

Riley-Purgatory-Bluff Creek Watershed District

Board of Managers Regular Meeting

Wednesday, April 1, 2020, 7:00pm

Virtual Meeting via ZOOM

<https://zoom.us/j/136169380>

Agenda

- | | |
|--|--------------------|
| 1. Call to Order | Action |
| 2. Approval of the Agenda | Action |
| 3. Public Hearing: Middle Riley Creek | Information |
| 4. Public Hearing: Wetland at 101 | Information |
| 5. Matters of general public interest | Information |

Welcome to the Board Meeting. Anyone may address the Board on any matter of interest in the watershed. Speakers will be acknowledged by the President; please come to the podium, state your name and address for the record. Please limit your comments to no more than three minutes. Additional comments may be submitted in writing. Generally, the Board of Managers will not take official action on items discussed at this time, but may refer the matter to staff for a future report or direct that the matter be scheduled on a future agenda.

- | | |
|---|---------------|
| 6. Reading and approval of minutes | Action |
| a. Board of Manager Meeting, February 5, 2020 | |
| b. Board of Manager Workshop, March 2, 2020 | |
| c. Board of Manager Workshop, March 24, 2020 | |
| 7. Citizen Advisory Committee | Action |
| a. Report | |
| b. Motion | |
| c. Application updates | |
| 8. Consent Agenda | |
| (The consent agenda is considered as one item of business. It consists of routine administrative items or items not requiring discussion. Any manager may remove an item from the consent agenda for action.) | |
| a. Accept March Staff Report | |
| b. Accept March Engineer's Report (with attached Inspection Report) | |
| c. Approve Pay App #1 Lake Susan Spent Lime Filter Modification | |
| d. Approve Pay App #3 Lower Riley Creek Branch Stabilization | |
| e. Approve Permit 2020-003 Moments of Chanhassen | |
| f. Approve Permit 2020-008 The Ridge | |
| g. Approve Duck Lake Raingarden Quote | |
| h. Enter into contract with Human Resources Consultant not to exceed \$5,000 | |

- i. Approve proposal from Wenck on the Review Aquatic Vegetation Management in Mitchell and Red Rock Lake

9. Action Items

Action

- a. Pulled consent items
- b. Accept February Treasurer's Report
- c. Approve Paying of the Bills
- d. Order Pioneer Wetlands at 101 Resolution and approve TO 30B Design of Wetlands at Pioneer Trail (Resolution 2020-05)
- e. Order Middle Riley Creek Resolution and approve TO 29B Design of Middle Riley Creek (Resolution 2020-06)
- f. Accept Land transfer of 770 Pioneer Trail, Chanhassen from City of Chanhassen to RPBCWD (Resolution 2020-07)
- g. Approve policy decision on mission critical projects

10. Discussion Items

Information

- a. Manager Report
- b. Administrator Report
- c. Lower Riley Creek update
- d. Duck Lake Road update
- e. Other

11. Upcoming Board Topics

- a. **Pleasant View Road Drainage Improvement Cost-share Public Hearing**
- b. Audit Presentation
- c. other

12. Upcoming Events

Information

- Citizen Advisory Committee Meeting, April 20, 2020, 6:00pm, Zoom Meeting
- Board of Managers Meeting, May 6, 2020. Zoom Meeting

Please check website for most current meeting details.

**Public Notice
(Official Publication)
Notice of Public Hearing
Riley Purgatory Bluff Creek Watershed District
Middle Riley Creek Restoration Project**

PLEASE TAKE NOTICE that the Board of Managers of the Riley Purgatory Bluff Creek Watershed District will hold a public hearing consistent with Section 103B.251 of Minnesota Statutes, on April 1, 2020 at 7:00 p.m. at District Office, 18681 Lake Drive East, Chanhassen, MN to consider implementing a creek restoration project on Middle Riley Creek located between Lake Riley and Rice Marsh Lake.

The total estimated project cost for this project is \$290,000. The District proposes to pay for the estimated \$290,000 project cost through its ad valorem property tax levy authorized by Minnesota Statutes Section 103B.241 for the implementation of its water management plan. Approximately 77% of this levy will be paid by properties in Hennepin County, and 23% paid by properties in Carver County.

All interested parties are invited to appear at the public hearing to offer comments and ask questions in order to advise the board of managers on whether to approve the proposed pilot projects. Further information is available by contacting the District Administrator, Claire Bleser, cbleser@rpbcwd.org, or 952-607-6512, or by visiting the District website: www.rpbcwd.org.

Dated: March 10, 2020

BY ORDER OF THE BOARD OF MANAGERS

David Ziegler, Secretary

**Public Notice
(Official Publication)
Notice of Public Hearing
Riley Purgatory Bluff Creek Watershed District
Wetland at Pioneer Restoration Project**

PLEASE TAKE NOTICE that the Board of Managers of the Riley Purgatory Bluff Creek Watershed District will hold a public hearing consistent with Section 103B.251 of Minnesota Statutes, on April 1, 2020 at 7:00 p.m. at District Office, 18681 Lake Drive East, Chanhassen, MN to consider implementing a wetland restoration project west of Highway 101 and north of Pioneer Trail.

The total estimated project cost for this project is \$630,000. The District proposes to pay for the estimated \$630,000 project cost through its ad valorem property tax levy authorized by Minnesota Statutes Section 103B.241 for the implementation of its water management plan with the exception of \$111,870 through a Clean Water, Land and Legacy Grant. Approximately 77% of this levy will be paid by properties in Hennepin County, and 23% paid by properties in Carver County.

All interested parties are invited to appear at the public hearing to offer comments and ask questions in order to advise the board of managers on whether to approve the proposed pilot projects. Further information is available by contacting the District Administrator, Claire Bleser, cbleser@rpbcwd.org, or 952-607-6512, or by visiting the District website: www.rpbcwd.org.

Dated: March 10, 2020

BY ORDER OF THE BOARD OF MANAGERS

David Ziegler, Secretary

MEETING MINUTES

Riley-Purgatory-Bluff Creek Watershed District

March 4, 2020, RPBCWD Board of Managers Monthly Meeting

PRESENT:

Managers:

Jill Crafton, Treasurer
Larry Koch
Dorothy Pedersen, Vice President
Dick Ward, President
David Ziegler, Secretary

Staff:

Amy Bakkum, MN Greencorps Member, RPBCWD
Claire Bleser, RPBCWD Administrator
Terry Jeffery, Watershed Planning Manager
B Lauer, Education and Outreach Assistant
Josh Maxwell, Water Resources Coordinator
Louis Smith, Attorney, Smith Partners
Scott Sobiech, Engineer, Barr Engineering Company

Other attendees:

Craig Hendrickson, Bearpath Golf and Country Club	Oona Myhre, St. Hubert
Elizabeth Henley, Smith Partners	Emily Meerdink, ISG
Emily Hillesheim	Steve Sabraski, Landform Professional Services
Bryan Maloney, LRIA	Rob Schlegel, St. Hubert Catholic School
Emily Meerdink, ISG	Dave Wallace, Eden Prairie Resident

1. Call to Order

- 1 President Ward called to order the Wednesday, March 4, 2020, Board of Managers Regular Monthly
- 2 Meeting at 7:00 p.m. at the District Office, 18681 Lake Drive East, Chanhassen, MN 55317.

2. Approval of Agenda

- 3 Manager Koch asked to pull off the Consent Agenda items 9a – Accept February Staff Report, 9b –
- 4 Accept February Engineer’s Report (with attached Inspection Report), 9c – Approve Task Order for
- 5 Design of St. Hubert Water Quality Project with funds being transferred from Lake Ann Wetland for
- 6 \$100,000, 9d – Approve Task Order for Lake Riley Alum 2nd Split Dose, 9f – Approve Task Order for
- 7 Upper Riley Creek Corridor Enhancement Plan, 9g – Approve Task Order for WOMP Station Assistance,
- 8 9h – Approve Change Order #2 for the Lower Riley Creek Restoration Project, 9l – Authorize President
- 9 Ward to sign and mail comments to MPCA in regard to Planned Amendments to Rules Governing Water
- 10 Quality Fees, and 9m – Approve Atlas 14 Updates with the City of Minnetonka.. Manager Koch asked to

11 remove agenda item 10l - - Investment of Funds, and he asked to lay over until the Board’s Governance
12 Workshop agenda items 10m – Journal of Votes, 10o – Permit Variance Resolution, 10p – Form of
13 Resolutions Approving Permit Application, 10q – Internal Calendar, 10r – Multi-Year Project Report, and
14 10s – Minnesota Data Practices Act Requests and Seminars.-

15 President Ward added agenda item 7b – Minutes of Special Board Meeting held August 19, 2019, and
16 item 7c – Report on Closed Morning Session to Deal with Personnel Matters on September 25, 2019, and
17 item 7d - Report on Closed Afternoon Session to Deal with Personnel Matters on September 25, 2019.
18 President Ward pulled item 10g – Adopt Resolution 2020-06 Accepting Transfer of 770 Pioneer Trail
19 from Chanhassen for Purpose of Wetland Restoration, 10h – Approve Release of Position Openings and
20 Transfer of Funds to Support Hire. President Ward added item 10u – Approval of Legal Time for Smith
21 and Partners to Inquire to the State of Minnesota regarding issue the Board discussion at its March 6,
22 2020, Governance Workshop.

23 President Koch moved to approve the agenda as amended. Manager Ziegler seconded the motion. Upon a
24 vote, the motion carried 5-0.

25

3. Feasibility: Middle Riley Creek

26 Administrator Bleser, displaying the PowerPoint presentation “Middle Riley Stabilization through Bear
27 Path,” reported on the Middle Riley Creek feasibility study. She noted this opportunity is arising earlier
28 than anticipated because there is a landowner willing to partner on the stabilization of middle Riley
29 Creek. Administrator Bleser described the proposed project and identified the project location and the
30 portions of the creek to be stabilized in the project.

31 Administrator Bleser described the conceptual design alternatives including:

- 32 • North site alternative 1 – stabilization of stream in place
- 33 • North site alternative 2 – re-meander stream
- 34 • South site alternative 1 - stabilization of stream in place
- 35 • South site alternative 2 - re-meander stream and slope stabilization

36 Administrator Bleser explained the recommended design approach is the north site alternative 2 (re-
37 meandering) and the south site alternative 2 (re-meander the stream and slope stabilization), which has an
38 estimated total project cost of \$286,000. She listed the projected project timeline:

- 39 • Public hearing and order project: April 2020,
- 40 • Enter into a cooperative agreement with Bear Path in spring/summer 2020,
- 41 • Design and permitting in spring/summer 2020
- 42 • Construction – fall/ early winter 2020
- 43 • Project completion: winter 2020

44

45 Manager Koch asked about the property ownership and the level of contributions from Bear Path.
46 Administrator Bleser said accessing the project site would require accessing private property. She said
47 Bear Path has been waiting to hear whether the District would move the project forward and the next step
48 is for the District to talk with Bear Path about the level and types of its contributions to the project.
49 Mr. Craig Hendrickson, Bear Path Golf Course Superintendent, remarked that he has been in discussions
50 with owner Jim Senske about this project. Mr. Hendrickson said he hasn't had specific conversations
51 about contributions, but he reported that Bear Path would love to be part of the project whether in terms
52 of labor, access to the golf course, and/or dollars. Administrator Bleser reiterated that the next step is to
53 talk with the owner about these details. Administrator Bleser and Engineer Sobiech responded to
54 questions about the alternatives presented and their costs and the reasons for doing this project. Engineer
55 Sobiech remarked that this project is documented in the District's 10-Year Plan as scoring a 27. He
56 explained that the score of 27 was prior to there being a willing property owner/ project partner interested
57 in contributing in-kind services and potential funds. He explained that the score is now 33 due to there
58 being a willing property owner/ project partner.
59 President Ward said he'd like to review the feasibility study and have this item on the agenda at the
60 Board's April meeting. He said that by the April Board meeting the District will have information from
61 Bear Path's owner about exactly what type of contribution Bear Path will provide.

