



Cape Cod Pond Watcher Bio-survey

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Pond Watcher Name: _____

Email: _____

Pond Name: _____

Date: _____

Pond ID: _____

Time Start: _____

Town: _____

Time End: _____

Observation location: _____

CONDITIONS

Air Temp: _____ Surface Water Temp: _____

Water Level: High / Medium / Low

Ice cover: None / Partial / Entire Pond

VEGETATION

In the pond: Yes / No

Coverage: Sparse / Dense / Patches

ID: _____

ID: _____

ID: _____

Emerging from the water: Yes / No

Coverage: Sparse / Dense / Patches

ID: _____

ID: _____

ID: _____

ID: _____

Around the edge of the pond: Yes / No

Coverage: Sparse / Dense / Patches

ID: _____

ID: _____

ID: _____

ID: _____

Cape Cod Pond Watcher Bio-survey

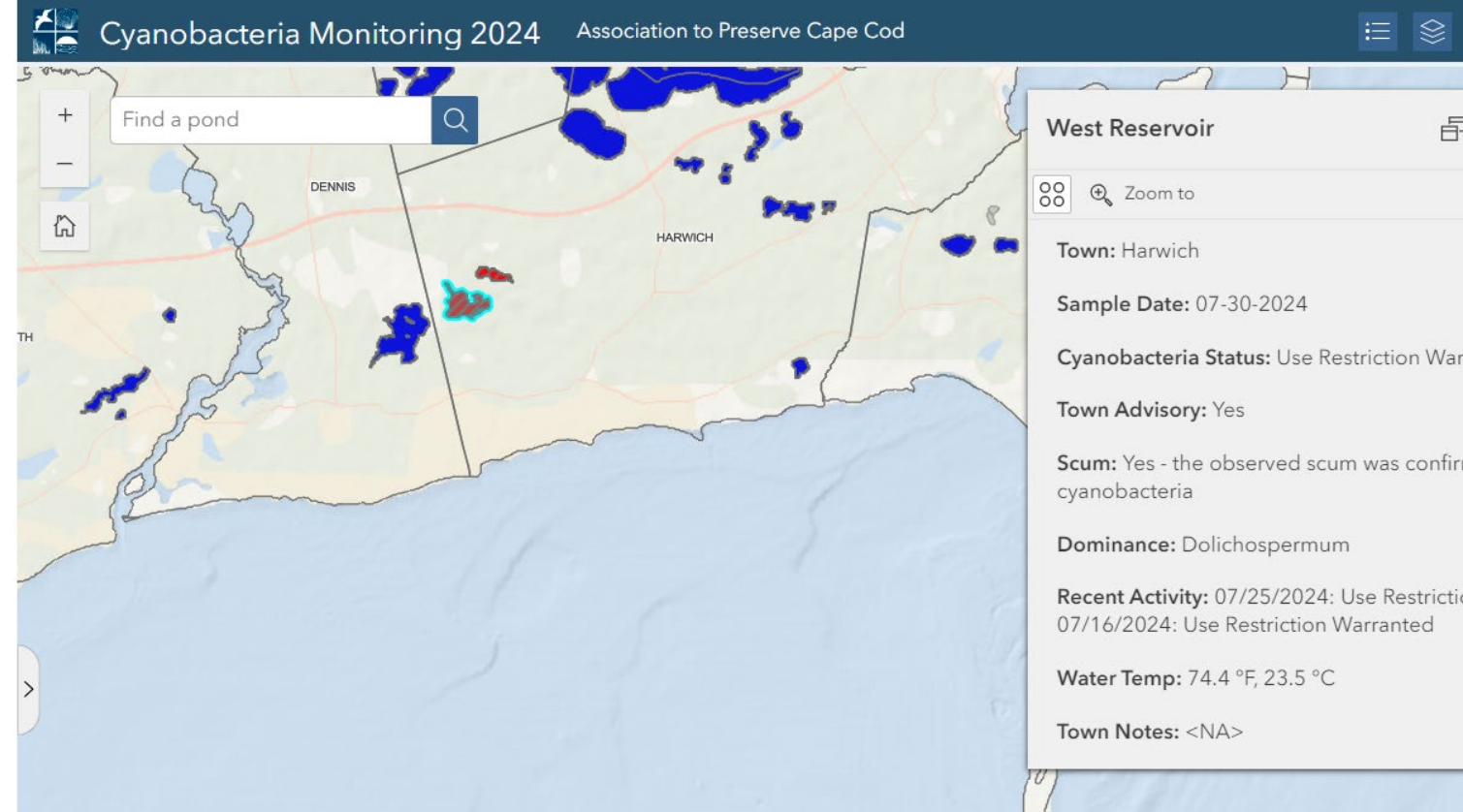
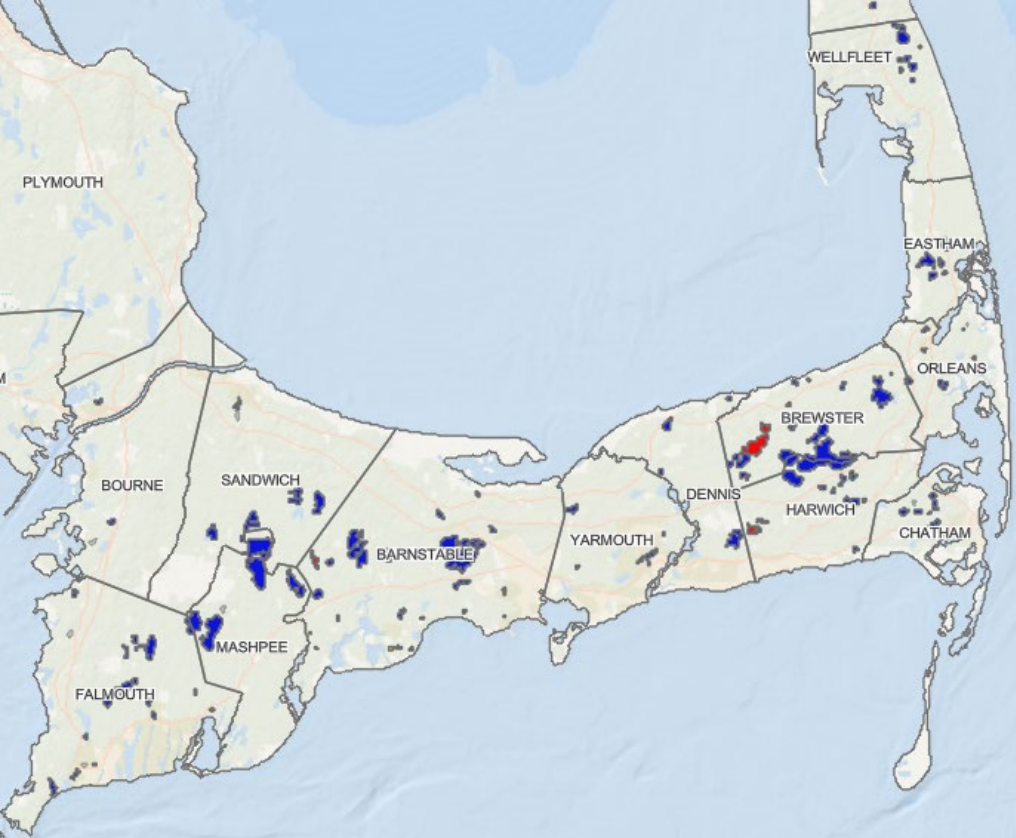
In Pond Substrate: Buoy & rope



