

The background of the slide is a light gray gradient with several realistic water droplets of various sizes scattered across it. The droplets have highlights and shadows, giving them a three-dimensional appearance. The text is centered in the middle of the slide.

LAKE REDSTONE PROTECTION DISTRICT PARTNERS MEETING

NOVEMBER 7, 2023

AGENDA

1. Call meeting to order
2. Approve agenda
3. Introductions
4. Discussion
 - A. Status of 9-key element plan implementation
 - B. Reports/discussion of activities proposed during plan implementation
 - C. Other topics of mutual interest
5. Next LRPD board meeting: November 14, 2023, 6 PM at La Valle Town Hall
6. Adjourn

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STATUS OF 9-KEY ELEMENT PLAN IMPLEMENTATION

WHY DO WE NEED A PLAN?



4 Years Ago Yesterday

107,000 cubic yards of
sediment was removed from
25 bays

LAKE MANAGEMENT PLAN HIGH LEVEL OVERVIEW

- **Implement Best Management Practices(BMP) throughout the watershed to reduce sediment and phosphorus loading into Lake Redstone**
- **Improve the riparian area by implementing BMPs to increase quality habitat for wildlife and mitigate the effects of development on Lake Redstone**
- **Use BMPs within Lake Redstone to reduce negative impacts from pollution, aquatic invasive species, and shoreline erosion**
- **Build and maintain partnerships with outside resource, state, university, county, lake groups, and other local entities to guide the implementation of BMPs**

LAKE MANAGEMENT PLAN

KEY PARTNERSHIPS

- Sauk County Land Resources And Environment Department
- Juneau County Land And Water Resources Department
- Producers Of The Lake Redstone Watershed (A Producer Led Cooperative)
- Discovery Farms (A Program Of UW-Madison Division Of Extension)
- Lake Redstone Property Owners' Association
- Wisconsin Department Of Natural Resources
- United States Geological Survey (USGS)
- Town Of LaValle
- Property Owners On Lake Redstone
- General Lake Users

PLAN INTEGRATION COMMITTEE

- Mike Mittelstadt, Chair
- **Volunteers:** Paul Burke, Don Haasl, Matt Messmer, Jim Olson, Sherryl Pertzborn, Cary Dudzak, Dick Fish, Ken Keegstra, Ken Kidd, Pat Sullivan, Dave Crockett

1. Milestone tracking and monitoring
2. Coordinating with partners to report progress
 - A. Sauk/Juneau County – Producers BMP
 - B. USGS – Stream Monitoring
 - C. Fishing Club – Carp removal
 - D. Sauk County – Transect Survey

EDUCATION AND OUTREACH COMMITTEE

- Brad Horner, Chair
- **Volunteers:** Sue Walters and Jay Kolb
- Joint field days with producer-led cooperative
- Annual Partners Meeting
- Annual “Protection Connection” Newsletter
- Take a Stake in the Lake
- Potential for a “Shoreline Showcase”
- Initiation of a “Shoreline Reimbursement Program”

SEDIMENT CONTROL COMMITTEE

- Pat Sullivan, Chair
- **Volunteers:** Paul Burke, Cary Dudczak, Dick, Fish, Brad Horner, Mike Mittelstadt, Al Johnson(Town Of La Valle)
- Prioritize stream/gully washes for runoff issues
 - Cardinal Bay – Sauk County
 - Eagle Bay – Town of La Valle
 - Chickadee South - Landowner
- Maintenance review sediment control structures
 - Meadowlark Weir
 - DNR Surface Water Grant
 - Sauk County Grant

WATER QUALITY PROJECTS COMMITTEE

- Ken Keegstra, Chair
- **Volunteers:** Tom Albert, Paul Burke, Chuck Ecklund, Ken Kidd, Jay Kolb, Pat Sullivan, Laurie Videle, Tom Wagner, Sue Walters, Tom Walters

1. Updating of Aquatic Plant Management Plan (APMP)
2. Update on lake water monitoring program
3. Connection to stream monitoring program (USGS)
4. Ideas to lower phosphorus levels in Lake Redstone



