



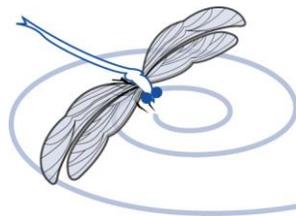
Michigan's Citizen Volunteer Partnership for Lakes

2019 Annual Summary

Managed By:

Michigan Department of Environment, Great Lakes, and Energy
Michigan Lakes and Streams Association, Inc.

Michigan State University Department of Fisheries and Wildlife
Great Lakes Commission
Huron River Watershed Council



Michigan Clean
Water Corps

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I. Introduction

The Michigan Department of Environment, Great Lakes, and Energy (EGLE), Michigan Lakes and Streams Association (MLSA), the Great Lakes Commission, the Huron River Watershed Council, and Michigan State University have partnered to implement the Cooperative Lakes Monitoring Program (CLMP).

The goals of the CLMP are to:

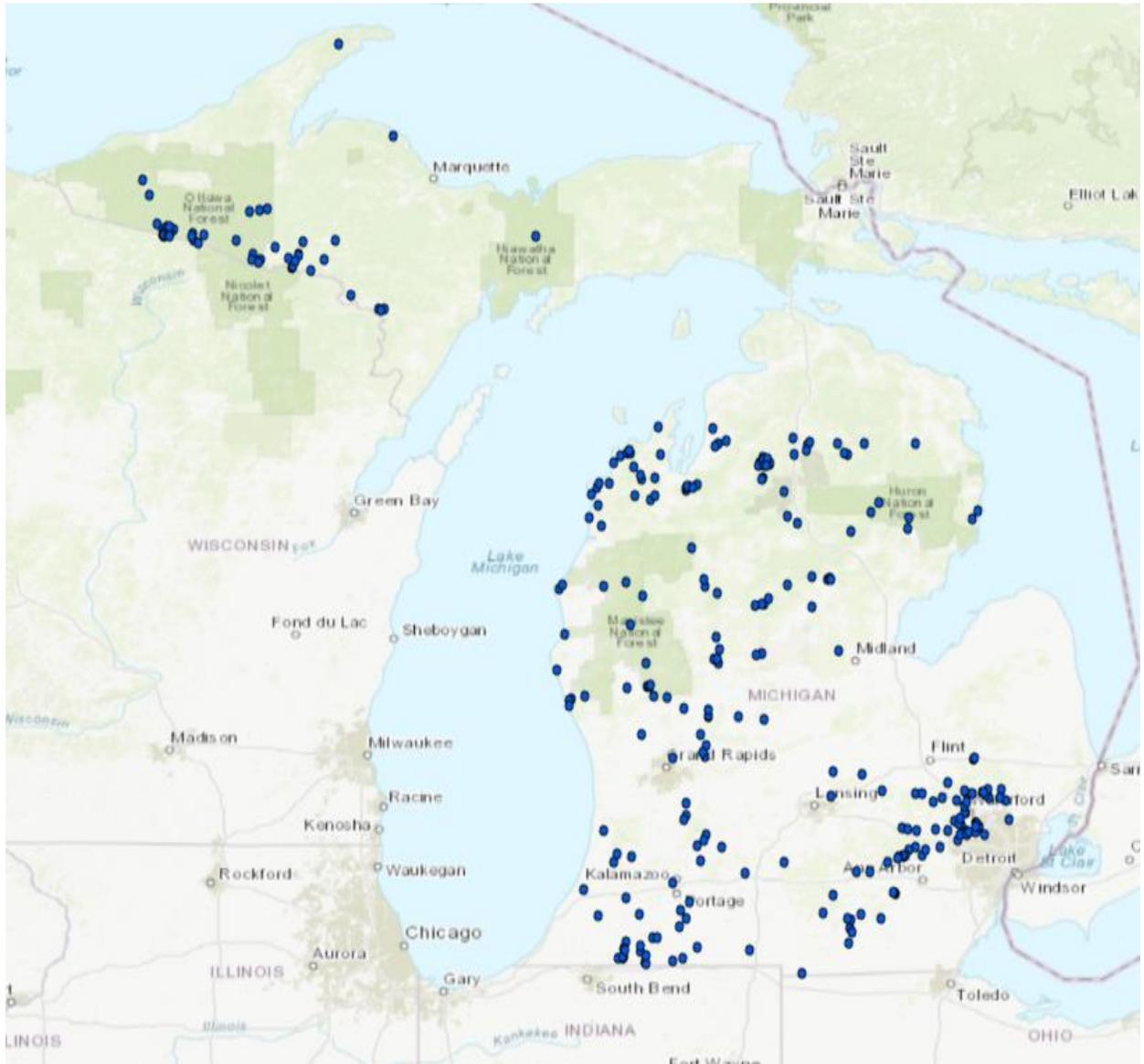
- Provide baseline information and document trends in water quality for individual lakes.
- Educate lake residents, users, and interested citizens in the collection of water quality data, lake ecology, and lake management practices.
- Build a constituency of citizens to practice sound lake management at the local level and to build public support for lake quality protection.
- Provide a cost-effective process for EGLE to increase baseline data for lakes state-wide.

This report summarizes the 2019 CLMP field season.

