

# TOTAL PHOSPHORUS



## **Quick Reference Procedure Checklist**

#### **Please Note**

This document is an abbreviated form of the full Total Phosphorus Monitoring Procedures. We recommended that you read the full procedures at least once at the beginning of each field season. Full procedures are found in the CLMP Manual found here: https://micorps.net/lake-monitoring/clmp-documents/

Equipment Checklist  Boating safety equipment* and anchor*  Copy of full procedures or this quick reference procedure checkl  Two 250-ml plastic bottles  Total phosphorus sample labels (2)  Data sheet  Pencil* or indelible ink pen*  Ice pack*  Fine tip permanent black marker*  Towel for drying hands*  Insulated cooler bag and freezer*  2 zip-lock freezer bags*  *provided by volunteer	ist	
·		
Data Collection		
<ul> <li>A. Sampling location, frequency, and timing</li> <li>1. For spring total phosphorus samples, the samples will need to be taken within 2 weeks of ice-out as judged by the volunteer.</li> <li>2. Summer phosphorus samples will be taken in late August through September, depending on the lake's latitude. Refer to the provided total phosphorus sampling schedule.</li> </ul>		
B. Proceed to your monitoring location	Collector's Initials Date	
C. Prepare for monitoring  1. When in position, fill out the data sheet (Lake Name,	Field ID  555732  Analysis or Parameter Code  GA  DEQ 9/25/13  Location DEAO SPIDER Chemicals Added	
<ul> <li>County, Date, Field ID #, etc.).</li> <li>2. Use the fine tip permanent black marker to fill out the bottle labels and attach to bottle before they get wet.</li> <li>3. Write GA for the parameter code.</li> <li>4. Write "-REP" on the second bottle label by the lake name.</li> </ul>	Field ID  555 432  Analysis or Parameter Code  GA  DEQ  V/25/13  Location—REP  DEAD SPIDER  Chemicals Added	

#### D. Take the water sample

1. Unscrew the cap; never touching the inside of the bottle	e or cap.
2. Rinse bottle with lake water twice and shake bottle out	after the second rinse.
3. Grab the bottle around the base with tips of all fingers a	nd thumb of one hand (i.e. the
"dead-spider" grip).	
4. Turn bottle upside down and lower bottle about one for	ot below the surface.
5. Turn the bottle sideways to fill the bottle.	
☐ 6. Spill out a small amount of water so bottle is ¾ full (expanse)	ansion room for freezing).
7. Dry bottle.	
8. Store bottle in freezer pack with the ice pack.	
9. Repeat steps for the second water bottle.	
E. Return to shore and freeze the sample.	
1. Return to shore	
2. Put samples into a zip-lock bag.	
3. Fold data sheet, place into a different zip-lock bag, and	
then place into the first zip-lock bag with water samples.	
4. Place samples and datasheet into the freezer.	
F. Turn in your sample	

#### i. Turri ili your sample

1. Deliver the frozen total phosphorus samples and data sheet to the proper turn-in location on the designated turn-in dates (according to the phosphorus schedule).

### **Reporting Your Data**

Deadline: October 31.

If you can, enter your data (i.e. lake name, sample date, composite sample depth, etc.) into the MiCorps Data Exchange.

After the EGLE lab processes your sample, the chlorophyll-a result will be matched to your data in the Data Exchange by MiCorps staff.

If you are unable to enter your own data into the MiCorps Data Exchange Network, program staff will enter your data for you after receiving your datasheet with your frozen chlorophyll sample.

#### **Questions?**

**Contact:** Jean Roth, jean.roth@mymlsa.org, 989-257-3715 or Erick Elgin, elgineri@msu.edu, 218-340-5731