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August 15, 2026

Extraction Report

Location: Country Pond, Newton/Kingston, NH

Date(s): July 23, 2026, July 24, 2026, July 27, 2026, August 4, 2026, August 5, 2026, August 11, 2026,
August 12, 2026, August 13, 2026

Exotic/Invasive Plant(s): Brittle naiad

Diver(s): Sarah MacNeilage Patey, Jamie Burleigh

Support Crew: None

Total amount extracted (in gallons): 55.5

Total time worked (in hours): 121.5

Detailed report includes: Narrative, Log, Map, Photos

Narrative:

On the first day, divers started extraction in the cove off Lake Road. Brittle naiad plant grew between six inches and three feet tall in water six feet deep. Plants were tangled in watershield and difficult to extract. Divers determined they'd need to return to this cove several times. Divers transited to Webster Road and the adjoining bridge. At the bridge, plants were extracted from sand and gravel in between granite rocks along the shoreline. There was one one-foot tall, bushy plant in water two feet deep. The remaining plants were small. Divers searched the area in front of the lily pads at the house at the end of Webster Road, where one point was mapped. Divers didn't see any plants, and determined they needed to return and recheck the beach area where people were playing in the water.

Divers moved south to numbers 22 and 24 Marcoux Road. They extracted tiny, bushy plants from the shoreline. Plants were not found beyond water about a foot deep. From there, at the single mark off the Wenmarks Grove Town Beach, divers found small and tiny plants, which looked trampled/pulverized, and amounted to barely anything., along the shoreline and in what appears to be a boat launch area. Divers ended the first day at the boat launch and beach off Sunshine Drive. Brittle naiad plants ranged in size from less than a foot to three feet tall. A small field was visible from the surface in the space behind the black pontoon boat and the jet skis. All plants, native and invasive, were thriving in this area. Plants were rooted amongst underwater ferns and bladderwort. Divers cleared the boat launch and started on the open was area.

Divers started the next day at the points off 26-30 Wilders Grove Road. Plants were found right up on the beach at 26 Wilders Grove and behind and between the docks at numbers 28 and 30. Plants were tiny up on the sandy shoreline and reached as tall as two and a half feet behind the docks in water four feet deep. They transited to the former the former Boy Scout Camp, and they extracted from there and down the shoreline and around the bend to 35 Merrill Avenue. Divers found plants on the beach, through the swimming area, and behind the dock where the small boat was positioned at the camp. Moving down the shoreline, plants were found bordering the lily pads and reeds along the northern side of the point and in the open water, and then in the swimming area and the beach at

the residence. As expected, plants ranged in size, the tiny and small plants were found near beaches, and the tall plants were found right on the point at three feet tall in water five feet deep.

Divers started the third day back at the house at the end of Webster Road. Brittle naiad plants were found in a small patch just in front of the house on a sandy beach through the mass of lily pads. Divers transited to the corner of Wilders Grove Road and Ridge Road. Plants were found right on the beach on either side of the dock at the farthest in house and in the adjoining lily pads on the corner of the dock. Divers moved onto the single point on the western side of the island. Tiny plants covered in an organic decomposing film were in the sandy clearing beyond the reeds and lily pads on shore. Divers found another small plant in the reeds just at the point. Divers returned to Lake Road cove at the end of the day. They extracted further from the watershed on the western side of the cove and in the open water towards the back of the cove. Plant size ranged, with larger plants rooted amongst the watershed, and smaller plants rooted in the silt in open water.

Divers focused on the Sunshine Drive boat launch and beach on the fourth day. Most of the brittle naiad was extracted from the open water area behind the pontoon boats. Additional clusters were found off the beach side of the red pontoon boat, along the lily pads off the boat launch, and in the areas in front of the lily pads on either side of the beach. Plants were found sporadically along the lily pads and near the floating dock east of the beach.

On the fifth day, divers started with the points off the tip of the northern side of the island. One small plant was found on the open water side of the lily pads and reeds, while four were located on the sandy shore of the island. Divers moved to the next point on the island, where at the bottom of the scummy rocky ledge at five feet deep, three two-foot-tall plants were extracted. Further down the shoreline, at the elbow, many small plants no more than eight inches long were extracted from the rocky shore, and six plants a few feet tall, but not all clustered together, were extracted from past the lily pads in open water. Divers crossed the northern part of the lake to the single point off the western branch of Lake Road. One tiny plant on the beach and one, one foot tall, plant further into water were extracted. Across the northern side of the pond, both divers searched for the plant marked north of the former Boy Scout campground, but they didn't find any in the dense watershed.