To learn more about the CLMP program, there are many other resources available:

1. The Michigan Clean Water Corps website includes a variety of resources such as the online database which contains all CLMP data. <https://data.micorps.net/view/lake/>
2. The CLMP Manual contains an overview of the program and the volunteer monitoring procedures: <https://micorps.net/wp-content/uploads/sites/63/2019/06/CLMP-Manual-2019update.pdf>
3. Starting in 2014, each lake enrolling in the program received an individual report summarizing their data. <https://micorps.net/lake-monitoring/individual-lake-reports/>
4. The CLMP Quality Assurance Project Plan (QAPP) is a detailed report on how the CLMP collects and maintains high quality scientific data: https://cdn.cloud1.cemah.net/wp-content/uploads/sites/63/2018/06/QAPP_CLMP_2018.pdf

II. Map of 2019 CLMP Participating Lakes



III. Summary Statistics of Monitored Parameters

A. Secchi Disk Transparency

CLMP volunteers measure water transparency using a Secchi disk from late spring to the end of the summer. Ideally, 18 weekly measurements are made from mid-May through mid-September. Minimum participation requires submitting 1 measurement; full participation is submitting at least 8 measurements.

2019 Secchi Disk Transparency	
No. of sites enrolled	287
No. of sites meeting minimum participation	241 (84%)
No. of sites meeting full participation	227 (79%)
Total no. of measurements reported	3315
Lake with lowest average transparency	2.2' (Diane Lake, Hillsdale County)
Lake with highest average transparency	39.8' (Papoose Lake, Kalkaska County)
Mean (average) measurement of all lakes	12.9'
Mean (average) TSI of all lakes	41.6'

B. Total Phosphorus

CLMP volunteers collect water samples for total phosphorus during spring overturn, when the lake is generally well mixed from top to bottom, and during late summer, when the lake is at maximum temperature stratification from the surface to the bottom.

2019 Total Phosphorus Monitoring	
<u>Spring Overturn Sampling</u>	
No. of sites enrolled	220
No. of sites submitting valid samples	198 (90%)
Minimum reported value	< 3 µg/L (multiple lakes)
Maximum reported value	100 µg/L (Crockery Lake, Ottawa Co)
Mean (average) value	12.7 µg/L
<u>Summer Stratification Sampling</u>	
No. of sites enrolled	263
No. of sites submitting valid samples	240 (91%)
Minimum reported value	< 3 µg/L (multiple lakes)
Maximum reported value	65 µg/L (Diane Lake, Hillsdale Co)
Mean (average) value	14.9 µg/L
Mean (average) TSI	38.4

C. Chlorophyll-a

Volunteers collect water samples for chlorophyll-a, an estimator of the amount of algae in the water column, once per month from May through September. Minimum participation requires at least one valid sample be submitted; at least four valid samples must be submitted to be considered full participation in this parameter.

2019 Chlorophyll-a Monitoring	
No. of sites enrolled	145
No. of sites meeting minimum participation	134 (92%)
No. of sites meeting full participation	123 (85%)
Total no. of valid samples	618
Minimum median Lake measurement	< 1 µg/L (multiple lakes)
Maximum median Lake measurement	18 µg/L (Diane Lake, Hillsdale Co, and Earl Lake, Livingston Co)
Median Lake measurement	3.8 µg/L
Mean (average) TSI	39.3

D. Dissolved Oxygen and Temperature

CLMP volunteers measure dissolved oxygen and temperature profiles for their lakes, measured from the surface to within 3 feet of the bottom, at the deepest point in the lake. These profile measurements are made with an electronic dissolved oxygen meter (YSI Pro20 or YSI 550A), ideally every two weeks from mid-May through mid-September.

2019 Dissolved Oxygen and Temperature Monitoring	
No. of sites enrolled	69
Using EGLE meter	40
Using own meter	29
No. of sites submitting at least one profile	59 (85%)
Total no. of profiles submitted	486

E. Exotic Aquatic Plant Watch

Volunteers in this monitoring program survey their lakes for invasive aquatic plants of special concern for Michigan lakes: curly-leaf pondweed, Eurasian watermilfoil, Hydrilla, starry stonewort, and European frog-bit

2019 Exotic Aquatic Plant Watch	
No. of sites enrolled	74
No. of sites submitting report	38 (51%)
No. of lakes reporting Eurasian water milfoil:	23 (61%)
No. of lakes reporting curly-leaf pondweed:	16 (42%)
No. of lakes reporting Hydrilla:	0 (0%)
No. of lakes reporting starry stonewort:	17(33%)
No. of lakes reporting European frog-bit:	0 (0%)

F. Aquatic Plant Identification and Mapping

This program is the most labor-intensive volunteer activity within the CLMP. Typically, a team of volunteers from each enrolled lake is involved, with assistance from a MiCorps biologist. The end result is a plant distribution map and abundance report for all plants growing in the lake, including both native and, if found, invasive species.

2019 Aquatic Plant Mapping	
No. of sites enrolled	9
No. of sites submitting report	7 (78%)

G. Score the Shore

Volunteers motor around their lake, reviewing 1000-foot sections of shoreline for littoral habitat, riparian habitat, and erosion control. Sections with natural habitat will have higher scores than ones with hardened shorelines. Each lake is scored on a 0-100 scale. Scores for each section as well as for the entire lake allow volunteers to review high quality areas as well as sections that would benefit from habitat enhancement.