Bryozoan colony - Bridge Pond in Eastham

Expert Biologists for Cape Cod

- Aquatic Plants: Jim Straub, MA Weed Watcher Program
- Freshwater Mussels: Dr Jason Carmignani MA Fish & Wildlife
- Fish: Steve Hurley, MA Wildlife
- Birds: Mike Tucker
- Dragonflies:
- Others



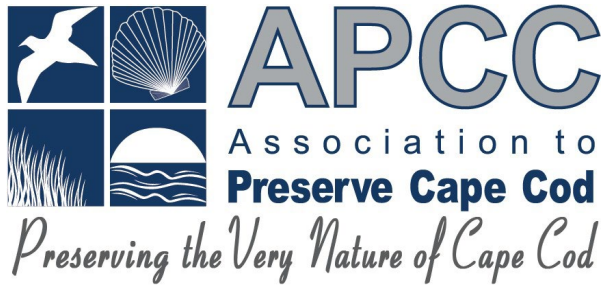
Cyanobacteria Monitoring Program and CyanoMap

- <https://apcc.org/our-work/science/community-science/cyanobacteria/>
 - CyanoMap updates every 8 hours with results from monitoring 134 ponds and 150 locations ~ bi-weekly
 - Cape Cod Cyanobacteria Monitoring Program (CCCMP) Quality Assurance Project Plan (QAPP) 2024-2029
- CCCMP QAPP approved by MassDEP and EPA



