

Memorandum

To: Riley-Purgatory-Bluff Creek Watershed District Board of Managers and District Administrator
From: Barr Engineering Co.
Subject: Engineer's Report Summarizing June 2023 Activities for July 12, 2023 Board Meeting
Date: July 5, 2023

The purpose of this memorandum is to provide the Riley-Purgatory-Bluff Creek Watershed District (RPBCWD) Board of Managers and the District Administrator with a summary of the activities performed by Barr Engineering Co., serving in the role of District Engineer, during June 2023.

General Services

- a. Participated in the June 7 regular Board of Managers meeting.
- b. Participated in the second Ecological Health Action Plan workshop on June 15.
- c. Participated in the June 15 workshop with the Board of Managers.
- d. Met virtually with Administrator Jeffery, President Ziegler, Counsel Smith and Counsel Welch on June 26 to review draft agenda for July 12 regular board of managers meeting.
- e. Met with Administrator Jeffery and staff Bakkum on June 29 to work on RPBCWD's draft 2024 budget.
- f. Met with Administrator Jeffery, Chanhassen staff, and Kimley-Horn staff on June 29 to discuss a regional stormwater management approach for the reconstruction and redevelopments in downtown Chanhassen.
- g. Developed a task order to facilitate the reinstatement of RPBCWD groundwater well monitoring program to provide data to inform future RPBCWD groundwater protection measures.
- h. Developed payment application 12 for the Scenic Heights Forest Restoration project to release the remaining retainage held by RPBCWD.
- i. Prepared Engineer's Report for engineering services performed during June 2023.
- j. Created draft web mapping tool for residents to discover which watershed they live in.

Permitting Program

- a. *Permit 2023-003 Galpin Boulevard Reconstruction* – The project proposes the reconstruction of roughly 2 miles of Galpin Boulevard (CR 117) between Hwy 5 and the Chanhassen/Shorewood border by converting the roadway from rural roadway to an urbanized section with curb and gutter. The project triggers RPBCWD floodplain management rule, erosion prevention and sediment control rule, creek and wetland buffer rule, waterbody crossing and structures rule, and the stormwater management rule. Reviewed May 23 submittal and provided comments. The application remains incomplete

- due to missing compensatory storage computations. Participated in a June 28 virtual meeting with the applicant to review comments.
- b. *Permit 2023-022 CorTrust Bank Parking Lot Reconstruction* – The project involves the reconstruction of the existing CorTrust bank building parking lot that has experienced settlement since its original construction in the 1990s. The applicant is proposing to restore the parking lot and improve storm sewer. The project triggers RPBCWD's floodplain (Rule B), erosion and sediment control (Rule C), wetland and creek buffers (Rule D), and stormwater management (Rule J). The applicant is requesting a variance from achieving full compensatory storage requirements. Responded to applicant's questions about the need for a current wetland delineation.
 - c. *Permit 2023-034 Life Time Pickleball Building* – The project proposes to redevelop a portion of the Life Time complex at 2932 Water Tower Place and 2970 Water Tower Place in Chanhassen. The project triggers RPBCWD erosion prevention and sediment control (Rule C) and stormwater management (Rule J). Reviewed submittals and draft the permit report for consideration at the July 12, 2023 regular meeting of the Board of Managers.
 - d. *Permit 2023-020 Bush Lake Veterinary Building* – The project proposes the development of a new veterinary clinic building and associated onsite parking area and driveway at 10160 Hennepin Town Road in Eden Prairie, MN. The project triggers RPBCWD erosion prevention and sediment control (Rule C) and stormwater management (Rule J). The project includes a subsurface stormwater infiltration/detention chamber to provide volume control, water quality, and rate control. Barr reviewed submittals and drafted the permit report for consideration at the July 12, 2023 regular meeting of the Board of Managers.
 - e. Miscellaneous preapplication calls from future applicants with questions about rule applicability and criteria.

Data Management/Sampling/Equipment Assistance

- a. Prepared, loaded, and verified two RMB Laboratory (RMB) reports to the database.

Task Order 6: WOMP Station Monitoring

Purgatory Creek Monitoring Station at Pioneer Trail

- a. No activity.

Purgatory Creek Monitoring Station at Valley View Rd

- a. Download and review data.
- b. Storm event sampling - set station.
- c. Review and approve MCES lab invoice for Quarter 1.

Task Order 14B: Lower Riley Creek Restoration

- a. Working with contractor to compile final close-out paperwork, retainage release and final payment application. all

Task Order 24B: Silver Lake Water Quality Improvement Project

- b. Vegetation maintenance contract is underway through December 2025.

Task Order 28B: Rice Marsh Lake (RM_12a) Water Quality Improvement Project

- a. The three-year vegetation establishment period is in process.
- b. fullDue to excess heat and drought, the contractor requested replacement planting and seeding occur in September Maintenance site visits will take place in the meantime, preparing for the fall work.

Task Order 29B: Middle Riley Creek (Reach R3) Stabilization Project Design

- a. Stantec (formerly Cardno – sub to Sunram) visited the site 3 times during June to treat invasives (thistle and reed canary grass), as well as to plant replacement live plugs as part of ongoing vegetation establishment management.
- b. Year One of vegetation management will be complete on July 15, 2023.