Divers transited to Ridge Road. A few plants were extracted from along the perimeter of the lily pads in open water and some along the beach and retaining wall. Plants continued around the bend on the interior side of the lily pads into very shallow shoreline waters where dense clusters of tiny plants were extracted. In the drop off between the lily pads and open water, a single tall, well-established plant was removed. Further west on Ridge Road, plants were extracted from the end of the aluminum dock. Divers ended the back at the Sunshine Drive boat launch and beach. They checked the extent of extraction from the previous day in the area behind the black and red pontoon boats, and the extent of growth past the floating docks. In the former, divers determined further extraction was needed. In the latter case, tall, bushy plants were found as far as the lily pads and watershed field in front of the large house.

The next week, divers focused on the northern shoreline of the pond. Divers began at the Country Shore Camping Area marina. At the single point, diver found small plants, no more than a foot tall in the area directly off the boat launch in between the main piers. They boated over to the three points in the area in front of the large house and gazebo. Two-foot-tall plants with bushy tops were rooted in water four feet deep. Short plants were growing along the shoreline, separated by watershed and reeds, where there was sporadic growth. Plants ran the length of the beach, from the wooden docks to the red canoe. Plants in the open water were clustered about 10 feet out from the watershed line. Divers silted out. They boated over to campground beach. Throughout the area beyond the swim lines, plants grew in water four feet deep. Plant growth was light on the gazebo side of the beach, and a field of plants was growing on the edge and into the lily pads on the eastern side. Divers noted the lily pad growth was much less dense and not as far out into open water as it was in previous seasons. Before divers left the area, they could clearly see the field from the surface. Divers transited to the far side of Sunshine Drive and anchored next to the white floating dock and began extraction on the lily pad side of the beach. Divers covered the area directly in front of the white floating dock and its western side, between it and the boat launch. Plants were generally taller,

between one foot and four feet tall with bushy tops. In many areas the plants were along the lily pad line or in clusters. Divers would be returning to this area as well as the campground beach.

Divers returned to the Country Shore Camping Area, where they resumed extraction at the beach and the adjacent lily pads. They continued to extract from the open water and into the lily pads before they were silted out. Divers transited to Lake Rd cove, where they noticed fragments floating on the surface after lunch. They saw landscapers in the water raking out the plants at the beach between the two houses on the point. Historically, brittle naiad has grown on this beach and in the open water around it, so divers swam over and asked if they could look at what the landscapers raked up onto the beach. Divers did notice brittle naiad in the pile and educated the landscapers on the invasive plant. Divers swam away and resumed extracting from the cove, mostly along the lily pads on the west side and in the far back. In the latter, before and at the reeds, a field of brittle naiad grows. Divers continued extracting until they were silted out. Divers ended the day back at the far side of Sunshine Drive. Plants grew in water six feet deep. At the docked black pontoon boat in front of the large house, there is a field of plants just to the beach side of the dock. Divers will be returning to this area as well.

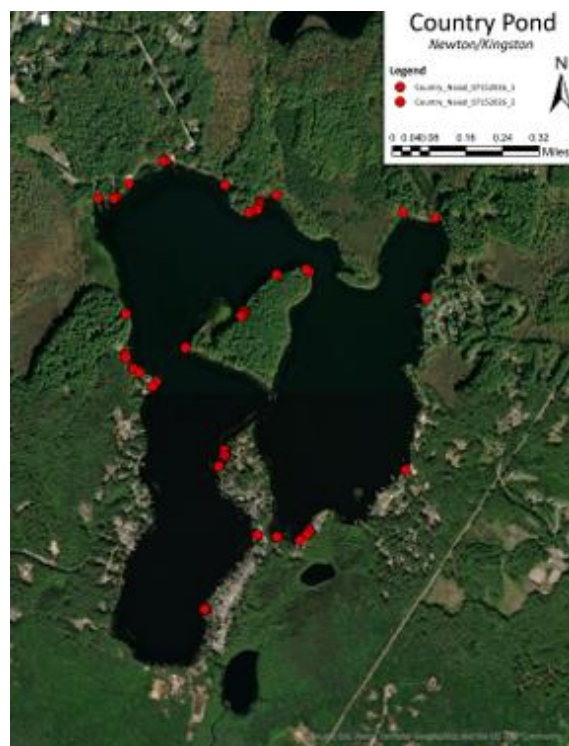
On the eighth day, divers focused solely on the Country Shores Camping Area beach and lily pads. They extracted from the open water, the lily pads near the eastern swim line, and farther off along the lily pad line. In the former, divers attempted to find the end of the brittle naiad growth. Brittle naiad growth continued up to 100 feet away from the swim lines eastward and beyond. Throughout this area, plants grew more sparsely in the open water and in a field in the area right up to the lily pads. In the whole area, plants grew larger the nearer to the lily pads they grew. The tall plants were very bushy with tight leaf clusters. Smaller plants had both these leaves and longer, more umbrella-like leaves. Divers extracted until they were silted out.