4. Feasibility: Wetland at 101

62 Mr. Jeffery noted this agenda item is for information only. Displaying a PowerPoint, he pointed out the
63 project location and the drainage area. He presented two concept plans, Concept Plan A and Concept Plan
64 B, for the grading/ habitat restoration and two options, Option 1 and Option 2, for the outlet. Mr. Jeffery
65 reported staff recommends Concept Plan A with outlet Option 2 because it provides the lowest cost per
66 pound of total phosphorous (TP) and total suspended solids (TSS) removed with the least site disturbance
67 and the most downstream benefit in terms of rate control and TP and TSS removal.
68 Mr. Jeffery noted that construction is anticipated for fall of 2020 and the grant expires in the end of 2021.
69 He explained costs are coming in higher than what was anticipated in the feasibility report, so staff is
70 looking at the project to see if there are ways to reduce the costs and staff will look for additional grant
71 opportunities. He said staff would like to bring this back in front of the Board at its April meeting for
72 discussion about staff's findings about cost-savings opportunities. There was a brief discussion about the
73 funds for the project, the numbers listed in the Treasurer's Report, clarification about the correct fund
74 numbers as well as the DNR grant funds in the amount of \$295,950 for the project and Clean Water Land
75 and Legacy grant funds in the amount of \$111,870. Administrator Bleser pointed out the City of
76 Chanhassen hasn't formalized funding toward this project, so the Treasurer's Report doesn't include City
77 funds for the project. She said staff will bring this information back to the Board at its April meeting.

5. Feasibility: Outdoor Center Capture and Reuse Demonstration

78 Administrator Bleser introduced Emily Meerdink of ISG, the consultant for this feasibility study.
79 Administrator Bleser presented on the feasibility study for water harvest and reuse facility at the Staring
80 Lake Outdoor Center. She explained the Staring Lake Outdoor Center representatives approached the
81 District about capturing water and reusing it, which is a groundwater conservation project. Administrator

82 Bleser talked about the Outdoor Center and its activities and events. She presented the two project
83 alternatives:

84 • Alternative 1 focusing on the Animal Junction House and having an estimated project cost of
85 \$24,063.00

86 • Alternative 2 including the Animal Junction House and the Outdoor Center having an estimated
87 project cost of \$60,747.75.

88 Administrator Bleser said the City of Eden Prairie has a big sustainability initiative and is looking at how
89 to make the Outdoor Center more sustainable. She noted the City is interested in Alternative 2.

90 Administrator Bleser provided other recommendations that came out of the feasibility study, such as
91 installing high-efficiency toilets and trimming trees that overhang the structure. She reminded the Board
92 that this project has been identified as a possible opportunity project, and tonight this item is for
93 discussion only. Administrator Bleser reported that staff is still in discussion with the City of Eden
94 Prairie. Administrator Bleser responded to questions.

95 Manager Petersen stated she would like to know the potential reach of this project in terms of the number
96 of people who come through the Staring Lake Outdoor Center in a year, so the Board can learn the
97 potential impact of this project.. Administrator Bleser said she would bring this information to the Board
98 at its next monthly meeting.

6. Matters of General Public Interest

99 No matters were raised.

7. Reading and Approval of Minutes

100 a. Board of Managers Meeting, February 5, 2020

101 Manager Ziegler noted a correction for line 155 to delete an extra “the.” Manager Pedersen said
102 punctuation should be added to line 197 so the sentence ends with a period. She also had a
103 correction to line 230, so the sentence would read, “Manager Crafton moved a letter based on the
104 District’s proposed resolution be drafted by staff and submitted...” Manager Pedersen had a
105 comment about lines 252 and 253, and Attorney Smith clarified the sentence should read “...for
106 purposes of performance evaluation.”

107 Manager Crafton replaced the word “for” with the word “to” on line 112.

108 Manager Ziegler moved to approve the minutes as amended. Manager Pedersen seconded the
109 motion. Attorney Smith noted Legal Counsel had some edits:

110 Attorney Smith pointed out that lines 162 and 163 are duplicated in lines 167 and 168, so lines
111 162 and 163 can be deleted. Attorney Smith said that on lines 199 and 200, the sentence should
112 read, “Attorney Welch noted that there needed to be a cooperative agreement with St. Hubert, and
113 the agreement would include authorization for work and long-term maintenance of the project,
114 including full reimbursement of the District’s costs per some pro-rated schedule, and there was
115 discussion by the managers about the need to secure the District’s interests. Attorney Smith noted

116 that on line 241, language should be added, so the sentence reads, “address the letter and directed
117 staff to prepare a letter for Board approval.”

118 Manager Ziegler moved to amend his motion to include Attorney Smith’s comments. Manager
119 Koch seconded the motion to amend. Upon a vote, the motion to amend carried 5-0. President
120 Ward called the question on the amended motion to approve the minutes as amended. Upon a
121 vote, the motion carried 5-0.

122 **b. Board of Managers Special Meeting, August 19, 2019**

123 Manager Petersen said lines 42 and 43 should be deleted from the minutes because the vote is
124 captured on line 50. She said that on line 52, the word “net” should be added so the sentence
125 reads, “no net carcinogens.” Manager Pedersen moved to approve the minutes of the August 19,
126 2019, Board of Managers Special Meeting as revised. Manager Ziegler seconded the motion.
127 Upon a vote, the motion carried 5-0.

8. CAC

128 Mr. Matt Lindon, CAC member, reported on the CAC’s most recent meeting and summarized the
129 Committee’s meeting minutes. He shared that at the CAC meeting, Administrator Bleser presented an
130 education presentation on chlorides. Mr. Lindon said the CAC spent the last part of its meeting discussing
131 subcommittees and their 2019 activities and 2020 work plans. Manager Pedersen thanked Mr. Lindon for
132 the years of service he has put into the CAC. President Ward asked Administrator Bleser to distribute the
133 CAC meeting minutes to the Board.

9. Consent Agenda

134 Manager Ziegler moved to approve the Consent Agenda as revised. Manager Pedersen seconded the
135 motion. Upon a vote, the motion carried 5-0. The items on the Consent Agenda included: 9e – Approve
136 Task Order for Kerber Pond Ravine Feasibility; 9i – Approve Permit 2018-016: Avienda permit
137 modification request as presented in the proposed Board action of the permit review report; 9j – Approve
138 Pay App #4 Bluff Creek Southwest Branch Stabilization and Restoration; 9k – Approve Pay App #2
139 Riley Creek Branch Stabilization.

10. Action Items

140 **a. Pulled Consent Items**

141 **i. Accept February Staff Report**

142 Manager Ziegler moved to accept the staff report. Manager Crafton seconded the motion.
143 Manager Koch had a question from the report’s page one, regarding MAWD Legislative
144 Days, and he asked about the status of the District’s talking points for the managers and
145 designated CAC members attending the event. President Ward replied that staff
146 distributed that information yesterday. Administrator Bleser clarified which managers
147 plan to attend the event. Manager Koch raised the topic in addressed in the report
148 regarding the probable permit violation and said his concern is that lakeshore owners
149 aren’t aware of the District’s requirements. Manager Koch asked Administrator Bleser
150 whether the AIS recommendation in the report would be coming in front of the Board for

151 discussion. Administrator Bleser provided an update on AIS funding discussions with the
 152 cities. Manager Koch spoke in favor of the District increasing its level of AIS funding.
 153 Manger Koch asked if there would be a discussion of the results of Wenck's core
 154 sampling for the alum treatment. Administrator Bleser responded. She noted that the
 155 reference in the report should be to Lake Riley, not Hyland Lake. Manager Koch asked
 156 for more details about the plan for vegetation management. Administrator Bleser
 157 provided an update, including the status of the report the District is submitting to the
 158 DNR and the upcoming expiration of the District's vegetation management plans, which
 159 are tied to the District's herbicide treatments. She summarized the conversations staff has
 160 been having with its partners and next steps. Manager Koch stated he is concerned about
 161 boat activities' effect on plant populations. Upon a vote, the motion carried 5-0.

162 **ii. Accept February Engineer's Report (with Attached Inspection Report)**

163 Manager Ziegler moved to accept the Engineer's Report. Manager Pedersen seconded the
 164 motion. Manager Koch commented he thought an outcome from the Board's discussion
 165 last month was staff would add language to the permit fee structure policy, and he asked
 166 for a status report. Mr. Jeffery reported that Attorney Welch has been working on it and
 167 has recently submitted a draft copy for staff's review. Manager Koch asked about the
 168 costs the District is incurring for tearing up and re-doing the spent-lime system. Engineer
 169 Sobiech said he doesn't have the information in front of him, but he thinks it is
 170 approximately \$30,000. Manager Koch clarified that the \$30,000 is in addition to the
 171 original cost. Engineer Sobiech responded yes. Manager Koch asked a question about the
 172 field inspections and what's the District's plan for dealing with the open corrective
 173 actions. Mr. Jeffery responded with details about the plan. Upon a vote, the motion
 174 carried 5-0.

175 **iii. Approve Task Order for Design of St. Hubert Water Quality Project with Funds Being**
 176 **Transferred from Lake Ann Wetland for \$100,000**

177 Manager Ziegler moved to approve the Task Order for the design of St. Hubert Water
 178 Quality Project with funds in the amount of \$100,000 being transferred from Lake Ann
 179 Wetland. Manager Pedersen seconded the motion. Manager Koch asked what the task
 180 order involves. Administrator Bleser said the task order is for project design, and she
 181 displayed the PowerPoint previously presented to the Board regarding the project.
 182 Manager Koch asked if this task order is to pay consultants approximately \$71,000 to
 183 manage the project. Manager Bleser responded the task order is to design the project and
 184 do the project management during installation. She talked about the different types of
 185 design happening in the project, which is why design costs may seem higher than the
 186 Board has seen with other projects. Manager Koch asked pointed questions about the
 187 playground and the District's costs regarding the playground. Administrator Bleser
 188 provided specifics about the District's work regarding the playground. Manager Koch
 189 asked for clarification about total project costs and construction costs. Administrator
 190 Bleser responded, reminding him this project is a two-year project. She said the District
 191 has been awarded \$75,000 in grant funds from the Metropolitan Council and receipt of
 192 the funds is pending the District ordering the project. Administrator Bleser added that St.
 193 Hubert will contribute financially, and the Carver County Soil and Water Conservation

194 District will contribute funds toward design costs. Manager Koch cited a letter from St.
195 Hubert and talked about St. Hubert’s contribution, the language of the letter, and the
196 structure of the contribution. He asked about project maintenance and past agreements
197 the District has had regarding maintenance such as for the Scenic Heights School Forest
198 project. Administrator Bleser talked about the details of the maintenance agreement for
199 the Scenic Heights School Forest project. Upon a vote, the motion carried 5-0.

