

# Miner Lake Association Fall 2017 Meeting

*September 2, 2017*

# Agenda

- ◆ Approve Minutes from Spring Meeting
- ◆ Treasurer Report
- ◆ Miner Lake Dam - Financial Report
- ◆ Natural Gas - Highlights and Public Interest
- ◆ Water Quality Report
- ◆ Membership Topics and Q/A

# Spring Meeting Minutes

◆ Joyce Merrill - MLPOA Secretary

# Treasurers Report

## ◆ Helen Setter - MLPOA Treasurer

<b>Balance 5/27/17</b>		<b>\$11,711.10</b>
<b>Deposits</b>		<b>\$840.00</b>
<b>Expenses</b>		<b>-\$101.68</b>
<b>Balance 9/2/17</b>		<b>\$12449.42</b>

# Miner Lake Dam

- ◆ Construction Fully Completed
- ◆ Allegan County Drain Commissioner Project Costs and Fund Balances (8/2017)

Total Expenses	\$382,246.25
Total Income	\$431,613.34
Fund Balance	\$49,367.09

- ◆ Planned Contingency Balance \$47,009

<b>Category - Expense</b>	<b>Computation of Cost</b>	<b>Actual</b>	<b>Vendor</b>
<b>Construction</b>	<b>\$207,423.75</b>	<b>\$210,604.09</b>	<b>Riverworks</b>
<b>Const. Maint</b>	<b>\$1,475.00</b>	<b>\$1,475.00</b>	<b>Quantum / Genzink</b>
<b>Staff Engineer</b>	<b>\$5,345.00</b>	<b>\$5,895.00</b>	<b>AC Eng</b>
<b>Contr. Engineer</b>	<b>\$82,221.10</b>	<b>\$81,204.70</b>	<b>FTC&amp;H</b>
<b>Drain Crew Exp.</b>	<b>\$1,247.76</b>	<b>\$2,904.41</b>	<b>ACDC/ACE</b>
<b>Cost of Appeal</b>	<b>\$11,350.00</b>		
<b>Publishing</b>	<b>\$853.70</b>	<b>\$384.40</b>	<b>Kaechele</b>
<b>Attorney Fees</b>	<b>\$40,006.70</b>	<b>\$40,163.43</b>	<b>Fahey, Schultz</b>
<b>Financial Attorney</b>	<b>\$12,000.00</b>	<b>\$14,000.00</b>	<b>Dickinson-Wright</b>
<b>Financial Advisors</b>		<b>\$11,400.00</b>	<b>Bendzinski &amp; Co.</b>
<b>Easements</b>		<b>\$2,950.00</b>	<b>Escrow</b>
		<b>\$900.00</b>	<b>Chicago Title</b>
		<b>\$275.00</b>	<b>Wightman &amp; Assoc.</b>
		<b>\$385.00</b>	<b>Bonnie Rozema</b>
		<b>\$4,500.00</b>	<b>Vertalla &amp; Vertalla</b>
<b>First Year Interest</b>	<b>\$10,885.48</b>	<b>\$3,884.22</b>	<b>Hastings City Bank</b>
<b>Rec RofW Exp</b>	<b>\$282.00</b>	<b>\$421.00</b>	<b>Register of Deeds</b>
<b>MAC Fees</b>	<b>\$500.00</b>		
<b>Treasury Fees</b>	<b>\$400.00</b>	<b>\$900.00</b>	<b>State of Michigan</b>
<b>Subtotal</b>	<b>\$373,990.49</b>	<b>\$382,246.25</b>	
<b>Contingency</b>	<b>\$47,009.32</b>		
<b>Total</b>	<b>\$420,999.81</b>	<b>\$382,246.25</b>	

<b>Category - Income</b>	<b>Actual</b>
<b>2012 373 Beginning Cash</b>	<b>\$2,237.54</b>
<b>2012 373 Interest</b>	<b>\$1.83</b>
<b>2016 912 Interest</b>	<b>\$16.13</b>
<b>2016 912 Payoff</b>	<b>\$800.38</b>
<b>2016 912 Prepayments</b>	<b>\$73,634.97</b>
<b>2016 912 Hastings City Bank</b>	<b>\$350,000.00</b>
<b>2017 912 Interest thru July</b>	<b>\$58.80</b>
<b>2017 912 Payoff</b>	<b>\$4,863.69</b>
<b>Total Income</b>	<b>\$431,613.34</b>
<b>Total Expenses</b>	<b>\$382,246.25</b>
<b>Balance</b>	<b>\$49,367.09</b>
<b>Fund Balance</b>	
<b>GL 373 Cash 08/17</b>	<b>(\$804.74)</b>
<b>GL 912 Cash 08/17</b>	<b>\$50,171.83</b>
<b>Total</b>	<b>\$49,367.09</b>

# Natural Gas

## Dave Muller from Michigan Gas

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### About us

MGU delivers natural gas to about 174,000 customers in southern and western Michigan. We had our start in pre-Civil War days, when gas was manufactured from coal and used to light streets, homes and businesses. Since that time, we've grown and changed along with the communities we serve.

