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### Summer Monitoring Schedule

- **Secchi**: Minimum every other week throughout summer
- Summer Phosphorus: Once during August or September
- Chlorophyll: Once per month (UP lakes a little different)
- DO/ Temp: Every other week throughout summer
- **EAPW**: Anytime during the summer
- Score the Shore: Anytime during the summer
- Aquatic Plant Mapping: Anytime during summer

# Summer Sampling Schedule

- Summer sampling dates for total phosphorus and the final chlorophyll sample are different depending on your county
- Check out the Summer schedules on the MiCorps.net



#### SUMMER PHOSPHORUS

2024 Sample Collection and Turn-in Schedule



Summer Phosphorus samples must be collected within your 5-day sampling window and turned in (frozen) between **8 am — Noon** on the date and location listed for your county in the table below. Call the appropriate phone number below if other arrangements must be made.

COUNTY	TURN-IN ADDRESS (EGLE unless noted otherwise)	SAMPLING DATES	TURN-IN DATES
Allegan, Kalamazoo, Barry, Van Buren, Berrien, Cass, St. Joseph	EGLE Kalamazoo District Office 7953 Adobe Road Kalamazoo, MI 48909 Deana Mercs: 269-330-8571	Sept 19-23	8 am-Noon September 24
Calhoun, Jackson, Washtenaw, Branch, Hillsdale, Lenawee	EGLE Jackson District Office 301 E. Louis B. Glick Hwy. Jackson, MI 49201 Brittany Santure 517-740-6504	Sept 19-23	8 am-Noon September 24
St. Clair, Macomb, Oakland, Wayne, Monroe	EGLE Warren District Office 27700 Donald Court Warren, MI 48092 Jack Cotrone: 248-763-1994	Sept 19-23	8 am-Noon September 24



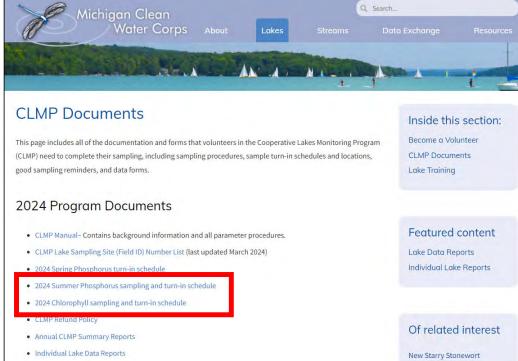
#### CHLOROPHYLL 2024 Sample Collection and Turn-in Schedule



COUNTY	TURN-IN ADDRESS (EGLE unless noted otherwise)	SAMPLING DATES	TURN-IN DATES
Allegan, Kalamazoo, Barry, Van Buren, Berrien, Cass, St. Joseph	EGLE Kalamazoo District Office 7953 Adobe Road Kalamazoo, MI 48909 Deana Mercs: 269-330-8571	Sample #1 May 10-20 Sample #2 June 10-20	8 am-Noon June 25
		Sample #3 July 10-20 Sample #4 Aug 10-20 Sample #5 Sept 19-23	8 am-Noon September 24
Calhoun, Jackson, Washtenaw, Branch, Hillsdale, Lenawee	EGLE Jackson District Office 301 E. Louis B. Glick Hwy. Jackson, MI 49201 Brittany Santure 517-740-6504	Sample #1 May 10-20 Sample #2 June 10-20 Sample #3 July 10-20 Sample #4 Aug 10-20 Sample #5 Sept 19-23	8 am-Noon June 25 8 am-Noon September 24
St. Clair, Macomb, Oakland, Wayne, Monroe	EGLE Warren District Office 27700 Donald Court Warren, MI 48092 Lindsey Eveleth 586-292-2971 (June) Jack Cotrone: 248-763-1994 (Sept)	Sample #1 May 10-20 Sample #2 June 10-20 Sample #3 July 10-20 Sample #4 Aug 10-20 Sample #5 Sept 19-23	8 am-Noon June 25 8 am-Noon September 24