2019 Score the Shore	
No. of sites enrolled	39
No. of sites submitting report	12 (31%)
Total No. of lake sections scored	196
Avg Score	71

IV. EGLE Side-by-Side Data Verification

An EGLE biologist monitors several lakes a year alongside the CLMP volunteers for phosphorus and chlorophyll. In the early years of the program, EGLE used its standard operating procedures to collect the data, which differ slightly from the volunteers' monitoring procedures. The goal of the side-by-side visits was to ensure that the volunteer procedures produced accurate data. The correlation between EGLE samples and volunteer's samples has proven to be very high through many years of these side-by-side tests. CLMP and EGLE staff have concluded that the original goal of the side-by-sides has been met.

Starting in 2011, EGLE began to use the volunteer procedures to run the side-by-side data verifications. The new goal of the side-by-side visits are to build relationships with the volunteers and ensure that they correctly follow the volunteer procedures as a check on the training protocols.

A. 2019 Total Phosphorus Side-by-Side samples

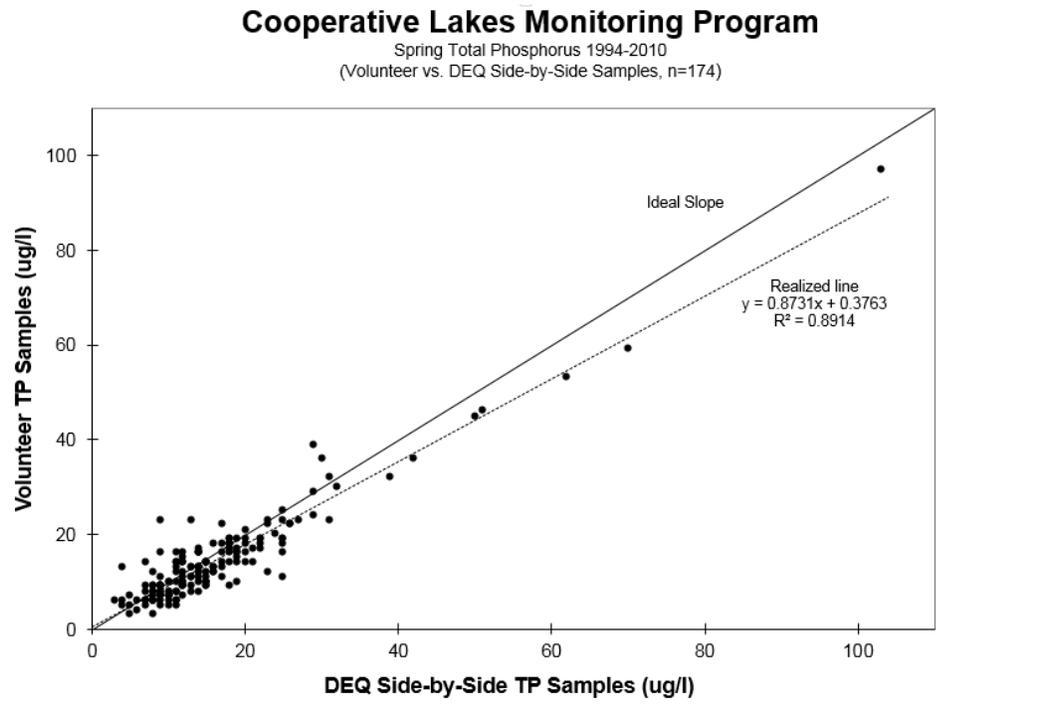
Date	Lake	Lake ID	County	Phosphorus ($\mu\text{g/L}$)			
				Vol	Rep	EGLE	Rep
9/5/19	Lily	180066	Clare	10		11	10
9/5/19	Windover	180069	Clare	8		8	7
9/6/19	Long	350076	Iosco	14		13	14
9/12/19	Brooks	620063	Newaygo	24		25	25

B. 2019 Chlorophyll Side-by-Side samples

Date	Lake	Lake ID	County	Chlorophyll ($\mu\text{g/L}$)			
				Vol	Rep	EGLE	Rep
5/15/19	Aginaw	780261	Shiawassee	<1.0		<1.0	
6/10/19	Emerald	410709	Kent	1.1		4.0	
6/11/19	Sylvan	631244	Oakland	1.3		<1.0	
6/11/19	Otter	631193	Oakland	1.0		1.4	
7/18/19	Klinger	750136	St. Joseph	5.7		4.0	3.6
7/19/19	Stony	640049	Oceana	13		6.1	14
9/6/19	Long	350076	Iosco	4.5		4.6	4.2

