



Title: Authorization to Execute Contract for Wassermann Lake Alum Treatment

Resolution number: 22-052

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Reviewed by: Name/Title: Anna Brown/Project Planner

Recommended action: Authorize the approval of a contract with SOLitude Lake Management for a second alum treatment to Wassermann Lake

Schedule: Sept 15, 2022-October 31, 2022: Alum treatment window

Budget considerations: Fund name and code: Wassermann Lake Internal Load Management 3-3156
Fund budget: \$213,770
Expenditures to date: \$9,665.25
Requested amount of funding: \$167,143.78 (Not to exceed a budget of \$182,700)

Past Board action:

Resolution 19-072	Authorization to apply for BWSR Clean Water Funds
Resolution 20-050	Ordering of the Wassermann internal load management project
Resolution 20-051	Approval of Wassermann internal load project agreement
Resolution 21-012	Authorization to solicit quotes for the first Wassermann treatment
Resolution 21-025	Contract award for the first alum treatment
Resolution 22-021	Approval of design and construction oversight contract for second alum treatment
Resolution 22-045	Approval of Specifications for Wassermann Alum Treatment and Authorization to Solicit Quotes

Summary:

Since adopting the 2017 Water Management Plan, MCWD has been working to implement high-impact capital projects within the Six Mile Creek Halsted Bay (SMCHB) subwatershed. To maximize the outcomes of the 2017 plan, the focus of the first phase of project implementation was in the City of Victoria and Laketown Township, where current land use pressure presents a unique opportunity to implement projects concurrent with development. Under this plan, MCWD has invested substantially in both watershed and in-lake management activities in the restoration of Wassermann Lake, an impaired waterbody within the city of Victoria. Internal loading is the last remaining significant source of nutrient pollution to address in Wassermann Lake. The 2013 SMCHB Diagnostic Study estimates an annual internal release rate of 374 pounds per year. MCWD plans to conduct its second alum treatment of Wassermann Lake in October 2022, concluding this phase of focused restoration work in and around Wassermann Lake.

Wassermann Lake Alum Treatment

In January 2020, MCWD was awarded a Clean Water Fund grant from BWSR, positioning Wassermann Lake for an initial alum treatment in spring 2021 and a subsequent treatment in fall 2022. The total budget for this project is \$355,900, including \$284,720 in grant funds and \$71,180 in a match. MCWD's match funds are allocated to feasibility, pre- and

mid-project sediment analysis, and a portion of the treatment cost. The grant dollars are allocated exclusively to alum applications.

In October 2020, MCWD contracted with Wenck (now Stantec) to conduct the engineering feasibility of the alum treatment and develop an alum dose design and cost estimates for the treatment. The feasibility study recommends the treatment be split into two doses, with monitoring and sediment core analysis between the first and second dose to evaluate the effectiveness and make any adjustments to the dosing recommendation needed to optimize the treatment. The first treatment had a completion date of May 2021.

In April 2022, MCWD contracted with Stantec to develop specifications for the second treatment, including the following:

1. Efficacy assessment of the first alum treatment to Wassermann Lake and a determination of any needed adjustments to chemical application levels
2. Modifications to the specifications to increase the screening of alum treatment contractors, explicitly looking at experience, capacity, and staffing
3. Oversight of the alum application

Post-treatment monitoring concluded that chemical treatment levels were adequate and addressed targeted goals, and that remaining funds after the second quote solicitation should be used for the treatment of shallow zones.

Second Treatment Award Recommendation

At the July 28, 2022, meeting, the MCWD Board of Managers approved the specifications for the second alum treatment and authorized staff to solicit quotes. On July 29, 2022, staff distributed the request for quotes (RFQ) to three firms, and received responses from two firms, summarized below:

	Stantec Engineer's Estimate	Lake Restoration Inc.	SOLitude Lake Management
Project Total	\$168,484	\$227,732	\$167,144

SOLitude Lake Management submitted the low quote for the project. Stantec concurred with the low quote finding and found their submittal to be responsive. As such, staff recommends that the contract be awarded to SOLitude Lake Management.

The total remaining BWSR grant funds available for the Wassermann lake alum treatment are \$182,770. Staff is requesting the Board to establish a not to exceed budget so that the District Administrator can issue a change order for the remaining budget funds. Upon approval of the contract with SOLitude, staff would direct SOLitude, per the recommendation and guidance from Stantec, to apply the additional funds towards treatment in shallower zone of Wassermann, in an amount not to exceed the remaining balance of \$15,626.



RESOLUTION

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- WHEREAS pursuant to Resolution 14-047 the MCWD Board of Managers has identified the Six Mile Creek-Halsted Bay (SMCHB) Subwatershed as a priority area for focusing District planning activities and coordination efforts with subwatershed partners;
- WHEREAS in January 2018 the Board of Managers adopted the MCWD Watershed Management Plan (WMP), which incorporated a comprehensive restoration strategy developed in 2016 for the SMCHB subwatershed to achieve MCWD's goals of protecting and improving water quality, water quantity, ecological integrity, and thriving communities through land use and water integration. The WMP includes a capital improvement plan, which lists the Wassermann West External Load Reduction as an implementation project;
- WHEREAS in March 2020, the Board of Managers accepted a grant award of \$284,720 through the BWSR Clean Water Fund grant program for the implementation of the Wassermann Internal Load Management project;
- WHEREAS on June 23, 2020, the Board of Managers ordered the Wassermann Internal Load Management Project in fulfillment of the MCWD WMP's identification of the project as a planned capital investment to reduce internal nutrient loading, improve water clarity, and create a more abundant and diverse aquatic vegetation community with alum treatments;
- WHEREAS on September 24, 2020, the Board of Managers approved a contract with Wenck Associates, now Stantec, to analyze collected water chemistry and sediment data to develop specifications for alum treatment of Wassermann Lake and the Wassermann West Pond and to provide construction oversight of the alum applications;
- WHEREAS on January 28, 2021, the Board of Managers authorized the release of a request for quotes for the Wassermann Lake and Wassermann West Pond Alum Treatments;
- WHEREAS on March 25, 2021, the Board of Managers awarded the contract for the Wassermann Lake and Wassermann West Pond Alum Treatments to Clark Aquatic Services, and the alum treatments were completed in May 2021;
- WHEREAS on April 14, 2022, the Board of Managers approved a contract with Stantec to develop specifications and provide application oversight for the second planned alum treatment of Wassermann Lake; and the scope of work included strengthening the qualifications section of the quote package and completing sediment core analysis to inform alum treatment specifications;
- WHEREAS on July 28, 2022, the Board of Managers approved the specifications for the Wassermann alum treatment and authorized staff to solicit quotes for second alum treatment;
- WHEREAS on July 29, 2022, staff solicited quotes from three contractors, and received two responses; and in consultation with Stantec have found SOLitude Lake Management to be the low, responsive quote;

NOW, THEREFORE, BE IT RESOLVED, that the Minnehaha Creek Watershed District Board of Managers hereby authorizes the District Administrator, on the advice of counsel, to execute a contract with SOLitude Lake Management for \$167,144 for the second Wassermann Lake alum treatment, and authorizes the Administrator to execute change orders in his discretion in an amount not-to-exceed \$182,770.

Resolution Number 22-052 was moved by Manager _____, seconded by Manager _____. Motion to adopt the resolution ___ ayes, ___ nays, ___ abstentions. Date: August 22, 2022

Secretary Date: _____

DRAFT