# Summer Sampling Schedule

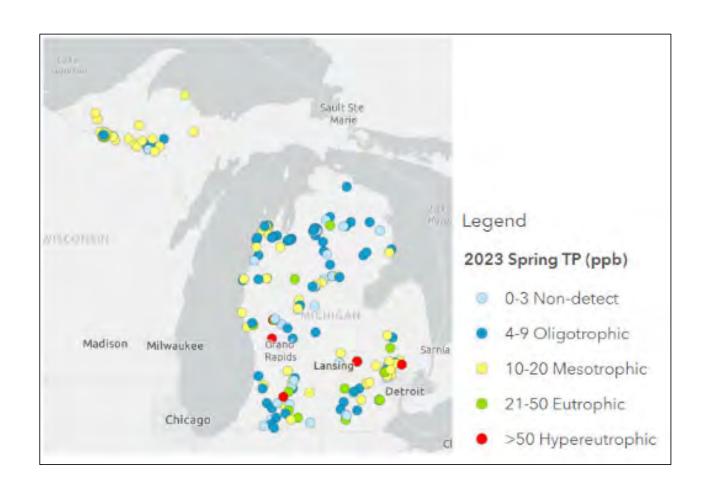




# Sample Drop off between 8-Noon

- If the date and time does not work for you:
  - Reach out to your drop off location to see if you can drop them off early
- Feel free to coordinate with neighbor lakes for drop off
- You can always contact the CLMP Team to help with logistics

## Spring Phosphorus results will be available later in summer



#### Enroll all summer in EAPW and Score the Shore





# Hydrilla detected in Berrien County MI





3 State of Michigan (.gov)

#### First Michigan detection of invasive hydrilla triggers response



Hydrilla, considered one of the world's most invasive aquatic plants, has been detected for the first time in Michigan.

Oct 2, 2023

Michigan State University

#### Invasive hydrilla, a "monster aquatic weed," discovered for the first time in Michigan waters



The Michigan Invasive Species Program (MISP) announced Monday that hydrilla (Hydrilla verticillata), a highly invasive aquatic plant, has been...

Oct 3, 2023



#### Invasive hydrilla in Michigan a major threat to state's water bodies and economy



It's considered one of the world's most invasive plants and officials are so worried about it's arrival they are digging up the ponds where...

May 27, 2024

The Detroit News

#### Invasive aquatic plant discovered in Michigan



Hydrilla, one of the world's most invasive aquatic plants, was discovered for the first time in Michigan, state environmental officials said...

Oct 2, 2023



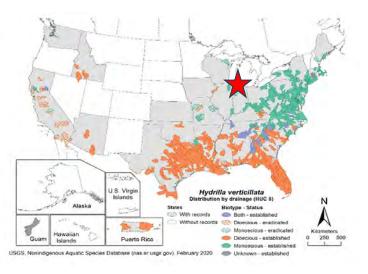
#### Hydrilla found in Michigan: 'The aquatic plant we didn't want here'



Hydrilla, which state experts call one of the "world's most invasive aquatic plants," was found in two residential ponds last month in Berrien...

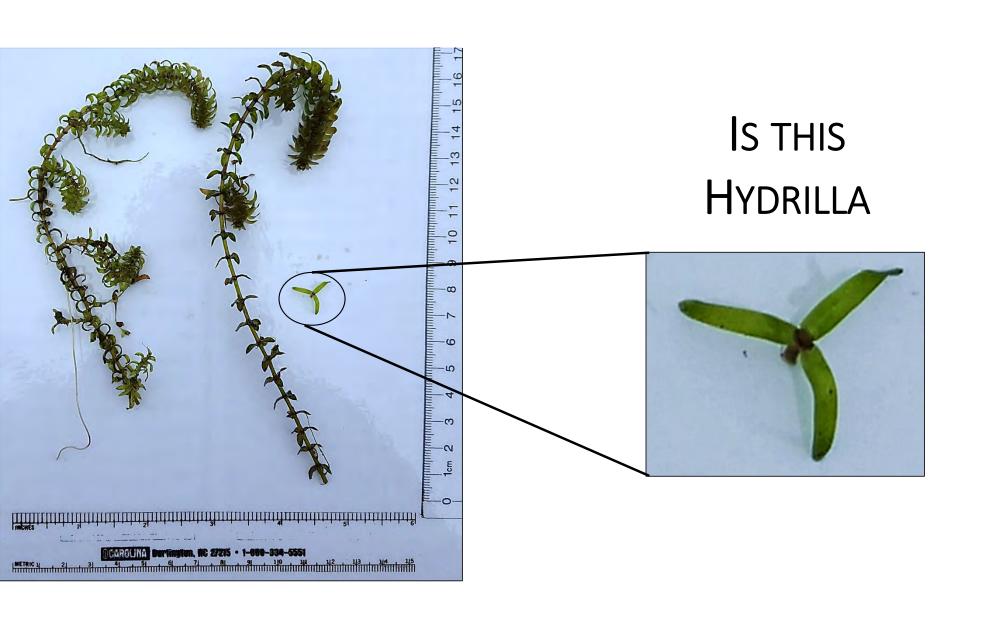
### EAPW Watch List Species Hydrilla (*Hydrilla verticillata*)