C. Total Spring Phosphorus Side-by-Side Data

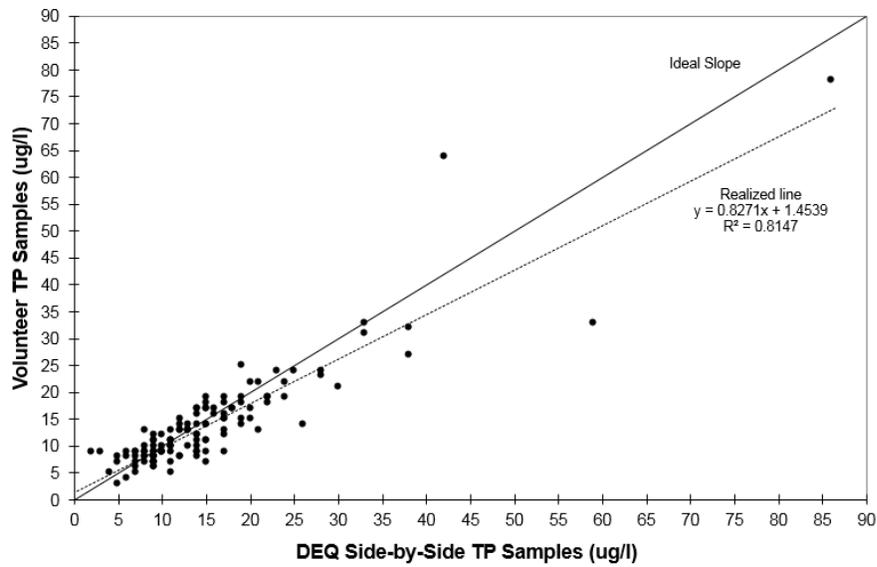
1994-2010



2011-2018: Graph not produced. (Because spring phosphorus is taken quickly after ice out, it is not possible to plan ahead for spring P side-by-sides and these samples are no longer taken).

D. Total Summer Phosphorus Side-by-Side Data
Cooperative Lakes Monitoring Program

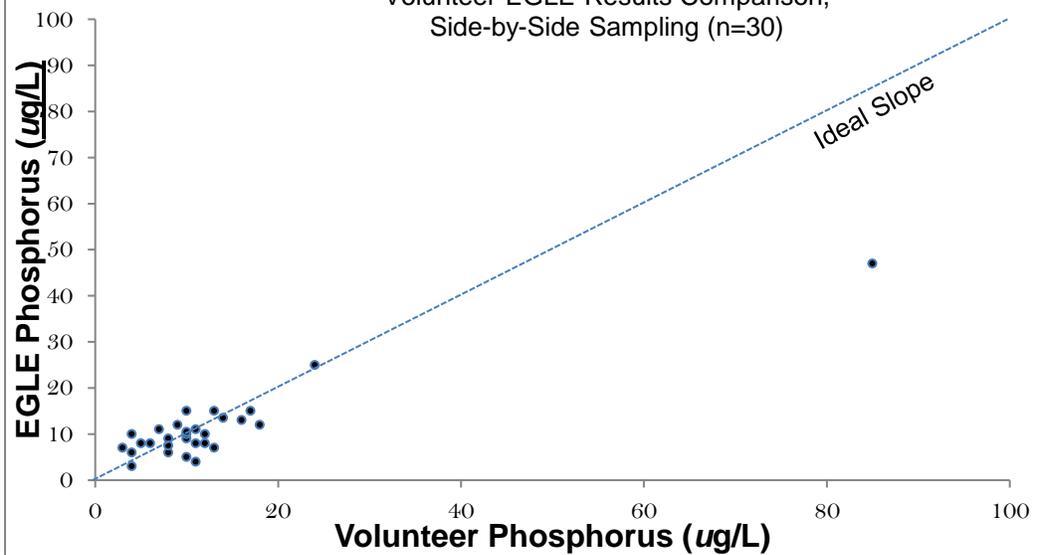
Summer Total Phosphorus 1998-2010
 (Volunteer vs. DEQ Side-by-Side Samples; n = 126)



2011-2019

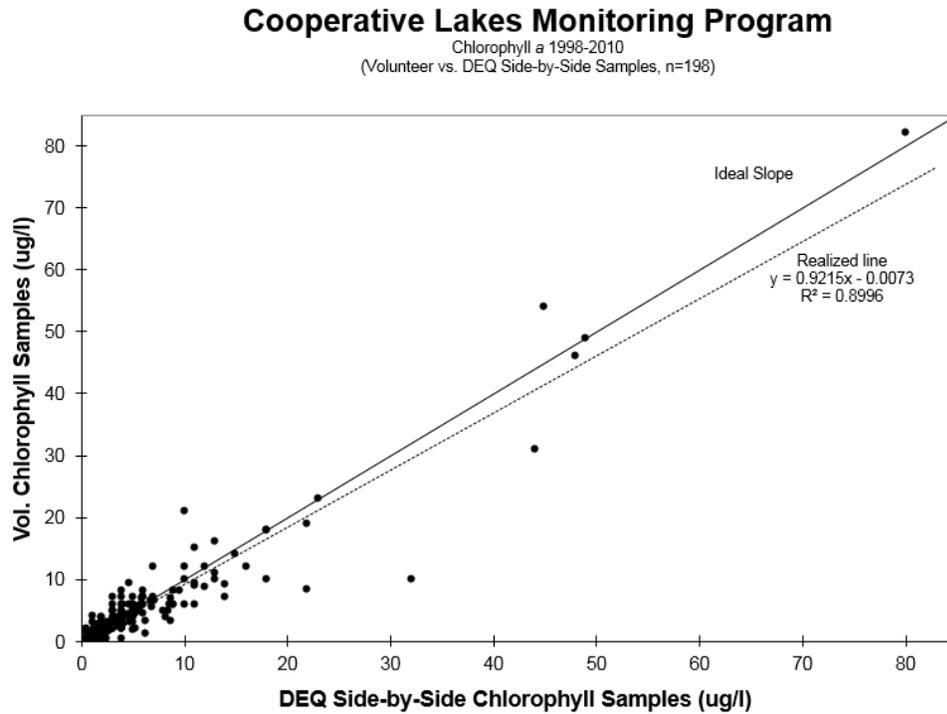
Cooperative Lakes Monitoring Program

Summer Total Phosphorus 2011-2019
 Volunteer-EGLE Results Comparison,
 Side-by-Side Sampling (n=30)