**REPORTS/DISCUSSION OF ACTIVITIES
PROPOSED DURING PLAN IMPLEMENTATION**

PLAN INTEGRATION COMMITTEE ACTIVITIES - MITTELSTADT

- A. Transect surveys to monitor cropping practices in watershed
 - 1. Report from Mitch McCarthy (Sauk County)
- B. Increase the use of BMPs in the watershed
- C. Fish survey update from Nate Nye (Wisconsin DNR)
- D. Shoreline zoning enforcement
- E. Sauk County NRCS grant

INCREASE THE USE OF BMPS IN THE WATERSHED

- A. Convert 40% of existing cropland acres (3,896 acres) to grazing/pasture – goal 156 acres/year
- B. Cropland bmps – conservation tillage, cover crops – 75% of remaining acres – goal 175 acres/year
- C. Increase agricultural acres covered under nutrient management plans to 10% of all agricultural acres – goal 33 acres/year
- D. Contour farming – 25% acres that do not already use the practice

SHORELINE ZONING ENFORCEMENT

- Sauk County responsible for enforcement
- Does DNR have any role?
- How should violations be reported?
- Rapid response to certain reported violations

SEDIMENT CONTROL COMMITTEE ACTIVITIES - SULLIVAN

- A. Review strategies to compare sediment and nutrient entry from gullies
- B. Strategies for improving shorelines around the lake

WATER QUALITY COMMITTEE ACTIVITIES - KEEGSTRA

- A. Stream monitoring program-with USGS
 - 1. Report from Keegan Johnson (USGS)
 - 2. Plans for 2023-24
- B. Lake monitoring program
- C. Revised Aquatic Plant Management Plan (Sara Hatleli)
- D. Improving water clarity in Lake Redstone

REVISED AQUATIC PLANT MANAGEMENT PLAN

Major points/goals & recommendations

- Plant populations are declining in Lake Redstone
- Protect native aquatic plants and other organisms
- Monitor and manage Eurasian Watermilfoil to maintain occurrence that aligns with beneficial use of Lake Redstone
- Prevent introduction of new invasive species
- Provide educational opportunities pertaining to aquatic plants, aquatic invasive species and manual removal techniques

EDUCATION AND OUTREACH COMMITTEE ACTIVITIES - HORNER

- A. Joint field days with Producer-led Cooperative
- B. Recap of 2022 LRPD survey
- C. New shoreline/runoff improvement program
- D. Educational workshops for property owners in the district
- E. Possible activities joint with other lakes in Sauk County

2023 PRODUCER LED COOP ACTIVITIES PER SARA FLECK

- February: Producers of Lake Redstone, along with the Farmers of the Lemonweir Valley, the Sauk Soil & Water Improvement Group, and the Lake Wisconsin Farmer Watershed Council hosted a **soil health workshop**. With Ohio farmer and cover crop expert Dave Brandt. **111** people attended
- July: formerly called field days. Producer of Lake Redstone and the Farmers of the Lemonweir Valley held a **workshop and pasture walk at the Powers family farm** with Will Winter, a livestock nutritionist and holistic herd health consultant from Minnesota. **40** people attended
- September: Jeff Wafle, a member of the Redstone watershed hosted a **pasture walk** to show his rotational grazing setup. He spoke about how he got into rotational grazing, his setup, and answered questions. **30** people attended.
- October: the DNR sponsored **soil health training** for the farmers in the Redstone and Lemonweir watersheds. Attendees learned about soil health and how to improve their soil, the group got to see a rainfall simulator demo and explore a soil pit dug in a nearby field. At the end of the event attendees received free soil health test kits to use on their farms. **23** people attended.

HIGH POINTS OF 2022 LRPD SURVEY

About 1/4 of property owners responded

- 40% said their Lake Redstone home is their primary residence
- 40% rated water quality as good or very good. 20% rated it as poor.
- 92% are very concerned or concerned about runoff from agricultural farmlands
- 50% said aquatic plants somewhat impact their enjoyment of the lake. 30% said not at all.
- 84% said they strongly support, or support, the use of DNR-approved chemicals in the lake



OTHER TOPICS OF MUTUAL INTEREST



THANK YOU!

