



Accelerating Water Resource Restoration of West Rush Lake, MN

WEST RUSH LAKES DEMONSTRATION PROJECT FACT SHEET

Overview: The West Rush Lakes Demonstration Project aims to address nutrient pollution and improve water quality in the West Rush Lakes ecosystem through the strategic application of EutroSORB G. This innovative project represents a collaborative effort between environmental agencies, local stakeholders, and scientific experts to implement sustainable solutions for lake restoration.

Treatment Process: In late June 2024, the project will commence with the application of 30,000 lbs. of EutroSORB G into West Rush Lake. This material is specifically designed to effectively capture phosphorus, a primary contributor to nutrient pollution, thereby improving water quality and restoring ecological balance within the lake.

EutroSORB G utilizes Lanthanum Modified Bentonite (LMB) to address eutrophication in water bodies. Lanthanum, well-known for its strong attraction to phosphorus, enhances the adsorption of phosphorus upon introduction into water bodies. This process effectively reduces phosphorus levels, diminishing the risk of eutrophication. As a rare earth element, lanthanum's selective absorption of phosphorus renders it invaluable for mitigating excess phosphorus and enhancing water quality restoration efforts. The treatment process is projected to be completed within 1-2 days, providing a swift and efficient intervention to mitigate nutrient runoff and enhance the health of the aquatic ecosystem.

Licensed professionals will administer the EutroSORB G treatment using a specialized barge. It's typical to observe improvement in water clarity within the treated area during EutroSORB G applications about 1-2 weeks following treatment. Please maintain a safe distance from the application boat.

Key Details:

- **Treatment Date:** Late June 2024
- **Quantity of EutroSORB G:** Treatment Zone 1: 489 lbs/acre. Treatment Zone 2: 964 lbs/acre.
- **Expected Duration of Treatment:** Approximately 1-2 days

Project Goals: The overarching goals of the West Rush Lakes Demonstration Project include:

1. Nutrient Reduction: By utilizing EutroSORB G, the project aims to significantly reduce phosphorus levels within the lakes, thereby minimizing the risk of algal blooms and promoting a healthier aquatic environment.

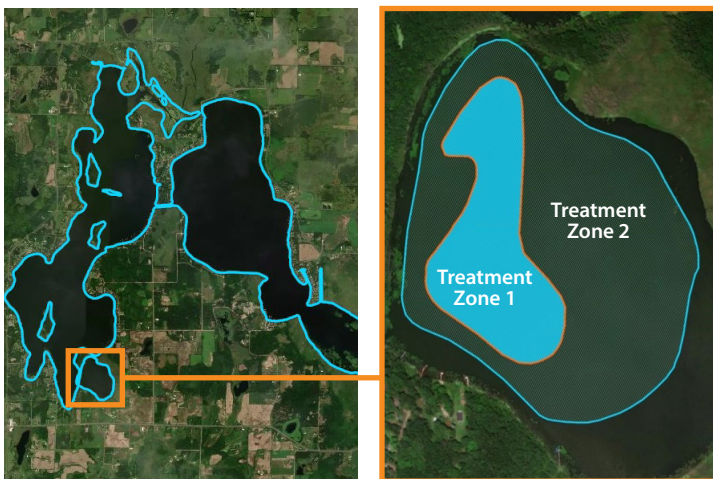
2. Water Quality Improvement: The project is to showcase this technology and technique within a designated section of the lake, aiming to gather insights for wider application in the management of West Rush Lake.

3. Eutrophication Prevention: Through the removal of excess phosphorus from the water column, EutroSORB G plays a crucial role in safeguarding water quality and mitigating the risks associated with eutrophication, including oxygen depletion, toxin production, and ecological disruption.

4. Community Engagement: The project emphasizes community involvement and awareness, fostering collaboration among local stakeholders, environmental organizations, and scientific experts to achieve shared conservation objectives.

5. Long-term Water Quality Maintenance: While the exact duration of effectiveness may vary depending on factors such as nutrient input and environmental conditions, EutroSORB G treatment can provide lasting benefits to West Rush Lakes.

6. Wide Margin of Safety: Extensive research and testing have demonstrated the safety and effectiveness of EutroSORB G in real-world applications. The product has undergone rigorous evaluations to ensure compliance with environmental regulations and standards. Proper application and handling protocols ensure that EutroSORB G is used in a manner that minimizes the risk of exposure to people and pets. When applied according to guidelines, EutroSORB G poses no risk to human health and safety.



Treatment Zones for West Rush Lake, MN.

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During the West Rush Lakes Demonstration project, water quality monitoring will be conducted to assess the effectiveness of the EutroSORB G treatment and ensure the overall health of the lakes. Here's an overview of the water quality monitoring process:

- 1. Baseline Assessment:** Before the treatment begins, baseline data on water quality parameters such as nutrient levels, clarity, dissolved oxygen, pH, and temperature will be collected. This provides a starting point for comparison and helps establish the current state of the lakes.
- 2. Frequency of Monitoring:** Monitoring activities will occur at regular intervals before, during, and after the EutroSORB G treatment. This allows for the assessment of short-term and long-term effects of the treatment and helps identify any trends or patterns in water quality changes.
- 3. Data Analysis:** Collected data will be analyzed to evaluate the impact of the EutroSORB G treatment on water quality parameters. Comparisons with baseline data and historical trends will be made to assess the effectiveness of the treatment in reducing nutrient levels and improving overall water quality.
- 4. Adaptive Management:** Based on the findings from water quality monitoring, adjustments to the treatment strategy may be made as needed. This adaptive management approach ensures that the project remains responsive to changing conditions and optimizes outcomes for lake restoration.
- 5. Reporting and Communication:** Results from water quality monitoring will be documented and communicated to stakeholders, including project partners, regulatory agencies, and the local community.

Conclusion: Following the treatment with EutroSORB G, there will be no restrictions to recreational activities in West Rush Lake. The West Rush Lakes Demonstration Project represents a proactive initiative to address nutrient pollution and promote the sustainable management of freshwater resources. Through the strategic application of EutroSORB G and the collective efforts of all involved parties, this project holds the promise of revitalizing the West Rush Lakes ecosystem for the benefit of present and future generations.



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