

Miner Lake Association Spring 2017 Meeting

May 27, 2017

Agenda

- ◆ Approve Minutes from Fall Meeting
- ◆ Treasurer Report
- ◆ Update on the Miner Lake Dam
- ◆ Water Quality Monitoring -
- ◆ Membership Topics and Q/A

Miner Lake Dam

- ◆ Dam Construction completed
- ◆ Requested and awaiting final project cost, but understand it did not surpass contingency funds
- ◆ Access road has a gate and limited to Allegan County Drain Commissioner staff
- ◆ Will provide updates on the website

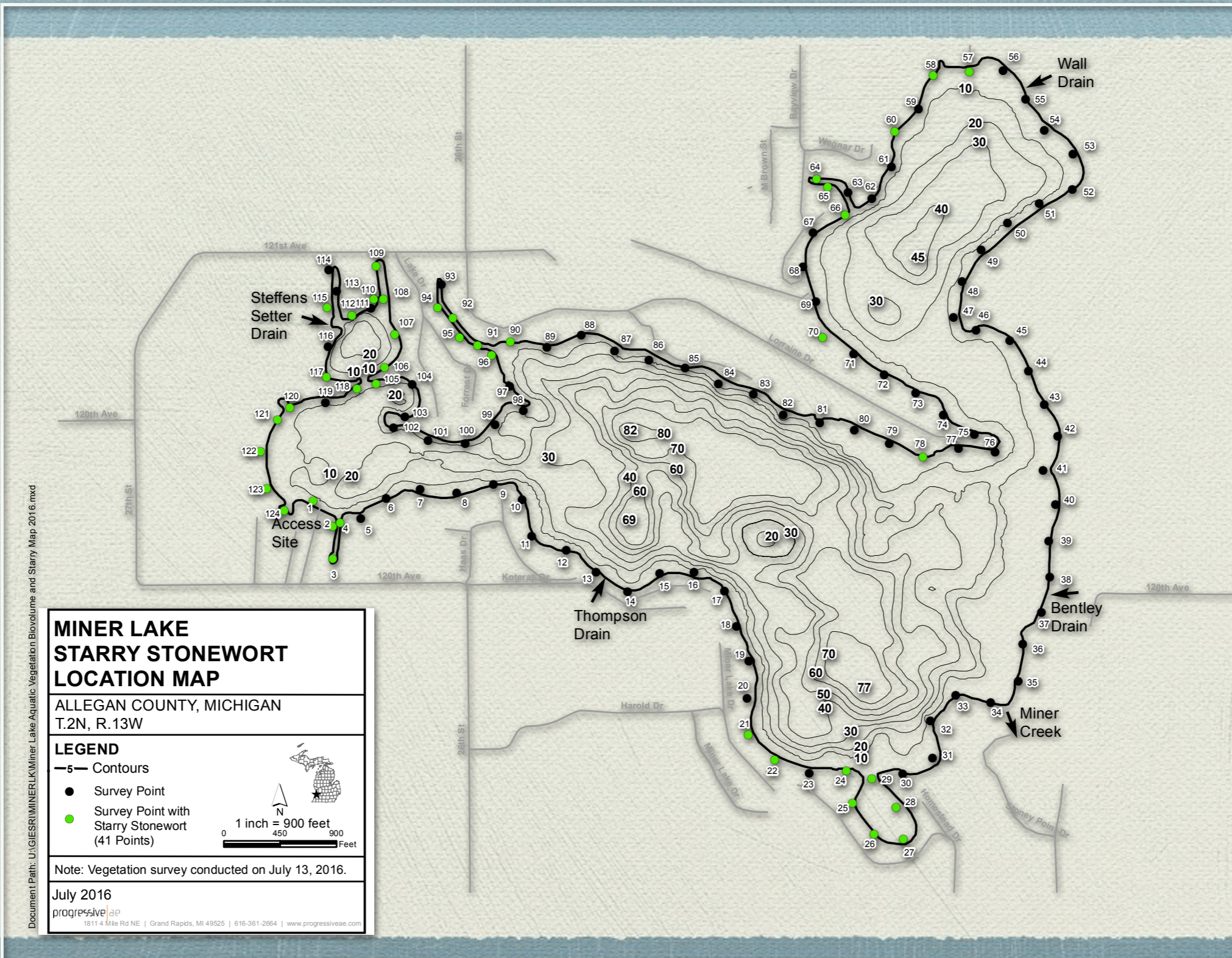
Miner Lake Dam - Photos

