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August 7, 2024

Extraction Report

Location: Country Pond, Newton/Kingston, NH

Date(s): August 1-6, 2024

Exotic/Invasive Plant(s): Spiny/Brittle naiad

Diver(s): Sarah MacNeilage Patey, Jamie Burleigh

Support Crew: None

Total amount extracted (in gallons): 119.00

Total time worked (in hours): 27.5

Detailed report includes Extraction Narrative, Extraction Log, Map, Photos

Narrative:

Over four days, divers extracted spiny/brittle naiad in two areas on the map provided by NH DES (see the circled areas on the map below). On days one and two, divers focused on the Ridge Road area. Divers divided the area in two: the lily pads and shoreline just south of the blue and green topped boats, and the lily pads and floating dock below the off-white and big brown houses on the embankment. Divers found plants heavily concentrated, often in clusters, in the lily pads, where they were rooted everywhere divers looked, and well into the open water, but in far less abundance. Plants were in water between four and six feet deep. At the end of the second day, divers left their marker near where they think they've narrowed down the remaining plants to extract. Divers transited to the island and during extraction, determined the quantity of plants far exceeded another single day of extraction solely in that spot. Divers decided to assess the growth at the campground to determine the next two days of diving. There, they found a large swath right next to the lily pads, not in direct boat traffic, and plants here and there in the channel.

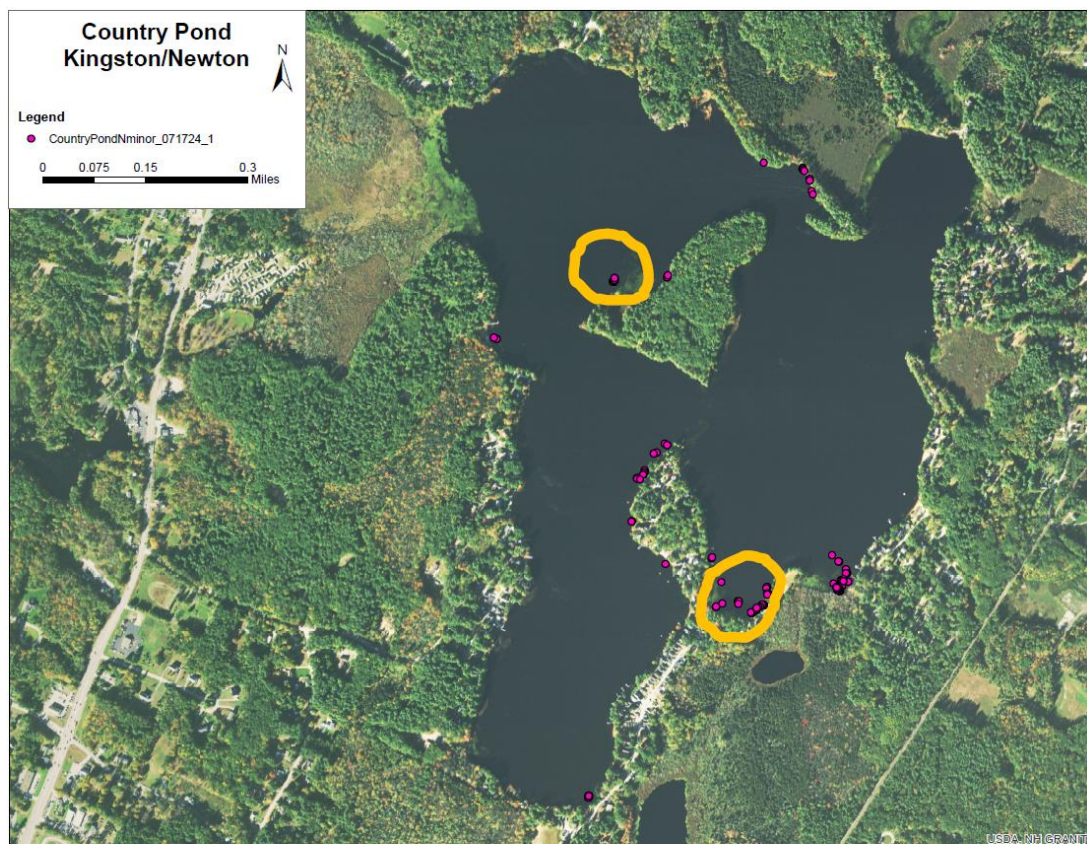
On the third and fourth days, divers focused on extracting the growth off the island. Once again, divers divided the area in two, working from the outer edges to narrow the field, in the lilies near the eastern outcrop and the tall, old tree along the shoreline, inward. Plants were well established in the lily pads and reached up to three feet tall with thin stems and bushy tops. Plants were found in water between five and six feet deep. At the beginning of day three, divers noticed the marker they'd previously left was gone and the water level was higher from the rain. By the end of the day, they'd found the base of the marker, and hypothesized the entirety of the line and the foam noodle had been sucked into a boat's propeller. Also, on day three divers were less productive than anticipated, as boats kept coming within 15 feet of the dive flag and divers, hindering their safety. After leaving the area, divers saw jet skis flying through the extraction area. On the fourth day, with rain and cloud cover, divers were able to

narrow the area of growth off the island. Between the two days, they extracted 81.5 gallons, solely from the island. They suspect there are another two days in this area necessary to extract most of the remaining plants.

Log:

Diver	Date	Water Body	Vessel Used	Extraction Location	Number of Bags	Yield (Gallons)	Bottom Type
Sarah MacNeilage Patey	8/1/2024	Country Pond	16' Starcraft	Ridge Road	4	11.00	Silt
Jamie Burleigh	8/1/2024	Country Pond	16' Starcraft	Ridge Road	4	10.00	Silt
				8/1/2024 total		21.00	
Sarah MacNeilage Patey	8/2/2024	Country Pond	16' Starcraft	Ridge Road	2	5.00	Silt
Jamie Burleigh	8/2/2024	Country Pond	16' Starcraft	Ridge Road	2	3.50	Silt
Sarah MacNeilage Patey	8/2/2024	Country Pond	16' Starcraft	Island hot spot	1	2.00	Silt
Jamie Burleigh	8/2/2024	Country Pond	16' Starcraft	Island hot spot	1	6.00	Silt
				8/2/2024 total		16.50	
Sarah MacNeilage Patey	8/5/2024	Country Pond	16' Starcraft	Island hot spot	4	11.00	Silt
Jamie Burleigh	8/5/2024	Country Pond	16' Starcraft	Island hot spot	4	20.00	Silt
				8/5/2024 total		31.00	
Sarah MacNeilage Patey	8/6/2024	Country Pond	16' Starcraft	Island hot spot	6	20.50	Silt
Jamie Burleigh	8/6/2024	Country Pond	16' Starcraft	Island hot spot	6	30.00	Silt
				8/6/2024 total		50.50	
				Total gallons extracted		119.00	

Map:



Photos:



A small group of spiny/brittle naiad plants in the open water (left). Part of a cluster of plants seen amongst the lily pads (below).





Spiny/brittle naiad plants under the cover of lily pads.



Part of a dense cluster of Spiny/brittle naiad plants not far from the surface.