- Whorls of 4-8 leaves around the stem
- Serrated leaf edge
- Teeth are also produced underneath the leaf, along the midvein









# Plant Identification Photography

#### Required Photographs:

- At minimum, one representative photo of each invasive species found in your lake
- Label photos
- Make sure the photos are clear
  - \*\*\*Need to show identifying characters\*\*\*
- Great for ID verification and documentation



Portage Lake, Livingston Co.

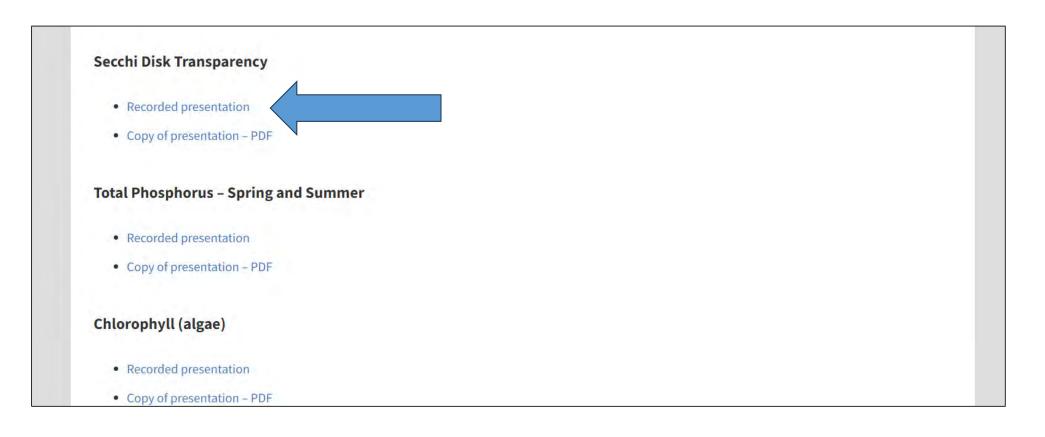
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Enroll in Score the Shore today!



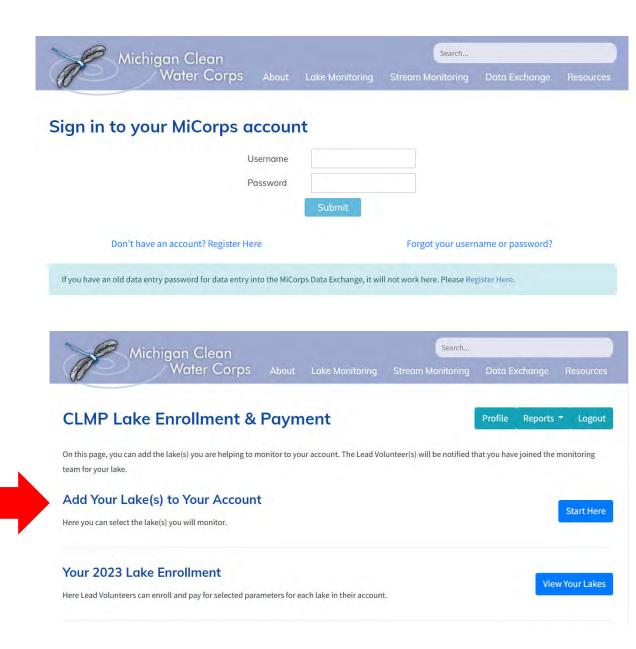
# Include *Assisting Volunteers* in communications and make sure everyone is trained