200 **iv. Approve Task Order for Lake Riley Alum 2nd Split Dose**

201 Manager Ziegler moved to approve Task Order for the Lake Riley Alum second split
202 dose. Manager Pedersen seconded the motion. Administrator Bleser reported the soil
203 cores samples were taken and will be analyzed to determine dosage. She said this task
204 order is for work assembling the information and determining the dosage and the zones of
205 application and estimating costs, then determining whether to go out for quotes or bid.
206 Administrator Bleser said the goal is to do the project in early spring. Administrator
207 Bleser explained the second dose was approved by the District Board five years ago and
208 the cost of the dosing is approximately \$11,200. Manager Koch asked if Legal Counsel
209 has reviewed the District’s agreement with Wenck & Associates. Attorney Smith said
210 Wenck is part of the services pool approved by the District, and there is a standard
211 services agreement that will be executed, and this task order will be the scope of services.
212 He noted the Board’s approval of this task order would authorize Legal Counsel to clean
213 up any details in the agreement as needed. Manager Koch recommended the Task Order
214 number be added to the task order and that Administrator Bleser and Attorney Smith
215 work out the details with the agreement with Wenck. Administrator Bleser noted that the
216 task order numbers correlate with Barr’s numbering system, so for this task order being
217 fulfilled by Wenck, the task order is identified as “Lake Riley Alum” in lieu of a number.
218 Upon a vote, the motion carried 5-0.

219 **v. Approve Task Order for Upper Riley Creek Corridor Enhancement Plan**

220 Manager Ziegler moved to approve Task Order 32A for the Upper Riley Creek Corridor
221 Enhancement Plan. Manager Pedersen seconded the motion. Manager Koch asked staff to
222 summarize the project and task order. Administrator Bleser stated that this task order is
223 the basis of an understanding between the City of Chanhassen and the District on roles
224 and responsibilities for when the City and District do the corridor enhancement, in this
225 case the stabilization and restoration Upper Riley Creek. She described the document as a
226 living document and provided details about what information will be included. She
227 explained that this task order is to initiate this document. Manager Koch asked if the
228 creek stabilization and restoration would provide opportunity for the District to do some
229 aerial photos. Engineer Sobiech said this area would be far enough away from the airport
230 to do aerial photos, but such work isn’t included in the scope of work at this point. He
231 said it could be added if the Board orders it. Manager Koch said he would like this topic
232 to come up for Board discussion when appropriate because he would find aerial photos
233 helpful and hopefully the public would like to see them, too. Upon a vote, the motion
234 carried 5-0.

235 **vi. Approve Task Order for WOMP Station Assistance**

236 Manager Ziegler moved to approve the Task Order to WOMP station assistance.

237 Manager Pedersen seconded the motion. Manager Koch asked for more information
238 regarding what the District is responsible for with WOMP stations and who pays what.
239 Engineer Sobiech explained the WOMP station at Pioneer Trail is the Metropolitan
240 Council's responsibility and the Valley View station is run by this District and the costs
241 for running the Valley View station are the District's responsibility. Upon a vote, the
242 motion carried 5-0.

243 **vii. Approve Change Order #2 for the Lower Riley Creek Restoration Project**

244 Manager Ziegler moved to approve Change Order #2 for the Lower Riley Creek
245 Restoration Project. Manager Pedersen seconded the motion. Manager Koch said he
246 always has a concern with change orders. He asked what the District's contract provides
247 and asked if the contractor is entitled to this change. Engineer Sobiech responded that his
248 understanding of the contract is there are provisions for the contractor to ask for changes
249 if there are changed conditions discovered in the field. He talked about what the
250 contractor discovered regarding the condition of the creek bottom, which had turned into
251 a consistency similar to quick sand. Engineer Sobiech provided additional details and
252 said in his opinion this is a changed condition. He noted that this change order is
253 primarily related to the changed conditions. Manager Koch asked further questions about
254 what was done to determine conditions prior to the contract, and Engineer Sobiech
255 answered the questions. Manager Koch remarked that the District has other reaches of the
256 creek to work on, and he would like staff to consider what the District could do to prevent
257 change orders like this in the future. Upon a vote, the motion carried 5-0.

258 **viii. Authorize President Ward to Sign and Mail Comments to MPCA in Regard to**
259 **Planned Amendments to Rules Governing Water Quality Fees**

260 Manager Ziegler moved to authorize President Ward to sign and mail comments to the
261 Minnesota Pollution Control Agency (MPCA) in regard to planned amendments to rules
262 governing water quality fees. Manager Crafton seconded the motion. Manager Koch
263 asked for more background regarding where the rules came from and what is being
264 proposed. Administrator Bleser talked through the elements of the issue. Attorney Smith
265 summarized that the letter communicates that the District is in support of the idea that the
266 MPCA would have a program fee structure and charge for the training such as the smart
267 salting training, and the District's support is conditional upon passage of legislation that
268 would provide liability protection on those who go through the training. He said this
269 communication is consistent with the discussion the Board had at its February monthly
270 meeting. Manager Crafton provided more background regarding her suggestion raised at
271 last month's Board meeting that the District submit comments in support of the MPCA
272 being able to charge a fee. Upon a vote, the motion carried 5-0.

273 **i. Approve Atlas 14 Updates with the City of Minnetonka**

274 Manager Ziegler moved to approve the Atlas 14 model updates with the City of
275 Minnetonka. Manager Koch asked if the District is paying for this update or if any other
276 party is contributing. Administrator Bleser provided background and responded that the
277 District has a unique opportunity in that the City of Minnetonka is updating its model and
278 is willing to put it into the same model as the District's current model. She said the
279 District would provide the additional \$15,000 to cover the segments of Purgatory Creek

280 in Shorewood and Deephaven that drain into Minnetonka and this would be in the same
 281 model format as the District’s EPA SWMM model. There was further discussion about
 282 different types of models. Manager Koch mentioned information he saw about tools that
 283 use wavelengths to delineate wetlands and suggested staff think about utilizing such
 284 tools. He asked if the District would have a Cooperative Agreement with the City of
 285 Minnetonka and the other cities to make sure the District can own the data or use the
 286 data. Administrator Bleser referenced the agreement in place for use of the current model.
 287 She said the District’s Legal Counsel can look into the agreement. Upon a vote, the
 288 motion carried 5-0.
 289

290 **b. Accept January Treasurer’s Report**

291 Manager Crafton moved to accept the January Treasurer’s Report. Manager Ziegler seconded the
 292 motion. Upon a vote, the motion carried 5-0.
 293

294 **c. Approve Paying of Bills**

295 Manager Crafton moved to pay the bills. Manager Ziegler seconded the motion. Upon a vote, the
 296 motion carried 5-0.
 297

298 **d. Order Silver Lake Project (Resolution 2020-03)**

299 Manager Ziegler moved to adopt Resolution 2020-03 to order Silver Lake Water Phosphorous
 300 Control Project. Manager Pedersen seconded the motion. By call of roll, the motion carried 5-0.

<i>Manager</i>	<i>Aye</i>	<i>Nay</i>	<i>Absent</i>	<i>Abstain</i>
Crafton	X			
Koch	X			
Pedersen	X			
Ward	X			
Ziegler	X			

301

302 **i. Approve Task Order for Silver Lake BMP Design**

303 Manager Ziegler moved to approve the task order 24B Silver Lake BMP Design.
 304 Manager Pedersen seconded the motion. Upon a vote, the motion carried 5-0.

305 **e. Adopt Resolution 2020-04 MPCA EA Grant Program for Community Resiliency Modeling**
 306 **and At-risk Prioritization of Purgatory Creek Watershed**

307 Manager Ziegler moved to adopt Resolution 2020-04 MPCA EA Grant Program for Community

308 Resiliency Modeling and At-risk Prioritization of Purgatory Creek Watershed. Manager Pedersen
 309 seconded the motion. By call of roll, the motion carried 5-0.

<i>Manager</i>	<i>Aye</i>	<i>Nay</i>	<i>Absent</i>	<i>Abstain</i>
Crafton	X			
Koch	X			
Pedersen	X			
Ward	X			
Ziegler	X			

310
 311 **f. Adopt Resolution 2020-05 MPCA Green Corps Program**
 312 Manager Ziegler moved to adopt Resolution 2020-05 MPCA Green Corps Program to host the
 313 MN Green Corps program during the 2020-2021 program year. Manager Crafton seconded the
 314 motion. By call of roll, the motion carried 5-0.

<i>Manager</i>	<i>Aye</i>	<i>Nay</i>	<i>Absent</i>	<i>Abstain</i>
Crafton	X			
Koch	X			
Pedersen	X			
Ward	X			
Ziegler	X			

315
 316 **g. PID #25 0360010 (No Physical Address), City of Chanhassen, Highway 101 Right of Way,**
 317 **City Request for Parcel Exchange (Resolution 2020-07)**
 318 Attorney Smith noted the managers have discussed this transaction at previous Board meetings
 319 and understand the nature of this transaction. He reported everything is now in place, and he
 320 described details covered and summarized due diligence. Attorney Smith said this is all in order,
 321 and the District’s concerns have been addressed. Manager Ziegler moved to adopt Resolution
 322 2020-07 City Request for Partial Exchange for Highway 101 Right of Way. Manager Pedersen
 323 seconded the motion. Manager Koch went through details about the temporary construction
 324 easement, item 9, which references a plan, and he recommended Legal Counsel add language that

325 the plan has to be approved by the District. Mr. Jeffery responded that the plan has been approved
 326 by the District. Manager Koch recommended adding a reference to that plan and the District’s
 327 approval. He commented about the exchange agreement and noted title insurance is referenced.
 328 He asked if cities typically get title insurance with quit claim deeds. Attorney Smith said he the
 329 District is working with real estate counsel who will have a final review of this and can address
 330 the issue Manager Koch has raised regarding title insurance.

331 Manager Koch moved to amend the motion on the table to authorize Legal Counsel to finalize the
 332 temporary easements and the exchange agreement to take into account the restoration plan and to
 333 deal with whether title insurance is being provided and who is going to pay for title insurance.
 334 Manager Ziegler seconded the motion to amend. Upon a vote, the motion to amend carried 5-0.
 335 President Ward called the vote on the amended motion. By call of roll, the motion carried 5-0.

<i>Manager</i>	<i>Aye</i>	<i>Nay</i>	<i>Absent</i>	<i>Abstain</i>
Crafton	X			
Koch	X			
Pedersen	X			
Ward	X			
Ziegler	X			

336

337 **h. IT/IT Consultant (LK)**

338 President Ward said the Board discussed this IT/IT consultant topic at its December Board
 339 meeting and directed the Administrator to explore options regarding identifying IT consultants
 340 who could review the District’s IT situation. President Ward provided a status update and said
 341 staff hopes to have more information for the Board at its April meeting. The Board agreed to lay
 342 this item over until the Board’s April meeting.