FOR MORE INFORMATION:

WWW.LAKEREDSTONEPD.ORG

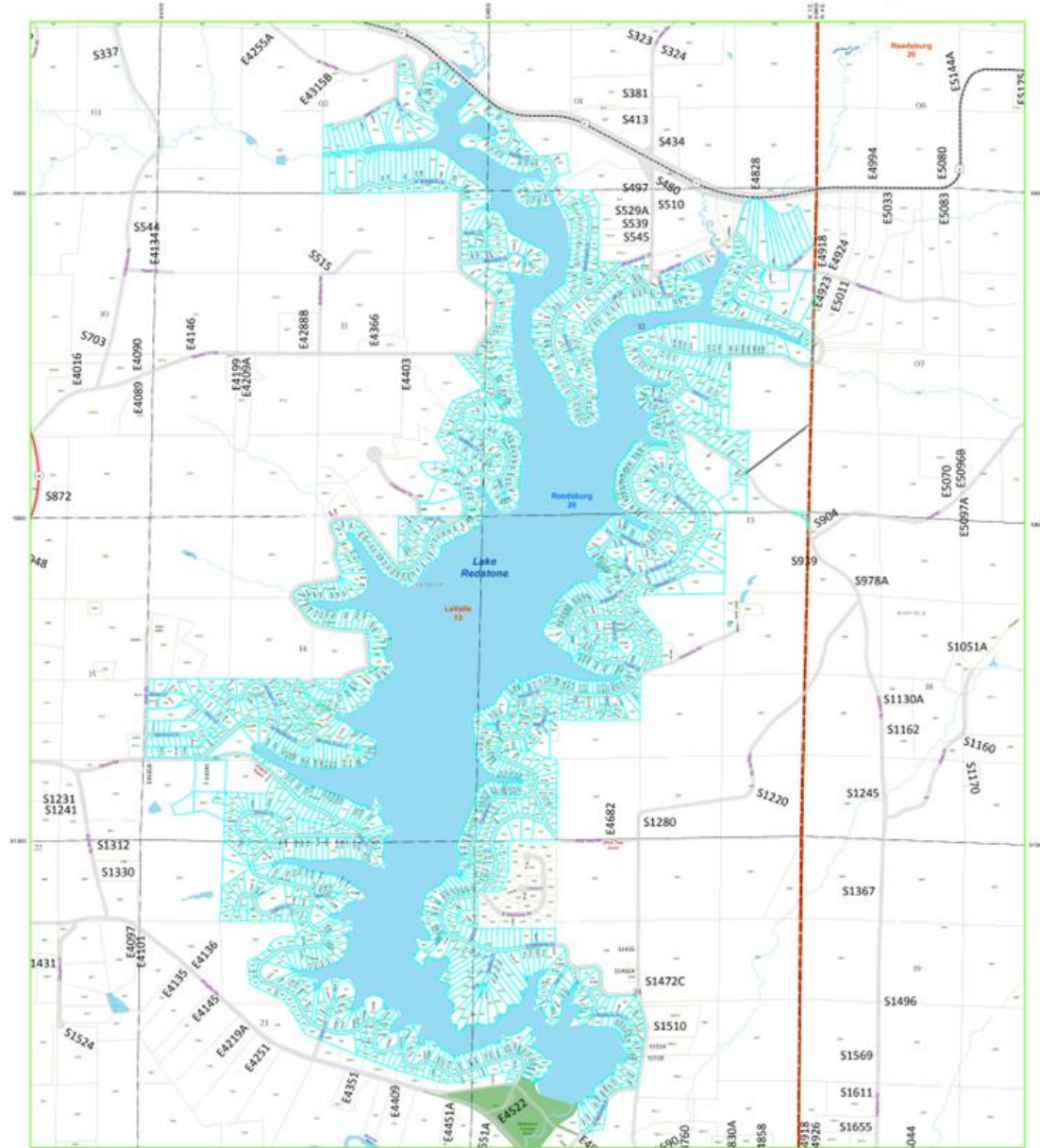
LRPD.BOARD@GMAIL.COM

EXTRAS

Fire Number Map

Lake Redstone Detail

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



0 650 1,300 2,600 3,900 5,200 Feet



Water monitoring in Lake Redstone

Several parameters, including total phosphorus have been measured for more than 20 years.

For many years, total phosphorus was measured near surface (2 ft down) and near the bottom (2 ft up)