Log:

Diver	Date	Water Body	Vessel Used	Extraction Location	Number of Bags	Yield (Gallons)	Bottom Type
Jamie Burleigh	7/23/2026	Country Pond	16' Starcraft	Lake Road cove	2	4.00	Silt
Sarah MacNeilage Patey	7/23/2026	Country Pond	16' Starcraft	Lake Road cove	1	1.00	Silt
Jamie Burleigh	7/23/2026	Country Pond	16' Starcraft	Webster Road	1	0.50	Sand/Gravel
Sarah MacNeilage Patey	7/23/2026	Country Pond	16' Starcraft	22 & 24 Marcoux Road	1	1.00	Sand
Jamie Burleigh	7/23/2026	Country Pond	16' Starcraft	22 & 24 Marcoux Road	1	0.25	Sand
Sarah MacNeilage Patey	7/23/2026	Country Pond	16' Starcraft	Wenmarks Grove Town Beach	1	negligible	Sand/Silt
Jamie Burleigh	7/23/2026	Country Pond	16' Starcraft	Wenmarks Grove Town Beach	1	negligible	Sand/Silt
Jamie Burleigh	7/23/2026	Country Pond	16' Starcraft	Sunshine Drive boat launch and beach	1	1.00	Silt
Sarah MacNeilage Patey	7/23/2026	Country Pond	16' Starcraft	Sunshine Drive boat launch and beach	1	1.00	Silt
				7/23/2026 total		8.75	
Sarah MacNeilage Patey	7/24/2026	Country Pond	16' Starcraft	26-30 Wilders Grove Road	1	1.00	Sand/Silt
Jamie Burleigh	7/24/2026	Country Pond	16' Starcraft	26-30 Wilders Grove Road	1	1.00	Sand/Silt
Sarah MacNeilage Patey	7/24/2026	Country Pond	16' Starcraft	Former Boy Scout Camp south to 25 Merrill Avenue	2	1.50	Sand/Silt
Jamie Burleigh	7/24/2026	Country Pond	16' Starcraft	Former Boy Scout Camp south to 25 Merrill Avenue	2	1.50	Sand/Silt
				7/24/2026 total		5.00	
Jamie Burleigh	7/27/2026	Country Pond	16' Starcraft	Webster Road	1	negligible	Sand/Silt
Jamie Burleigh	7/27/2026	Country Pond	16' Starcraft	Comer of Wilders Grove/Ridge Road	1	1.50	Sand/Silt
Sarah MacNeilage Patey	7/27/2026	Country Pond	16' Starcraft	Comer of Wilders Grove/Ridge Road	1	negligible	Sand/Silt
Jamie Burleigh	7/27/2026	Country Pond	16' Starcraft	Single point western island	1	1.00	Sand/Silt
Sarah MacNeilage Patey	7/27/2026	Country Pond	16' Starcraft	Single point western island	1	0.25	Sand/Silt
Jamie Burleigh	7/27/2026	Country Pond	16' Starcraft	Lake Road cove	3	5.00	Silt
Sarah MacNeilage Patey	7/27/2026	Country Pond	16' Starcraft	Lake Road cove	2	2.00	Silt
				7/27/2026 total		8.25	
Sarah MacNeilage Patey	8/4/2026	Country Pond	16' Starcraft	Sunshine Drive boat launch and beach	4	8.00	Silt, sand
Jamie Burleigh	8/4/2026	Country Pond	16' Starcraft	Sunshine Drive boat launch and beach	6	21.00	Silt
				8/4/2026		29.00	
Sarah MacNeilage Patey	8/5/2026	Country Pond	16' Starcraft	Northern island shoreline	3	negligible	Sand, rocks
Jamie Burleigh	8/5/2026	Country Pond	16' Starcraft	Northern island shoreline	3	negligible	Silt
Jamie Burleigh	8/5/2026	Country Pond	16' Starcraft	Lake Road	1	negligible	Sand
Sarah MacNeilage Patey	8/5/2026	Country Pond	16' Starcraft	Ridge Road	1	1.50	Silt, sand
Jamie Burleigh	8/5/2026	Country Pond	16' Starcraft	Ridge Road	1	0.50	Silt, sand
				8/5/2026		2.00	
Sarah MacNeilage Patey	8/11/2026	Country Pond	16' Starcraft	Country Shore Camping Area marina	1	0.50	Silt
Jamie Burleigh	8/11/2026	Country Pond	16' Starcraft	Country Shore Camping Area marina	1	0.50	Silt