# Assisting Volunteers: Make sure add your lake to your account

Step 1: Sign into your account

Step 2: Add your lake to your account



Michigan Clean
Water Corps About Lakes Streams

Data Exchange Resource

View Data
Enter Data

Enter Data

Stream Monitoring Program projects

Step 2

Michigan Clean
Water Corps About Lake Manitoring Stream Manitoring Data Exchange Resources

MiCorps Data Entry System

Contact MiCorps Staff at MiCorps@msu.edu if you have any questions.

Volunteer Lab Upload

Choose File No file chosen

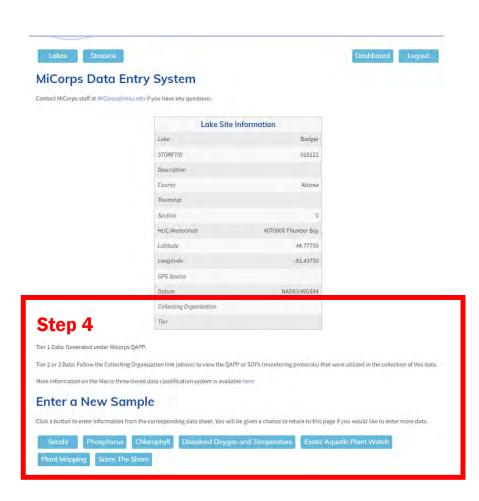
Macro/Family Data Upload

Step 1



#### How to enter your data

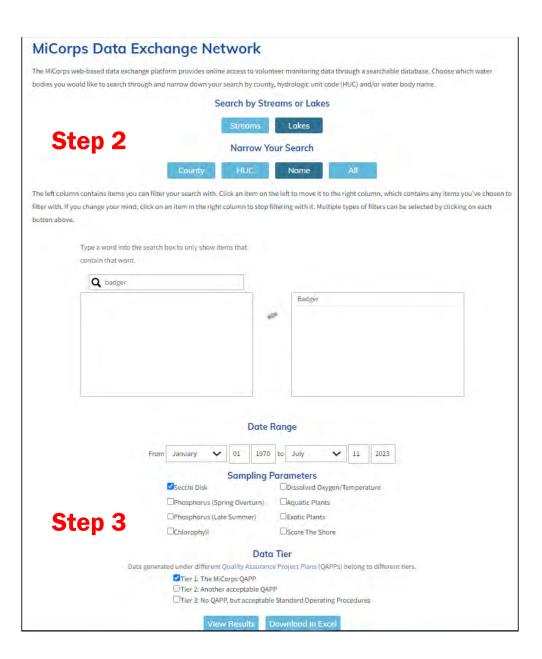
#### Enter data by October 31st



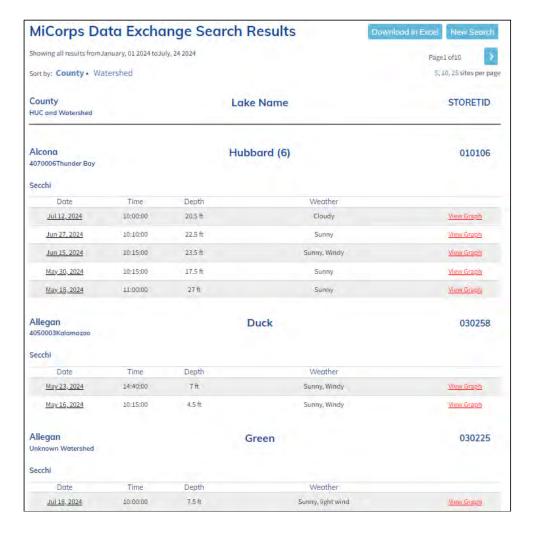
# How to *check* your data in our database