343 **i. Credit Cards (LK)**

344 Manager Koch said that in the accountant’s report, the credit card transactions are being recorded
 345 as Visa. He said his understanding is that level of detail is not a generally accepted accounting
 346 principle. Manager Koch said the correct method is to document the entries by vendor. Manager
 347 Koch moved for the Administrator to look into the use of purchasing cards by the District and to
 348 prepare and provide the Board with a report of the Administrator’s findings. The motion died due
 349 to lack of second.

350 **j. Shoreline and Erosion (LK)**

351 Manager Koch moved to adopt the resolution he presented directing the District Administrator to
 352 look into coming up with a plan to measure the shoreline erosion and also the impacts on the lake
 353 bottom of wake boats. The motion died due to lack of a second.

354 **k. Permit Variance Resolution (LK)**

355 The Board approved laying this item over until the Board’s Governance Workshop.

356 **l. Form of Resolutions Approving Permit Applications (LK)**

357 The Board approved laying this item over until the Board’s Governance Workshop.

358 **m. Internal Calendar (LK)**

359 The Board approved laying this item over until the Board’s Governance Workshop.

360 **n. Multi-year Project Report (LK)**

361 The Board approved laying this item over until the Board’s Governance Workshop.

362 **o. Minnesota Data Practices Act Requests and Seminars (LK)**

363 The Board approved laying this item over until the Board’s Governance Workshop.

364 **p. Update on 2020 Budget (LK)**

365 Manager Koch handed out a document he created “Fund Performance Analysis – Table 1:
366 2/25/20. He said he had asked for and received from Administrator Bleser the 2019 budget final
367 and the adopted 2020 budget, and this information is shown in his table. He explained the
368 columns he inserted and information he entered into the table. Manager Koch went through the
369 table and asked staff questions, including questions about overages, underages, grant income,
370 2019 expenditures for Accounting and Audit and the 2020 budget for the same line item. He
371 asked if the Board and staff should consider adjusting the 2020 budget for manager per diem,
372 which is budgeted for 2020 at \$20,000 but the 2019 manager per diem expenditures were
373 \$23,365.50. Administrator Bleser said the Board could consider adjusting that amount based on
374 the cost of the managers’ 2019 per diems claimed. Manager Koch said the managers exceeded its
375 2019 per diem budget and so should consider increasing its per diem budget for 2020. He talked
376 about the 2019 permit review and inspection total expenditures and asked if the amount budgeted
377 for 2020 is a good amount. Manger Koch asked about the 2019 expenditures for the 10-year
378 Management Plan versus the 2020 budget for that line item and raised the same question for Data
379 Collection and Monitoring. He asked about reserves and asked for information about what is
380 included in the reserves. Manager Koch provided suggestions on what he would like to see in the
381 budget. Manager Koch also handed out a copy of the District’s December 31, 2019, “Multi-Year
382 Project Performance Analysis – Table 2” and said he is having a hard time distinguishing what
383 are the District’s remaining obligations aside from partner funds. He said he would like staff to
384 figure out a way to show in the table the District’s future obligations. Administrator Bleser
385 provided detailed responses to Manager Koch’s questions.

386 **q. Authorize Legal Counsel to Contact the State of Minnesota Regarding the Journal of Votes**

387 Manager Ziegler moved to authorize Legal Counsel to send a letter to the state for an answer on
388 whether the District is required to have journal for votes. Manager Koch seconded the motion.
389 Upon a vote, the motion carried 5-0.

390

11. Discussion Items

391 a. Manager Report

392 i. Personnel Committee

393 Manager Pedersen reported on the closed session held February 5, 2020. She
394 stated the Board moved into closed session on February 5 to discuss the
395 executive development for the District Administrator.

396 ii. Governance Committee

397 President Ward reported the Committee met Monday, March 2 to work on
398 revisions to the Governance Manual and will reconvene at 9:00 a.m. on March 24
399 and the meeting will be noticed.

400 iii. Other Matters

401 Manager Crafton reported she attended the pesticide committee hearing and read
402 the District's resolution into the public record.
403

12. Upcoming Board Topics

404 President Ward noted upcoming Board topics, including ordering the Middle Riley project public hearing,
405 ordering the Wetland at 101 project public hearing, and the next Governance Workshop. Manager Koch
406 moved to order the public hearings for May for the Middle Riley and Wetland at 101 projects and to
407 authorize staff to public notice the special meeting of the Board of Managers for a governance workshop
408 to be held on May 24 and to public notice the public hearings. Manager Ziegler seconded the motion.
409 Upon a vote, the motion carried 5-0.
410

13. Upcoming Events

- 411
- 412 • MPCA Smart Salting for Property Managers Training, March 12, 2020, 9:00 a.m., District Office,
413 18681 Lake Drive East, Chanhassen
 - 414 • Citizen Advisory Committee Meeting, March 16, 2020, 6:00 p.m., District Office, 18681 Lake
415 Drive East, Chanhassen
 - 416 • Board of Managers Meeting, April 1, 2020, 7:00 p.m., District Office, 18681 Lake Drive East,
417 Chanhassen
- 418

14. Adjournment

419 Manager Pedersen moved to adjourn the meeting. Manager Ziegler seconded the motion. Upon a
420 vote, the motion carried 5-0. The meeting adjourned at 9:33 p.m.

421

422

423

424

Respectfully submitted,

425

426

427

David Ziegler, Secretary

MEETING MINUTES
Riley-Purgatory-Bluff Creek Watershed District
March 2, 2020
Board of Managers Workshop

PRESENT:

Managers: Jill Crafton, Treasurer
Larry Koch
Dorothy Pedersen, Vice President
Dick Ward, President
David Ziegler, Secretary

Staff: Claire Bleser, Administrator
Louis Smith, Attorney, Smith Partners

1. Call to Order

President Ward called the meeting to order at 9:00 a.m. He noted that the sole item of business on the agenda is the review and discussion of proposed changes to the District's Governance Manual.

2. Review and Discuss Proposed Governance Manual Changes

Mr. Smith noted the work by staff and counsel with the Governance Committee to develop proposed revisions to the Governance Manual. He also noted additional suggested changes prepared by Manager Koch. Mr. Smith presented, and the Board of Managers discussed the proposed revisions to the following policies in the Governance Manual:

- Introduction
- General Governance Policies
- Bylaws
- Policies and Procedures for Public Access to Documents
- Records Retention Schedule
- Policy for Management of Permit Fees, Financial Assurances and Abandoned Property
- Public Purposes Expenditures Policy (in part)

President Ward noted at 11:00 a.m. that the Board of Managers had discussed the majority of the policies and proposed revisions and suggested that the Board of Managers stop and return to the discussion of the Public Purposes Expenditures Policy, beginning with item 2. Employee and manager training, at a future date. The Board of Managers initially set Monday, March 23 at 9:00 a.m. as the date to continue this meeting (but later rescheduled and separately noticed the meeting for March 24 at 9:00 a.m.). Mr. Smith noted that he would incorporate this meeting's discussion, along with the discussion of the remaining policies, into a finalized draft for formal consideration of the Board of Managers.

3. Adjournment

There being no further business, the meeting of the Board of Managers was adjourned at 11:05 a.m.

Respectfully submitted,

David Ziegler, Secretary

MEETING MINUTES
Riley-Purgatory-Bluff Creek Watershed District
March 24, 2020
Board of Managers Workshop

PRESENT:

Managers: Jill Crafton, Treasurer
Larry Koch
Dorothy Pedersen, Vice President
Dick Ward, President
David Ziegler, Secretary

Staff: Claire Bleser, Administrator
Louis Smith, Attorney, Smith Partners

1. Call to Order and Approval of Agenda

President Ward called the meeting to order at 9:00 a.m. He noted that he had previously determined that an in-person meeting is not practical or prudent because of the COVID-19 health pandemic, and so the meeting had been noticed for participation by Zoom to meet the telephonic requirements of Section 13D.021 of the Open Meeting Law.

It was moved by Manager Crafton, seconded by Manager Pedersen, to adopt the meeting agenda as distributed. Upon roll call, the Board of Managers voted as follows:

Crafton	Aye
Koch	Aye
Pedersen	Aye
Ziegler	Aye
Ward	Aye

The President declared that the motion carried, 5-0.

2. Review and Discuss Proposed Governance Manual Changes

Mr. Smith referred to the proposed revisions to the Governance Manual, and the additional suggested changes prepared by Manager Koch. Mr. Smith presented, and the Board of Managers discussed the proposed revisions to the following policies in the Governance Manual:

- Public Purposes Expenditures Policy (in part; beginning with item 2. Employee and manager training)
- Fund Balance Policy
- Internal Controls and Procedures for Financial Management
- Policy on Permit Fee Reimbursement
- Appendix A: Inventory of Not-Public Data on Individuals

Mr. Smith noted that he would incorporate this meeting's discussion, along with the previous workshop discussion into a finalized draft for formal consideration of the Board of Managers.

3. Permit Variance Resolution

Manager Koch suggested that the District develop a template for resolutions approving variances. Mr. Smith noted that a standard template could facilitate efficient preparation by staff and counsel, and also assist in focusing the Board's efficient review of variance requests. Mr. Smith stressed that each variance should be considered on a case by case basis and reflect consideration of the necessary findings; he did not recommend acting on variance requests through the Consent Agenda. The Board of Managers affirmed the value of such a resolution template and directed counsel and staff to prepare such a document.

4. Form of Resolutions Approving Permit Applications

Manager Koch suggested a similar template for resolutions approving permit applications, and the Board of Managers concurred and directed counsel and staff to prepare such a document.

5. Internal Calendar

The Board of Managers discussed the Schedule of Regular Activities in the Governance Manual, and the additional value of an internal calendar that would facilitate tracking of regular activities and requirements. The Board directed the administrator and counsel to prepare such a document.

6. Minnesota Data Practices Act Requests and Seminars

Manager Koch noted the value of tracking data requests and responses. He also noted the value of seminars and webinars offered by the Minnesota Department of Administration Data Practices Office.

7. RPBCWD – COVID-19 Update

Dr. Bleser reviewed the status of all District changes in operations to respond to the COVID-19 pandemic. All staff are working remotely, and all programs are continuing to function, although some programs are making necessary adjustments. Staff will continue to make adjustments as needed and in response to any 'shelter in place' order. The Board of Managers discussed whether to adjust the time of the upcoming meeting on April 1 and determined to leave the time unchanged.

8. Adjournment

There being no further business, it was moved by Manager Crafton, seconded by Manager Pedersen, that the meeting of the Board of Managers be adjourned at 11:10 a.m. Upon roll call, the managers voted as follows:

Crafton	Aye
Koch	Aye
Pedersen	Aye
Ziegler	Aye
Ward	Aye

The President declared that the motion carried, 5-0, and the meeting was adjourned.