- ◆ Presented a series of recent images. Will post to website

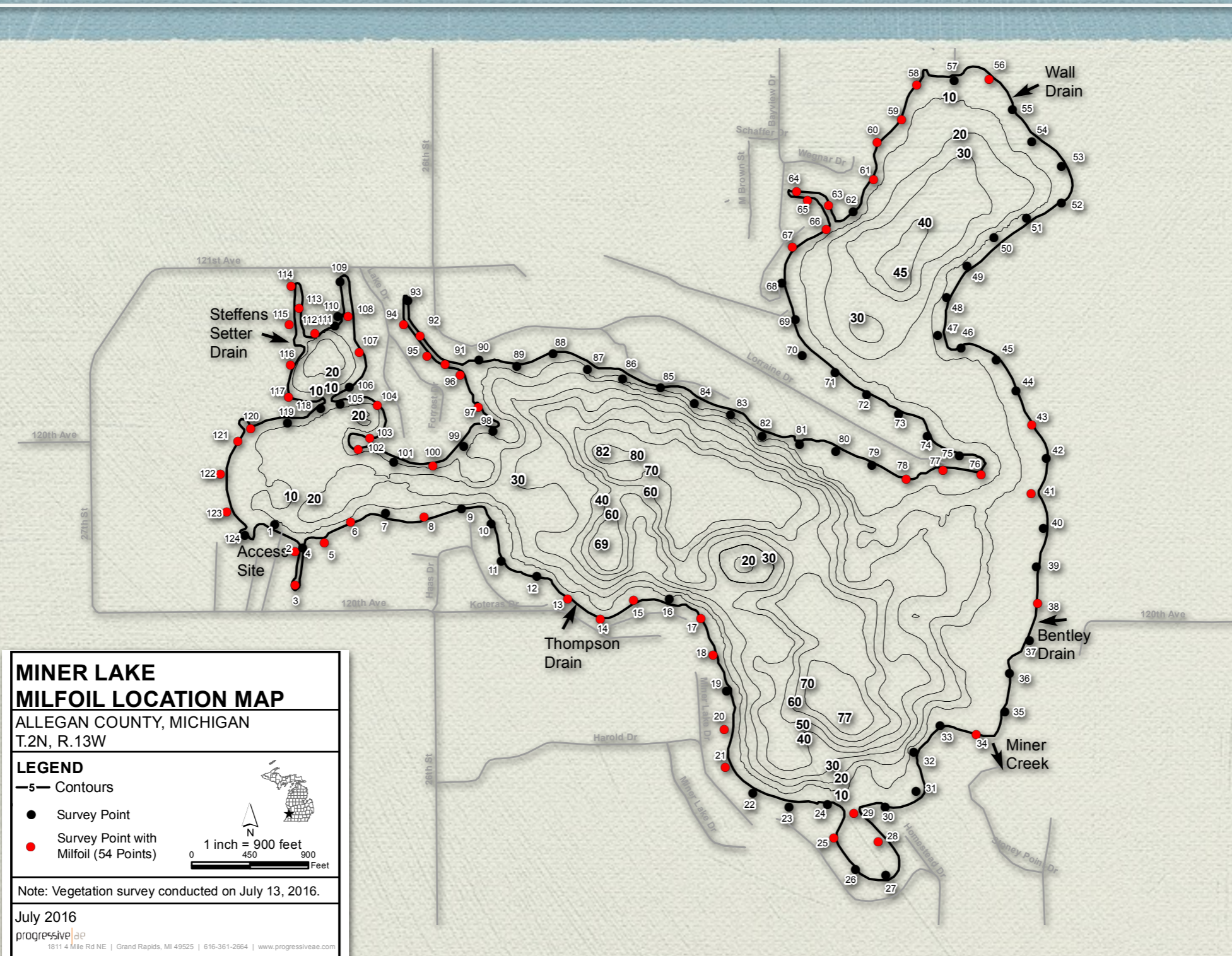
Water Quality - Invasive

- ◆ Last fall, the Miner Lake Improvement Board was updated on presence of Starry Stonewort and Milfoil
- ◆ Neither are out of control, but recommendation made for:
 - ◆ Continued monitoring
 - ◆ Application for permit to treat

Invasive - Starry Stonewort



Invasive - Milfoil



Document Path: U:\GIS\MINER\K\Miner Lake Aquatic Vegetation Biovolume and Milfoil Map 2016.mxd

Vegetation Biovolume Map

PHYSICAL CHARACTERISTICS

Lake Surface Area	335 Acres
