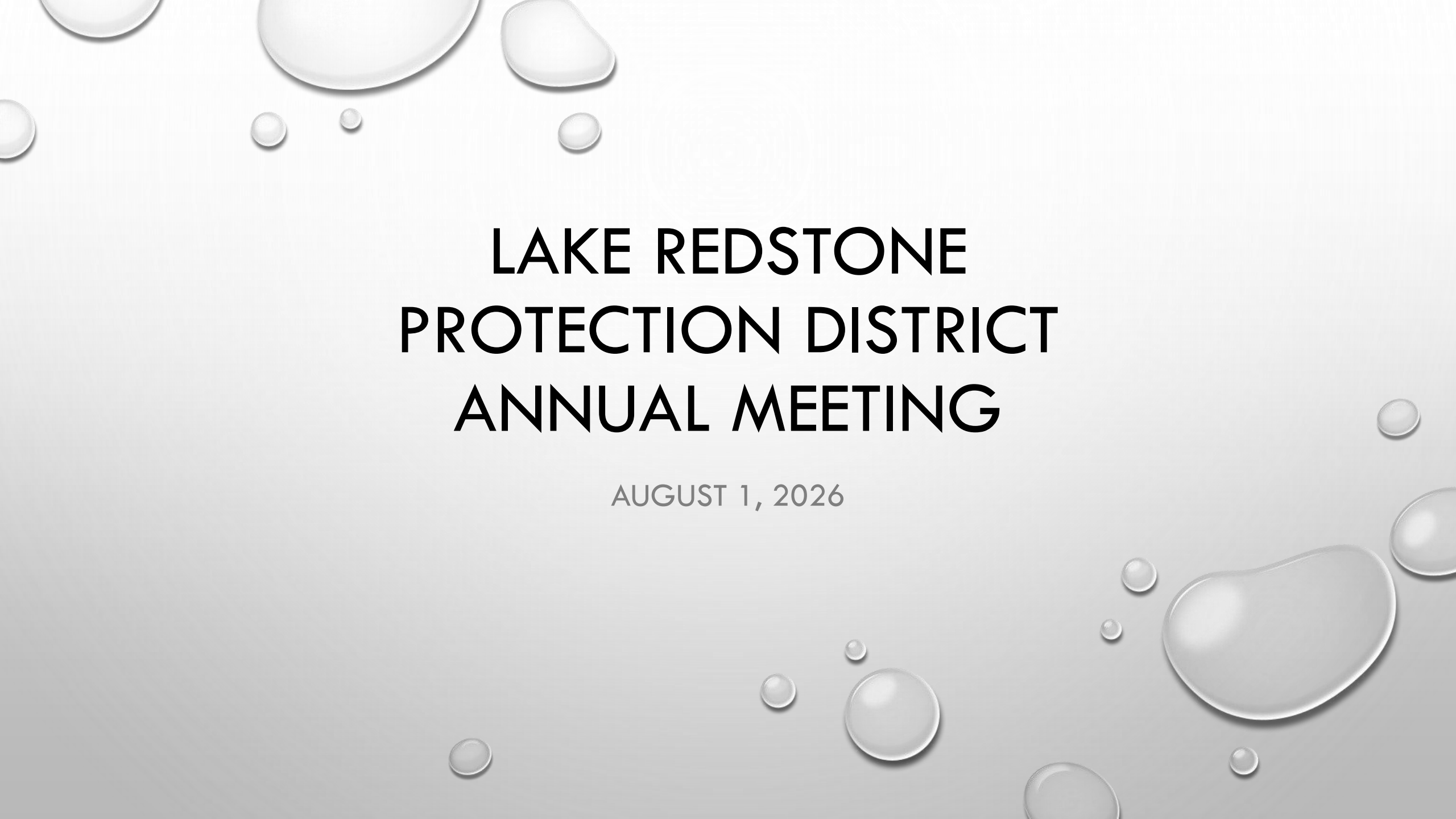
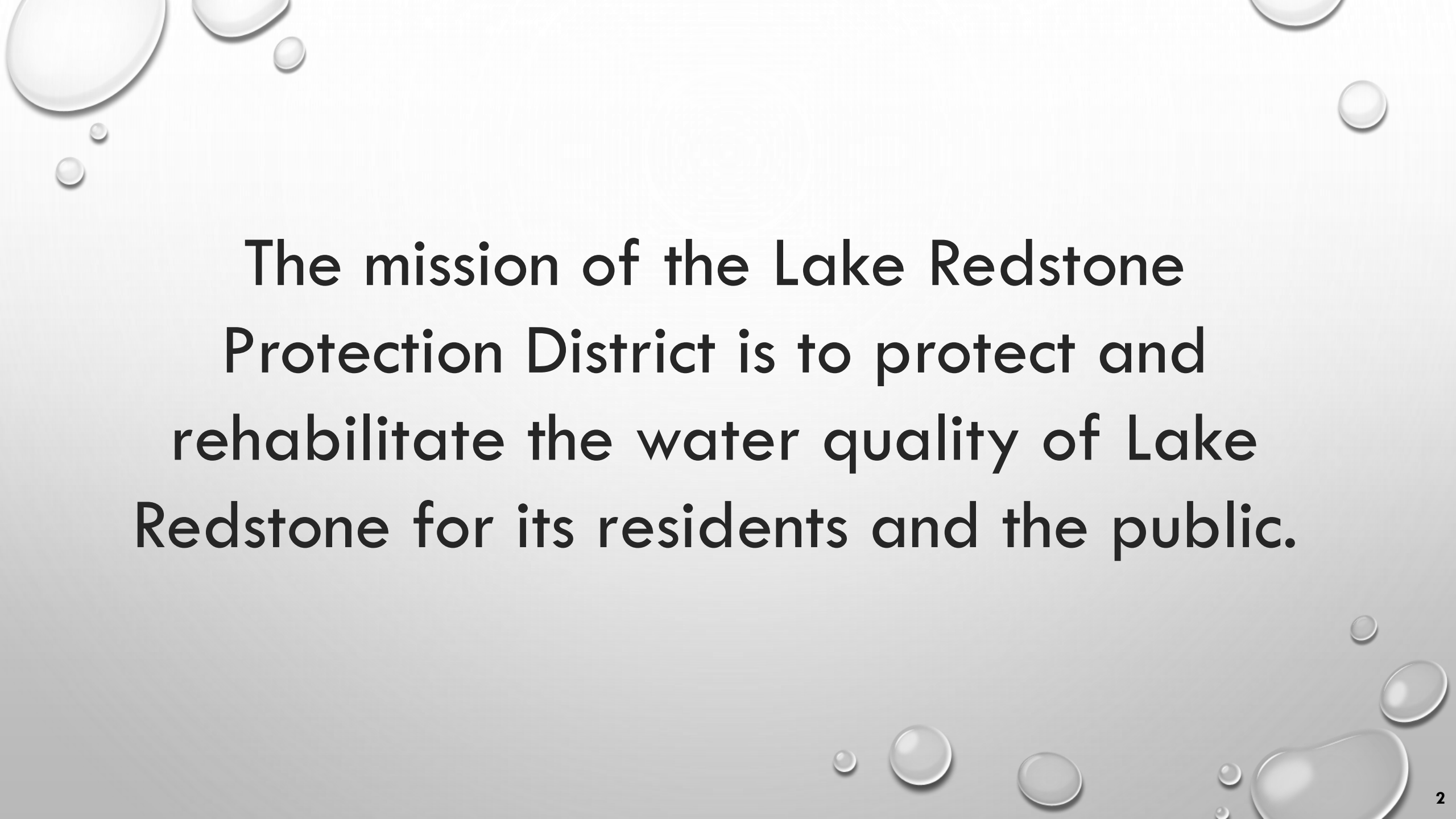


The background of the slide is a light gray gradient. It is decorated with numerous realistic water droplets of various sizes. Some droplets are large and prominent, while others are small and subtle. They are scattered across the slide, with a higher concentration in the top-left and bottom-right corners. Each droplet has a soft shadow and a highlight, giving it a three-dimensional appearance.

# **LAKE REDSTONE PROTECTION DISTRICT ANNUAL MEETING**

AUGUST 1, 2026



The mission of the Lake Redstone  
Protection District is to protect and  
rehabilitate the water quality of Lake  
Redstone for its residents and the public.

The background is a light gray gradient. In the top-left and bottom-right corners, there are several realistic-looking water droplets of various sizes, some overlapping. In the center of the slide, there is a faint, circular watermark logo. The logo features a globe with latitude and longitude lines, and the text "WORLDWIDE" is written across the middle of the globe.

