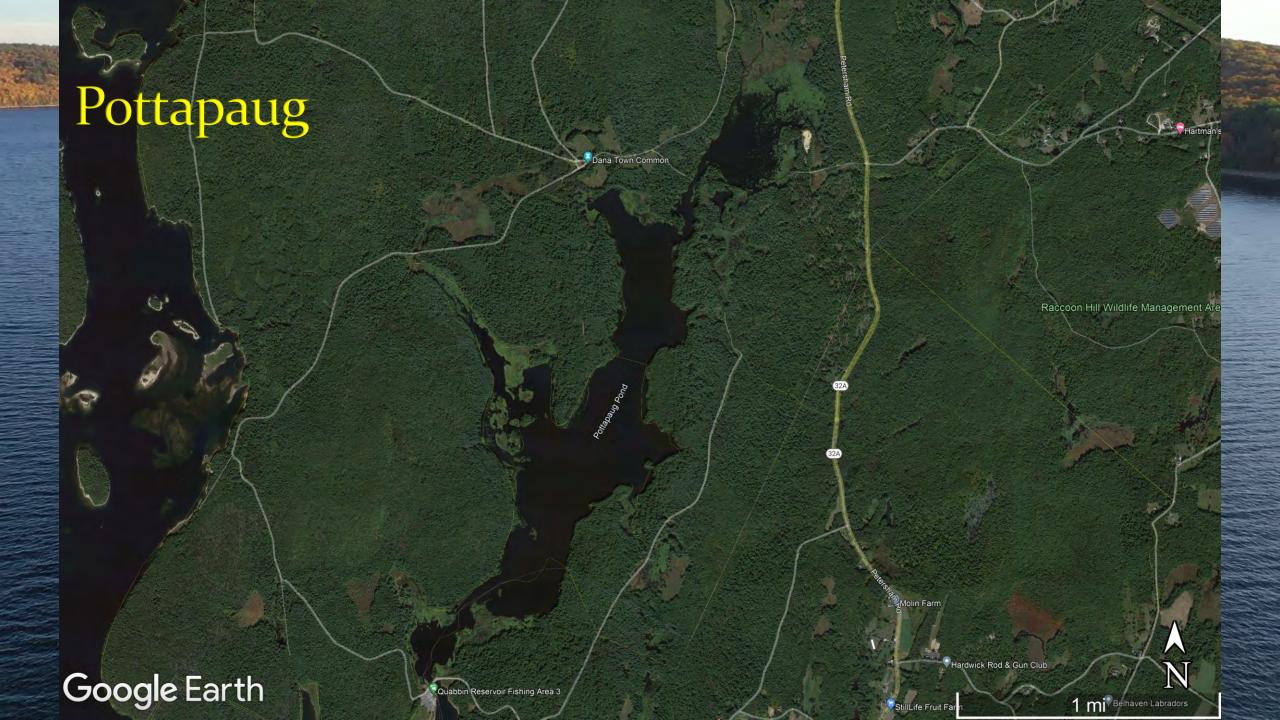
POTTAPAUG POND: INVASIVE AQUATIC PLANT UPDATE



Quabbin Watershed Advisory Committee MeetingMassachusetts
September 18, 2023







- Since 2010, pond surveyed annually by contractors in August; no invasives detected
- Routine fragment barrier inspection on 5-26-2023 discovered suspect invasive plant
- Plant identification confirmed by DCR-Wachusett Aquatic Biologists and follow-up investigation happened on 6-5-2023
- Plant identified as swollen bladderwort (Utricularia inflata)



Plant Biology

- Rootless plant; can form dense mats
- Flowers in early spring
- Native to Southern U.S. not native to MA
- Prefers lakes and ponds
- Reproduces through seeds and vegetatively
- Stem fragments can re-sprout
- Impacts:
 - Dense mats can impede boaters, fishing
 - Increase sediment levels
 - Deplete oxygen
 - Reduce native vegetation



Action Steps

- Partial pond survey on 6-5-2023
- Shoreline survey completed on 6-21-2023
- Documented along shallow areas throughout pond
- Pottapaug closed private boats on 6-7-2023
- DCR staff began removal efforts on 6-12-2023: 2 days of hand harvesting