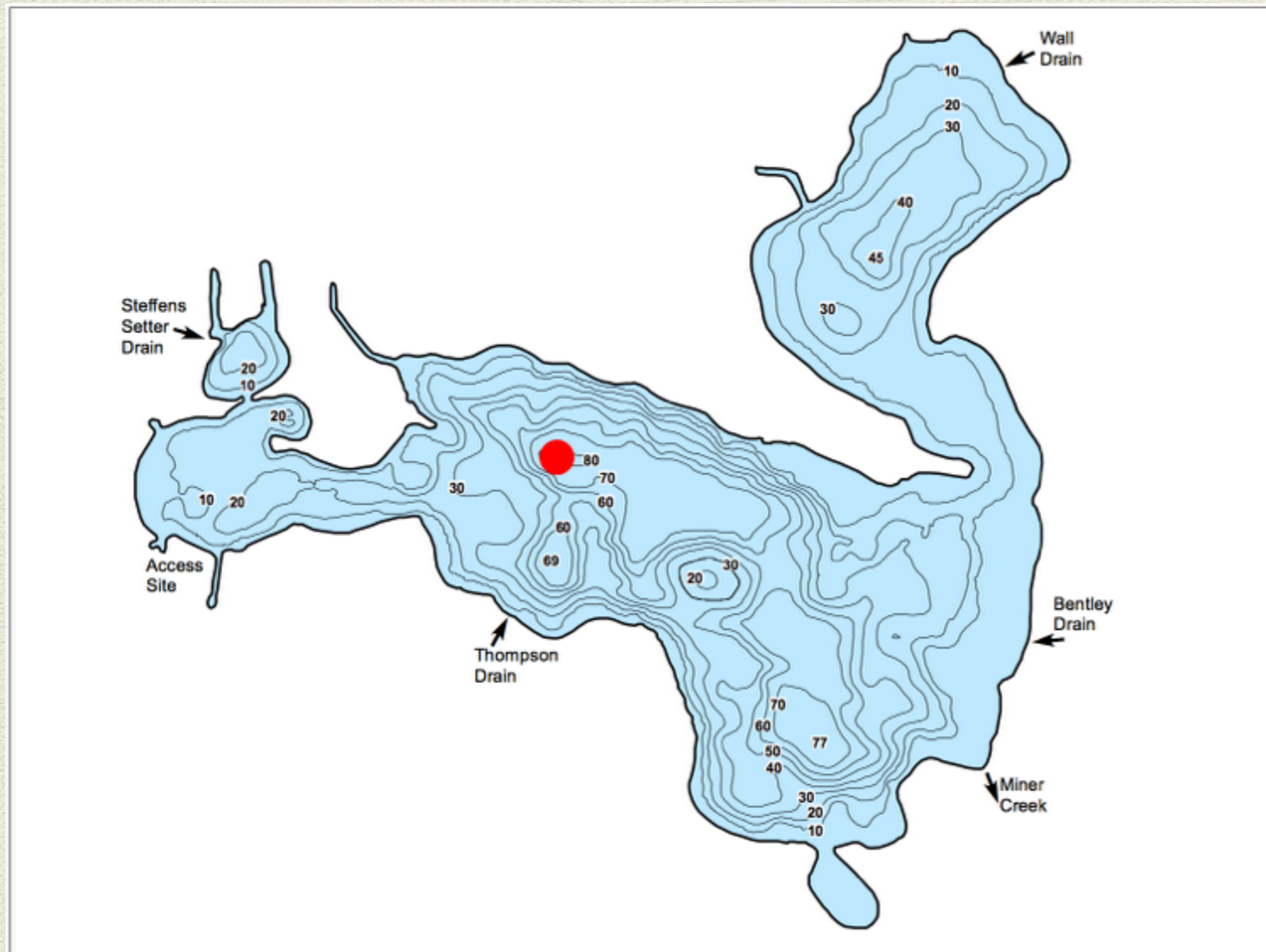
Our employees are dedicated to delivering natural gas safely and reliably. We look for ways to reduce costs for our customers. And we help our local communities grow even more.