**Please silence  
your cellphone**

# AGENDA

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|                                  |    |             |
|----------------------------------|----|-------------|
| • WELCOME & INTRODUCTIONS        | 15 | MITTELSTADT |
| • ELECTION OF 2 COMMISSIONERS    | 5  | MITTELSTADT |
| • MINUTES 2025 ANNUAL MEETING    | 5  | HORNER      |
| • SECRETARY'S REPORT             | 5  | HORNER      |
| • APPROVE BY LAWS CHANGES        | 10 | HENEGHAN    |
| • TREASURER'S REPORT             | 5  | CROCKETT    |
| • PROPOSED 2027 OPERATING BUDGET | 10 | CROCKETT    |

# AGENDA (CONTINUED)

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|                               |    |             |
|-------------------------------|----|-------------|
| • FIRST 50 YEARS              | 20 | BAADE       |
| • WATER QUALITY TOPICS        | 10 | MAHONEY     |
| • SEDIMENT CONTROL TOPICS     | 10 | HORNER      |
| • INTRODUCE NEW COMMISSIONERS | 5  | MITTELSTADT |
| • QUESTION AND ANSWERS        | 15 | LRPD BOARD  |



# ELECTION OF 2 COMMISSIONERS

MIKE MITTELSTADT



# NOMINATIONS FROM THE FLOOR



# 2025 ANNUAL MEETING MINUTES

BRAD HORNER





# SECRETARY'S REPORT

BRAD HORNER



# PROPOSED BY LAWS CHANGES

TOM HENEGHAN

# PROPOSED AMENDMENT #1

**CURRENT BYLAW:** THE FINANCIAL REVIEW COMMITTEE SHALL BE RESPONSIBLE FOR PERFORMING A REVIEW OF THE FINANCIAL TRANSACTIONS OF THE DISTRICT AT THE CLOSE OF THE DISTRICT'S FISCAL YEARS, EXCEPT THAT THE BOARD SHALL ENGAGE A CERTIFIED PUBLIC ACCOUNTANT TO CONDUCT SUCH REVIEW EVERY THIRD FISCAL YEAR.

**PROPOSED AMENDMENT:** THE FINANCIAL REVIEW COMMITTEE SHALL BE RESPONSIBLE FOR PERFORMING A REVIEW OF THE FINANCIAL TRANSACTIONS OF THE DISTRICT AT THE CLOSE OF THE DISTRICT'S FISCAL YEAR, EXCEPT THAT THE BOARD SHALL ENGAGE AN OUTSIDE ACCOUNTANT TO CONDUCT SUCH REVIEW EVERY THIRD FISCAL YEAR.

**REASON:** THE CHANGE BENEFITS THE DISTRICT WITH THE POTENTIAL TO REDUCE COSTS AND TAILOR THE EXAMINATION TO THE SPECIFIC NEEDS OF THE DISTRICT. THERE IS NO NEED TO INCUR THE ADDITIONAL EXPENSE OF RETAINING A CERTIFIED PUBLIC ACCOUNTANT FOR THE REVIEW EVERY THIRD YEAR.

# PROPOSED AMENDMENT #2

**CURRENT BYLAW:** THE SEDIMENT CONTROL COMMITTEE SHALL BE RESPONSIBLE FOR MONITORING AND REDUCING SEDIMENT ENTRY INTO THE LAKE.

**PROPOSED AMENDMENT #2:** THE SEDIMENT CONTROL COMMITTEE SHALL BE RESPONSIBLE FOR MONITORING AND REDUCING SEDIMENT AND NUTRIENT ENTRY INTO THE LAKE.

**REASON:** EMPHASIZES THE EFFECT THAT NUTRIENTS HAVE ON WATER QUALITY.

# PROPOSED AMENDMENT #3

**CURRENT BYLAW:** THE ANNUAL AND SPECIAL MEETING NOTICES SHALL BE:

- POSTED ON THE DISTRICT'S WEBSITE AND AT THREE LOCATIONS IN THE TOWN OF LA VALLE, AND MAILED TO DISTRICT PROPERTY OWNERS LISTED ON THE TAX ROLL, AND
- PUBLISHED IN TWO SUCCESSIVE ISSUES OF THE DISTRICT'S OFFICIAL NEWSPAPER

**PROPOSED AMENDMENT #3:** THE ANNUAL AND SPECIAL MEETING NOTICES SHALL BE:

- POSTED ON THE DISTRICT'S WEBSITE AND AT TWO LOCATIONS IN THE TOWN OF LA VALLE, AND
- MAILED TO DISTRICT PROPERTY OWNERS LISTED ON THE TAX ROLL.

**REASON:** THIS NOTICE PROTOCOL MEETS THE DEMANDS OF WISCONSIN STATE STATUTES THAT APPLY TO INLAND LAKE PROTECTION DISTRICTS.

# PROPOSED AMENDMENT #4

**CURRENT BYLAW:** THE CHAIR WILL BE COMPENSATED IN AN AMOUNT NOT TO EXCEED \$200 PER MONTH (\$2400 PER ANNUM).

**PROPOSED AMENDMENT #4:** THE CHAIR WILL BE COMPENSATED IN AN AMOUNT NOT TO EXCEED \$300 PER MONTH (\$3600 PER ANNUM).

**REASON:** THE CURRENT BYLAWS PROVIDE FOR LESS PAY FOR THE CHAIR THAN FOR THE BOARD SECRETARY. THE CHAIR'S RESPONSIBILITIES HAVE INCREASED THE LAST SEVERAL YEARS AND EXCEED THOSE OF THE SECRETARY.

## BY LAWS MOTION

I MOVE THAT WE APPROVE THE FOUR PROPOSED AMENDMENTS TO THE LAKE REDSTONE PROTECTION DISTRICT BY LAWS BYLAWS AS I JUST DESCRIBED.



# TREASURER'S REPORT

DAVE CROCKETT



# FINANCIAL REVIEW

- CALENDAR 2025 FINANCIAL RESULTS WERE REVIEWED, BY MBE
- THEY EXAMINED THE FOLLOWING:
  - REPORTED AMOUNTS FOR BANK ACCOUNTS AGREE WITH THE BANK'S RECORDS
  - GRANT ACTIVITY IS PROPERLY DOCUMENTED
  - INCOME AND EXPENDITURES APPEAR REASONABLE
- THE FINAL REPORT IS AVAILABLE ON OUR WEBSITE.

THE 2025 REPORT OPINION STATES:

“BASED ON OUR REVIEW, WE ARE NOT AWARE OF ANY MATERIAL MODIFICATIONS THAT SHOULD BE MADE TO THE ACCOMPANING FINANCIAL STATEMENTS IN ORDER FOR THEM TO BE IN ACCORDANCE WITH THE MODIFIED CASH BASIS OF ACCOUNTING.”

# BALANCE SHEET AS OF JULY 14, 2026

## Current Assets

|                     |                |
|---------------------|----------------|
| Checking            | \$ 140,453     |
| Dredging Savings    | 80,449         |
| Maintenance Reserve | <u>174,602</u> |

|                      |                |
|----------------------|----------------|
| Total Current Assets | <u>395,505</u> |
|----------------------|----------------|

## Other Assets

|      |                |
|------|----------------|
| Land | <u>233,946</u> |
|------|----------------|

|              |                       |
|--------------|-----------------------|
| Total Assets | <u><u>629,451</u></u> |
|--------------|-----------------------|

## Liabilities

|               |              |
|---------------|--------------|
| Dredging Loan | \$ 1,197,037 |
|---------------|--------------|

|                   |                  |
|-------------------|------------------|
| Total Liabilities | <u>1,197,037</u> |
|-------------------|------------------|

|                     |                  |
|---------------------|------------------|
| Net Worth (Deficit) | <u>(567,587)</u> |
|---------------------|------------------|

|                                    |                          |
|------------------------------------|--------------------------|
| Total Liabilities and Fund Balance | <u><u>\$ 629,451</u></u> |
|------------------------------------|--------------------------|