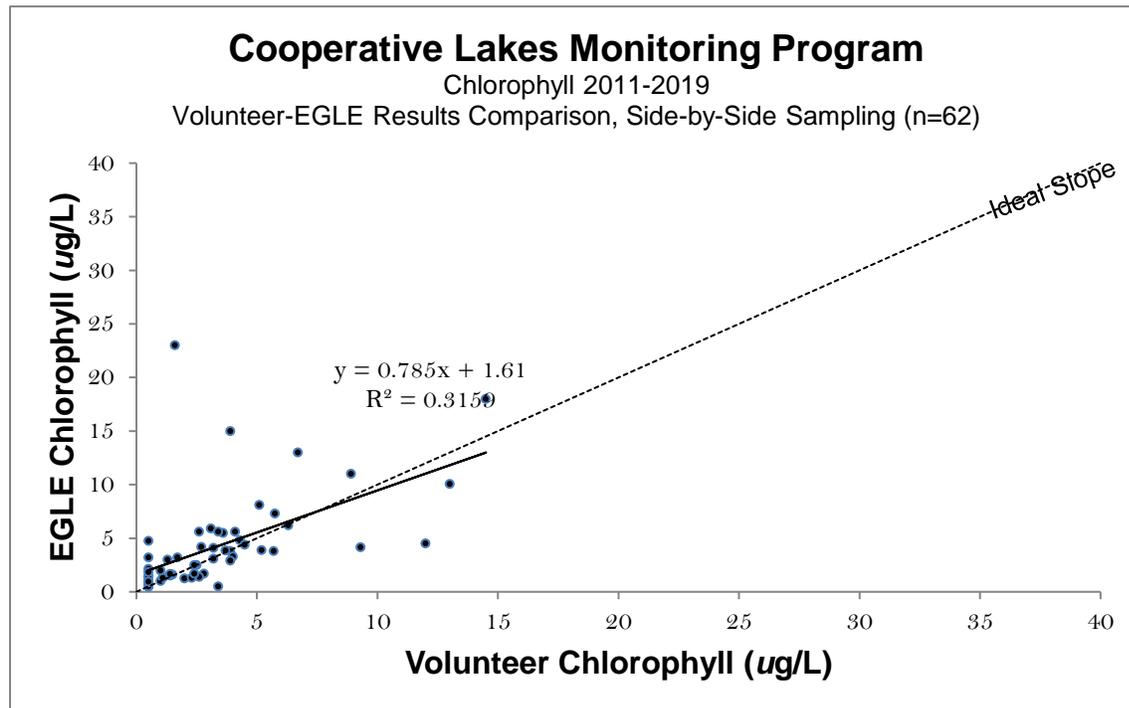


E. Chlorophyll, Side-by-Side Data

1994-2010



2011-2019



V. Thank you, CLMP Volunteers!

LAKE NAME	COUNTY	VOLUNTEER
Africa (Big)	Gogebic	Loretta Cornfield, John T. Oliver III
Africa (Little)	Gogebic	Loretta Cornfield, Eugene Clark
Aginaw	Shiawassee	Richard Kasowski, Nanci M. Hengesbaugh, John Somogyi, Jeffrey L. Cousins
Angela	Oakland	Leanora Fisher, Ann Zomberg, William Young, Michelle Russo, Karen Keehr
Ann	Benzie	David Maxson, Sven Anderson
Antoine	Dickinson	Connie Jayne
Arcadia	Manistee	Donald Oswell
Armstrong	Leelanau	David Hampton
Arnold	Clare	John Hood, Michael Toner, Tony Koritnik, Don Ferguson
Artutus	Grand Traverse	Bob Johnson
Avery	Montmorency	Lyle Dodson
Avon	Oakland	Gary Beach
Balwin	Cass	Michael Schirott
Bar (South)	Leelanau	John Peterson, John Collins
Barlow	Barry	Mike Cunningham
Barton	Kalamazoo	Mark Mitchell
Baseline	Livingston	Jon Waitz, Jim Meyer
Bass (Big)	Lake	Lisa Adams, Albert Merriman, Colleen Howes
Bay (East)	Vilas/Gogebic	Loretta Cornfield, Jim Okraszewski
Bay (West)	Vilas/Gogebic	Loretta Cornfield
Bear	Kalkaska	Michael Boss
Bear	Manistee	Chuck Wolverton, William Fronk
Bear (Big)	Otsego	Gregg Kabacinski
Beaver	Alpena	Jeff Myer, Sr., Jeff Meyer, Jr.
Bellaire	Antrim	Rebecca Norris, Duane Drake
Betsie	Benzie	Jane Perrino
Big	Gogebic	Loretta Cornfield, Thomas Krautkramer
Bills	Newaygo	Ed Waits
Birch	Cass	Paul Fallon, Terry Dugan, Gordon Seyfarth, Rick Russwurm
Bloomfield (West)	Oakland	Jill Forbis
Blue	Iron	Tom Anderson
Blue	Mecosta	David Lewis, Jay Beniveгна
Blue (Big)	Kalkaska	Neil Barr
Blue (Chancellor)	Mason	Mary Ann Vargas
Blue (North)	Kalkaska	Mary Shaw
Bradford (Big)	Otsego	Gary Johnson
Brendle	Oakland	Corey O'Higgins
Bristol	Barry	Ric Rentfro
Brooks	Leelanau	Ernest Litch