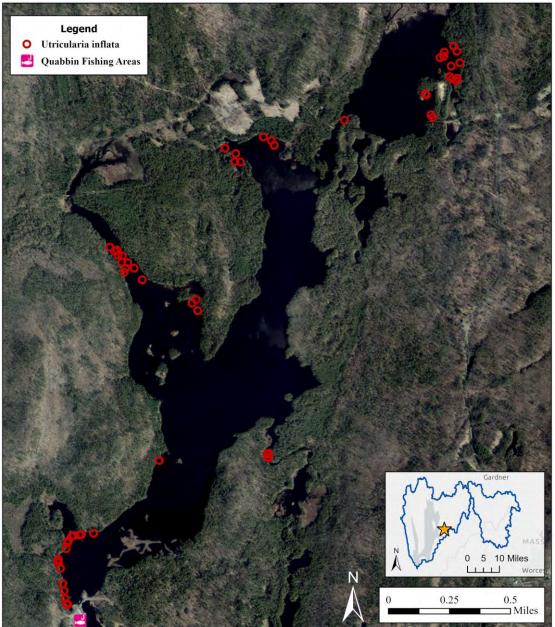


Massachusetts Department of Conservation & Recreation

Division of Water Supply Protection
Office of Watershed Management



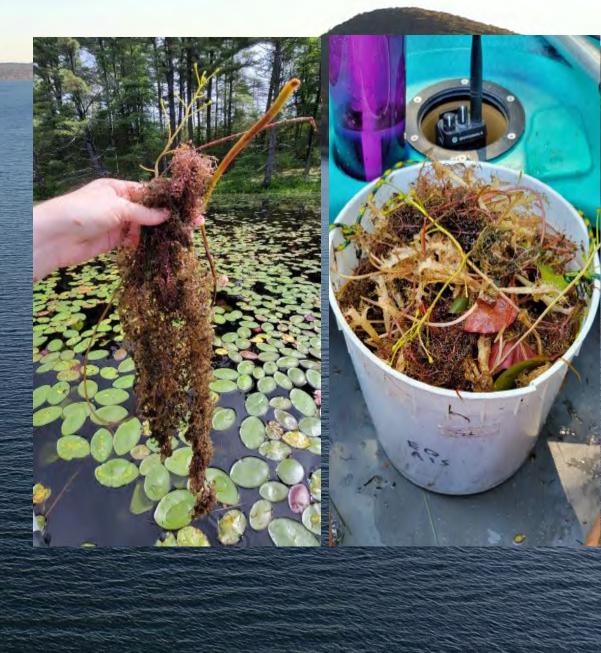
2023 U. Inflata Investigation on Pottapaug Pond



Removal

- Removal began on 6-12-2023
- 2nd day of removal on 6-15-2023
- Removal focused on first and second cove along western shore
- Plant still in bloom, but also degrading
- 73 gallons removed





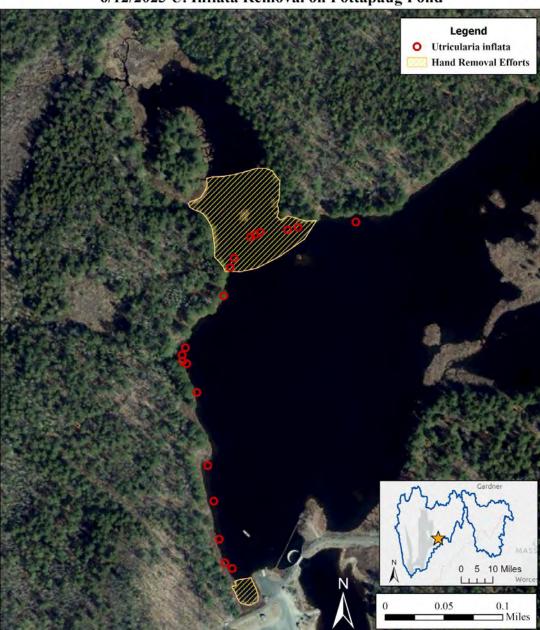
Massachusetts Department of Conservation & Recreation

Division of Water Supply Protection Office of Watershed Management



6/12/2023 U. Inflata Removal on Pottapaug Pond





Map Created by: Tayelor Gosselin, Aquatic Biologist 1 - 6/14/2023

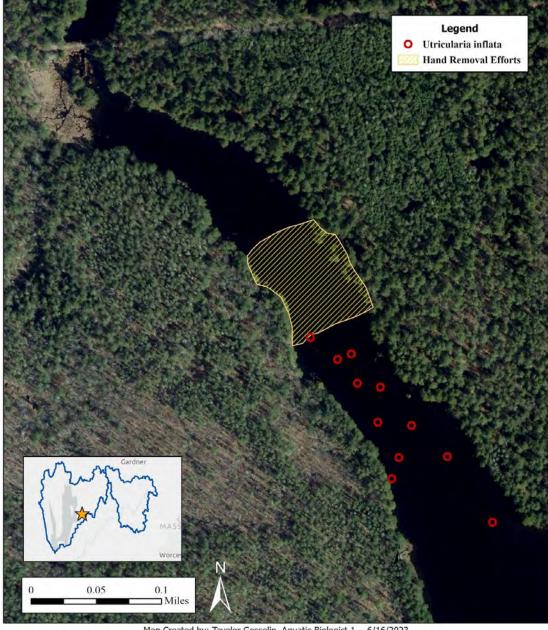


Massachusetts Department of Conservation & Recreation

Division of Water Supply Protection Office of Watershed Management



6/15/2023 U. Inflata Removal on Pottapaug Pond



Map Created by: Tayelor Gosselin, Aquatic Biologist 1 - 6/16/2023

FIGURE 1: Inflated Bladderwort Hand-pulling Locations July 6 & 7, 2023





Pottapaug Pond

Pottapaug Pond

0 5001,000 2,000

1:21,347

∧

Map Date: 7/10/202 File: QuabbinRes2 Prepared by: K' Office: Shrewsburv. Ma

Future Plans

- MWRA contractor to return in spring 2024 as soon as flowering occurs
- Continued hand-pulling
- Ongoing monitoring
- BLA 3 reservoir surveys
- No private boat launching at Pottapaug until:
 - Plant eradicated
 - New policies developed to prevent spread to Reservoir