# PROPOSED REVENUE 2027

|                                                         | 2025<br>Jan. - Dec.<br>Actual | 2026<br>Final<br>Budget | 2026<br>Jan. - June<br>Actual | 2026<br>Jun - Dec.<br>Estimated | 2026<br>Jan. - Dec.<br>Estimated | 2027<br>Proposed<br>Budget |
|---------------------------------------------------------|-------------------------------|-------------------------|-------------------------------|---------------------------------|----------------------------------|----------------------------|
| <b>Revenue &amp; Reimbursement for Grants</b>           |                               |                         |                               |                                 |                                  |                            |
| DNR Grant Funding (see below)                           | 1,000                         | 4,000                   | 46,609                        | -                               | 46,609                           | 64,000                     |
| - Clean Boats/Clean Water Grant                         | 1,000                         | 4,000                   | 4,000                         | -                               | 4,000                            | 4,000                      |
| - Surface Water Grant - Martin Meadowlark Weir - Repair | -                             | -                       | 42,609                        |                                 | 42,609                           |                            |
| - Aquatic Management Plan Update.                       |                               |                         |                               |                                 |                                  | 13,000                     |
| - Cardinal Bay - Repair                                 |                               |                         |                               |                                 | -                                | 47,000                     |
| <b>Sauk County Grant Funding (see below)</b>            | <b>14,069</b>                 | <b>-</b>                | <b>6,100</b>                  | <b>6,100</b>                    | <b>12,200</b>                    | <b>21,500</b>              |
| - Martin Meadowlark Weir - Repair                       | 4,069                         | -                       | -                             | -                               | -                                |                            |
| - Swallow Bay Weir - Repair                             |                               |                         |                               |                                 |                                  | 7,500                      |
| - Cardinal Bay - Design                                 | 10,000                        | -                       |                               |                                 | -                                | 10,000                     |
| - Cyanobacteria Testing                                 |                               |                         | 4,500                         | 4,500                           | 9,000                            | 4,000                      |
| - Goose Roundup                                         |                               |                         | 1,250                         | 1,250                           | 2,500                            |                            |
| - Drone Surveys                                         |                               |                         | 350                           | 350                             | 700                              |                            |
| Transfer from maintenance fund                          |                               |                         |                               |                                 |                                  | 2,500                      |
| Interest Income                                         | 29                            | 40                      | 13                            | 17                              | 30                               | 30                         |
| General Tax Levy                                        | 115,200                       | 118,200                 | 84,463                        | 33,737                          | 118,200                          | 120,470                    |
| Other Income                                            | 1,632                         | 2,000                   | -                             | 2,000                           | 2,000                            | 1,600                      |
| Carryover from Prior Years Surpluses                    | -                             | 4,460                   | -                             | -                               | -                                | 20,000                     |
| <b>Total Revenue:</b>                                   | <b>131,930</b>                | <b>128,700</b>          | <b>137,185</b>                | <b>41,854</b>                   | <b>179,039</b>                   | <b>230,100</b>             |
| <b>Tax Levy</b>                                         |                               |                         |                               |                                 |                                  |                            |
| - General                                               | 115,200                       | 118,200                 | 84,463                        | 33,737                          | 118,200                          | 120,470                    |
| - Dredging                                              | 350,970                       | 351,000                 | 242,454                       | 108,546                         | 351,000                          | 351,000                    |
| <b>Total Tax Levy</b>                                   | <b>466,170</b>                | <b>469,200</b>          | <b>326,917</b>                | <b>142,283</b>                  | <b>469,200</b>                   | <b>471,470</b>             |

Note: Special dredging levy approved on May 18th 2019

# PROPOSED EXPENDITURES 2027

|                                                       | 2025<br>Jan. - Dec.<br>Actual | 2026<br>Final<br>Budget | 2026<br>Jan. - June<br>Actual | 2026<br>Jun - Dec.<br>Estimated | 2026<br>Jan. - Dec.<br>Estimated | 2027<br>Proposed<br>Budget |
|-------------------------------------------------------|-------------------------------|-------------------------|-------------------------------|---------------------------------|----------------------------------|----------------------------|
| <b><u>Expenditures</u></b>                            |                               |                         |                               |                                 |                                  |                            |
| <b>General</b>                                        | <b>24,245</b>                 | <b>36,500</b>           | <b>7,314</b>                  | <b>29,331</b>                   | <b>36,645</b>                    | <b>49,500</b>              |
| - Buoys                                               | 1,019                         |                         |                               |                                 |                                  | 1,000                      |
| - Administrative assistant                            |                               |                         |                               |                                 |                                  | 18,000                     |
| - Commissioner Compensation                           | 12,156                        | 14,000                  | 3,169                         | 10,831                          | 14,000                           | 14,000                     |
| - Legal Fees                                          | 1,438                         | 3,500                   | -                             | 3,500                           | 3,500                            | 3,500                      |
| - Office, Administration, and Mailing                 | 4,912                         | 4,500                   | 590                           | 4,000                           | 4,590                            | 5,000                      |
| - Professional meetings and memberships               | 2,948                         | 4,000                   | 3,555                         | 500                             | 4,055                            | 4,000                      |
| - Other                                               | 1,772                         | 10,500                  | -                             | 10,500                          | 10,500                           | 4,000                      |
| <b>Education and Outreach Funding</b>                 | <b>6,946</b>                  | <b>7,200</b>            | <b>2,305</b>                  | <b>4,895</b>                    | <b>7,200</b>                     | <b>9,300</b>               |
| - Newsletter                                          | 4,173                         | 4,000                   | 2,248                         | 1,752                           | 4,000                            | 4,500                      |
| - PBR Field Day                                       | 1,000                         | 1,000                   | -                             | 1,000                           | 1,000                            | 1,000                      |
| - Brochures                                           |                               |                         |                               |                                 |                                  | 1,000                      |
| - Sauk county lakes meeting                           | 1,000                         | 1,000                   | -                             | 1,000                           | 1,000                            | 1,000                      |
| - Education workshops                                 | -                             | 1,000                   | 57                            | 943                             | 1,000                            | 1,000                      |
| - Shoreline assessment followup                       | 773                           | -                       | -                             | -                               | -                                | 600                        |
| - Lake Champion Signs and/or Tours of Lake Properties | -                             | 200                     | -                             | 200                             | 200                              | 200                        |
| <b>Plan Integration</b>                               | <b>3,957</b>                  | <b>22,000</b>           | <b>-</b>                      | <b>7,000</b>                    | <b>7,000</b>                     | <b>20,000</b>              |
| - Lake Mgt. Plan Consultant                           | 3,957                         | 20,000                  | -                             | 5,000                           | 5,000                            | 10,000                     |
| - Producer Conservation Practices Incentives          | -                             | 2,000                   | -                             | 2,000                           | 2,000                            | 10,000                     |
| <b>Sediment Control</b>                               | <b>82,702</b>                 | <b>33,000</b>           | <b>-</b>                      | <b>30,950</b>                   | <b>30,950</b>                    | <b>117,800</b>             |
| - Martin Meadowlark Weir - Repair                     | 75,365                        | -                       | -                             | -                               | -                                | -                          |
| - Lake Maintenance and Erosion Control                | -                             | 8,000                   | -                             | -                               | -                                | 10,000                     |
| - Watershed Improvement Funding                       | -                             | 10,000                  | -                             | 10,000                          | 10,000                           | 5,000                      |
| - Cardinal Bay - Design                               | 90                            | -                       | -                             | 5,000                           | 5,000                            | 15,000                     |
| - Cardinal Bay - Repair                               |                               |                         |                               |                                 | -                                | 62,000                     |
| - Swallow Bay Repair                                  |                               |                         |                               |                                 |                                  | 10,000                     |
| - Drone Surveys                                       |                               |                         |                               | 950                             | 950                              | 800                        |
| - Property owners for runoff incentive                | 7,247                         | 15,000                  | -                             | 15,000                          | 15,000                           | 15,000                     |
| <b>Water Quality</b>                                  | <b>22,609</b>                 | <b>30,000</b>           | <b>7,202</b>                  | <b>22,762</b>                   | <b>29,964</b>                    | <b>33,500</b>              |
| - Aquatic Plant Management                            | 2,715                         | 10,000                  | 1,910                         | 4,000                           | 5,910                            | 20,000                     |
| - DNR Grant Clean Boats/Clean Water                   | 8,633                         | 5,000                   | 938                           | 4,062                           | 5,000                            | 6,000                      |
| - Other studies                                       |                               |                         |                               |                                 |                                  | 1,500                      |
| - Stream/Lake Monitoring, Sampling                    | 6,663                         | 10,000                  | 854                           | 13,200                          | 14,054                           | 6,000                      |
| - Goose Control                                       | 4,598                         | 5,000                   | 3,500                         | 1,500                           | 5,000                            |                            |
| <b>Total Expenditures</b>                             | <b>140,459</b>                | <b>128,700</b>          | <b>16,821</b>                 | <b>94,938</b>                   | <b>111,759</b>                   | <b>230,100</b>             |

## BUDGET MOTION

I MOVE THAT WE APPROVE THE PROPOSED 2027 BUDGET WITH OPERATING EXPENSES OF \$230,100 AND AN OPERATING EXPENSE TAX LEVY OF \$120,470.



