake during the surface survey performed on 16 July, 2012.

Data for *N. cordata* Beds can be found on Table 36.



Map 51C: Location of *Nymphoides cordata* beds detected in Long Lake during the surface survey performed on 16 July, 2012.
Data for *N. cordata* Beds can be found on Table 36.

Table 33: Percent cover of aquatic plant species detected at each plant bed in Long Lake. Refer to Map 48 series for bed locations. A = Abundant (<50% cover), C = Common (25-50%), P = Present (15-25%), O = Occasional (5-15%), and R = Rare (<5%).

Long Lake			Plant Bed Numbers																												
Scientific Name	Common Name	AREA (M ²)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	
<i>Brasenia schreberi</i>	Water shield	5038	-	-	-	-	-	-	-	-	R	-	-	-	-	-	P	-	C	O	C	O	-	R	-	R	-	-	R	R	
<i>Ceratophyllum sp.</i>	Coontail	-	-	-	-	-	P	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Eleocharis sp.</i>	Hairgrass	-	-	-	-	-	P	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	C	-	-	-	P	-	-	R	R
<i>Eriocaulon sp.</i>	Pipewort	-	R	-	-	-	O	A	R	P	P	P	O	-	-	-	-	-	-	R	-	-	-	-	R	-	-	-	-	-	
<i>Labelia dortmannia</i>	Water lobelia	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Myriophyllum heterophyllum</i>	Twoleaf watermilfoil	-	-	A	-	-	-	-	-	-	-	-	-	-	-	-	P	R	R	-	-	-	-	-	-	O	A	-	-	-	R
<i>Nitella sp.</i>	Brittlewort	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Nuphar variegata</i>	Spatterdock	-	R	-	-	-	R	-	-	O	-	R	-	A	-	-	R	-	-	-	-	R	R	R	R	R	R	-	R	R	R
<i>Nymphaea odorata</i>	White waterlily	-	C	-	-	-	-	O	-	R	R	-	-	-	R	O	O	R	O	C	O	A	R	O	R	R	R	R	R	R	R
<i>Nymphaoides cordata</i>	Little floatingheart	-	-	-	-	-	-	R	-	-	-	-	-	-	-	-	R	-	-	-	-	P	O	-	-	-	-	-	-	-	-
<i>Potamogeton amplifolius</i>	Large-leaf pondweed	-	O	-	-	-	-	-	-	-	-	-	-	-	O	C	R	C	P	R	O	O	-	R	O	-	O	-	-	-	-
<i>Potamogeton ephedrus</i>	Ribbon-leaf pondweed	-	R	-	P	R	-	O	O	C	-	C	P	R	O	R	O	P	C	R	P	O	P	O	R	R	R	R	R	P	R
<i>Potamogeton gramineus</i>	Variable-leaf pondweed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Potamogeton natans</i>	Floating pondweed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Potamogeton perfoliatus</i>	Clasping-leaf pondweed	-	P	-	-	-	-	-	-	-	P	-	-	-	P	R	O	-	O	R	O	P	R	R	R	R	R	R	-	R	R
<i>Potamogeton prealungus</i>	White-stem pondweed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Potamogeton pusillus</i>	Small pondweed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Sagittaria graminea</i>	Grassy arrowhead	-	-	-	-	-	-	-	-	O	R	O	-	-	-	-	R	-	R	R	-	-	-	-	-	-	-	-	-	-	-
<i>Sparganium sp.</i>	Bur-reed	-	-	-	-	O	-	-	-	P	R	-	-	-	R	O	R	-	R	O	P	O	R	R	R	R	-	R	R	R	R
<i>Utricularia purpurea</i>	Purple bladderwort	-	R	-	-	-	-	-	-	-	-	-	-	-	-	-	R	-	R	R	-	-	-	-	-	-	-	-	-	-	-
<i>Utricularia vulgaris</i>	Common bladderwort	-	-	-	-	-	-	R	-	-	-	-	-	-	-	-	-	-	-	R	-	R	-	-	-	-	-	-	-	-	-
<i>Vallisneria americana</i>	Eel-grass	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	O	-	-	R	-	-	-	-	-	-	-	-	-	-	-