Maximum Depth	82 Feet
Mean Depth	27 Feet
Lake Volume	9,003 Acre-Feet
Shoreline Length	7.0 Miles
Shoreline Development Factor	2.7

MINER LAKE AQUATIC VEGETATION BIOVOLUME MAP

ALLEGAN COUNTY, MICHIGAN
T.2N, R.13W

LEGEND

—5— Contours



1 inch = 900 feet
0 450 900 Feet

PERCENT BIOVOLUME

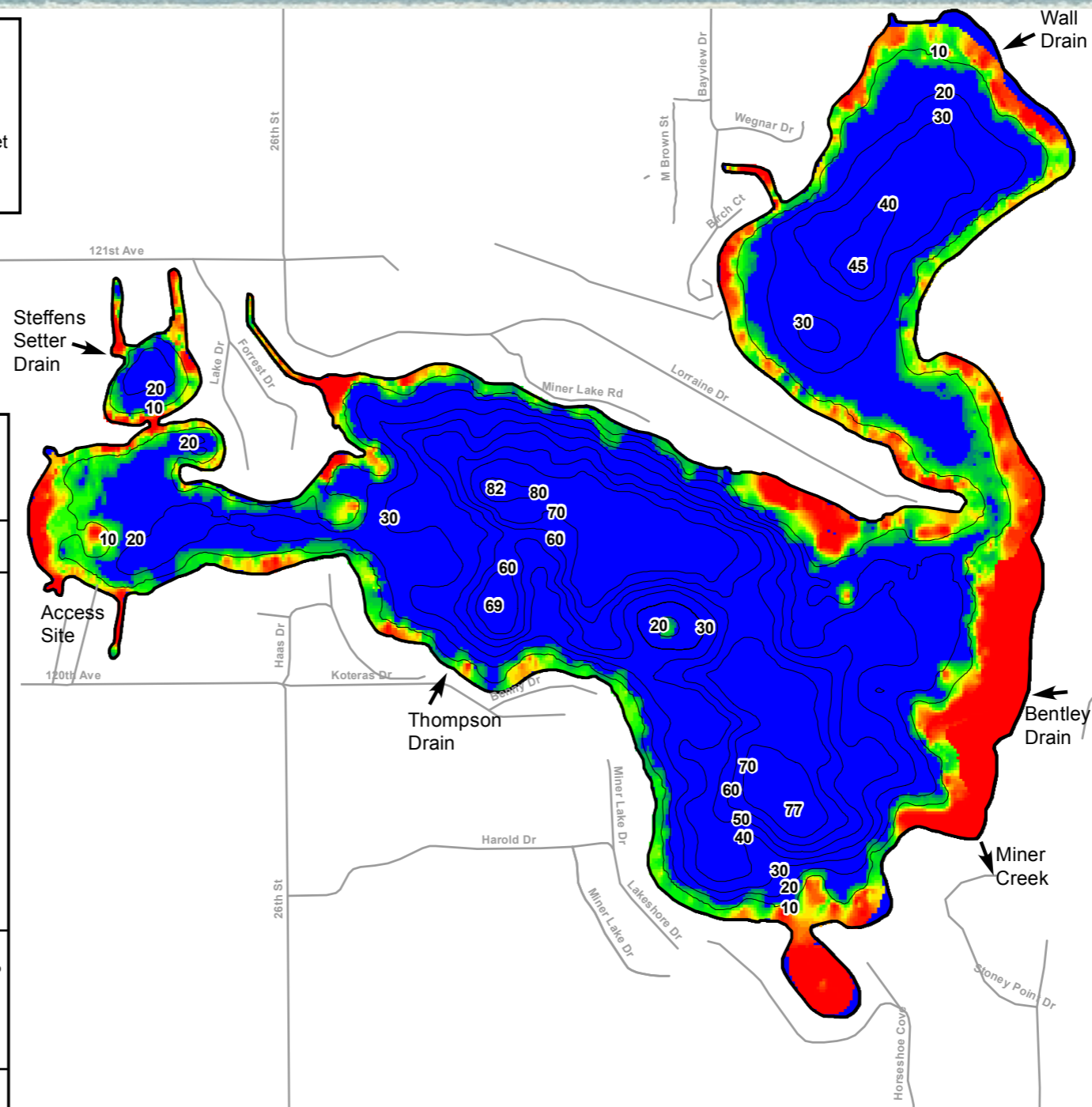
0%	50% to 55%
0% to 5%	55% to 60%
5% to 10%	60% to 65%
10% to 15%	65% to 70%
15% to 20%	70% to 75%
20% to 25%	75% to 80%
25% to 30%	80% to 85%
30% to 35%	85% to 90%
35% to 40%	90% to 95%
40% to 45%	95% to 100%
45% to 50%	>100%