Step 1





### How to check your data



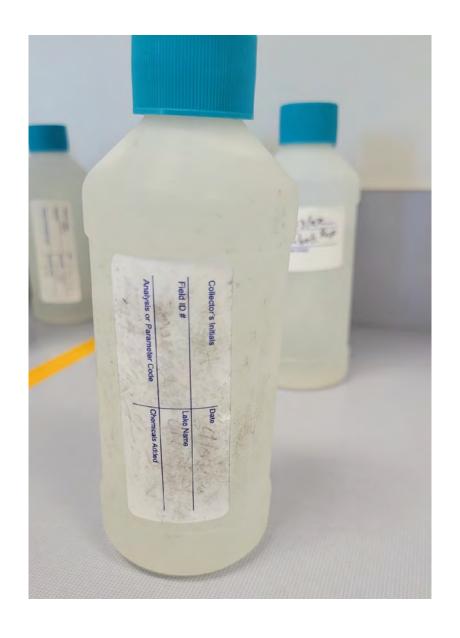
Step 4

# Keep your sample clean



Use a pencil or waterproof pen or marker

**Note:** Summer P bottles are being sent as we speak



Chlorophyll: Slow down the Squeeze

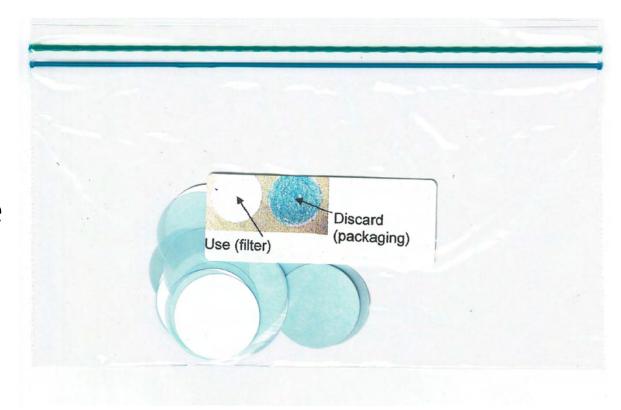


# Chlorophyll Filters

Blue = BAD

Separator sheets look like tissue paper.

The good filters are solid white, "plastic" looking



# Chlorophyll degrades when exposed to light - Make sure to wrap your sample in foil



No need to wrap P bottles in foil, though!

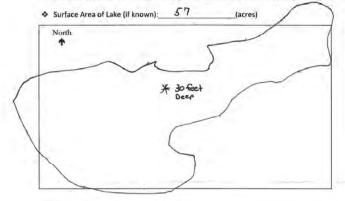


#### Data Forms

- Important to fill everything out
- Map is important for quality control

#### Lake Name, County, and Field ID number: Island Lake, Gladwin County; ID-260134

- . In the box below, draw an outline of your lake (i.e., lake map). Or attach a copy of a lake map.
- On the lake map, mark your total phosphorus sampling location (this should be at the deepest location in your lake) and write the LAKE DEPTH at this location. (Note: If you sample at more than one location in the lake, use a separate data form for each location.)



#### **DATA ENTRY**

If you can, please enter your data into the MiCorps Data Exchange by October 31st.

#### **DATA SHEET TURN-IN PROTOCOL**

Please do the following:

- (1) Make a copy of your field data sheets to keep for your records
- (2) Put one copy in a baggie to keep it dry
- (3) Deliver the frozen total phosphorus samples together with the data sheet copy to the designated drop-off location on the designated turn-in date (according to the Spring Phosphorus Sampling Schedule).