- Our values**  
Our values guide our business.
- Our history**  
We've grown and changed along with our local communities.
- Regulatory information**  
MGU is regulated by the Michigan Public Service Commission.
- Area served**  
MGU delivers natural gas to about 174,000 customers in southern and western Michigan.
- Shareholder information**  
Shareholder information is available on our parent company website, WEC Energy Group (NYSE: WEC).

# Water Quality Report

- ◆ Performed by ProgressiveAE
- ◆ Covers calendar year 2016 and 2017
- ◆ Final water testing occurred last week of August 2017 and is not reflected in the report

# Sample Locations



Samples are collected during spring and late summer at 10-foot intervals from the surface to the bottom over the deepest portion of Miner Lake.

# Lake Classification

**TABLE 1**  
**LAKE CLASSIFICATION CRITERIA**

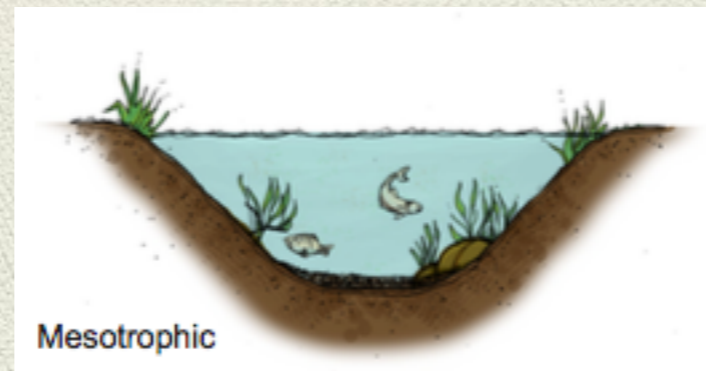
Lake Classification	Total Phosphorus ( $\mu\text{g/L}$ ) <sup>1</sup>	Chlorophyll-a ( $\mu\text{g/L}$ ) <sup>1</sup>	Secchi Transparency (feet)
Oligotrophic	Less than 10	Less than 2.2	Greater than 15.0
Mesotrophic	10 to 20	2.2 to 6.0	7.5 to 15.0
Eutrophic	Greater than 20	Greater than 6.0	Less than 7.5

**Oligotrophic** lakes are generally deep and clear with little aquatic plant growth. These lakes maintain sufficient dissolved oxygen in the cool, deep bottom waters during late summer to support cold-water fish such as trout and whitefish.