Brooks	Newaygo	Kent Cole, Martin Felix, Steve Walmer, Jane Velthouse
Brown's	Jackson	Robert Chaprnka
Byram	Genesee	Jannell Tillman, Mark Baynes
Camp	Iron	Gale Cerney
Cass	Oakland	Leslie Clark
Cedar	Alcona	Gary Gross, Ron Henning
Center	Osceola	Harris Iler
Chain	Iosco	Jean Roth
Chemung	Livingston	Ryan Hoffecker
Chicagon	Iron	William Rossi
Chippewa	Mecosta	Bryan Roels, Paul Phillips, Mark Coscarelli
Christiana	Cass	Doug Hansen
Cisco	Gogebic	Loretta Cornfield, Jay Sweney
Clam	Antrim	Rebecca Norris, Art Hoadley
Clark	Livingston	Carl Slindee
Clear	Jackson	Allen Dyer, Walter Alexander
Clear	Oakland	Sheryl Hugger
Clear	Ogemaw	David Ball
Clearwater	Gogebic	Loretta Cornfield
Cobb	Barry	Jeff Ulin
Coldwater	Isabella	Charles Walmsley
Corey	St. Joseph	Mary Sue Pollitt
Cranberry	Oakland	Ron Heady
Crockery	Ottawa	Pat Wolters, Bob Blauwkamp, Dennis Arms
Crooked	Kakaska	Daryl-Allison Busch
Crooked (Big)	Kent	Tom Betts
Crooked (Upper)	Barry	Michael Mutschler, James Minich, Pete Minich
Crystal	Benzie	John Ransom
Crystal	Gogebic	Yvonne Stone, Tom Behling
Crystal	Montcalm	Joseph Kopchick
Cub	Kalkaska	Bonnie Isaacs
Deer	Oakland	Carolyn Gill
Derby	Montcalm	Chris Bamford, Tom Rush, Dave Niner, John Collins, David Baehren
Devils	Lenawee	Cheryl Zuelke
Diamond	Cass	Robert Clark, Thomas Block
Diamond	Newaygo	Lucas Cotton, Mary Rettig
Diane	Hillsdale	Arda Bucher, William Smith
Dinner	Gogebic	Patricia Wendt, Roy Green
Dixie	Oakland	Mike Mulligan
Dollar	Oakland	Leslie Clark
Duck	Calhoun	Nanette Hibler
Duck	Grand Traverse	Ed Dewey
Duck	Muskegon	Dr. Thomas Tissue, Lynn Knopf

Duck (North)	Gogebic	Ursula Charaf, Cheryl Pytlarz
Duck (South)	Gogebic	Ursula Charaf, Cheryl Pytlarz
Eagle	Allegan	Cary Hamann
Eagle	Cass	Lori Mroczek, Brigid Forlenza, Kenneth Hrubes, Laura Jamrog
Eagle	Kalkaska	Jane Patterson
Eagle	VanBuren	Brooke Fogt, Blair Zoodell
Earl	Livingston	John Hartsig, Jim Gonzalez, John DiGiovanni
Ellen	Iron	Mike Finney, William Fleming
Emerald	Kent	Mike Devarenne
Emerald	Newaygo	Becky Walachovic
Farwell	Jackson	Mark Little, Jan Omo
Fish	VanBuren	Connie Selles
Fish Hawk	Gogebic	Loretta Cornfield, Tom Zichen
Fisher	St. Joseph	Eric Shafer
Fisher (Big)	Leelanau	Ernest Litch, Bruce Lichliter
Fortune (First)	Iron	Steve Peterman
Fortune (Second)	Iron	Steve Peterman
Fremont	Newaygo	Andy Harrington
George	Clare	Dennis Zimmerman
Gilbert	Oakland	Jim Parker
Glen	Leelanau	Ernest Litch, Andra DuPont, John Lund
Glen (Little)	Leelanau	Ernest Litch
Gogebic (North)	Gogebic.Ont	Mark Brown
Gogebic (South)	Gogebic.Ont	Mark Brown
Golden	Iron	Dean Pelkey
Gratiot	Keweenaw	Bonnie Hay
Gravel	VanBuren	Greg Garrett
Green	Grand Traverse	Ed Dewey, Marc Alderman
Gull	Kalamazoo	Mike Gallagher
Hagerman	Iron	Pierre Gendron, Jerry Cederna
Hamilton	Dickinson	Martin Straka, Melissa Steffel
Hamlin (Lower)	Mason	Bruce Pelletier, James Clark, Joe Muzzo
Hamlin (Upper)	Mason	Bruce Pelletier, Keith Crompton
Hammond	Oakland	Theodore Kanakis
Hannah Webb	Iron	Sara Basso
Harwood	Cass	Jim Kings
Hawk	Oakland	Gordon Buchanan
Herendeen	Benzie	Jane Perrino
Herring (Upper)	Benzie	William Henning, David Long
Hicks	Osceola	Nancy Beckwith
Higgins (North)	Roscommon	Ann Bolzman
Higgins (South)	Roscommon	Ann Bolzman
Horsehead	Mecosta	Robert Forche, Fred Kuebler