CLMP Phosphorus Data Form (Spring)

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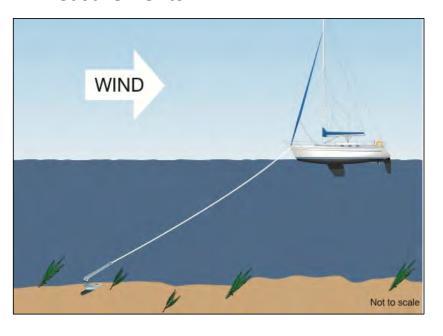


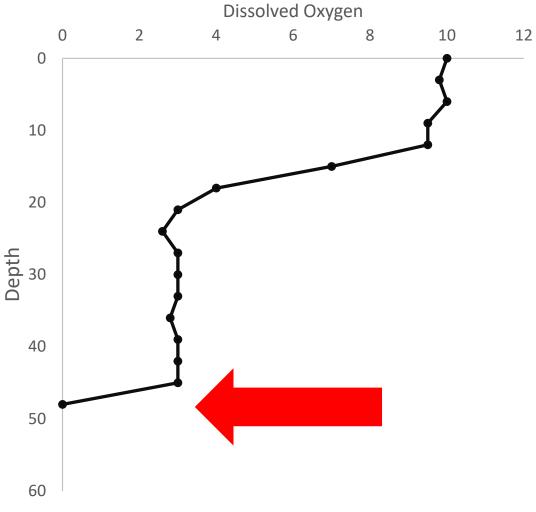
#### Dissolved Oxygen (DO) Reminders

- Turn on meters 15 minutes prior to calibrating
- Keep sponge in calibration chamber wet, but no standing water
- ullet Make sure reading mg/L not % Saturation and in  ${}^{\circ}\text{C}$
- Keep case open after use to dry out

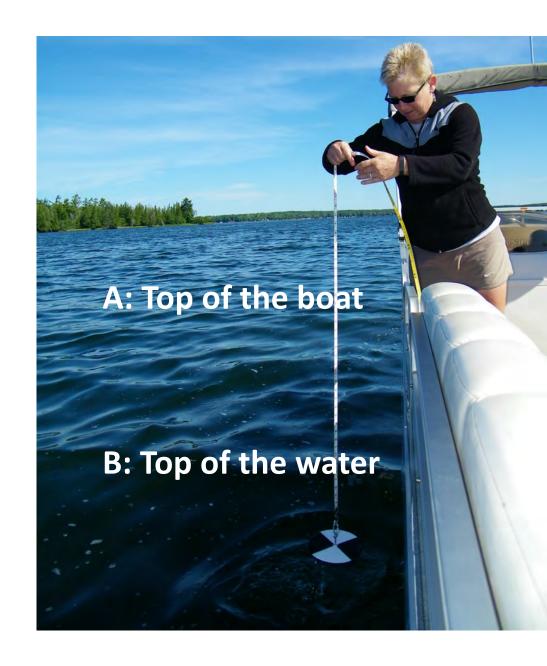
# Temperature and Dissolved Oxygen

- Watch for drift and bottom reading
- Anchoring is important
- Check depth before proceeding with measurements

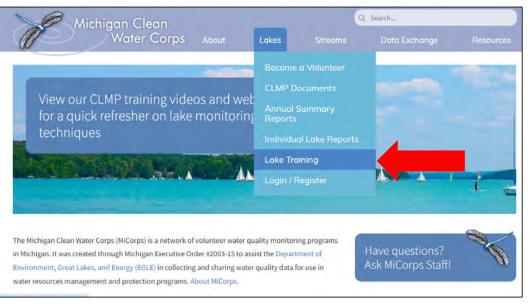


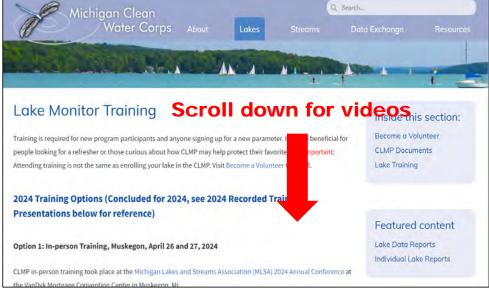


From where do you measure Secchi?



### Need a refresher? Training Videos







#### Questions?

#### **CLMP Contacts**

Erick Elgin – elgineri@msu.edu

Jo Latimore - latimor1@msu.edu

Jean Roth - jean.roth@mymlsa.org

Tamara Lipsey - lipseyt@michigan.gov

Not sure who to ask?

MiCorps@msu.edu