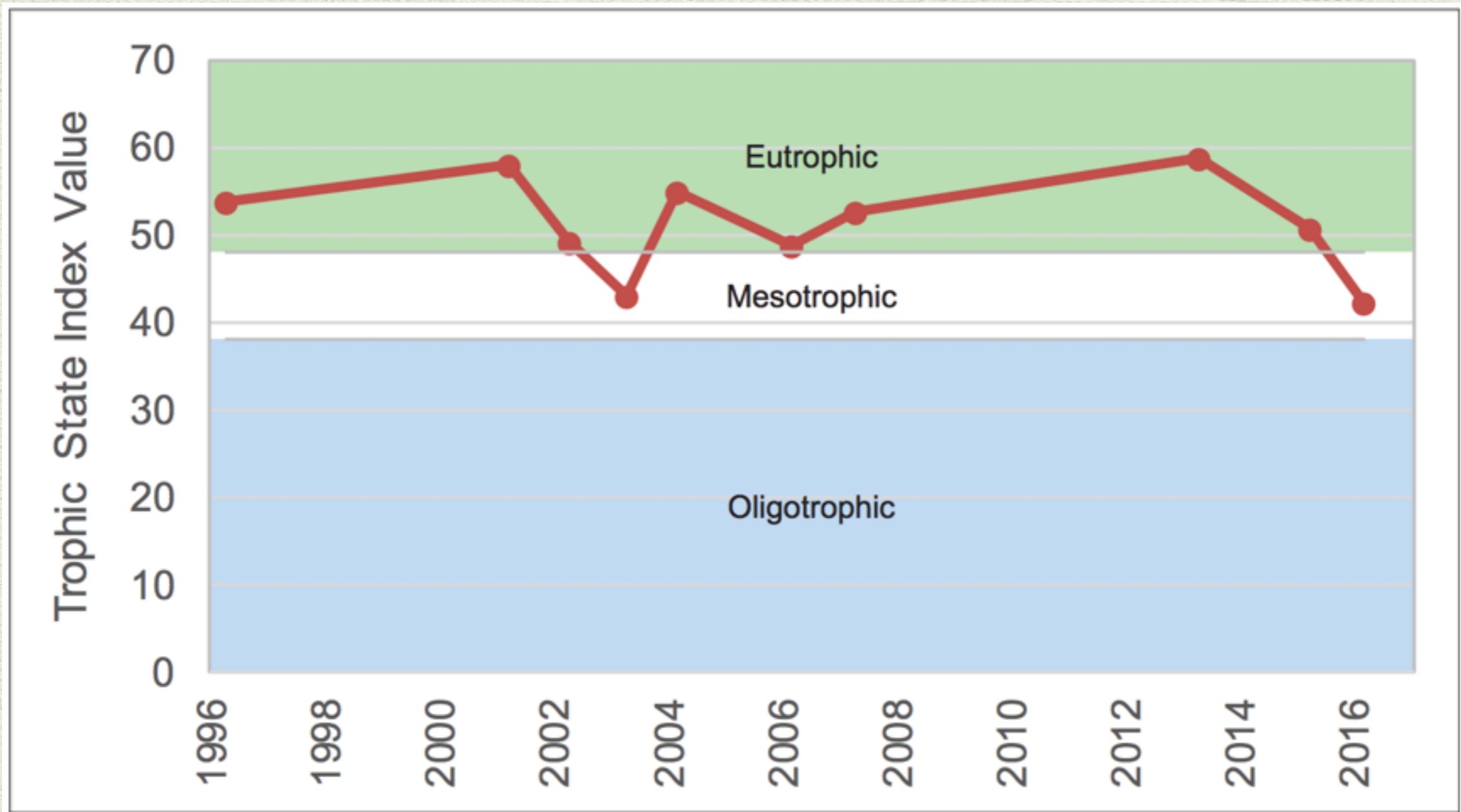
**Eutrophic** lakes have poor clarity and support abundant aquatic plant growth. In deep eutrophic lakes, the cool bottom waters usually contain little or no dissolved oxygen. Therefore, these lakes can only support warm-water fish such as bass and pike.

Lakes that fall between the two extremes of oligotrophic and eutrophic are called **mesotrophic** lakes.

Miner Lake is classified as **mesotrophic** based on measurements and observation.