Huff	Oakland	Rich Hanes
Hunter	Gladwin	Kathryn Haughton
Hutchins	Allegan	Jill O'Connor
Independence	Marquette	Sarah Heuer, David Kadell
Indian	Kalamazoo	John Wilks, Mike Gildea, Thomas Kowalski, Corrie Robbins, Jeffrey Schimp
Indian	Kalkaska	Ed George
Indian	Vilas/Gogebic	Loretta Cornfield, Mary Ruhl
Indianwood	Oakland	Todd Rachel
Isabella	Isabella	Mike Scherba, George King
Island	Gladwin	Linda Frost
Island	Grand Traverse	John Mater
Juno	Cass	Doug Hansen
Klinger	St. Joseph	Michael Needham, Julie Daniel Stutesmon
Lakeville	Oakland	Jeff Banaszynski
Lancer	Gladwin	Tim Stegeman, Robert Heydenburg, Mario Laudicina, Jac Groppuso, Tim Stegeman
Langford	Gogebic	Jim Donlan
Leelanau (North)	Leelanau	Brian Price, Wayne Wunderlich
Leelanau (South)	Leelanau	Brian Price
Leninger	Cass	George Purlee
Lily	Clare	Rachel Markson
Lindsley	Gogebic	Loretta Cornfield, Robert McGuffin
Long	Benzie	Jane Perrino
Long	Cass	Paul Sigg, Bill Coleman, Connie Mulcahy-Holt, Karen Balch
Long	Gogebic	Arny Domanus Jr.
Long	Grand Traverse	Len Klein, Barry Lishawa, Richard Roepor, Michelle Preston, Abbey Hull
Long	Iosco	Christopher Tyll
Long	Oakland	Denise Kramer, Lawrence Gavin, Collin O'Dea
Long (Cloverdale)	Barry	Doug Bamfield, Kenneth Chandler
Long (Little)	Barry	John Etcorn
Long (Upper)	Oakland	Ron Cousineau, Steve George
Loon	Oscoda	Matthias Bonzo
Lost	Oakland	Benjamin VanderWeide
<u>Lotus</u>	Oakland	Marilyn Merit
Louise	Dickinson	Martin Straka
Louise	Oakland	Dwight Woodbridge
Maceday	Oakland	Marilyn Merit
Mack	Oscoda	Matt Bonzo
Maggie (Big)	Iron	Robert Willing
Maggie (West)	Iron	Robert Willing
Magician	Cass	Mick Braman
Mamie	Vilas	Loretta Cornfield

Manitou	Shiawassee	Fred Farkas
Margrethe	Crawford	Sandra Michalik, John Alef
Mary	Dickinson	Martin Straka
Mary	Iron	Paul Dalpra
Maston	Kent	Jon Wilford, Jerry Bukoski, Fred Jensen
Mecosta	Mecosta	David Lewis, Jay Benivegna
Middle	Lapeer	Chris Powers, Karen Warne
Middle Straits	Oakland	Alan Proulx
Moon	Gogebic	Dale Sharpee, Robert Turnquist, Loretta Cornfield
Murray	Kent	Mark Bradburn, Tom Donaldson
Muskellunge	Kent	Jon Wilford
Muskellunge	Montcalm	Mike Russell
Nepessing	Lapeer	Robert VanDenBrouck, Lonnie Loveland
North	Washtenaw	Daniel Kruse, Charles Taylor
Oneida	Livingston	Cathy Sayre
Opal	Otsego	Robert Baroni
Ore	Livingston	Kurt Richardson
Orion	Oakland	Michael Kellar
Osterhout	Allegan	Gale Rewa
Ottawa	Iron	Mike Golas
Otter	Oakland	Deborah Emmer, Kim Yeip, Lori Barnche, Elizabeth Hoffer
Ovid	Clinton	David Zmikly
Owasippe	Muskegon	Bob Tuttle, Ron Weihl Jr.
Oxbow	Oakland	Richard Walklet
Painter	Cass	Doug Hansen
Paposse	Kalkaska	Eldonna May
Park	Clinton	Nola Parkey, Daniel Hayes, Donald Parkey, JB McCombs
Payne	Barry	Linda Davis, John TenCate
Pentwater	Oceana	Joe Primozich, Rich Pugsley
Perch	Iron	Jim Novitski
Perch	Otsego	Mary Bremigan
Perrin	St. Joseph	Stan Grove, Christine Oswald, Robert Schwartz
Pickerel	Kalkaska	Paul Curell
Pickerel	Newaygo	Bill Alsover
Pine Island (Big)	Kent	Cristal Belk, Andrew Belk, Scott DeMeyer
Platte (Big)	Benzie	Maris Ziemelis
Pleasant	Oakland	Jonathan Singo
Pleasant	Washtenaw	Lon Nordeen
Pleasant	Wexford	Roger Hopkins
Poor	Gogebic	Loretta Cornfield, Greg Wenzel
Portage	Livingston	Jim Collins
Portage	St. Joseph	Carolyn Grace
Portage (Big)	Jackson	Carmen Burgess