Respectfully submitted,

David Ziegler, Secretary

RPBCWD March Staff Report

Administration		Staff update	Partners
Accounting and Audit	Coordinate with Accountant for the development of financial reports. Coordinate with the Auditor. Continue to work with the Treasurer to maximize on fund investments.	Administrator Bleser worked with the Auditors in March - Presentation scheduled for the May meeting.	
Annual Report	Compile, finalize and submit an annual report to agencies	Draft Annual report is included in your packet.	
Internal Policies	Work with Governance Manual and Personnel Committees to review bylaws and manuals as necessary		
Advisory Committees	Engage with the Technical Advisory Committee on water conservation, chloride management and emerging topics Engage with the Citizen Advisory Committee on water conservation, annual budget and emerging topics. Facilitate recruitment of CAC members for 2019.	The CAC met for their regular meeting on March 16th via Zoom video conference. Draft minutes are included in the Board Packet. Administrator Bleser gave a presentation about the process that the district used to implement projects that may or may not be in the 10- year plan. Staff provided updates regarding a number of programs and projects, including Duck Lake, St. Hubert's, alum treatment for Lake Riley, Middle Riley Creek restoration, wetland restoration at Pioneer Trail, Staring Lake Outdoor Center Capture and reuse, a public education series, the Groundwater Conservation Program, and the Watershed Stewardship Grant program.	
MAWD		Canceled: Legislative Days are March 18-19, 2020	
Membership		No new updates.	
District-Wide			

<p>Regulatory Program</p>	<p>Review regulatory program to maximize efficiency. Engage Technical Advisory Committee and Citizen Advisory Committee on possible rule changes. Implement regulatory program.</p>	<p>One (1) permit application has been received since the February meeting.</p> <p>In addition to the new application, five (5) other permit applications are currently under review; the extension of a trail along TH 5, three single family residences, and a parking lot modification at a property in Chanhassen.</p> <p>A Notice of Probable Violation (NOPV) was issued for a shoreline stabilization project on Lotus Lake where riprap was being placed without a permit. The contractor has responded to the NOPV but no meeting has occurred yet.</p> <p>Staff Jeffery, Engineer Sobiech, has provided Houston Engineering (HEI) with much of the information they will need to begin constructing and populating the database.</p>	
<p>Aquatic Invasive Species</p>	<p>Review AIS monitoring program Develop and implement Rapid Response Plan as appropriate Coordinate with LGUs and keep stakeholders aware of AIS management activities. Manage and maintain the aeration system on Rice Marsh Lake as per the Riley Chain of Lakes Carp Management Plan. Review AIS inspection program. Keep abreast in technology and research in AIS. 2019 zebra mussel veliger testing.</p>	<p>Administrator Bleser discussed with Carver County AIS inspections and match for 2020. Administrator Bleser also met with the the LLCA to discuss AIS inspections for 2020.</p>	<p>City of Chanhassen City of Eden Prairie University of Minnesota MN DNR Carver County</p>
<p>Cost-Share</p>	<p>Review program to determine efficiencies and needs. Recommend modification as necessary.</p>	<p>The District has received 22 requests for a site visit in the months of February and March. Staff Lauer has followed up with each request and will</p>	<p>Carver County Soil and Water</p>

	Review applications and recommend implementation.	<p>begin scheduling site visits when the weather and soil conditions are more favorable for proper assessment.</p> <p>The District has received three applications for Watershed Stewardship Grants: One residential, one HOA, and one municipality.</p> <p>The Watershed Stewardship Grant review committee welcomed a new member this month. Heidi Groven, a new CAC member, will be joining us for the foreseeable future.</p> <p>The Watershed Stewardship Grant Committee met virtually on 3/19 to review new grant assessment worksheets and the residential and HOA applications. Neither applicant had submitted sufficient materials for proper grading and as such were returned to the applicant for further work.</p>	Conservation District
Data Collection	<p>Continue Data Collection at permanent sites.</p> <p>Identify monitoring sites to assess future project sites.</p>	<p>WOMP stations: Continued bi-weekly sampling of the station.</p> <p>Water Resources Report complete.</p> <p>Rice Marsh aeration - placed thin ice signs in front of access due to unsafe ice conditions.</p> <p>Staff began prepping the field equipment for the 2020 season.</p> <p>Lake level sensors are assembled and ready to deploy.</p> <p>Organized warehouse and vehicles in preparation for 2020 field season.</p> <p>EnviroDIY units will be updated this month to be “future-proof.” Staff have made modifications to the pond units for more accurate and precise readings. Staff will meet with</p>	<p>Metropolitan Council</p> <p>City of Eden Prairie</p> <p>University of MN</p> <p>City of Chanhassen</p> <p>MNDNR</p> <p>City of Minnetonka</p>

		<p>Limnotech this month to finalize units before deployment.</p> <p>Staff Maxwell and Dickhausen attended the first Metro Carp Management Group meeting early this month. All local government units and non-profit organizations dealing directly with carp management in Minnesota were welcomed to attend. At the first initial meeting of the group the many challenges of carp management were discussed along with the sharing strategies and resources. Most common issues facing attendees were the challenges of working with commercial fisherman, maintaining fish barriers, and fish disposal. The group will meet 2-4 times a year and have general topics and possibly presenters.</p>	
District Hydrology and Hydraulics Model	<p>Coordinate maintenance of Hydrology and Hydraulics Model.</p> <p>Coordinate model update with LGUs if additional information is collected.</p> <p>Partner and implement with the City of Bloomington on Flood Evaluation and Water Quality Feasibility.</p>	<p>The District applied for a grant to perform more detailed modeling in Upper Purgatory Creek. The cities of Eden Prairie, Deephaven and Shorewood submitted letters of support as part of the grant.</p>	<p>City of Bloomington City of Minnetonka City of Eden Prairie City of Deephaven City of Shorewood.</p>
Education and Outreach	<p>Implement Education & Outreach Plan, review at year end.</p> <p>Manage partnership activities with other organizations.</p> <p>Coordinate Public Engagement with District projects.</p>	<p>On March 7th, Master Water Stewards attended the last class of the session. They will now work on capstone projects.</p> <p>Staff are working to plan, create, and distribute a series of virtual lessons and activities, so that the youth program can continue to support the work of educators. Activities will be designed to help youth understand local waterways and</p>	

		<p>processes, and to encourage stewardship of natural resources.</p> <p>Staff are working to adapt the Junior Watershed Explorer booklet to a more interactive online format.</p> <p>Staff are working to prepare for upcoming trainings that may be moved to webinar format.</p> <p>Educator mini-grants and action grants are still open and accepting digital applications.</p> <p>Community members continue to sign up to adopt storm drains and keep them clear of leaves, dirt, and other debris through the Adopt-a-drain.org partnership.</p> <p>Service Learner: A volunteer from the University of Minnesota has begun working with Education and Outreach staff a few hours a week to assist with writing projects and materials development.</p>	<p>Adopt a drain: City of Eden Prairie, City of Minnetonka, City of Bloomington, Hamline University, Nine Mile Creek Watershed District</p> <p>Service learner: University of Minnesota</p>
MN GreenCorps Update		<p>Member Bakkum worked in collaboration with Staring Lake Outdoor Center to arrange the planting of a variety of native flowers and grasses Member Bakkum selected to be used in later projects.</p> <p>Member Bakkum researched and is planning the design for a gravel bed tree nursery to be installed around the perimeter of the district office building in late spring 2020. Member Bakkum designed and distributed advertising for the Silver Lake Community Fair.</p>	MPCA
Groundwater Conservation	Work with other LGUs to monitor assess and identify gaps.	The District received four applications for Groundwater Conservation Grants. The cities of	Metropolitan Council City of Eden Prairie

	<p>Engage with the Technical Advisory Committee to identify potential projects.</p> <p>Develop a water conservation program (look at Woodbury model)</p>	<p>Eden Prairie, Shorewood, Bloomington, and Minnetonka have applied. Staff Lauer has been in communication with the City of Chaska and City of Deephaven regarding participation in the Groundwater Education Collaborative.</p> <p>Grant agreements with cities will be negotiated by the end of the month.</p>	<p>City of Shorewood City of Bloomington City of Minnetonka</p>
Lake Vegetation Management	<p>Work with the University of Minnesota or Aquatic Plant Biologist, Cities of Chanhassen and Eden Prairie, lake association, and residents as well as the Minnesota Department of Natural Resources on potential treatment.</p> <p>Implement herbicide treatment as needed.</p> <p>Secure DNR permits and contracts with herbicide applicator.</p> <p>Lakes the District is monitoring for treatment include: Lake Susan, Lake Riley, Lotus Lake, Mitchell Lake, Red Rock Lake and Staring Lake.</p> <p>Work with Three Rivers Park District for Hyland Lake</p>	<p>Staff have been working to establish roles and responsibilities with all partners regarding lake vegetation management. This will be finalized shortly.</p>	<p>City of Eden Prairie City of Chanhassen University of Minnesota MNDNR</p>
Opportunity Projects	<p>Assess potential projects as they are presented to the District</p>	<p>Administrator Bleser and Staff Lauer have met with Preserve association to discuss a possible capture and reuse system on their campus. Staff also discussed updates on their comprehensive restoration plan.</p>	
Total Maximum Daily Load	<p>Continue working with Minnesota Pollution Control Agency on the Watershed Restoration And Protection Strategies (WRAPS).</p>	<p>No new updates</p>	<p>MPCA</p>

	Engage the Technical Advisory Committee.		
Repair and Maintenance Grant	Develop and formalize grant program.	No new update.	
University of Minnesota	Review and monitor progress on University of Minnesota grant. Support Dr John Gulliver and Dr Ray Newman research and coordinate with local partners. Keep the manager abreast to progress in the research. Identify next management steps.	Administrator Bleser took part in a virtual meeting discussing literature review of stormwater pond management as part of a MNDOT project. Administrator Bleser serves on the technical pannel.	Stormwater ponds partners: Bloomington, Chanhassen, Eden Prairie, Minnetonka, Shorewood, and Limnotech. Plant Management: Chanhassen Eden Prairie
Watershed Plan	Review and identify needs for amendments.	No new updates.	
Wetland Conservation Act (WCA)	Administer WCA within the Cities of Shorewood and Deephaven. Represent the District on Technical Evaluation Panel throughout the District	No WCA applications have been received in Deephaven. No WCA applications have been received in Shorewood.	City of Shorewood City of Deephaven City of Chanhassen City of Eden Prairie MCWD BWSR DNR ACOE
Wetland Management	Assess known existing wetlands, identify previously unknown wetlands, and identify potential restoration and rehabilitate wetlands and wetland requiring additional protection.	Staff Jeffery and Staff Dickhausen will be mailing postcards this month to the forthcoming service area. Latest conversation with BWSR staff was told to rely on the excel version for now. They also suggested we update the Excel to be consistent with the latest access version. Staff is evaluating that option.	City of Chanhassen City of Eden Prairie Hennepin County Carver County MNDNR BWSR