			Plant Bed Numbers																												
Scientific Name	Common Name	AREA (M ²)	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	
<i>Brasenia schreberi</i>	Water shield	734920	O	C	-	-	R	-	R	R	17155	4864	750	6153	80	4859	1038	1150	1752	2178	621	4954	6548	247806	4660	1652	1139	11366	2351	5431	
<i>Ceratophyllum sp.</i>	Coontail	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Eleocharis sp.</i>	Hairgrass	-	C	P	C	P	C	-	R	-	P	O	-	-	-	P	-	-	-	-	-	-	-	P	O	-	-	-	-	-	
<i>Eriocaulon sp.</i>	Pipewort	-	-	-	-	-	R	-	R	-	R	R	-	-	-	R	-	-	-	-	-	-	-	-	-	-	-	-	-	-	P
<i>Labelia dortmannia</i>	Water lobelia	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	R
<i>Myriophyllum heterophyllum</i>	Twoleaf watermilfoil	-	R	-	O	C	R	-	-	R	-	-	R	-	-	O	R	R	A	P	-	-	-	P	C	-	-	-	-	-	
<i>Nitella sp.</i>	Brittlewort	-	R	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Nuphar variegata</i>	Spatterdock	-	R	O	-	O	-	R	-	-	R	R	-	R	-	R	-	-	-	O	-	-	-	P	-	-	-	P	-	O	P
<i>Nymphaea odorata</i>	White waterlily	-	A	A	O	A	C	R	P	P	P	-	C	C	R	A	-	A	-	-	-	-	P	P	P	O	P	A	-	-	
<i>Nymphaoides cordata</i>	Little floatingheart	-	C	O	-	R	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	R	P	R	O	O	-	-	
<i>Potamogeton amplifolius</i>	Large-leaf pondweed	-	R	-	-	-	P	R	O	O	-	O	C	-	-	P	-	-	-	O	O	A	-	P	-	-	-	-	O	-	-
<i>Potamogeton ephedrus</i>	Ribbon-leaf pondweed	-	R	O	R	P	R	C	O	P	O	P	O	-	R	P	P	P	O	-	-	-	P	P	O	P	R	O	-	P	
<i>Potamogeton gramineus</i>	Variable-leaf pondweed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	R
<i>Potamogeton natans</i>	Floating pondweed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Potamogeton perfoliatus</i>	Clasping-leaf pondweed	-	P	R	R	P	R	P	R	R	R	R	P	R	P	-	P	P	O	-	P	-	P	-	O	P	-	O	-	-	
<i>Potamogeton prealungus</i>	White-stem pondweed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Potamogeton pusillus</i>	Small pondweed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	R	O	P	O	-	-	-	O	-	-	-	-	-	
<i>Sagittaria graminea</i>	Grassy arrowhead	-	O	R	R	R	-	-	-	-	-	-	-	-	-	R	O	R	-	-	-	-	-	R	-	-	-	-	-	-	R
<i>Sparganium sp.</i>	Bur-reed	-	P	O	-	O	R	-	-	-	R	-	P	R	-	O	O	-	C	-	-	-	-	P	R	O	-	O	-	O	
<i>Utricularia purpurea</i>	Purple bladderwort	-	A	R	R	R	-	-	-	-	-	R	-	-	-	-	-	-	-	-	-	-	-	-	P	-	-	-	P	-	-
<i>Utricularia vulgaris</i>	Common bladderwort	-	C	-	R	-	R	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Vallisneria americana</i>	Eel-grass	-	O	-	-	-	-	-	-	-	R	-	O	-	-	-	-	O	-	-	-	-	-	-	-	-	-	-	-	-	-