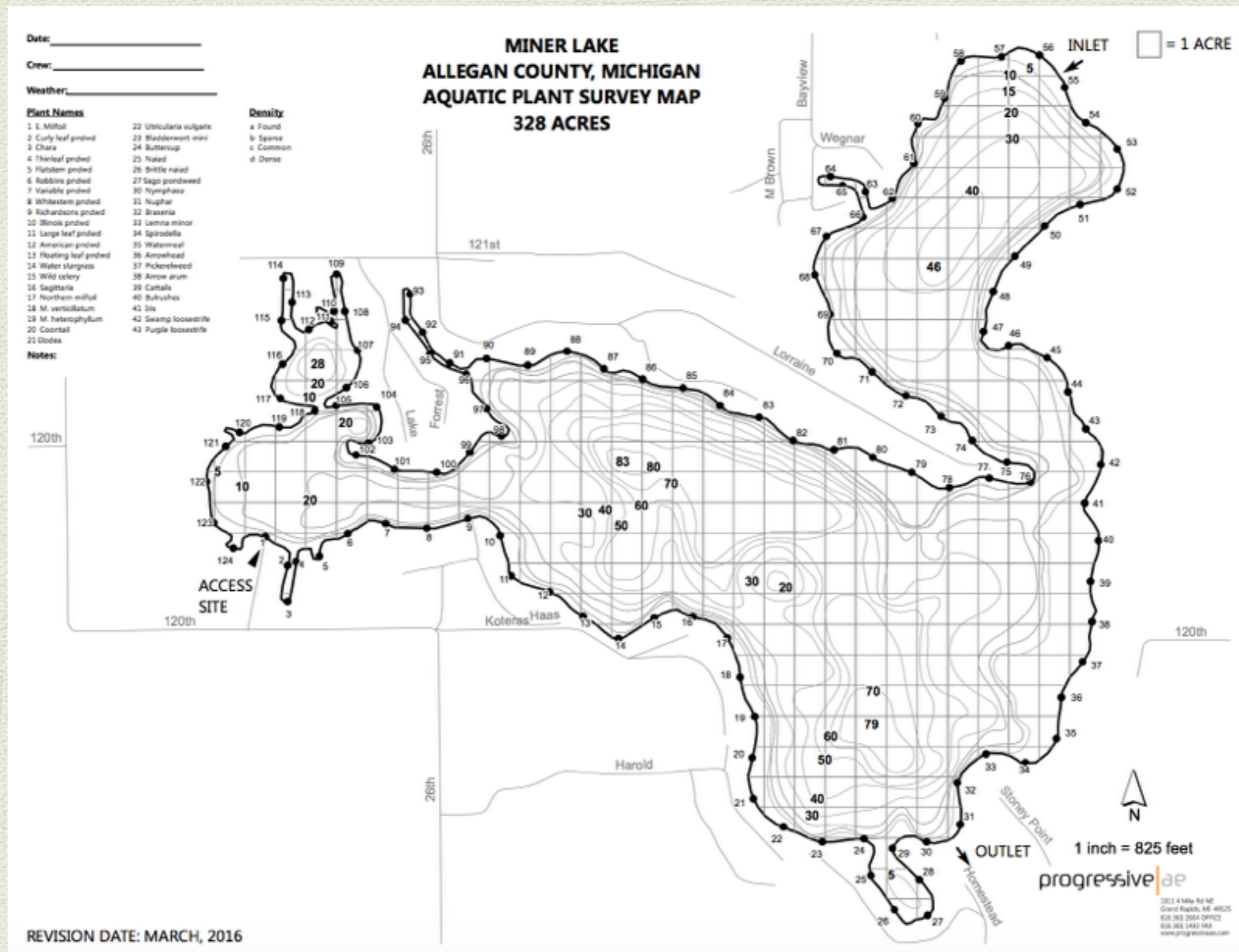


**Carlson's Trophic State Index (TSI)** was developed from mathematical relationships that allowed phosphorus, chlorophyll-a, and Secchi transparency readings to be converted to a numerical scale from 0 to 100, with increasing numbers indicating more productive lakes.



Based on the data collected (1996 - 2016), Miner Lake is **moderately eutrophic** in that it periodically has elevated total phosphorus levels and reduced Secchi transparency. Algae growth in the open waters of the lake is generally moderate.