		Staff Jeffery and Staff Dickhausen have begun desktop assessment of upcoming review areas. Staff Jeffery is updating the GIS database to reflect all functions and values rather than a composite score.	
Hennepin County Chloride Initiative	Phase 1: Develop a plan to target commercial and association-based sources or chloride pollution - businesses, malls, HOAs, property management companies and the private applicators that they hire. We will hire a consultant to facilitate focus groups with private applicators, as well as those that execute contracts with private applicators. These focus groups will help identify needs and barriers for our target audience. The consultant will compile information into a plan for implementation.	No new updates.	
Lower Minnesota Chloride Cost-Share Program	The Lower Minnesota River Watersheds are coming together to offer cost-share grants.	Lower Minnesota Chloride is finalizing a grant program.	
Bluff Creek One Water			
Bluff Creek Tributary Restoration	Implement and finalize restoration. Monitor Project.	No new updates	City of Chanhassen
Wetland Restoration at 101	Remove 3 properties from flood zone, restore a minimum 7 acres and as many as 16 acres of wetlands,	The transfer of the property at 730 Pioneer Trail is being completed.	City of Chanhassen MN DNR

	connect public with resources, reduction of volume, rate, pollution loads to Bluff Creek	Staff Jeffery and Staff Dickhausen will delineate and survey the properties as soon as conditions are appropriate. Staff Jeffery met with Engineer Sobiech and Design Engineer Howley to identify potential design changes to reduce cost of restoration without compromising ecological benefits.	
Riley Creek One Water			
Lake Riley Alum	Continuing to monitor the Lake.	Sediment cores taken to evaluate spring 2020 application.	
Lake Susan Improvement Phase 2	Complete final site stabilization and spring start up. Finalize and implement E and O for the project. Monitor project.	No new updates	City of Chanhassen Clean Water Legacy Amendment
Lake Susan Spent Lime	2020 startup and monitoring.	The Lake Susan Spent Lime Treatment System modifications have been completed. Monitoring equipment installation and startup of the system will hopefully occur in April.	City of Chanhassen
Lower Riley Creek Stabilization	Coordinate agreement and acquire easements if needed for the restoration of Lower Riley Creek reach D3 and E. Implement Project. Continue Public Engagement for project and develop signage of restoration.	Rachel Contracting completed its work on Lower Riley and the water pump was removed. All invested partners were invited to walk the final project site on 3/6 which was attended by staff Maxwell.	City of Eden Prairie Lower MN River Watershed District
Rice Marsh Lake Alum Treatment	Continuing to monitor the Lake.	Sediment cores taken to evaluate the application.	City of Eden Prairie City of Chanhassen
Rice Marsh Lake Watershed Load Project 1	Conduct feasibility. Develop cooperative agreement with City of Chanhassen	District Engineer Sobiech is working with staff at Barr to complete a feasibility study for the area. This study should indicate potential BMPs, associated pollutant removals,	City of Chanhassen

		associated cost, and potential data collection to be used for future projects as it pertains to new and emerging technologies.	
Upper Riley Creek	<p>Work with City to develop scope of work (in addition to stabilizing the creek can we mitigate for climate change)</p> <p>Conduct feasibility</p> <p>Develop cooperative agreement with the City of Chanhassen</p> <p>Order Project</p> <p>Start design</p>	<p>Administrator Bleser has met with the Public Works Director for Chanhassen and discussed this project. Bleser has shared the feasibility for Upper Riley Creek as well as information from Lower Riley Creek. First step in the project is to formalize a corridor enhancement plan with the City.</p>	City of Chanhassen
Purgatory Creek One Water PCRA Berm		<p>Eden Prairie, District Staff, and Wenck met at the berm to discuss plans for the restoration work. The project moving forward will be as follows:</p> <ul style="list-style-type: none"> -Complete the site survey and evaluate the existing subgrade at the boardwalk area when the snow and ice cover allow better accessibility. The survey will include the boardwalk area and the plunge pool, and evaluating the soil conditions at the boardwalk area. -The plans will include filling the plunge pool to build a surface that is suitable for carp removal, and removing the boardwalk and reconstructing the berm to the previous overflow elevation. -As requested by the watershed, we will evaluate whether it is feasible and permissible to construct a low-flow weir with gates or stop logs to allow low flows through the weir for carp removal during low flow periods. -Carp removals for this year may need to be performed at the boardwalk overflow location. 	City of Eden Prairie

Duck Lake Water Quality Project	Work with the City to implement neighborhood BMP. Identify neighborhood BMP to help improve water resources to Duck Lake. Implement neighborhood BMPs.	The District is working with contractors to build downspout planter boxes. Installation is likely planned for late spring. Raingarden quotes were also collected. Please see the packet for additional information on this item.	City of Eden Prairie
Lotus Lake – Internal Load Control	Monitor treatment and plant populations.	No new updates	
Scenic Heights	Continue implementing restoration effort. Work with the City of Minnetonka and Minnetonka School District on Public Engagement for project as well as signage.	Project partners will meet (virtually) to discuss project updates and next steps.	Minnetonka Public School District City of Minnetonka Hennepin County
Silver Lake Restoration	Order project Design Project Work with the City of Chanhassen for Design, cooperative agreement and implementation	Administrator Bleser is meeting with the City of Chanhassen to discuss the project and finalize cooperative agreement on March 27.	City of Chanhassen
Professional Development			
Trimble Surveying Equipment Training	Staff Maxwell, Jeffery, and Dickhausen attended Trimble Surveying Equipment Training at the office this month. The purpose of this training was to familiarize staff with the surveying equipment, set up equipment for the District, perform practice in the field operation, and use Trimble Software to utilize data collected after field visits.		

Memorandum

To: Riley-Purgatory-Bluff Creek Watershed District Board of Managers and District Administrator
From: Barr Engineering Co.
Subject: Engineer's Report Summarizing March 2020 Activities for April 1, 2020, Board Meeting
Date: March 26, 2020

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 March 2020.

General Services

- a. Prepared a grant application for the MPCA's grants for community strategies to adapt to climate change with Administrator Bleser. The grants are to research, develop, and implement strategies for communities to adapt to the impacts of climate change and improve community resilience while achieving positive environmental outcomes. Because addressing flood risk related to climate change is a key item mentioned in the grant, the District is hoping to pursue a cooperative grant application with communities in the Purgatory Creek watershed to support the improved detail in the hydrologic and hydraulic models and prioritization of floodprone areas.
- b. Participated in March 12th meeting with MPCA to discuss manufactured treatment devices (MTDs) and an Overview of Stormwater Testing and Evaluation for Products and Practices (STEPP) program for verification of MTD. Other entities, such as the MPCA, municipalities, or WMOs, would be tasked with certification. Key discussion items included:
 - i. Stormwater BMP testing and certification is costly and time intensive. Cost savings can be made through less sampling and/or lab sampling only (i.e. no field sampling).
 - ii. MTD verification testing can take several years
 - iii. MN workgroup focus is on phosphorus removal. There was some discussion of dissolved phosphorus, which is currently not required for TAPE and NJCAT.
 - iv. MN workgroup is leery of lab-tested approval – need field verification. There was some discussion of approved testing sites. For example, the U of NH is approved as a testing site. Is this something we might want to pursue in Minnesota?
 - v. Operation and maintenance are critical in the evaluation of MTDs
 - vi. Ideally, regional testing would be performed; how can national testing be better used regionally
 - vii. STEPP is not currently funded to take on regional verification of MTDs
- c. Participated in a March 20th conference call with Watershed Planning Coordinator Jeffery to discuss the Pioneer Wetland restoration project. Discussion focused on potential revisions

- during final design to promote diverse vegetation growth, manage cattail intrusion, and reduce excavation quantity to lower project cost, should the Board order the project.
- d. Participated in a March 24th conference call with Administrator Bleser, Watershed Planning Coordinator Jeffery, and staff Dickhausen to coordinate RPBCWD data collection for the design of the Middle Riley Creek Restoration project and the Pioneer Wetland Restoration project. To maximize the use of staff resources, RPBCWD staff plan to collect all field survey data in early April, complete wetland delineation when growing season starts (~May 15th) and manage any needed WCA permitting for both projects. We also discussed RPBCWD staff collecting survey data before leaf-on to inform the Kerber Pond Ravine feasibility assessment.
 - e. Assisted Administrator Bleser in refining a draft cooperative agreement for the Silver Lake water quality improvement project and took part in a Zoom meeting with Administrator Bleser and city of Chanhassen to discuss the Silver Lake BMP cooperative agreement.
 - f. Plan to participate in March 30th meeting with Administrator Bleser and the city of Eden Prairie to discuss the city's proposed Duck Lake Road project alternatives.
 - g. Prepared task orders for design and construction administration services for the Middle Riley Creek Restoration and Pioneer Wetland Restoration projects per Administrator Bleser's request.
 - h. Participated in the March 4th regular Board of Managers meeting.
 - i. Prepared Engineer's Report for engineering services performed during March 2020.
 - j. Miscellaneous discussions and coordination with Administrator Bleser about planning for future CIP projects, assistance with audit requests for information, project staffing and upcoming Board meeting agenda.

Permitting Program

- a. *Permit 2020-003: Moments of Chanhassen* – This project consists of the construction of a 48-unit memory care residential facility located in Chanhassen, MN. The proposed development will include associated parking areas, utilities, grading, and a stormwater feature including a filtration basin. The proposed project triggers RPBCWD's erosion prevention and sediment control, waterbody crossings and structures, wetland and creek buffers, and stormwater management rules. Review revised submittals received on March 6th, 13th, and 17th. Developed permit report for consideration at the April 1, 2020 regular meeting.
- b. *Permit 2020-008 Eden Ridge* – This project proposes to subdivide existing properties located at 15807 and 15817 Valley View Road in Eden Prairie, MN into 10 residential lots with additional outlots for stormwater management. Proposed construction includes site grading, stormwater management improvements, construction of a cul-de-sac (Ridge Way Lane), and associated utilities. Stormwater management facilities include two infiltration basins to provide water quality treatment, volume abstraction and rate control for runoff. This permit triggers RPBCWD's erosion and sediment control, and stormwater management rules. Reviewed revised submittal information received March 12th, 19th, and 24th. The application was determined to be complete with the March 19th submittal. Developed permit review report for consideration at the April 1, 2020 regular meeting.

- c. Continued developing materials for rule guidance materials, such as a guidance document, submission check list, and flow charts.
- d. Fielded call from resident expressing concern about tracking of sediment on the street for the Castle Ridge development (permit 2019-066). Conduct site visit the next morning and spoke with contractor about tracking issue. Contractor immediately had crew begin work on cleaning the sediment tracking.
- e. Fielded miscellaneous calls from developer's engineers with questions about floodplain compensatory storage requirement, buffer criteria, and stormwater management criteria.
- f. Discussions with Watershed Planning Manager Jeffery and Counsel Welch on permit fee schedule for posting on the district's website.
- g. Conducted erosion prevention and sediment control inspection on March 16-18th and provided a summary of sites with open corrective actions to Watershed Planning Manager Jeffery on March 20th.
- h. Miscellaneous conversations with Watershed Planning Coordinator Jeffery and Administrator Bleser about technical questions on permit requirements for potential development and shoreline stabilization projects as well as renewal of the general permit with the MNDNR.

Data Management/Sampling/Equipment Assistance

- a. Prepared, uploaded, and verified three RMB lab reports.
- b. Verified and finalized data from the 2019 City of Eden Prairie Lake Monitoring Report.
- c. Verified 2019 pond data collected with the field app and corrected pond sample depths in the database.

Repair and Maintenance

Lake Susan spent lime filter modification

- a. Onsite observation of modifications to the Lake Susan spent lime filter.
 - i. On February 26th, the Contractor swept the trail and demobilized from the site.
 - ii. Final site restoration for the area adjacent to the filter that was disturbed during maintenance activities will occur when the snow has melted.
 - iii. Met with Staff Maxwell on March 13th at the site to review how the modifications may affect District monitoring of the system.
 - iv. During the next month staff will program the automated water level control structure. After verifying that the automated water level control structure is programed and functional, staff will bring the filtration system back online.
 - v. The following photographs were taken following substantial completion of maintenance activities.



