

# CITIZEN LAKE MONITORING NETWORK REFRESHER TRAINING



- Chemistry Procedures Review
- Mailing Overview

# SAMPLE COLLECTION

First total phosphorus sample is collected within 2 weeks of ice off

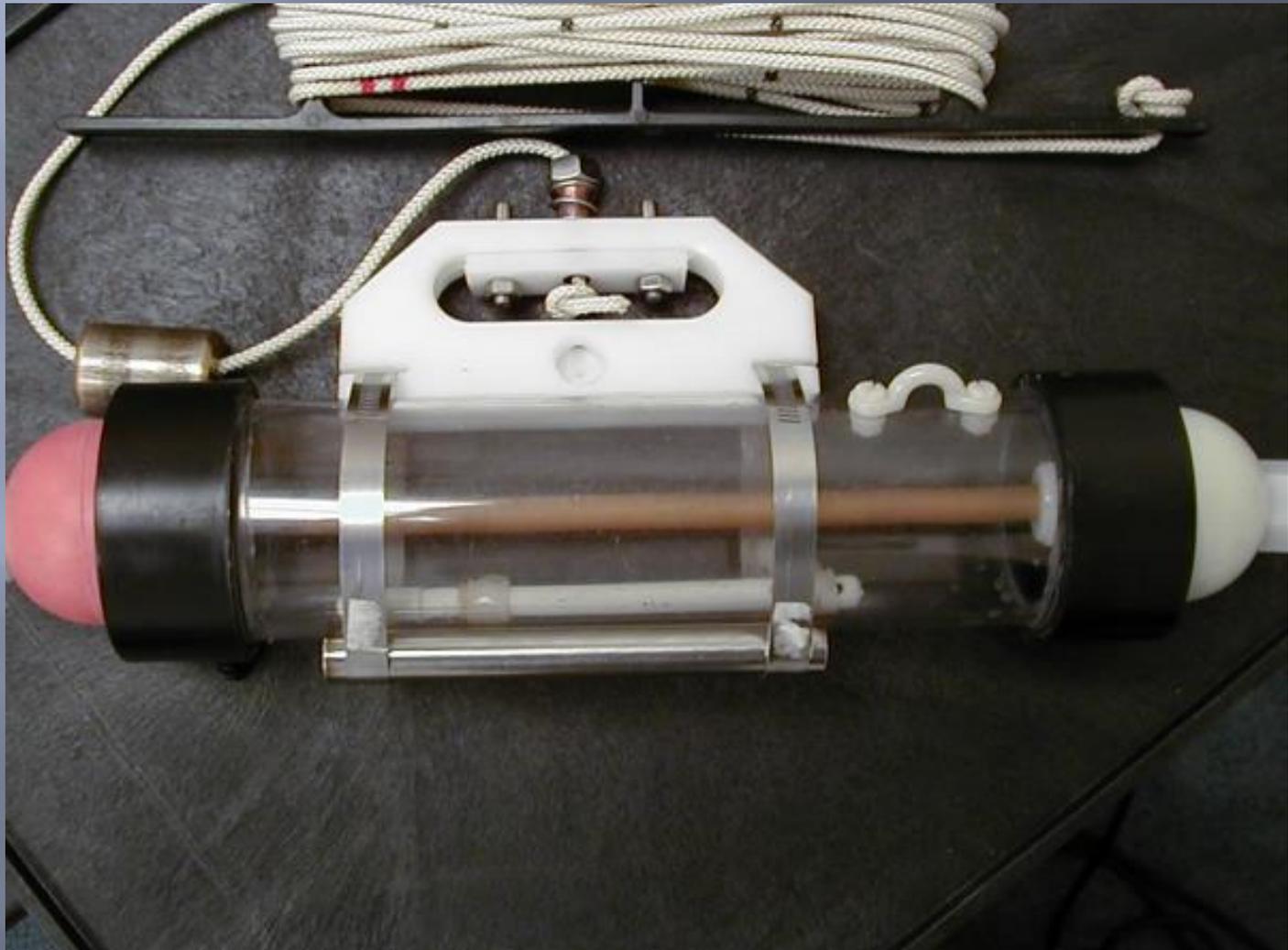
Total phosphorus and chlorophyll-s samples are collected the last two weeks of June, July and August