# **THE FIRST 50 YEARS OF THE LRPD**

AL BAADE

# Some Old Highlights

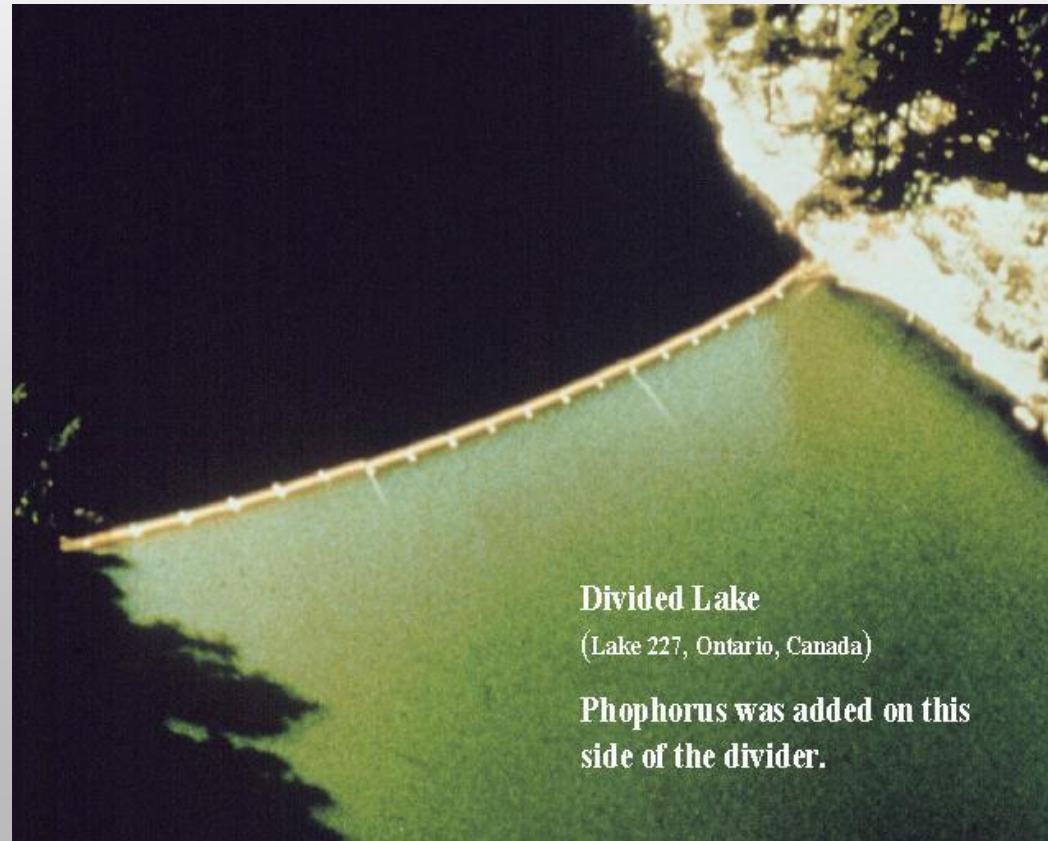
- 10/26/76 formation by a petition to the county, under Ch 33 state statutes
  - Minimum 51 percent of the landowners signed the petition
- Quote from the 1981 U-W study

*"Since this man-made lake was filled in the mid-1960's, water quality problems have plagued residents." Later it states: "Shortly after Lake Redstone was filled, signs of water deterioration appeared. Fast-growing, or blooming, algae clouded the water in the warm summer months. Dense growths of aquatic weeds stood along the shores. Small bays became shallower. Fish kills occurred during several summers."*



# Some Old Highlights

- Lake in Ontario Canada with phosphorous added to one side of divider



**Divided Lake**  
(Lake 227, Ontario, Canada)

**Phosphorus was added on this  
side of the divider.**

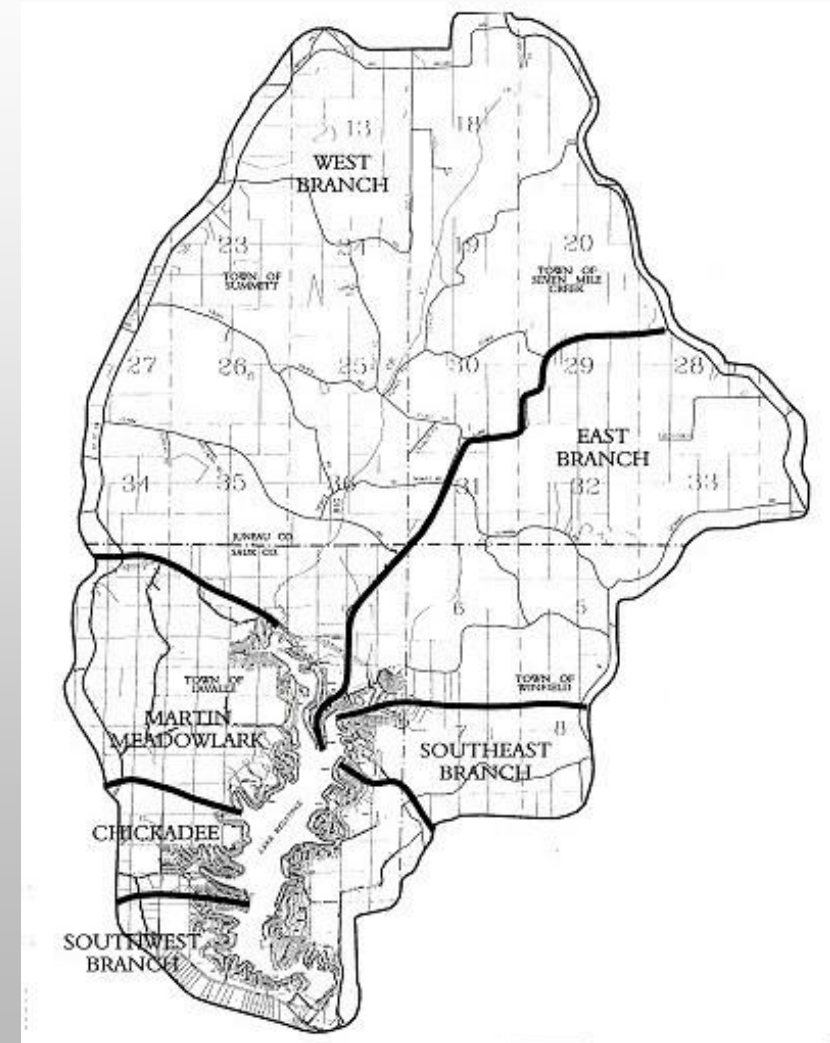


# More Old Highlights

- 1960's Anecdotal items
  - Chains dragged behind boats to break up vegetation to improve navigation
  - Blue and green ski rooster tail from algae and blue copper sulfate
- Started weekly copper sulfate treatments - like painting a rotten board.
  - Spray mid-week so nice for the weekend
  - Blue color
  - DNR wouldn't issue permit after 1997
  - Cutrine Plus investigated but was ineffective

# Events

- '92, '08, '18 had significant flooding
  - June 2008 got 10+ inches in 22 hours
  - Lake level came up approximately 4-1/2 feet
- Where it rains matters a lot
  - West Branch 45 %
  - East Branch 18 %



# 2008 Meronek Meadows Washout





# 2008 Meronek Meadows Washout



# 2008 Spillway



# Events

- Slow No Wake Protocol – 1993
  - September 1992 rain raised lake 3 feet
  - Based on prevention of hitting debris during high water levels, not shoreline erosion
  - Power to declare SNW transferred from sheriff to Town Board – 2009
  - Slow No Wake boat speed is the slowest speed possible while maintaining navigation

# Slow No Wake

- Goes into effect when the lake elevation is 16 inches above the spillway height
- Ends when the lake elevation drops to 12 inches
- Notifications
  - Road signs go up around the lake
  - Social media is updated
  - Radio station is notified



# Chocolate Plume July 2010

- Chocolate plume appeared after five inch overnight rain storm





# Chocolate Plume July 2010

- Also occurs to a lesser degree in east branch
- Looking for a point source in the west branch watershed
  - Plane flyover watershed - no point sources ID's
  - Stream Walks
    - MSA east and west branch stream walk 2007
    - Volunteer stream walk west branch, south of Clark Rd 2010

# Volunteer Stream Walk



# Chocolate Plume Prevention

- Plume is from non-point source
  - Likely from eroding stream banks
  - Only during major rain events
  - Stream silt building up for decades before lake created

# Chocolate Plume Prevention

- 2024 USGS study data: Little erosion with regular rain event
  - Working with farmers on improvements
- Producers of Baraboo River and Redstone (PBR) formed 2018
  - State Grants
  - Edge of field testing
  - Winter cover crops

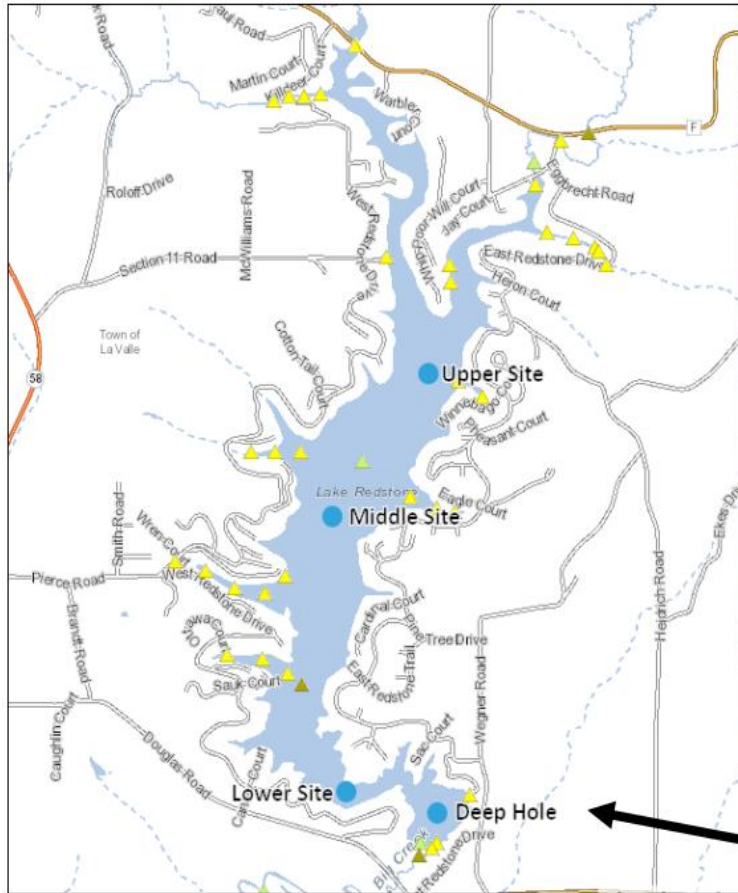
# LRPD Activities

- Lake modeling to determine P and water loading
- Lake Stewardship Award from WI Assn of Lakes 1997
- Aquatic Plant Management plan/updates
  - Early bay treatments, PI surveys
- 1997 purchased first DO/Temperature meter