# Aquatic Vegetation Survey



REVISION DATE: MARCH, 2016

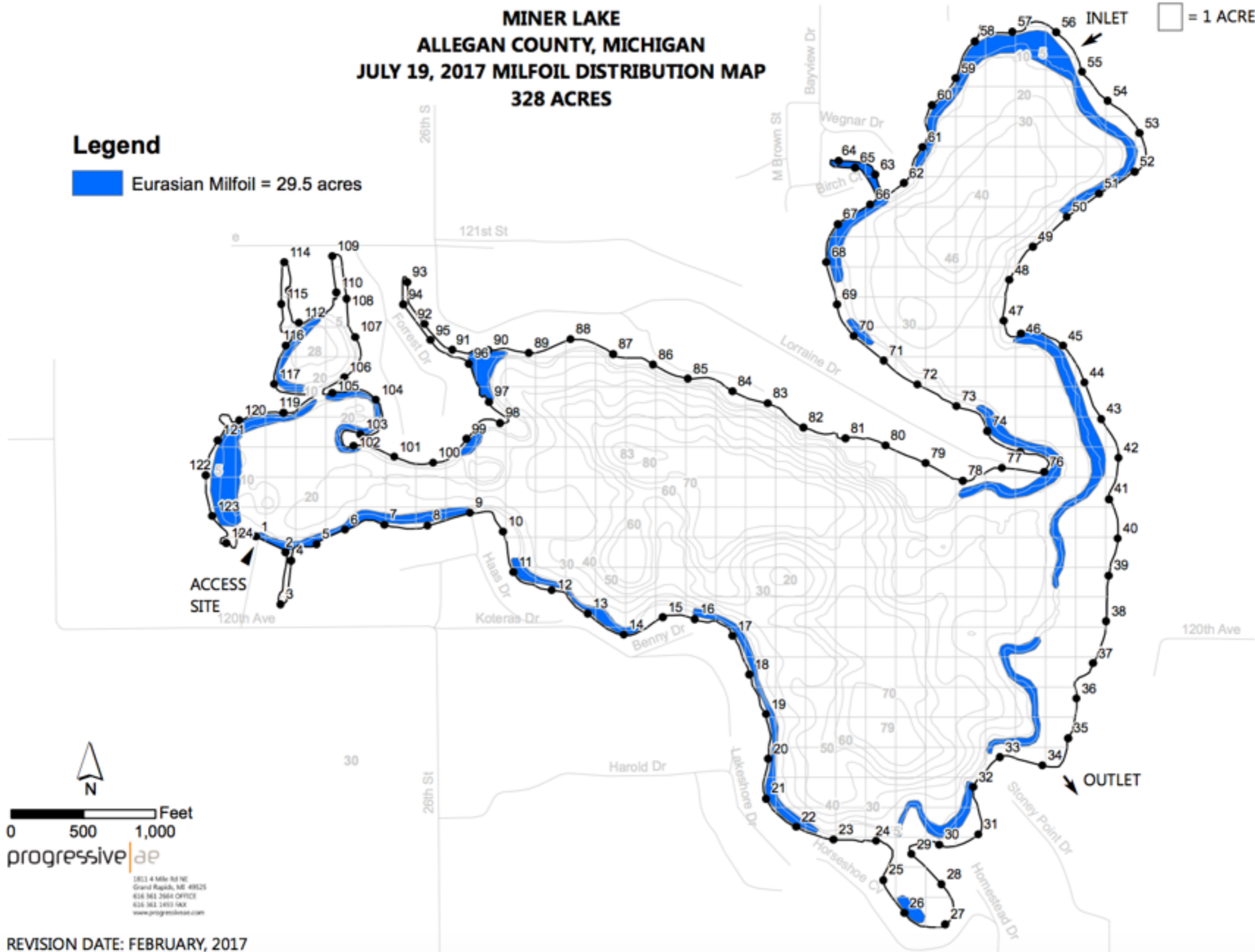
<b>Miner Lake Aquatic Vegetation Survey Results July 19, 2017</b>		<b>Classification</b>	<b>Percent of Sites Where Plant Was Found</b>
<b>Common Name</b>	<b>Scientific Name</b>		
Chara	<i>Chara sp.</i>	Submersed	82%
Eurasian milfoil	<i>Myriophyllum spicatum</i>	Submersed	76%
Large-leaf pondweed	<i>Potamogeton amplifolius</i>	Submersed	65%
Thin-leaf pondweed	<i>Potamogeton sp.</i>	Submersed	60%
Starry stonewort	<i>Nitellopsis obtusa</i>	Submersed	52%
Wild celery	<i>Vallisneria americana</i>	Submersed	45%
Flat-stem pondweed	<i>Potamogeton zosteriformis</i>	Submersed	31%
Coontail	<i>Ceratophyllum demersum</i>	Submersed	27%
Illinois pondweed	<i>Potamogeton illinoensis</i>	Submersed	15%
Water stargrass	<i>Heteranthera dubia</i>	Submersed	10%
Variable pondweed	<i>Potamogeton gramineus</i>	Submersed	6%
Elodea	<i>Elodea canadensis</i>	Submersed	6%
Sago pondweed	<i>Stuckenia pectinata</i>	Submersed	5%
American pondweed	<i>Potamogeton americanus</i>	Submersed	4%
Richardson's pondweed	<i>Potamogeton richardsonii</i>	Submersed	3%
Curly-leaf pondweed	<i>Potamogeton crispus</i>	Submersed	3%
Whitestem pondweed	<i>Potamogeton praelongus</i>	Submersed	1%
White waterlily	<i>Nymphaea odorata</i>	Floating-leaved	33%
Yellow waterlily	<i>Nuphar sp.</i>	Floating-leaved	29%
Floating-leaf pondweed	<i>Potamogeton natans</i>	Floating-leaved	2%
Bulrush	<i>Scirpus sp.</i>	Emergent	37%
Cattail	<i>Typha sp.</i>	Emergent	24%
Purple loosestrife	<i>Lythrum salicaria</i>	Emergent	12%
Arrowhead	<i>Sagittaria latifolia</i>	Emergent	11%
Swamp loosestrife	<i>Decodon verticillatus</i>	Emergent	10%
Phragmites	<i>Phragmites australis</i>	Emergent	1%

**MINER LAKE  
ALLEGAN COUNTY, MICHIGAN  
JULY 19, 2017 MILFOIL DISTRIBUTION MAP  
328 ACRES**

☐ = 1 ACRE

**Legend**

Eurasian Milfoil = 29.5 acres



0 500 1,000 Feet  
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1821 4 Mile Rd NE  
Grand Rapids, MI 49525  
616 361 2664 OFFICE  
616 361 1453 FAX  
www.progressiveae.com