Freshwater Initiative

Cape Cod Regional Pond Monitoring Program



CAPE COD
COMMISSION





Pond Water Quality Monitoring Program – Selected Ponds

Ponds by Town

Barnstable

Garretts Pond
Hathaway Pond
Long Pond
Lovells Pond
Lake Elizabeth
Micah Pond
Parker Pond

Bourne

Flax Pond
Queen Sewell Pond
Red Brook Pond

Brewster

Cliff Pond
Long Pond
Slough Pond

Chatham

Goose Pond
Barclay Pond

Dennis

Coles Pond
Flax Pond
Scargo Lake

Eastham

Bridge Pond
Herring Pond
Ministers Pond

Falmouth

Coonamesset Pond
Jenkins Pond
Mares Pond
Shivericks Pond
Wing Pond

Harwich

Cornelius Pond
Hawksnest Pond
Sand Lake
Walkers Pond

Mashpee

Johns Pond
Moody Pond
Santuit Pond

Orleans

Crystal Lake
Pilgrim Lake

Reubens Pond

Provincetown
Blackwater Pond
Clapps Pond

Sandwich

Lawrence Pond
Peters Pond
Shawme Lake
Spectacle Pond

Truro

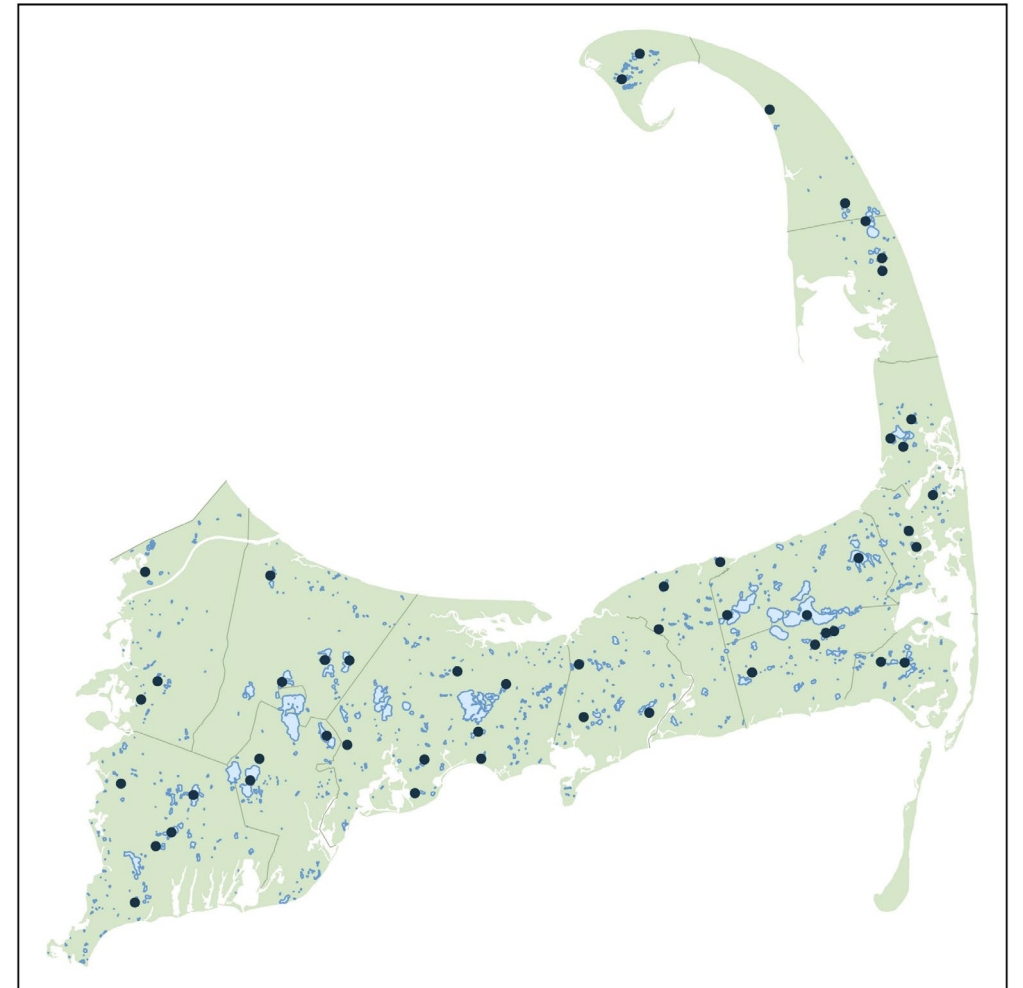
Village Pond
Great Pond

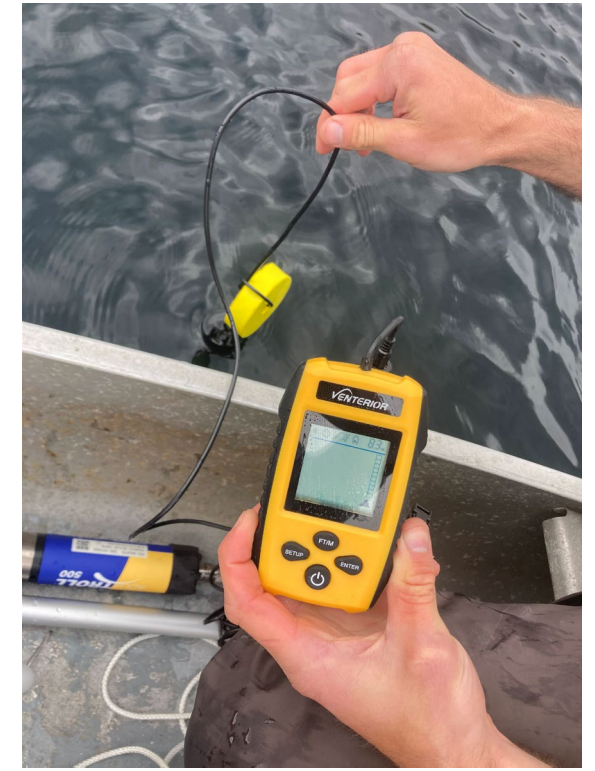
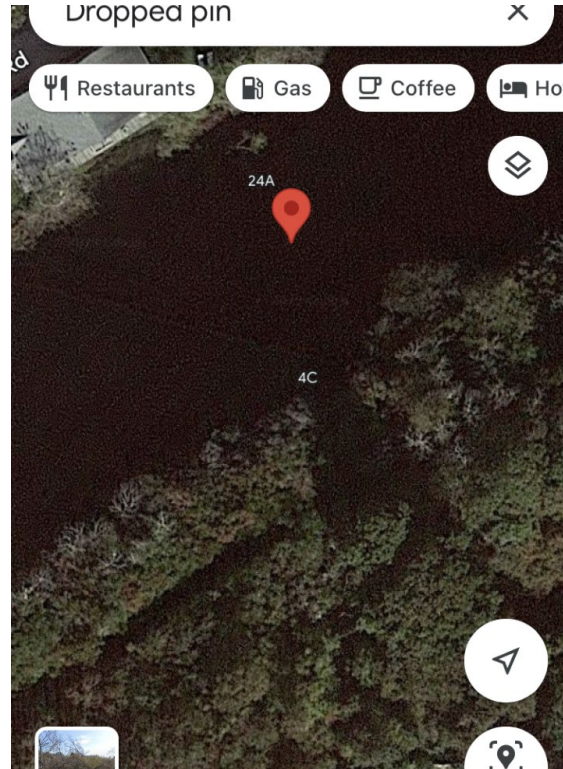
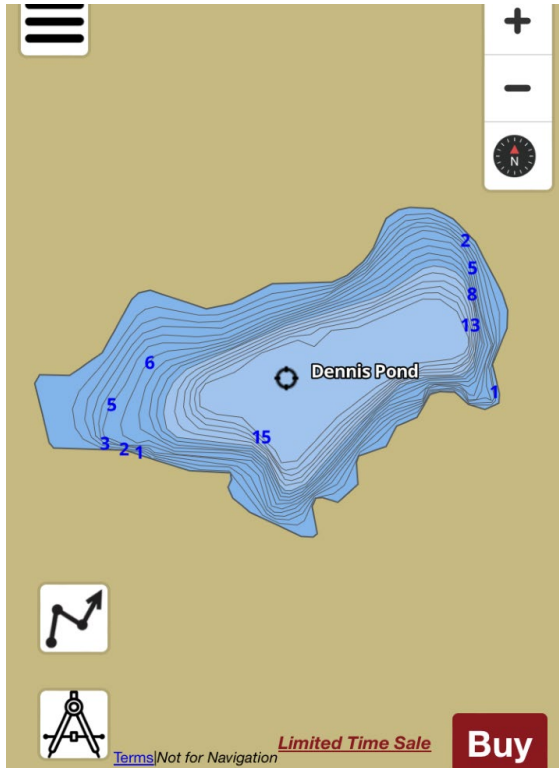
Wellfleet