# LRPD Activities

- Volunteer water chemistry monitoring since 1997
  - DNR has done the Deep Hole since 1980



**Longest, most complete record**



# LRPD Activities

- 2005 soil test – No phosphorous needed in fertilizer
- 2015 First Partners' Meeting
  - LRPD, Sauk Co, Juneau Co, DNR, USDA
  - We're a Role Model for Other State Districts
- Several engineering projects and studies
  - MSA, Vierbicher, Barr, Ayres, LEAPS, General Eng'g, Jewell

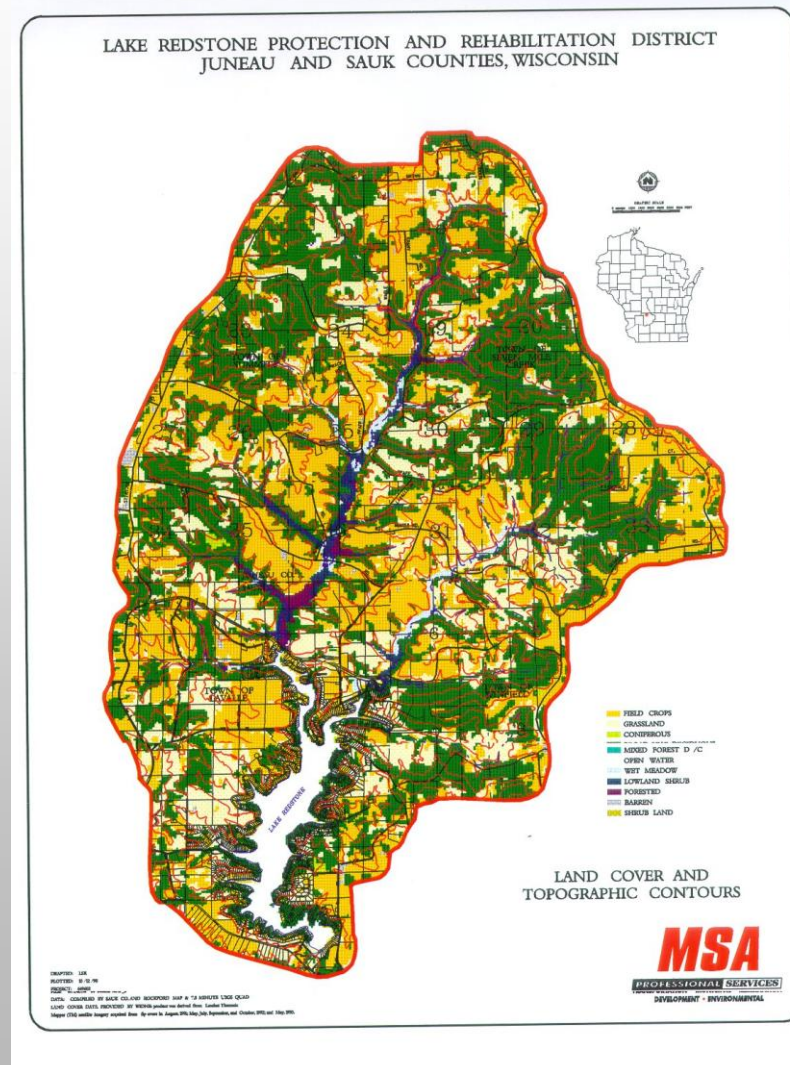
# LRPD Activities

- Clean Boats/Clean Water (CBCW) program– 2011
  - No zebra mussels, Chinese banded mystery snails
- Dredging 1986/87, 2019 – \$3.5M total cost, pay off loan in 2029
- Dam Bottom Draw DNR grant
- Elector Outreach
  - Web page, Facebook, 2006 first newsletter and survey,
  - Workshops, Take a Stake in the Lake expo joint with DH
  - 9 Key Element 10 year lake management plan - 2022

# Phosphorous/Erosion Reduction Activities

- Watershed Improvement Policy
  - 100% Fund Barnyard Gutters
  - Feedlot Improvements
  - Grass Filter Strips
- Watershed land use inventory

# Watershed Land Use Inventory



# Phosphorous/Erosion Reduction Activities

- 1984 Martin-Meadowlark Detention Ponds
- 1989 Oriole Bay rock chute
- 1993 Bridge at end of Martin/Meadowlark
- 1995 Mourning Dove and Eagle Bay rock chutes
- 1996 Fox Court: Energy stilling basins, sod flume and detention basins

# Phosphorous/Erosion Reduction Activities

- 2005 Timmons Road stabilization
- 2009 Meronek Meadows washout repair
- 2013 Hopi Ct.
- 2021 Meronek Meadows washout repair
- 2027 Cardinal Bay Washout
- And many more



# Where do we go from here?

Committee Reports Will Explain



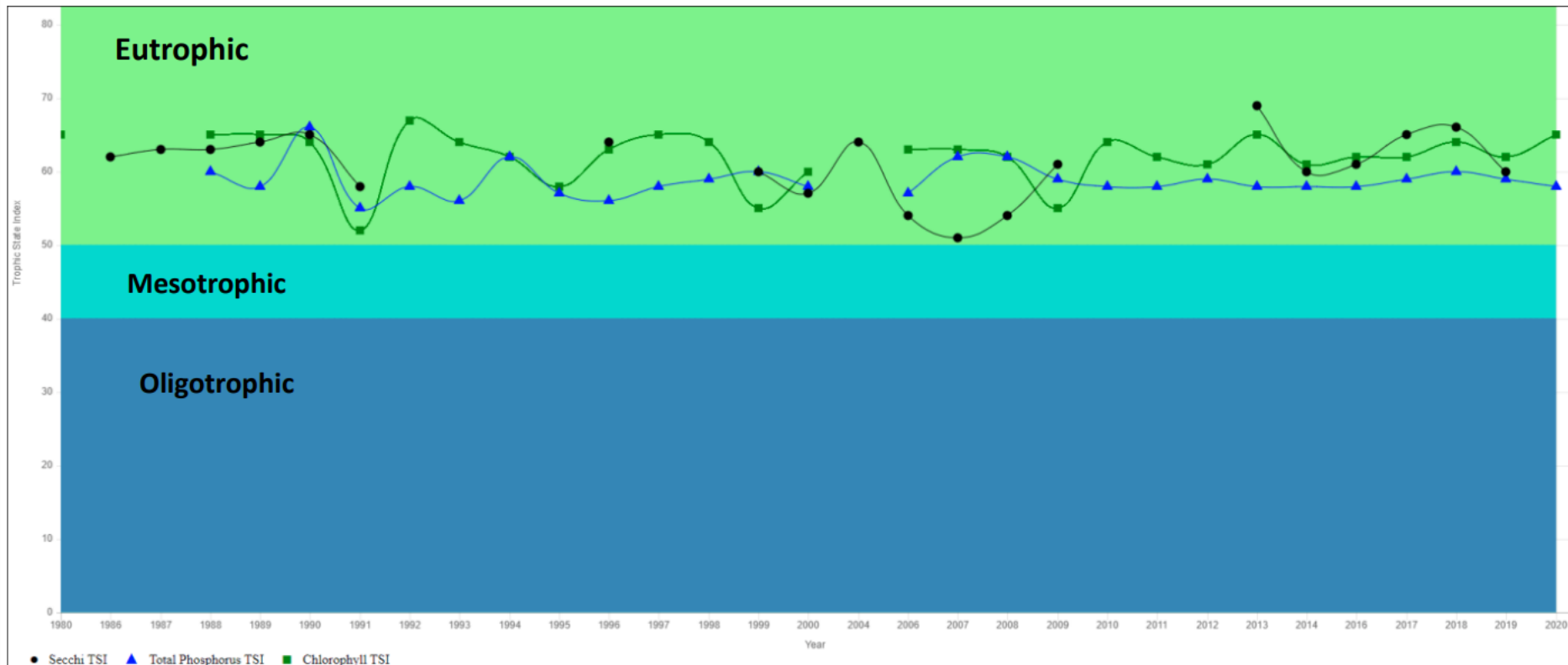
# RESULTS OF THE LAST 50 YEARS

BRAD HORNER

# RESULTS FROM THE LAST 50 YEARS!

- LONG TERM GOAL: MOVING FROM A LOWER END **EUTROPHIC** RATING TO A **MESOTROPHIC** RATING. [SOME LAKES IN WISCONSIN HAVE DONE THIS]