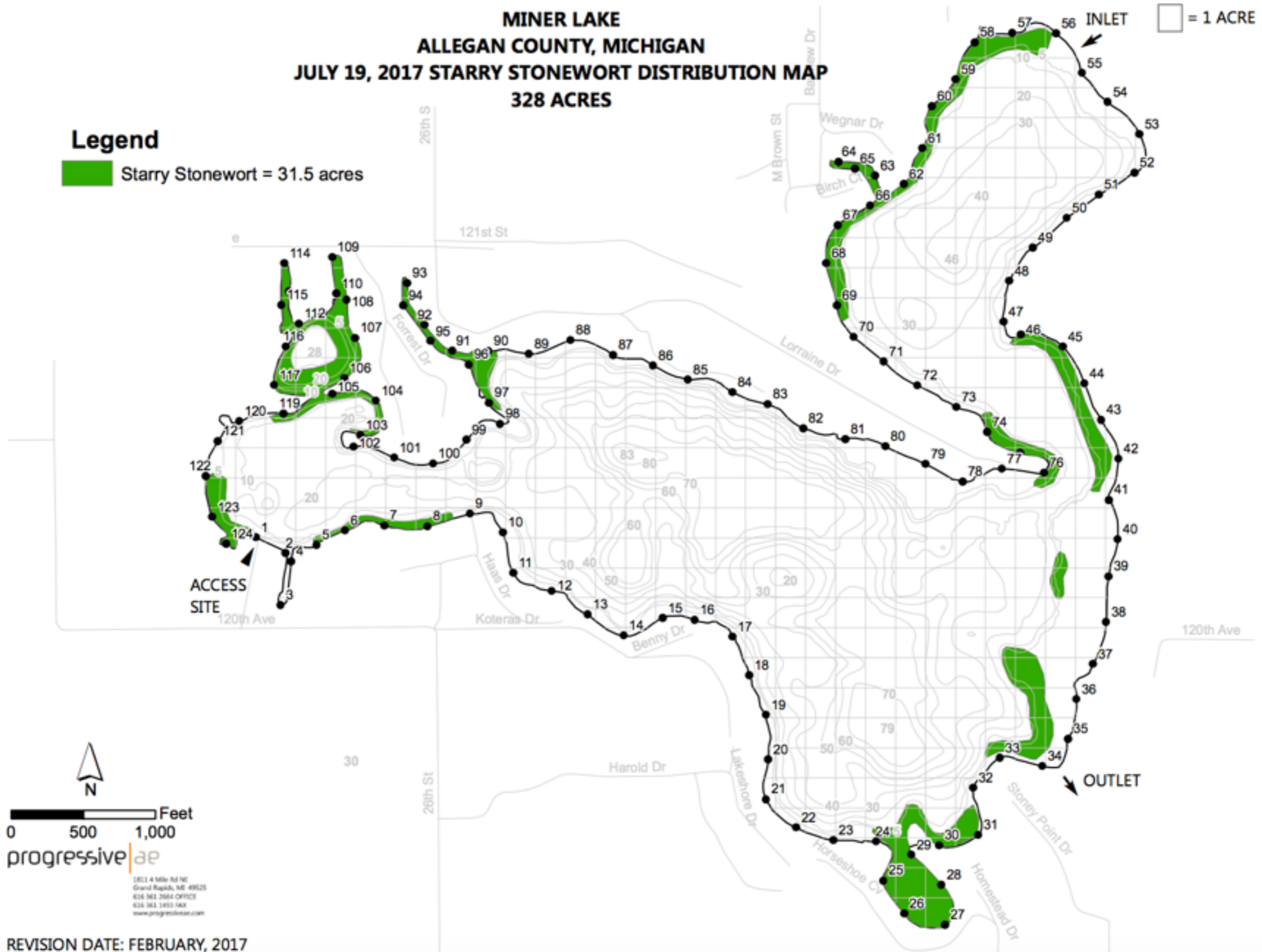
REVISION DATE: FEBRUARY, 2017


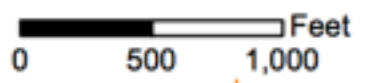
**MINER LAKE  
ALLEGAN COUNTY, MICHIGAN  
JULY 19, 2017 STARRY STONEWORT DISTRIBUTION MAP  
328 ACRES**