Task Order 30B: Pioneer Trail Wetland Restoration Project

- a. The three-year vegetation establishment period is in process.
- b. A stoplog was placed to reduce outflow through the draintile and hold more water in the wetland.
- c. A meeting is scheduled on the week of 7/10 with the contractor to discuss warranty items and replacement plantings. The site will be visited in early fall to assess vegetation replacements requirements.

Task Order 032B: Upper Riley Creek Ecological Enhancement Project

- a. Barr staff walked the site with City of Chanhassen staff on June 1st to review proposed restoration layout and tree removal and protection plan. Plan modifications are currently underway for the final drawing set, with bid package anticipated for review in late August.
- b. RPBCWD permit is planned for submittal after plans have been updated in July.
- c. Draft exhibits to go along with license agreements for working on private property were provided to RPBCWD staff and attorney on April 25.



Task Order 033: Wetland Assessment – Phase 1

- a. Continued drafting Phase 1 report to define ecosystem services and describe methodology for assessing each service.
- b. Having discussions with BWSR to determine if the approach they are developing will impact the RPBCWD approach.
- c. Having internal discussions to align the wetland plan with the Ecosystem Health Assessment currently in development for the district.
- d. Draft report expected to be delivered in August.

Task Order 035: Eden Prairie Stormwater Model Update and Flood-Risk Area Prioritization

- a. This month staff received comments from the MPCA on the Final MPCA Continual Tracking and Budget-Expenditure Tracking Reports. This month final reports and project deliverables will be submitted to the MPCA, City of Eden Prairie, and RPBCWD.

Task Order 036B: Upper Bluff Creek Reach 5 Design

- a. A scope of work for detailed design of the Upper Bluff Creek Reach 5 wetland and stream restoration project is underway. The proposed scope will be presented at the August Board meeting.

Task Order 037: Sediment Analysis

- a. Draft Lake Sediment Analysis Technical Memorandums were delivered to the administrator for Lake Riley and Rice Marsh Lake.
- b. The Lake Susan memo will be delivered by July 14, 2023.
- c. Updated approaches and cost estimates for alum treatments was included in each memo based on the results of the sampling.
- d. The Lake Susan wetland was sampled with RPBCWD staff on Monday, June 5, 2023.
- e. Sediment results for the Lake Susan wetland expected in September 2023.

Task Order 039A: Lotus Lake Water Quality Project – Preliminary Engineering

- a. Reviewing and summarizing results from infiltration testing from District staff at the various BMP sites. Waiting on results from soil health testing as collected by District staff.
- b. completeFinalizing BMP concepts, costs, and summaries.
- c. Drafting feasibility study report including text, tables, and figures.

Task Order 040: Alum Application on Lotus Lake

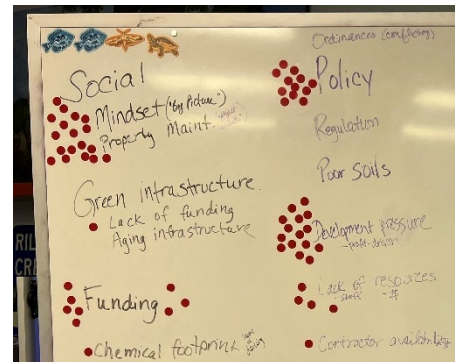
- a. Draft memo was delivered to the District Administrator in early June 2023.
- b. Draft memo included updated alum treatment scenarios and costs considering results from the first half-dose treatment, recreational use considerations, and water quality monitoring data.

Task Order 41: Chanhassen Decant Facility

- a. Continued geotechnical report.
- b. Continued preliminary design.

Task Order 43: Ecosystem Health Plan

- a. Met twice monthly with District staff to discuss team efforts.
- b. Prepared for and conducted the second of four workshops with the project advisory panel.. The goal was to identify what advisory panel members are doing in their communities to improve ecosystems through policy, regulations, planning, CIP projects, and through education. They listed initiatives within each category. This then allowed the group to identify gaps in the areas of jurisdiction in which work is conducted. The results have been tabulated and will be used to 1. Identify rules, policy, education, ect. in which the District can improve operations, 2. Identify where local agencies can improve their ecosystem operations, rules, etc., and 3. Identify where we can best partner to achieve our common goals.
- c. Developed a literature review of the altered hydrology of green space. Due to many factors including previous farming practices, to lawn establishment, to earthworms, to deer herbivory, the hydrology of green space in the District results in increased runoff and decreased water quality. This scientific understanding will justify any initiatives the District may choose to undertake to further protect and improve the watershed ecosystem.



Task Order 44: Lake Susan Park Pond Reuse Intake Modification

- a. Informed Administrator Jeffery and city of Chanhassen of the single quote received which was significantly higher than the engineer's opinion of construction cost.
- b. Discussed the path forward with Administrator Jeffery on June 28, 2023. Direction was provided to discuss quote with contractor, adjust the project as needed, and request new quotes from additional contractors to allow a decision at the September 2023 meeting.