## Trophic index at Deep Hole



● Secchi

▲ Phosphorus

■ Chlorophyll

# RESULTS (CON'T)

## DESPITE:

### ☐ MASSIVE INCREASES IN THE NUMBER OF HOUSES THE LAST 50 YEARS

- IMPERMEABLE SURFACES AND MANICURED LAWNS WITH NO METHODS TO STOP RUNOFF

### ☐ EXPLOSION OF BOATS WITH LARGE AND POWERFUL ENGINES

- ESPECIALLY THE LAST 10 YEARS
- NEW PHENOMENON THE LAST 5 YEARS: PROP WASH POINTED DOWNWARD (WAKE BOATS)

# RESULTS (CON'T)

- ✓ **DREDGING INTERVAL WENT FROM 20 YEARS TO 33 YEARS.**
- ✓ **ALGAE BLOOMS HAVE BEEN ISOLATED AND TEND TO DISSIPATE FAIRLY QUICKLY**
- ✓ **DNR FISH SURVEYS (FISH SHOCKING) INDICATE A ROBUST FISHERY**
- ✓ **NO ZEBRA MUSSELS OR CHINESE BANDED MYSTERY SNAILS**
- ✓ **NUMEROUS RUNOFF AND SEDIMENT CONTROL PROGRAMS IN PLACE**

***“THE LAKE HAS ALWAYS BEEN THIS WAY, IT WILL ALWAYS BE THIS WAY”***



**THANK YOU FORMER COMMISSIONERS FOR  
THESE RESULTS!**





# WATER QUALITY TOPICS

JANE MAHONEY

*“The mission of the Lake Redstone Protection District is to protect and rehabilitate the water quality of Lake Redstone for its residents and the public.”*

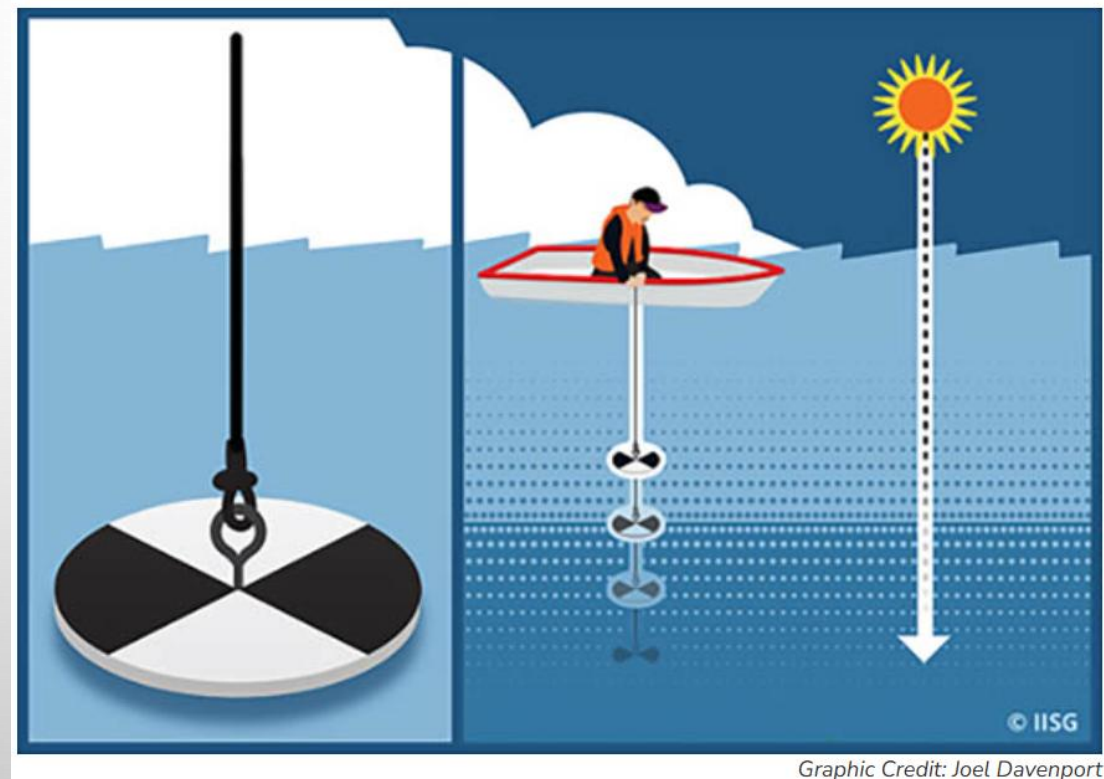
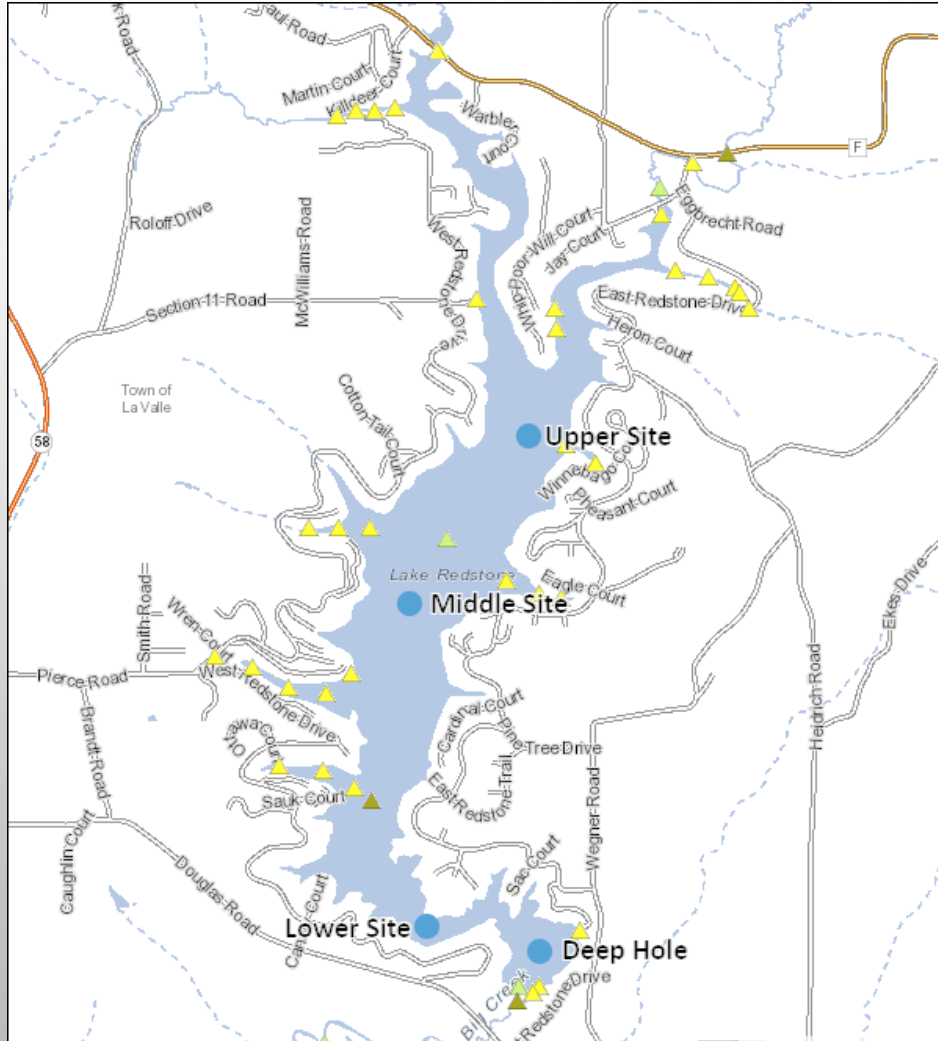


# LAKE REDSTONE WATER QUALITY MONITORING

- WATER QUALITY
- ALGAE
- AQUATIC PLANTS

# WATER CLARITY READINGS – SECCHI DISK

- Measured monthly

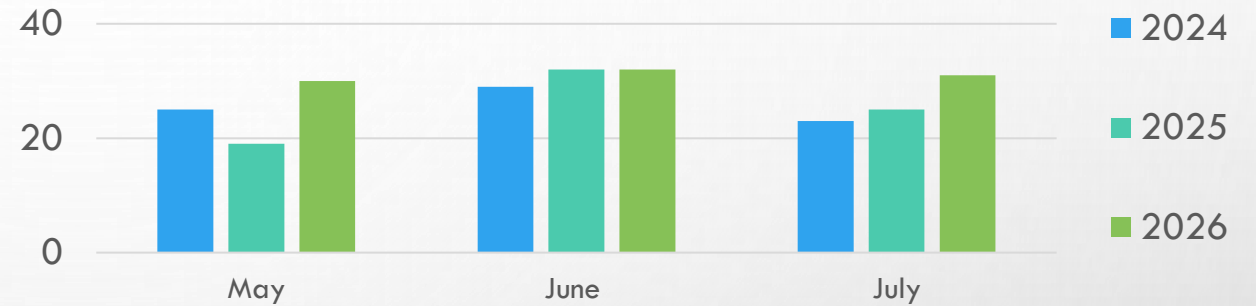


Graphic Credit: Joel Davenport

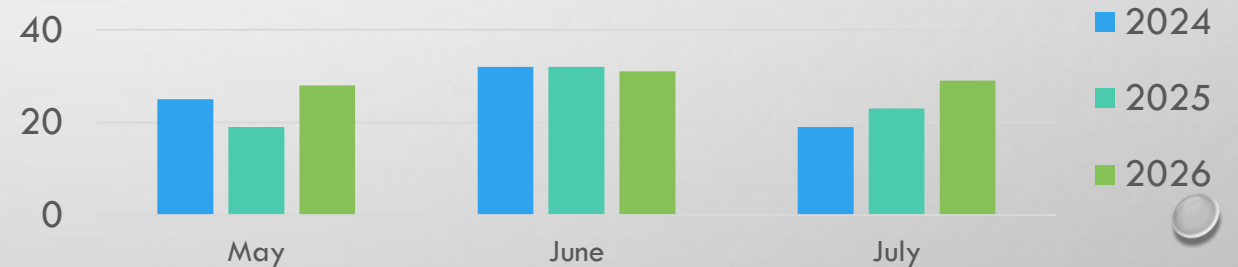
# WATER CLARITY READINGS 2024, 2025, 2026