			Plant Bed Numbers																										
			57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83
Scientific Name	Common Name	AREA (M ²)	2402	3674	3234	4435	11820	14642	3760	493	5100	461	3997	575	11695	1764	286	758	736	37270	7158	2777	19595	2177	7358	1271	29198	1194	17997
<i>Brasenia schreberi</i>	Water shield		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	R	-	-	-	R	-	-	-	-
<i>Ceratophyllum sp.</i>	Coontail		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Eleocharis sp.</i>	Hairgrass		-	-	-	-	-	-	-	-	-	-	-	O	R	-	O	-	-	-	R	-	-	O	-	-	-	-	R
<i>Eriocaulon sp.</i>	Pipewort		-	-	R	-	O	-	R	-	-	-	C	-	-	O	-	A	-	C	A	A	O	P	-	C	P	-	A
<i>Labelia dortmanna</i>	Water labelia		-	-	R	R	-	R	-	-	R	-	-	-	-	-	-	-	R	-	-	R	-	-	O	-	-	-	-
<i>Myriophyllum heterophyllum</i>	Twoteaf watermilfoil		-	-	-	-	-	R	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	P
<i>Nitella sp.</i>	Brittlewort		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Nuphar variegata</i>	Spatterdock		O	C	P	P	C	P	P	A	A	A	-	A	C	C	A	-	P	P	R	-	-	-	R	-	R	-	P
<i>Nymphaea odorata</i>	White waterlily		-	-	R	O	-	-	-	-	-	-	-	-	R	-	-	-	-	P	R	-	C	P	A	R	A	A	R
<i>Nymphoides cordata</i>	Little floatingheart		-	-	R	O	P	R	-	-	-	-	-	-	-	-	-	-	-	-	-	-	P	-	-	-	-	-	R
<i>Potamogeton amplifolius</i>	Large-leaf pondweed		-	-	-	-	P	-	-	-	-	-	-	-	-	R	-	-	-	-	-	-	-	-	-	-	-	-	R
<i>Potamogeton epihydrus</i>	Ribbon-leaf pondweed		P	C	R	O	O	R	-	-	-	-	P	O	O	R	-	-	O	C	P	R	R	-	-	-	R	-	P
<i>Potamogeton gramineus</i>	Variable-leaf pondweed		-	-	-	-	-	R	-	-	-	-	-	-	-	-	-	-	-	R	-	-	-	-	-	-	-	-	-
<i>Potamogeton natans</i>	Floating pondweed		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	R	-	-	-	-	-	P	-	-	-
<i>Potamogeton perfoliatus</i>	Clasping-leaf pondweed		P	-	-	C	R	R	-	-	-	-	-	C	P	-	-	-	C	C	-	-	O	-	R	-	O	-	P
<i>Potamogeton prealonus</i>	White-stem pondweed		-	-	-	-	-	-	-	-	-	-	-	-	P	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Potamogeton pusillus</i>	Small pondweed		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Sagittaria graminea</i>	Grassy arrowhead		-	-	-	R	-	-	-	-	-	-	-	-	-	-	-	-	-	O	R	-	R	-	-	-	-	-	-
<i>Sparganium sp.</i>	Bur-reed		-	-	R	C	-	-	O	-	-	-	P	-	O	-	-	-	-	R	-	-	-	-	-	-	-	-	P
<i>Utricularia purpurea</i>	Purple bladderwort		-	-	-	-	-	-	-	-	-	-	-	-	R	-	-	-	-	-	-	-	P	-	-	-	-	R	O
<i>Utricularia vulgaris</i>	Common bladderwort		-	-	-	-	-	-	R	-	R	-	R	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Vallisneria americana</i>	Eel-grass		-	-	-	R	-	-	-	-	-	-	-	-	-	-	-	-	-	R	-	-	R	R	-	-	-	-	-

Table 34: Species present on the rake at each of the rake toss locations and abundance. Refer to Map 49 series for Rake locations.