Portage (Little)	Livingston	Craig Kivi
Posey	Lenawee	Terry Mohler
Puterbaugh	Cass	George Purlee
Ranger	Otsego	Curt Horvath
Record	Gogebic	Loretta Cornfield
Rennie	Grand Traverse	Susan LaRose
Robbins	Cass	Alex Bozymowski
Rose	Osceola	Rick Paalman
Rose (Lk.of Wds)	Branch	Greg Gemmill, Keith Huffman, Mark Ferry, Tom Rosewarne
Round	Lenawee	Jim Martin, Pete Macauley
Round	Mecosta	David Lewis
Round	Oakland	Colleen Schmidt, Paulette Wcisel, Darlene Norloch
Sanford	Midland	Jon Morse
School Section	Mecosta	Don Swanson
Scram	Kent	Randy Kaja
Sears	Oakland	Stephen McKenzie, Michael La Londe
Seymour	Oakland	David Wilson, Robert DeVore
Shavehead	Cass	Jack DeLee
Sherwood	Oakland	T.J. Gurski
Shingle	Clare	Dennis Zimmerman, Joe Kentz
Silver	Genesee	Douglas Pohlod
Silver	Lenawee	Michael McKenna
Silver	VanBuren	Ronald Kreiger
Silver (G. Oaks)	Livingston	Dale French
South	Lenawee	Gary Van Heusen
Spider	Grand Traverse	William Unger, Bob Weaver
Squaw	Kalkaska	Mitchell LeClaire, James Owens
Squaw	Oakland	Cindy Wright, Kay Collins, Glenn McTaggart
Stager	Iron	Sylvia Madded, John Reed
Stanley	Iron	John Reed
Star (Big)	Lake	Bernard Woltjer
Starvation	Kaklaska	Bob Barr
Stony	Oceana	John Stivers
Straits (Upper)	Oakland	Doug Cooper
Sunset	Iron	Michael Golas, Donald Homa, Ann Christensen
Swan	Iron	Tom Ollila
Sylvan	Newaygo	Becky Walachovic
Sylvan	Oakland	Deborah Emmer
Tamarack	Livingston	Jim Meyer
Taylor	Oakland	Charles Pilar
Theresa	Oakland	Alicia Digirolamo
Thousand Island	Gogebic	Loretta Cornfield, Lee & Jessica Ryden
Tie	Alger	Joanne Saari

Torch (North)	Antrim	Rebecca Norris, Duane Drake
Torch (South)	Antrim	Rebecca Norris
Tull # 1	Oakland	Joseph Jereckos
Tull # 2	Oakland	Gerald Bronersky
Turtle	Benzie	Jane Perrino
Twin	Oakland	Benjamin VanderWeide
Twin (Big)	Kalkaska	Marv Kingsley, Jason Broekstra
Twin (East)	Montmorency	John Jackson
Twin (Little)	Kalkaska	Ellen Whitehead
Twin (West)	Montmorency	Jerry Beattie
VanEtten	Iosco	Daniel Stock
Viking	Otsego	Kent Murray
Vineyard	Jackson	Roger Gaede
Wahbehememe	St. Joseph	Victor Raul
Wall	Barry	Alan Freid
Walled	Oakland	Tina Miller
White (East)	Muskegon	David Hays, Mike Cook, Sue Sandie, Chelsey Wabsis
White (West)	Muskegon	David Hays
Whitefish (Big)	Montcalm	David Cornelius
Whitewood	Livingston	Diane Tryon
Whitmore	Wash/Liv	William Creal
Willow	Oakland	Laurie Orlando
Windover	Clare	Timothy Kiefer, Ed Novak, Wayne Kiefer
Winslow	Iron	J. Mark Klink
Wolf	Lake	Don & Gretchen Klobucar
Woods	Kalamazoo	Steven Clark

VI. Thank You Sample Collection Center Staff!

These individuals help with the logistics of collecting samples, mailing them to Lansing, and distributing and collecting Dissolved Oxygen meters.

James Caron
Kristina Coffey
Katherine David
Debra Frazier
Greg Goudy
Martin Hendges
Sonya Hudson
Nicole McIntyre
Deana Mercs
Amanda Nelson
Amy Nevison
Deana North
Lindsay Peterson
Jeff Pytlarz
Lucy Robinson
Jean Roth
Crystal Smith

VIII. CLMP Contacts

Note:

The CLMP will not be running for the 2020 field season. There is alternative monitoring available that follows the CLMP protocols and you can learn more about it here:

<https://www.hrwc.org/what-we-do/programs/2020-lake-monitoring/>

Questions about enrollment or monitoring equipment:

Jean Roth

Michigan Lakes and Streams Association, Inc.

989-257-3715, jroth@mlswa.org

Questions about aquatic plants or sample turn-in for any parameter:

Dr. Jo Latimore

Michigan State University

517-432-1491, latimor1@msu.edu

Questions about Dissolved Oxygen/Temperature meters or side-by-side sampling:

Marcy Knoll Wilmes

Michigan EGLE

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Questions about data entry or getting a login/password for the MiCorps Data Exchange:

Questions about data results and interpretation or anything else:

Dr. Paul Steen

Huron River Watershed Council

734-769-5123 x601, psteen@hrwc.org