- 2026 readings better or similar to 2024 and 2025.
- May 2025 - Limnothrix bloom

Middle Site



Upper Site



WHILE WATER QUALITY HAS IMPROVED, WE CANNOT  
DEFINITELY ATTRIBUTE THIS TREND TO A SINGLE VARIABLE



➤ ARE WE REDUCING PHOSPHORUS?

➤ GOOSE ROUND-UP?

➤ REDUCING RUN-OFF?

➤ WAKE BOAT ORDINANCE?

➤ DIFFERENT WEATHER PATTERNS IN 2026 COMPARED TO 2025?



# REDUCING RUN-OFF FROM TWO SOURCES

This map shows the shoreline of Lake Redstone with numerous individual property lots outlined. Various bird species are labeled around the lake, including Robin, Starling, House Finch, and others. A north arrow is located near the center of the lake.

Properties around lake

This map illustrates the Lake Redstone Watershed, divided into several colored regions representing different watersheds. The legend indicates the following areas:

- Lake Redstone
- Streams
- Roads
- Lower Lake Redstone (6,590.88 acres)
- Pfaff (4,558.82 acres)
- Daug's (1,197.13 acres)
- Lucht (1,058.2 acres)
- Clark (852 acres)
- Lavalle (4,193.91 acres)

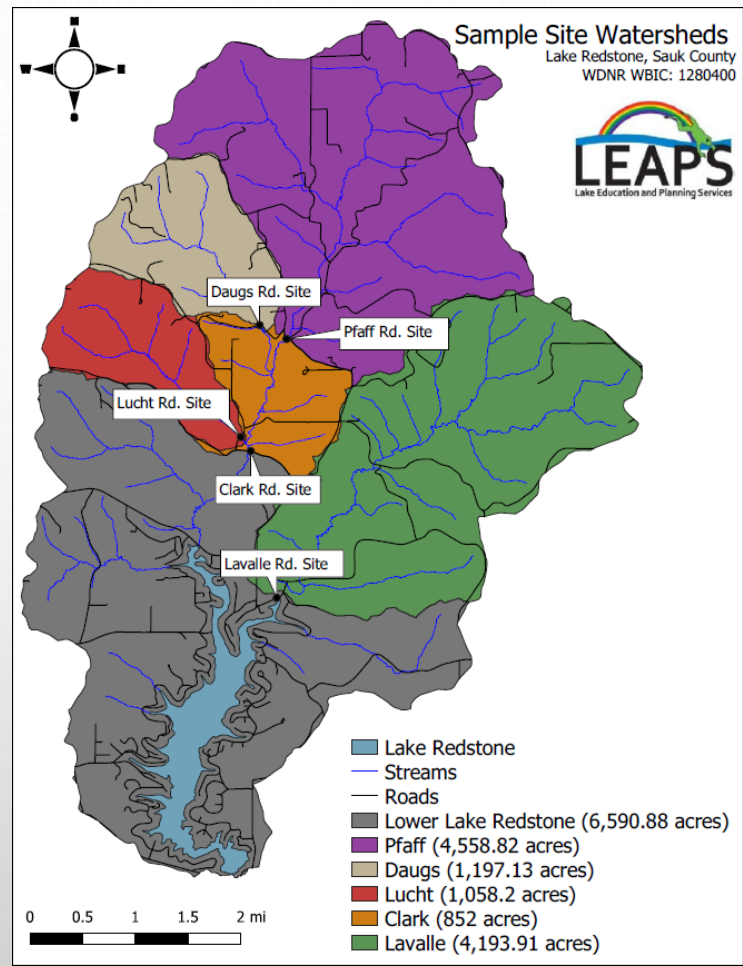
The map also includes a scale bar from 0 to 2 miles and a north arrow. Sample site locations are marked: Daug's Rd. Site, Pfaff Rd. Site, Lucht Rd. Site, Clark Rd. Site, and Lavalle Rd. Site.

Lake Redstone Watershed

56



## Properties around lake



# Lake Redstone Watershed

# 2025 MONITORING BLUE-GREEN MONTHLY SAMPLES

- EIGHT DIFFERENT TYPES OF BLUE-GREEN ALGAE IN DEEP HOLE AND UPPER SITE
- ALGAE POPULATIONS ARE VERY DYNAMIC MONTH TO MONTH
  - **LIMNOTHRIX – PEAKED IN MAY**
  - **PLANKTOTHRIX – PEAKED IN JULY**
  - **APHANOCAPSA, PLANKTOLYNGBYA – PEAKED IN AUGUST, SEPTEMBER**
- DEEP HOLE AND UPPER SITE SIMILAR



# 2025 ALGAE BLOOMS

- Two bloom events on Lake Redstone in September
  - No wind, hot temperatures
  - Multiple bays
  - Dissipated within a day
- Blooms seen across many other Wisconsin lakes at same time
- North Chickadee Bay sample obtained



## Blue-green algae in Lake Redstone bloom, 2026

| Aphanocapsa | Limnothrix | Planktolyngbya |
|-------------|------------|----------------|
| 249,633     | 8737       | 5170           |

# 2026 MONITORING

**IS IT BLUE-GREEN ALGAE ...OR SOMETHING ELSE?**

Blue-green algae are bacteria known as cyanobacteria and are a natural part of water bodies. With enough sunlight and nutrients, cyanobacteria can grow quickly and form a blue-green algae bloom.

- Blooms often look like spilled paint or pea soup and can change the color of the water to green, blue, turquoise, purple, tan, or white.
- Blue-green algae can produce toxins that can make people and animals sick.
- In Wisconsin, blooms are most common in the summer, or May to September.
- Blooms have look-alikes, so use your best judgment when choosing a spot to swim. Do not swim in discolored water or where you see foam, scum, or algal mats.

| HARMFUL                                                                                                                        | NOT HARMFUL                                                                                                                   |
|--------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| <br>Green water that looks like pea soup      | <br>Long, hair-like filamentous green algae  |
| <br>Surface scum that looks like spilled paint | <br>Yellow plant pollen                      |
| <br>Floating globs or mats                    | <br>Tiny, green floating plants (duckweed) |

To learn more about blue-green algae, visit [www.dhs.wi.gov](http://www.dhs.wi.gov) and search "algae."

Wisconsin Department of Health Services  
Division of Public Health  
Bureau of Environmental and Occupational Health

- Monitoring lake water monthly to compare 2025 and 2026
- Monitoring for algae blooms and taking samples for species identification
- If you see an algal bloom, email: [lrpd.notify@gmail.com](mailto:lrpd.notify@gmail.com)
- Sampling team will take sample, survey lake, notify WI DNR and Sauk County
- Sauk County has posted educational signs at boat landings and public beach
- If bloom at county beach, Sauk County will post advisory or close beach until bloom is gone.