Long Lake		Rake Toss Numbers																														
Scientific Name	Common Name	1	2	3	4	12	13	17	22	25	26	27	31	34	35	37	40	41	45	49	50	51	53	54	55	63	65	69	70	71	72	74
<i>Ceratophyllum sp.</i>	Coontail	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	R	-	-	-	-	-	-	-	
<i>Eleocharis sp.</i>	Hairgrass	-	-	-	-	-	-	R	R	-	-	-	-	-	-	-	-	-	-	-	C	O	R	-	-	-	-	-	-	-	-	
<i>Eriocaulon sp.</i>	Pipewort	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Nitella sp.</i>	Brittlewort	-	R	-	-	-	-	R	R	R	R	R	-	R	R	R	R	-	R	R	-	-	R	-	-	-	R	-	R	R	R	
<i>Nymphaea odorata</i>	White waterlily	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	R	-	-	-	-	
<i>Potamogeton epihydrus</i>	Ribbon-leaf pondweed	-	-	-	-	-	R	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Potamogeton perfoliatus</i>	Clasping-leaf pondweed	-	-	-	-	R	-	-	-	-	-	-	-	-	-	-	-	-	-	-	R	-	-	-	-	-	-	-	-	-	-	
<i>Potamogeton robbinsii</i>	Robbins pondweed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Sagittaria graminea</i>	Grassy arrowhead	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	R	-	-	-	-	-	-	-	-	
<i>Sparganium sp.</i>	Bur-reed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	R	-	R	-	-	R	-	-	-	-	-	-	-	-	-	
<i>Utricularia intermedia</i>	Flatleaf bladderwort	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	R	-	-	-	R	-	-	
<i>Utricularia purpurea</i>	Purple bladderwort	A	R	R	R	-	-	R	R	-	-	C	O	-	R	-	-	-	R	-	-	-	-	-	O	-	R	-	-	-		
<i>Utricularia vulgaris</i>	Common bladderwort	-	-	-	-	R	-	-	-	O	-	P	-	R	-	-	-	-	-	-	-	-	R	-	O	-	-	-	-	-	-	

		Rake Toss Numbers																															
Scientific Name	Common Name	77	80	81	83	84	85	88	95	104	105	106	114	118	125	126	138	139	141	143	148	151	152	153	156	157	158	164	166	167	168	169	
<i>Ceratophyllum sp.</i>	Coontail	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Eleocharis sp.</i>	Hairgrass	-	-	-	-	-	-	-	-	-	-	R	-	-	O	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
<i>Eriocaulon sp.</i>	Pipewort	-	-	-	-	-	-	-	R	-	-	R	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
<i>Nitella sp.</i>	Brittlewort	-	-	R	-	-	R	-	-	-	R	R	-	-	R	-	R	C	-	R	-	-	-	-	-	-	-	-	R	-	R	-	R
<i>Nymphaea odorata</i>	White waterlily	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
<i>Potamogeton epihydrus</i>	Ribbon-leaf pondweed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
<i>Potamogeton perfoliatus</i>	Clasping-leaf pondweed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
<i>Potamogeton robbinsii</i>	Robbins pondweed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	R	-	-	-	-	-	-	-	-		
<i>Sagittaria graminea</i>	Grassy arrowhead	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	R	-	-	-	-	
<i>Sparganium sp.</i>	Bur-reed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
<i>Utricularia intermedia</i>	Flatleaf bladderwort	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
<i>Utricularia purpurea</i>	Purple bladderwort	R	R	R	-	R	-	R	R	-	-	R	A	-	-	-	-	O	-	O	R	-	O	R	R	R	R	R	O	-	C	-	
<i>Utricularia vulgaris</i>	Common bladderwort	R	C	-	C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	P	-	-	-	-	-	-	-	C	R	

Table 35: Percent cover of *Myriophyllum heterophyllum* detected in Long Lake. Refer to Map 50 series for *M. heterophyllum* locations. A = Abundant (<50% cover), C = Common (25-50%), P = Present (15-25%), O = Occasional (5-15%), and R = Rare (<5%).

Long Lake			Plant Bed Numbers																					
Scientific Name	Common Name	AREA (M ²)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
<i>Myriophyllum heterophyllum</i>	Twoleaf watermilfoil		A	P	R	R	O	A	R	R	O	C	R	R	R	O	R	R	A	P	P	C	R	P

Table 36: Percent cover of *Nymphoides cordata* in Long Lake. Refer to Map 51 series for *N. cordata* locations. A = Abundant (<50% cover), C = Common (25-50%), P = Present (15-25%), O = Occasional (5-15%), and R = Rare (<5%).

Long Lake			Plant Bed Numbers																		
Scientific Name	Common Name	AREA (M ²)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
<i>Nymphoides cordata</i>	Little floatingheart		R	R	P	O	C	O	R	R	R	P	R	O	O	R	O	P	R	P	R