□ = 1 ACRE

**Legend**

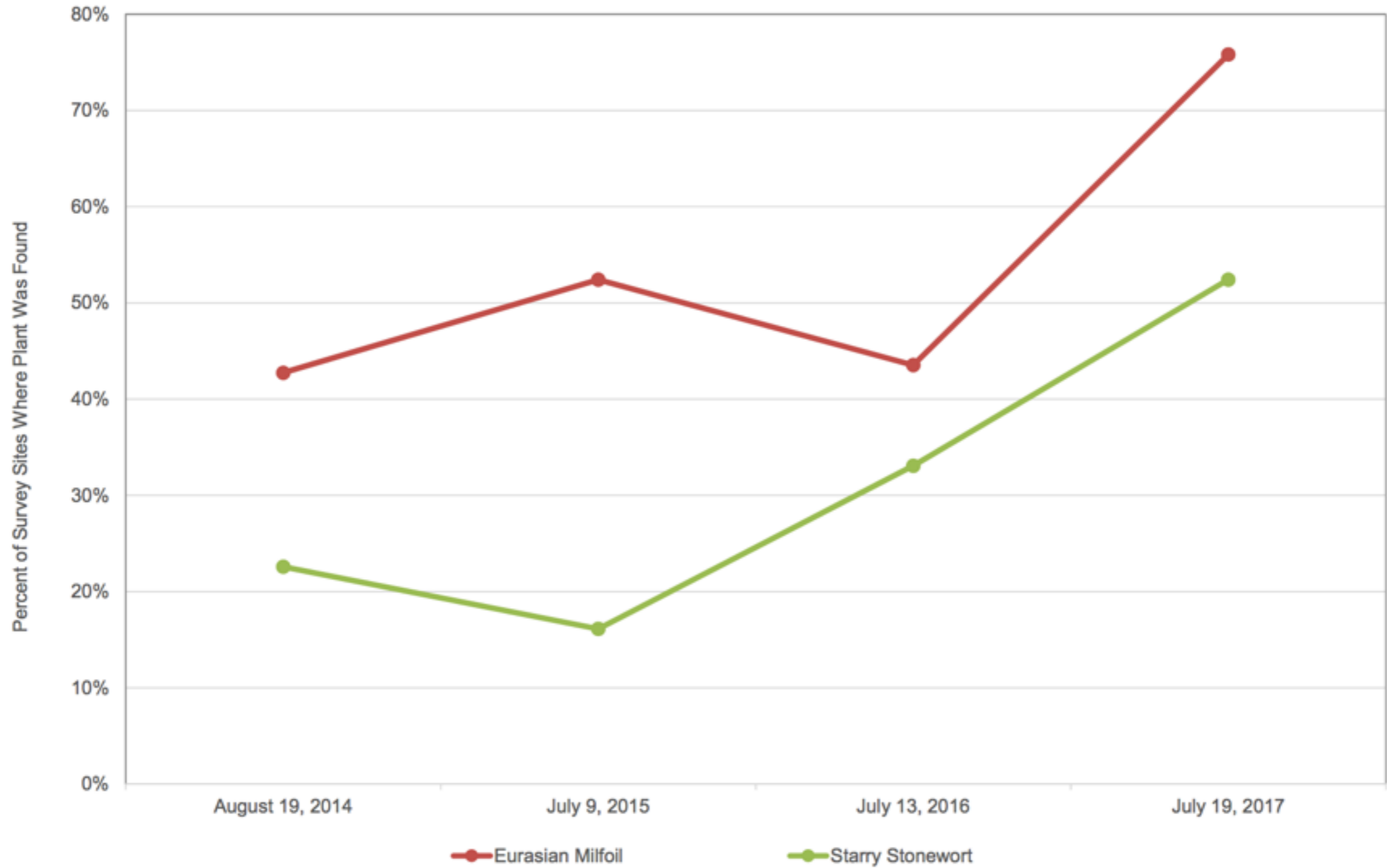
 Starry Stonewort = 31.5 acres



  
  
**progressive** | ae  
1821 4 Mile Rd NE  
Grand Rapids, MI 49525  
616.361.2664 OFFICE  
616.361.1453 FAX  
www.progressiveae.com

REVISION DATE: FEBRUARY, 2017

Miner Lake  
Occurrence of Exotic Plant Species  
2014 - 2017



# Member Topics and Q/A

- ◆ Topics of Interest for Potential Member Survey
- ◆ ?

Thank You for Attending

Happy Labor Day!