# AQUATIC PLANTS

- **Good:** Low occurrence of Eurasian Water Milfoil
  - Recommend manual removal
  - Clean Boats, Clean Water Program – prevent introduction of invasive species
- **Not so good:** Low variety of aquatic plants - 8 species of aquatic plants in sampling of 3 bays - consistent over time
  - Recommend efforts to protect aquatic plants
    - Reduce wakes when in water less than 10 feet deep



# PROTECTING OUR LAKE



- IMPROVE WATER CLARITY
- REDUCE BLUE GREEN ALGAE
- PROTECT NATIVE AQUATIC PLANTS

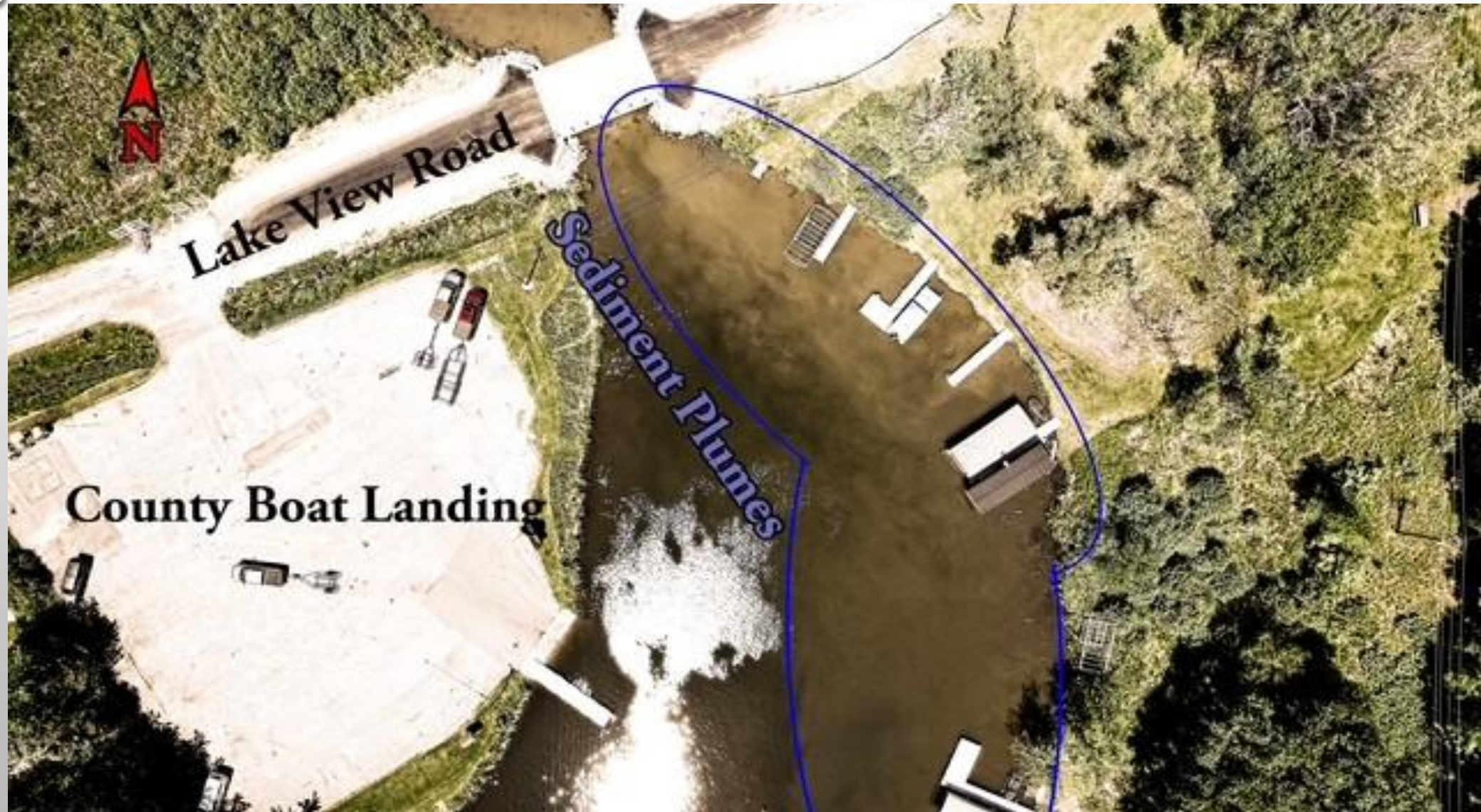


# SEDIMENT CONTROL TOPICS

BRAD HORNER



# 2026 DRONE PROJECT (DRONE TEST PICTURE)





# CARDINAL BAY PROJECT



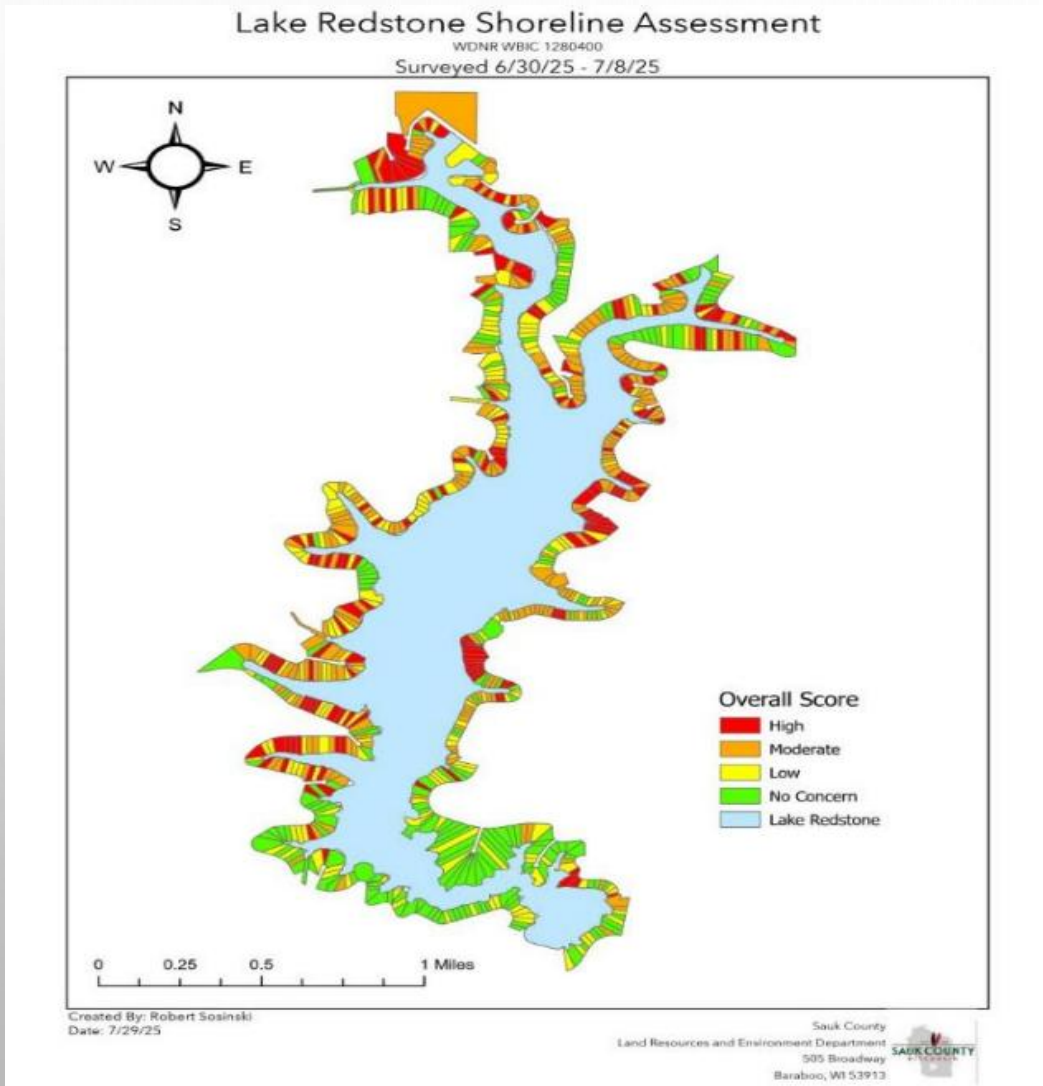


# SWALLOW BAY PROJECT





# 2025 SHORELINE/RUNOFF ASSESSMENT FOLLOW-UP!



## OTHER 2026/2027 ACTIONS

- CONTINUE THE ANNUAL “SPRING DRIVE-AROUND THE LAKE”
- CONTINUE THE ANNUAL INSPECTION OF PREVIOUS RUNOFF “FIXES”
- CONTINUE THE SEMI-ANNUAL “TRANSECT SURVEY” OF FARMER FIELDS





# INTRODUCE NEW COMMISSIONERS

MIKE MITTELSTADT





# CONGRATULATIONS TO OUR NEW COMMISSIONERS

DAVE CROCKETT

BRAD HORNER

# THANK YOU TO OUR BOARD

DAVE CROCKETT

TOM HENEGHAN

BRAD HORNER

JANE MAHONEY

RAY DEMANSKIE

PETER KINSMAN

# QUESTIONS & COMMENTS

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- **LIMITED TO 1 QUESTION/COMMENT PER PERSON AND A MAXIMUM OF 3 MINUTES**
- **PLEASE IDENTIFY YOURSELF FOR THE RECORD**



**NEXT BOARD MEETING**

**TUESDAY, AUGUST 4 AT 6:00 PM**





**THANK YOU!**

**FOR MORE INFORMATION:**

**[WWW.LAKEREDSTONEPD.ORG](http://WWW.LAKEREDSTONEPD.ORG)**

**LRPD.BOARD@GMAIL.COM**

The page features a light gray background with a subtle gradient. In the top-left and bottom-right corners, there are clusters of realistic water droplets of various sizes, rendered with soft shadows and highlights to give them a three-dimensional appearance. In the center of the page, the word "EXTRAS" is written in a bold, black, sans-serif font.

# EXTRAS

## Fire Number Map

## Lake Redstone Detail

Sauk County, WI T. 13N - R. 3 E.