Duck Pond
Great Pond
Herring Pond

Yarmouth

Dennis Pond
James Pond
West Sandy Pond





~7:30am

- We meet at the 1st pond of the day
- Emma and I will have the canoe and all the gear ready to deploy
- Together, we will paddle out to the deepest point of the pond

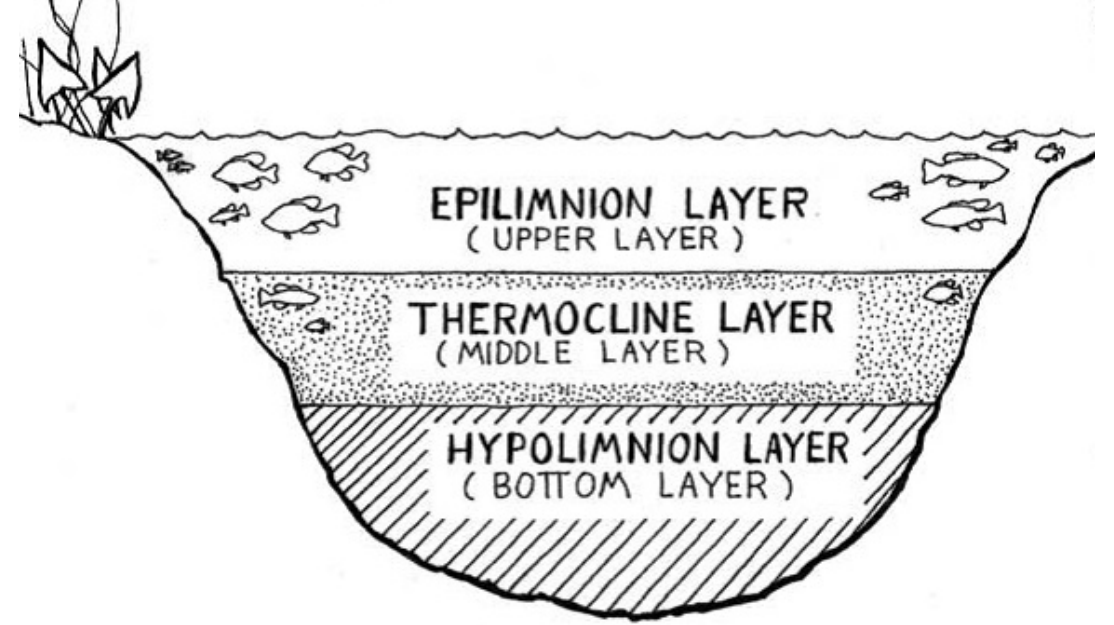
Monitoring: Secchi reading




















→ Measures water turbidity

- The disk is lowered into the water until it disappears from sight
- The “AquaView” will help our reading stay consistent in varying light conditions
- The measurement is taken at water surface level



Monitoring: Collecting water quality data using In Situ sonde



Aqua TROLL 500 Vented - SN 1017840			
		Device Location	GPS: 
		Your device's GPS location will...	
		Change Location >	
		Refresh Rate: 2 sec 	
<input checked="" type="checkbox"/>	RDO Concentration	9.82 mg/L	 
<input checked="" type="checkbox"/>	RDO Saturation	105.98 %Sat	 
<input checked="" type="checkbox"/>	Oxygen Partial Pressure	151.03 Torr	 
<input checked="" type="checkbox"/>	pH	7.41 pH	 
<input checked="" type="checkbox"/>	pH mV	-24.0 mV	 
<input checked="" type="checkbox"/>	ORP	202.9 mV	 
<input checked="" type="checkbox"/>	Actual Conductivity	314.06 $\mu\text{S}/\text{cm}$	 



Monitoring:

Collecting water samples at different depths using the Van Dorn sampler

Once the 1st water sample is collected, we have 6 hours to drop the samples off at the Center for Coastal Studi

Thank YOU for your interest!!

**Keep a look out for the
Bio Indicators of Healthy Life
on our Cape Cod Ponds
Thank you!**



**Julie A. Hambrook Berkman, Ph.D.
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APCC.org**