# Integrated Sampler

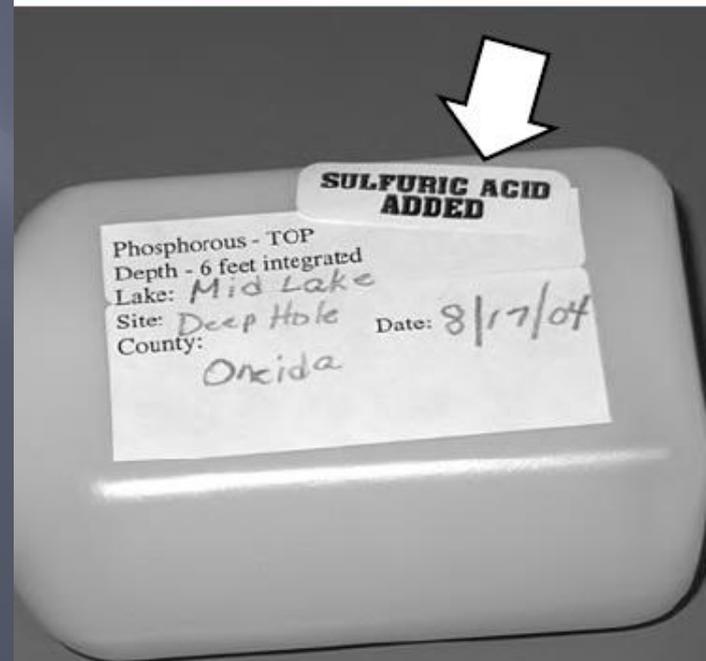


# Van Dorn water collection bottle



# Phosphorus

1. Add 1 vial of acid
2. Label the bottle
3. No need to check pH
4. Chill sample before shipping



# SULFURIC ACID <51%



**DANGER**  
7664-93-9  
7732-18-5

THERMO FISHER SCIENTIFIC  
520 NORTH MAIN STREET  
MIAMI, OK 74354  
1-828-658-2711

Contains: 1:3 H<sub>2</sub>SO<sub>4</sub>

May be corrosive to metals. Causes severe skin burns and eye damage. Do not breathe fume/mist/vapours. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. Wash contaminated clothing before reuse. IF SWALLOWED: rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Store locked up. Store in corrosive resistant container with a resistant inner liner.

See Safety Data Sheet (SDS)  
See Safety Data Sheet (SDS)

Contains: 1:3 H<sub>2</sub>SO<sub>4</sub>  
Lot No.: SA7299050  
Expires: 10/26/18

# Remove label from vial and put on lab form

Place Sulfuric Acid Vial Sticker  
Over This Box

**250 ml Nutrients Bottle (Acidify w/ Sulfuric Acid)**

Tot.- Phosphorus

# Chlorophyll-a



## MEASURE LAKE SAMPLE

200 ml if Secchi > 1.5 ft

100 ml if Secchi 1 - 1.5 ft

50 ml if Secchi < 1 ft

POUR INTO FILTER CUP



USE TWEEZERS TO  
PLACE FILTER ON  
CUP BASE

\*Be careful not to  
touch or tear filter

Either side of filter can  
be used

We have filter forceps

Rinse graduated  
cylinder with  
distilled water  
and  
Rinse sides of  
cup with  
distilled water  
so all algae gets  
on filter





**PLACE  
FILTER PAPER  
IN TUBE**

**Roll or Fold  
As Long As It  
Gets  
In The Tube**

within two weeks of ice off

State of Wisconsin Test Request - Citizen Lake Monitoring Network

Department of Natural Resources  
and Laboratory of Hygiene

\*\* DO NOT PHOTOCOPY \*\*

CLMN 643224

Billing and Reporting

Account Number SH022	Field Number (Bottle Label ID) May 643224
IBR User ID WIESED	Report To Name Dennis Wiese

Date and Time of Sample Collection

Date (mm/dd/yyyy)	Time (74 or clock)
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Sample Type

Sample Type:  SU Surface Water

Who collected the sample

Collected By Name	Telephone	Email
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Where the sample was collected

Station ID (STORE #) 643224	Sample Address or Location Description Dallard Lake - Deep Hole	
County 64-Vilas	Waterbody ID (WBIK) 2340700	Point / Outfall for SW MS Fieldwork See Note 155546830

Sample Details

Sample Description / Device Description

Sample Description / Device Description	If Field (grab) sample (select one): <input type="radio"/> Duplicate <input type="radio"/> Blank <input type="radio"/>	Depth of Sample (grab/Var. Depth): <input checked="" type="radio"/> F <input type="radio"/> M <input type="radio"/> In <input type="radio"/> Cm
	Strat or Project Number CLMN 643224	Or Top and Bottom of Sample Interval (Integrated sample): <input checked="" type="radio"/> F <input type="radio"/> M <input type="radio"/> In <input type="radio"/> Cm

Analyses Requested

Do not sample for chl until after May 31st.

Chlorophyll A (if Field Filtered, give ml \_\_\_\_\_ filtered)

Place Sulfuric Acid Vial Striker Over This Box

750 ml Nutrients Bottle (Acidify w/ Sulfuric Acid)

Tot. Phosphorus

Please enclose this form in the mailer along with the sample and send to the State Lab of Hygiene.

For lab use: Sample Temp \_\_\_\_\_ C Iced

# LAB SLIP

Complete the highlighted areas

Write the amount of water you filtered on the Lab Slip

# Tracking packages

- ▣ Tracked 82 packages in northern region – August only
- ▣ 60 of 82 samples arrived overnight to the State Lab.
- ▣ All of the samples arrived at the State Lab between 1:00 and 6:00 am
- ▣ Some of the samples in the western part of the state took longer to arrive in Madison – different distribution center?

# What did we learn?

- ▣ If you are able, chill your phosphorus sample in the frig before shipping
- ▣ If you are able, put your chlorophyll-a sample in the freezer before shipping
- ▣ Use as much ice as possible to pack the samples
- ▣ Be sure the zip lock bag is sealed
- ▣ If you sample more than one site, it might be a good idea to ship the samples in separate mailers.
- ▣ Should send QA samples in separate mailer

# Shipping Samples

- Best to ship on Monday thru Wednesday
- Phosphorus samples stored in refrigerator
- Chlorophyll samples stored in freezer

# Common Problems at Sample Receipt

- Using wrong bottles
- No or not enough ice
- Bottles received, but no lab slip
- Outdated lab slip
- Zip lock bag not sealed and box is soaked
- Missing or errors on lab slip
- P Samples not preserved with acid

**Any of these will delay or prevent getting the results**