Photograph 1. Photograph taken on March 13, 2020. The contractor has substantially completed modifications to the system. Final site restoration will occur later this spring.



Photograph 2. Photograph taken on March 13, 2020. The inside of the control box for the automated water level control structure. The control box and solar panel are located on a pole adjacent to the filtration system. Staff will be programming the automated water level control structure this spring and will bring the system online after verification that the water level control structure is operational.

Task Order 6: WOMP Station Monitoring

Purgatory Creek Monitoring Station at Pioneer Trail

- a. Download and review data.
- b. Preparations for 2020 monitoring season.

Purgatory Creek Monitoring Station at Valley View Rd

- a. Download and review data.
- b. Data QA/QC and prep for entry into EQUIS database.
- c. Preparations for 2020 monitoring season.
- d. Site visits to check on ice conditions in stream channel.

Task Order 14b: Lower Riley Creek Final Design

- a. Responded to citizen questions and concerns regarding noise and vibrations from the project construction
- b. Processed Payment Application #3 with the contractor for project mobilization, operation and removal of the dewatering practices, clearing and grubbing of the site prior to construction, installation of erosion control practices (periodic sweeping of the access roadways, seeding/erosion control blanket, sediment log, and construction entrance), installation of

- storm sewer pipe, manholes, and riprap aprons, installation of in-stream features (rock riffles, rock/log step pools, VRSS lifts, cross vanes, and toe wood), grading of the new channel profile and the banks, installation of six inches of topsoil (both salvaged and imported), construction of features noted in Change Order #2 to address the poor soil issues at the downstream end of the project
- c. Conducted construction observation in the field and construction administration of the installed features noted above.
 - d. Facilitated discussions regarding tree impacts caused by grading, restoration of the Cedarcrest Access, pedestrian bridge installation, and pedestrian trail alignments with the City and Contractor.
 - e. Met with Matt Bourne and Patrick Sejkora (City staff), Ryan Winge (Contractor Project Manager), Jeremy Rose (Contractor Superintendent) on site for weekly construction meetings
 - f. Met on site with District Staff (Josh Maxwell) and Contractor (Jeremy Rose) to review the installed features prior to release of flow in the newly constructed channel.
 - g. Conducted site walks with flow in the creek to develop contractor punch list for items to be improved prior to substantial completion
 - h. Reviewed submittals for bituminous pavement and plantings
 - i. Contractor has completed the approximately 4,500 LF of stream restoration. Project features installed include five manhole drop structures, VRSS, constructed rock/log riffles, constructed rock riffles, boulder cross vanes, log vanes, toe wood, general grading, topsoil, pedestrian bridge, seeding, erosion control blanket, and bio-logs.



Installed pedestrian bridge

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Rock/Log Step Pool



Boulder Cross Vane



Constructed Riffle and VRS



Stabilized ravine



VRSS and Toe Wood

Task Order 21B: Bluff Creek Stabilization Project

- a. Conducted site walk to develop punch list for substantial completion and review existing erosion control features
- b. Requested installation of additional mulch and blanket to cover areas with minimal cover to reduce surface erosion while the site is established
- c. As previously mentioned, final seeding, permanent erosion control features, and final plantings will be completed in the spring.

Task Order 25: Duck Lake Water Quality Improvement Project

- a. Solicited contractor quotes for construction of two residential street-side rainwater gardens in the Duck Lake watershed. The request for quotes (RFQ) was sent to eight contractors on March 3. Provided two addenda in response to contractor questions for clarifications.

- b. Two contractors submitted quotes on March 20th in response to the March 3 request for quotes. Engineer tabulated the quotes and prepared a recommendation memorandum for board approval at the April meeting.
- c. Barr sent agreements to the two contractors that provided downspout planter box prototypes to fabricate and install the downspout planters at the agreed upon locations. A total of fourteen boxes will be produced included four that will be stored at the District office for future use. The boxes will be installed and planted at the ten resident properties this spring and then turned over to the homeowner for long term care and management.
- d. Sent agreements returned by the planter box contractors to Administrator Bleser for review and approval.

Task Order 26: Stormwater Model Update and Flood-Risk Area Prioritization Identification for the Bloomington Portion of Purgatory Creek

- a. Staff are waiting for input from Bloomington staff on the prioritized list of areas.

Task Order 28A: Rice Marsh Lake Subwatershed 12a Water Quality Project

- a. Continued analyzing various best management practice options given the site constraints, estimating phosphorus removals and developing cost estimates.
- b. Adjusted concept design and layout of the potential BMPs to account for the Metropolitan Councils sanitary sewer easement through this corridor.
- c. Continued drafting feasibility report and modeling results.

Task Order 29A: Middle Riley Creek Stabilization Feasibility Study

- a. Worked with Administrator Bleser to facilitate coordination meeting the Bearpath owners.

Task Order 30A: Pioneer Trail Wetland Restoration Feasibility Study

- a. Finalized the feasibility study report including concept designs and cost estimates.
- b. Prepared slides for presentation at March 4th board meeting to summarize the feasibility study report options.
- c. Provided information and discussion in response to follow-up questions from District staff regarding feasibility study concepts and costs.
- d. Prepared task order 30B scope, schedule, and budget for design, permitting, and construction administration services phases of the project.

Task Order 032A: Upper Riley Creek Ecological Enhancement Plan

- a. Initiated project setup, along with internal team coordination.
- b. Phase I Environmental Site Assessment is scheduled to begin in April.

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Project: 23/27-0053.14 PRMT 9016

Barr staff has inspected construction sites in the Riley Purgatory Bluff Creek Watershed District for conformance to erosion prevention and sediment control policies. Listed below are construction projects and the improvement needed for effective erosion prevention and sediment control. The sites were inspected from March 16-18, 2020.

Site Inspections

2015-010	Children's Learning Adventure - Private - Commercial/Industrial Northwest Coerner of Highway 5 and Galpin Avenue Chanhassen, MN 55317 Site is compliant.	2020-03-18
2015-036	Saville West Subdivision - Private - Residential 5325 County Road 101 Minnetonka, MN 55345 Site is compliant.	2020-03-19
2015-050	Arbor Glen Chanhassen - Private - Residential 9170 GREAT PLAINS BLVD Chanhassen, MN 55317 Site has an open Corrective Action. See 9/20/19 inspection for information and photos. Terry Jeffery is aware of CA. Site representative was notified 9/20/19.	2020-03-17
2015-055	Hampton Inn Eden Prairie - Private - Commercial/Industrial 11825 Technology Drive Eden Prairie, MN 55344 Site is compliant.	2020-03-16
2016-017	SWLRT - Government - Other Varies Eden Prairie, MN 55344 Site is compliant.	2020-03-16
2016-026	Foxwood Development - Private - Residential 9150 and 9250 Great Plains Blvd Chanhassen, MN 55317 Open CA(s): Tracking. Back of curb protection. Rock entrances. East infiltration basin— toe of slope protection— east side. Within next month catch basin protection re-installations. Site representative was notified. Deadline: 3/17/2020	2020-03-17

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2016-032	CSAH 61 Improvements - Government - Linear N/A Eden Prairie, MN 55347 Site is compliant.	2020-03-16
2016-041	Chanhassen West Water Treatment Plant - Government - Other 2070 Lake Harrison Road Chanhassen, MN 55317 Site is compliant. BMP's still in place.	2020-03-18
2017-001	Kopesky 2nd Addition - Private - Residential 18340 82nd St Eden Prairie, MN 55347 Site is compliant.	2020-03-17
2017-023	Eden Prairie Assembly of God - Private - Commercial/Industrial 16591 Duck Lake Trail Eden Prairie, MN 55346 Site is compliant.	2020-03-17
2017-024	Prairie Bluffs Senior Living - Private - Residential 10280 Hennepin Town Rd Eden Prairie, MN 55347 Site has open Corrective Action. See inspection dates 12/11/19 for information and photos. Site representative was notified on 12/11/19. Will re-address after spring thaw/snowmelt. Terry Jeffery is aware of issues.	2020-03-16
2017-026	6135 Ridge Road Site is compliant.	2020-03-18
2017-028	Great Plains Blvd/TH 101 Trail Extension - Government - Linear 1500 LF south of Lyman Blvd on the west side of TH 101 Chanhassen, MN 55317 Site is compliant.	2020-03-17
2017-029	Tweet Pediatric Dentistry - Private - Commercial/Industrial 7845 Century Blvd. Chanhassen, MN 55317 Site is compliant. Catch basin protection/biorolls still in place.	2020-03-18
2017-030	Elevate - Private - Commercial/Industrial 12900 Technology Drive Eden Prairie, MN 55344 Site is compliant. All temporary BMP's have been removed. Site is stable. All vegetation is established. This will be last field inspection for this permit.	2020-03-16

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2017-031	Lion's Tap - Private - Commercial/Industrial 16180 Flying Cloud Drive Eden Prairie, MN 55347 Site is compliant., Site is compliant.	2020-03-16
2017-038	West Park - Private - Residential 760& 781 Lake Susan Drive 8601 Great Plains Blvd Chanhassen, MN 55317 Site is compliant.	2020-03-17
2017-039	Mission Hill Senior Living - Private - Residential 8600 Grate Plains Boulevard Chanhassen, MN 55317 Site is compliant.	2020-03-17
2017-043	Flying Cloud Dr Trail Improvements - Government - Other 8251 FLYING CLOUD DR Eden Prairie, MN 55344 Site is compliant.	2020-03-16
2017-047	Fawn Hill - Private - Residential 7240 Galpin Road Chanhassen, MN 55331 Site is compliant.	2020-03-18
2017-065	4818 Ridge Road - Existing Single-Family 4818 Ridge Road Minnetonka, MN 55345 Site is compliant.	2020-03-18
2017-069	Scheels Redevelopment - Private - Commercial/Industrial 8301 Flying Cloud Dr. Eden Prairie, MN 55344 Site is compliant.	2020-03-16
2017-071	Stone Cottage Construction / Roettger Residence Site is compliant. All temporary BMP's have been removed. Vegetation is established. Site is stable. This will be last field inspection for this permit.	2020-03-16
2017-072	O'Reilly Auto Parts Eden Prairie - Private - Commercial/Industrial 8868 AZTEC DRIVE Eden Prairie, MN 55347 Open CA(s): Silt fence down. Tracking to street. Site representative was notified. Deadline: 4/7/2020.	2020-03-16

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2018-006	16200 Pine St - Existing Single-Family 16200 Pine St Minnetonka, MN 55345 Site is compliant. This will be last field inspection for this permit.	2020-03-19
2018-014	Eden Prairie Road Reconstruction Site is compliant.	2020-03-16
2018-025	Magellan Pipeline UCD Dig 8 through 12 Site is compliant.	2020-03-17
2018-027	MAMAC - Private - Commercial/Industrial 8189 Century Boulevard Chanhassen, MN 55317 Closed CA(s): Bare soils at infiltration basin. Site representative no longer works for Mammac— contacted owners— and they been notified. Contacted contractor-basin work is on going. CA closed. Deadline: 3/19/2020 Fixed: 3/20/2020	2020-03-18
2018-028	Oak Point Elementary School Parking Lot - Government - Other 13400 Staring Lake Parkway Eden Prairie, MN 55347 Site is compliant.	2020-03-16
2018-034	Basin 05-11-A Cleanout - Government - Other Corner of Sequioa and Ginger Eden Prairie, MN 55346 Site is compliant.	2020-03-19
2018-036	Horseshoe Curve house construction - Existing Single-Family 6675 Horseshoe Curve Chanhasen, MN 55317 Site is compliant.	2020-03-18
2018-038	Eden Prairie Senior Living - Private - Residential 8460 Franlo Rd Eden Prairie, MN 55344 Corrective Action remains open. See 9/20/19 inspection notes for information. Site representative was notified. Will re-address Corrective Action after spring thaw. Site representative was notified 3-16-20.	2020-03-16
2018-041	Abra Auto Body - Private - Commercial/Industrial 13075 Pioneer Trail Eden Prairie, MN 55347	2020-03-16

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Bare unprotected soils on slope of east pond. Site representative was notified. Deadline: 3/19/2020
Open CA(s): Erosion on slope at east infiltration basin. Site representative was notified via email. Deadline: 3/20/2020

Permit has been closed. Site has a Corrective Action at east basin. Unable to confirm vegetation growth on pond slopes not growing.

