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JD2 AND MILLER BAY PROJECT TEAM MEETING NOTES

02/24/2025 | 9:00 to noon

SRWD Office 642 Lincoln Rd Sauk Centre Mn 56378

Attendees / Invitees

Steve Zeece III (SRWD), Jon Roeschlein (SRWD), Susan Capitola (Landowner), Randy Neumann (Todd County), Paul Hartmann (SRWD), Janice Hauri (Landowner), Peter Allen (USACE), Abi Parker (SRWD), , Ken Rutten (Douglas SWCD) Drew Kessler (Houston Engineering), Tom Anderson (JD2 Inspector) Natalie Mcglinch (USACE)

Introductions were given by those in attendance.

Open Discussion: The group discussed the possible Osakis Lake water quality effects from the City of Osakis' Osagi park renovations. Expressed were concerns with vegetative clearing along the steep shoreline for the lookout. Discussion concluded with project team members communicating stakeholders should work to stay informed with project updates and progress and influence final designs at public meetings for the purpose of offsetting or eliminating aspects that may be detrimental to the shoreline stability and water quality of lake Osakis. SRWD staff to coordinate with the city to determine whether a permit is required.

Osakis Lake Association (OLA) Updates:

OLA has completed their feasibility study and have decided upon a modified rock arched multi-stage outlet channel. Some concerns expressed related with downstream impacts due to the increased outlet capacity during high flow. OLA has directed their consultant to perform hydraulic and hydrologic analysis to model how the areas downstream s could be affected by peak flow conditions.

United States Army Corp (USACE) Planning Assistance States (PAS) Alternatives Analysis

Task 1 – Establish Current Condition: **Status- Nearing Completion**

Subtask 1.A Monitoring Record and Lake Survey –

- Lake bathymetric survey- **Complete**
- sub-bottom profiler survey to estimate the thickness of the sediment profile. **Complete**
- Utilization of survey data, establish an estimate of the volumetric infilling that has occurred within Miller Bay and Lake Osakis. **In Process**
- Sediment cores collected from within Miller Bay **Complete**
- Aquatic plant and invasive species survey **Complete**

Subtask 1.B Watershed Source Assessment

- Characterization of sediment and nutrient loading from the watershed to Lake Osakis utilizing an existing Hydrologic Simulation Program-Fortran (HSPF) model. **In process**
- Assessment to estimate the amount of sediment and nutrient loading from near-channel sources (bank erosion and the JD2 sediment pond) along JD2 contributed to Miller Bay. **Complete**

Subtask 1.C Lake Response Model and Material Mass Balance – A 2-dimensional lake response model developed by the USACE to predict how different management actions will impact that overall function of Miller Bay and Lake Osakis. The lake response model will also be used to complete a mass balance assessment for sediment and nutrients contributed to the lake, legacy material and nutrients already in the lake, and sediment and nutrients that pass through the lake. **Nearing Completion.**

Next Steps:

The next JD2 PT meeting is tentatively scheduled for the early to mid summer of 2025, once the United States Army Corps of Engineers (USACE) Planning Assistance to States (PAS) Alternatives Analysis data have been gathered, processed, and input into the USACE's lake response model. At the next meeting, the USACE Staff will facilitate a workshop as part project task 2; to set project goals. The data from previous tasks will be used to establish management goals that will improve the overall function of Lake Osakis. In addition, alternatives that are technically feasible for making progress towards the management goals for Lake Osakis will be identified. Up to 50 alternatives from this workshop will be brought forth to the next task of this analysis; assessing and ranking projects to determine the top 10 alternatives. This meeting is planned to be held in the City of Osakis with Project Team members as well as representation from local ag production organizations like the MN Corn Growers Association, MN Soybean Growers Association, Minnesota Milk Producer Association, and other key stakeholders.

Crooked Lake Project Updates:

Meetings and coordination with landowners and Crooked Lake Project Partners have continued to finalize designs. Landowners have expressed they are not comfortable with impounded waters adjacent to their building site on the eastern easement (site 3). Site 1 is nearing design completion and is

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expected to proceed. An excavated pool was proposed but is not favorable by some for habitat benefits due to soil composition and proposed design.

Site 1 will consist of a sheet-pile dam structure manually controlled via stop logs to impound water during spring and fall migration seasons.