Sarah MacNeilage Patey	8/11/2026	Country Pond	16' Starcraft	Country Shore Camping Area gazebo	1	0.50	Silt
Jamie Burleigh	8/11/2026	Country Pond	16' Starcraft	Country Shore Camping Area gazebo	1	2.00	Silt
Sarah MacNeilage Patey	8/11/2026	Country Pond	16' Starcraft	Country Shore Camping Area beach, adjoining lily pads	2	6.00	Silt
Jamie Burleigh	8/11/2026	Country Pond	16' Starcraft	Country Shore Camping Area beach, adjoining lily pads	3	6.00	Silt
Sarah MacNeilage Patey	8/11/2026	Country Pond	16' Starcraft	Far side Sunshine Drive	1	2.00	Silt
Jamie Burleigh	8/11/2026	Country Pond	16' Starcraft	Far side Sunshine Drive	1	1.5	Silt
				8/11/2026 total		17.50	
Sarah MacNeilage Patey	8/12/2026	Country Pond	16' Starcraft	Country Shore Camping Area beach, adjoining lily pads	3	7.00	Silt
Jamie Burleigh	8/12/2026	Country Pond	16' Starcraft	Country Shore Camping Area beach, adjoining lily pads	3	7.00	Silt
Sarah MacNeilage Patey	8/12/2026	Country Pond	16' Starcraft	Lake Road cove	2	4.00	Silt
Jamie Burleigh	8/12/2026	Country Pond	16' Starcraft	Lake Road cove	2	5.00	Silt
Sarah MacNeilage Patey	8/12/2026	Country Pond	16' Starcraft	Far side Sunshine Drive	1	3.00	Silt
Jamie Burleigh	8/12/2026	Country Pond	16' Starcraft	Far side Sunshine Drive	1	2.00	Silt
				8/12/2026 total		28.00	
Sarah MacNeilage Patey	8/13/2026	Country Pond	16' Starcraft	Country Shore Camping Area beach, adjoining lily pads	3	8.00	Silt
Jamie Burleigh	8/13/2026	Country Pond	16' Starcraft	Country Shore Camping Area beach, adjoining lily pads	6	15.00	Silt
				8/13/2026 total		23.00	
				Total gallons extracted		121.50	

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Map:



Photos:



The tall and the short brittle naiad plants in the Lake Road cove. Plants were found both in the lily pad mass on the western side and in the open water.



Tiny, bushy plants in the beach area off Marcoux Road. Plants were rooted in the sand but not further out.



The plants in the Sunshine Drive boat launch area are taller than in most areas and readily seen from the surface.

While the tallest plants were found at the end of the single pier, most of the brittle naiad plants at the former Boy Scout Camp property were small and bushy. Plants would root and lay down in the sand. Plants would be as tall as eight inches once fluffed up.



Tiny brittle naiad plants in the sandy area off the point of the island covered in organic decomposing matter.

A cluster of tall brittle naiad along the lily pads along the lily pads on the right side of the beach off Sunshine Drive.



Tiny brittle naiad plant along the shoreline on the northern tip of the island growing in sand and separated from the open water by reeds.



Top & Bottom:

Brittle naiad plants saturated the area in front of the Country Shores Camping Area beach and adjoining lily pads on the eastern side.





Top & Bottom:

Brittle naiad plants from the far side of Sunshine Drive. In this area, plants grew taller than in other areas. Plants consistently grew along the border of the lily pads and open water, and in one field off to the side of the black pontoon boat at the end of Sunshine Drive.