Note: Biovolume is a measure of the height of plants in the water column. A biovolume measurement of 50% indicates plants occupy one-half of the water column. Hydro-acoustic data processed by Navico. Lake shoreline digitized from aerial orthorectified photography (Source: USDA FSA 2014). Hydro-acoustic survey conducted on July 7, 2016.

July 2016

progressive

1811 4 Mile Rd NE | Grand Rapids, MI 49525 | 616-361-2664 | www.progressiveae.com



Invasive - Phragmites



Water Quality - Treatment

- ◆ Miner Lake Improvement Board approved filing of permit for aquatic plant treatment
- ◆ Do not plan to apply any treatment, but without permit no treatment can occur
- ◆ Public meeting will be held prior to any plan for treatment

Water Quality Monitoring 2017

- ◆ Contract with ProgressiveAE continues
- ◆ Begin collaboration with Cooperative Lakes Monitoring Program (CLMP)
 - 200+ Michigan lakes
 - Training for volunteers to monitor lakes
 - Testing supplies
 - Published results

<http://www.micorps.net/lakeoverview.html>

Water Quality Monitoring 2017

- ◆ CLMP Year 1 (2017) includes:
 - Secchi Disk Transparency (9+ times / summer)
 - Spring Phosphorus
 - Summer Phosphorus
- ◆ CLMP Year 2 (2018) inc Year 1 plus optional:
 - Chlorophyll
 - Dissolved Oxygen and Temperature
 - Exotic Plant Watch
 - Aquatic Plant Mapping
 - Shoreline Habitat Assessment

Water Quality Monitoring 2017

- ◆ We have one volunteer (Tom Slocum)
- ◆ We would like additional volunteers
- ◆ Training for Year 1 is online videos
- ◆ Training for Year 2 is a 1-day conference in April/
May
- ◆ Contact Sam Martin if interested

http://minerlake.com/?page_id=104

Member Topics and Q/A



Thank You for Attending

Happy Memorial Day!