2018-043	Control Concepts - Private - Commercial/Industrial 8077 Century Boulevard Chanhassen, MN 55317 Site is compliant.	2020-03-18
2018-044	Smith Village - Private - Residential 16389 Glory Lane Eden Prairie, MN 55344 Site is compliant.	2020-03-17
2018-047	Peterson Borrow Site - Private - Commercial/Industrial 15900 Flying Cloud Drive Eden Prairie, MN 55347 Site is compliant.	2020-03-16
2018-048	Kampe - Existing Single-Family 19067 Magenta Bay Eden Prairie, MN 55374 Site is compliant. This will be last field inspection for this permit.	2020-03-17
2018-052	HCRRA Culvert Replacement - Government - Linear Hennepin County Wayzata and Deephaven, MN 55401 Site is compliant. BMP's still in place. Site representative was notified that BMP's can be removed.	2020-03-19
2018-055	Park Trail Improvement Project - Government - Other 1700 W. 98th Street Bloomington, MN 55431 Site is compliant.	2020-03-16
2018-056	Bluff Creek Restoration - Government - Other Liberty on Bluff Creek, Outlot B Audubon Road Chanhassen, MN 55317 Open CA(s): Areas of bare soils, bare soils on slopes. Contractor was notified. Deadline: 3/20/2020	2020-03-18
2018-058	Walker Home - Existing Single-Family 9108 Stephens Pointe Eden prairie, MN 55347 Site has multiple Corrective Actions. Site representative and Terry Jeffery are aware of the issues. Issues will be addressed again after snowmelt. Site representative notified	2020-03-17

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again about bare soils on slope with potential to runoff to Riley Lake thru neighbors property.

2018-060 **Loichinger Residence - Existing Single-Family** **2020-03-17**
16396 Stratus Court Eden Prairie, MN 55347
Site is compliant.

2018-061 **McCoy Lake Inlet Sediment Removal - Government -** **2020-03-16**
Other
Mitchell Road and Cumberland Road Eden Prairie, MN
55347
No activity observed to date.

2018-062 **Lower Riley Creek Stabilization Project - Government -** **2020-03-17**
Other
Ridge on Riley Creek, Outlot A Eden Prairie, MN 55344
Site is compliant.

2018-065 **New Build - Arbit Residence** **2020-03-19**

Site is compliant.

2018-066 **Castle Ridge Redevelopment - Private - Residential** **2020-03-12**
615-635 Prairie Center Drive Eden Prairie , MN 55344
Open CA(s): Tracking to street. See photo in 3/12/20
inspection. Site representative was notified and is aware and
will address clean up. Catch basin protection has been
installed. Deadline: 3/17/2020

Received call about heavy tracking to streets at project site. Talked with contractor (site representative) at construction trailer: they will conduct a site/street clean up. They will sweep area of heavy use two times per day and at end of day. Site entrances will get a refresh of rock soon.

2020-03-16

Site is compliant. With exception of tracking. Corrective Action from 3-12-20 will remain open—site was swept after that notification. Site representative stated cleanup will be a daily event and as needed.

2018-067 **Hennepin Co Library - Eden Prairie Branch Refurb -** **2020-03-16**
Government - Other
565 Prairie Center Drive Eden Prairie, MN 55344
Site is compliant.

2018-068 **DriStem Warehouse Expansion - Private -** **2020-03-16**
Commercial/Industrial
14949 Technology Drive Eden Prairie, MN 55344
Site is compliant.

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2018-070	4917 Vine Hill Rd 4917 VINE HILL RD DEEPHAVEN, MN 55331 Site is compliant.	2020-03-18
2018-072	Hyland Park Parking Lot Improvements - Government - Other 10145 E Bush Lake Rd Bloomington, MN 55438 Site is compliant.	2020-03-16
2018-073	Preserve Boulevard Reconstruction - Government - Linear Preserve Boulevard Eden Prairie, MN 55344 Site is compliant.	2020-03-16
2018-074	Eden Prairie Ground Storage Reservoir - Government - Other XXXX Eden Prairie Road Eden Prairie, MN 55344 Site is compliant.	2020-03-17
2018-075	Pauls Shoreline Reclamation and Stabilization - Existing Single-Family 6687 Horseshoe Curve Chanhassen, MN 55317 No activity observed to date. Will start inspecting under most current Permit (2018-036)	2020-03-18
2019-001	Park-Galpin Nelson Property - Private - Residential 7141 Galpin Blvd Chanhassen, MN 55317 Site is compliant.	2020-03-18
2019-002	Shelangoski Home - Existing Single-Family 7516 Frontier Trl Chanhassen, MN 55317 Site is compliant.	2020-03-18
2019-003	Stable Path - Private - Residential 9650 Stable Path Eden Prairie, MN 55347 Open CA(s): Tracking. Protection updates at back of curb. Infiltration pond protection at toe of slope—entire pond perimeter. Catch basin protection installation. Site representative was notified onsite. Deadline: 3/17/2020	2020-03-17
2019-006	2019 Mill and Overlay - Government - Linear Scenic Heights Drive Minnetonka, MN 55345 Site is compliant. This will be last field inspection for this permit.	2020-03-17

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2019-007	Beverly Hill - Private - Residential 16540 Beverly Drive & 9800 Eden Prairie Road Eden Prairie, MN 55347 Open CA(s): Silt fences down. No silt fence/biorolls where needed. Catch basin protection needed. Tracking to street and cul-de-sac. Site representative was notified. Deadline: 3/17/2020.	2020-03-17
2019-008	Staring Lake Pavilion - Government - Other 14800 Pioneer Trail Eden Prairie, MN 55347 Site is compliant.	2020-03-16
2019-009	5995 Ridge Rd Remodel - Existing Single-Family 5995 Ridge Rd Shorewood, MN 55331 Site is compliant.	2020-03-18
2019-011	Westwind Plaza - Private - Commercial/Industrial 4795 County Rd. 101 Minnetonka, MN 55345 Site is compliant.	2020-03-19
2019-013	Cozine Project 272 Lakeview Road E Chanhassen, MN 55317 Site is compliant	2020-03-17
2019-014	Hennepin Town Road Turn Lane Improvements - Government - Linear 10217 Hennepin Town Road Eden Prairie, MN 55347 Site is compliant.	2020-03-16
2019-015	Lake Drive East Improvements - Government - Linear Lake Drive East Chanhassen, MN 55317 No activity observed to date.	2020-03-18
2019-017	6650 Pawnee Drive - Existing Single-Family 6650 Pawnee Dr. Chanhassen, MN 55317 Site has open Corrective Action. Terry Jeffery aware of issues.	2020-03-18
2019-018	6657 Deerwood Drive - Existing Single-Family 6657 Deerwood dr Chanhassen, MN 55317 Site has open Corrective Action. Terry Jeffery is aware of issues.	2020-03-18

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2019-019	Sheldon Place - Private - Residential 7960 Eden Prairie Rd Eden Prairie, MN 55347 Open CA(s): Silt fence down in several locations. Site representative and owner were notified. Deadline: 3/17/2020.	2020-03-17
2019-021	2019 Miscellaneous Drainage Improvements - Government - Other Red Cherry Lane Minnetonka, MN 55345 Site is compliant. All temporary BMP's have been removed. Vegetation is established. Site is stable. This will be last field inspection for this permit.	2020-03-19
2019-022	Woodcrest Place - Private - Residential 17170 Beverly Drive Eden Prairie, MN 55347 Site is compliant. No activity observed since last field inspection.	2020-03-17
2019-023	Minnetonka Library - Government - Other 17524 Excelsior Blvd. Minnetonka, MN 55345 Site is compliant.	2020-03-19
2019-024	Conifer Heights - Private - Residential 5615 Conifer Trail 5616 Mahoney Ave Minnetonka, MN 55345 Site is compliant.	2020-03-19
2019-025	Homestead Circle Sump Pump Collection - Government - Linear Homestead Circle Green Ridge Drive Pheasant Circle, MN 55346 Site is compliant.	2020-03-17
2019-026	Ridgewood Church Parking Lot 4420 County Road 101 Minnetonka, MN 55345 Site is compliant.	2020-03-19
2019-028	Lifetime Parking Lot Chanhassen - Private - Commercial/Industrial 2970 Water Tower Place Chanhassen, MN 55317 Site is compliant.	2020-03-18
2019-029	Sheldon Ave Storm Sewer Improvemnts - Government - Linear 16032 Sheldon Avenue Eden Prairie, MN 55344 No activity observed to date.	2020-03-17

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2019-030	Koeppen Shoreline Stabilization - Private - Residential 516 Big Woods Blvd Chanhassen, MN 55317 Site is compliant.	2020-03-18
2019-031	Leddy Shoreline Restoration - Private - Residential 9470 Foxford Road Chanhassen, MN 55317 Site is compliant.	2020-03-17
2019-032	West 79th St Chanhassen Parking Lot - Government - Other Unassigned - W. 79th St and Markett Blvd Chanhassen, MN 55317 Site is compliant.	2020-03-18
2019-033	Spring Rd Pedestrian Crossing - Government - Linear Spring Rd and Prospect Rd Eden Prairie, MN 55344 Site is compliant.	2020-03-16
2019-036	Miller Pool - Existing Single-Family 18471 Heathcote Dr Deephaven, MN 55391 Site is compliant., Site is compliant.	2020-03-19
2019-037	Maple Leaf Drive SPCS - Government - Linear 19091 Maple Leaf Drive Eden Prairie, MN 55346 Site is compliant.	2020-03-17
2019-039	Maple Leaf Drive Drintile - Government - Linear Maple Leaf Drive Eden Prairie, MN 55346 Site is compliant.	2020-03-17
2019-040	5328 Spring Ln - Private - Residential 5328 Spring Lane Minnetonka , MN 55345 Site is compliant.	2020-03-19
2019-041	Engelstad Pool - Existing Single-Family 17773 Cascade Dr Eden Prairie, MN 55344 No activity observed to date.	2020-03-17
2019-042	CSAH 101-Chanhassen - Government - Linear CSAH 101 Chanhassen, MN 55317 Site is compliant.	2020-03-17

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2019-043	Cedarcrest Stables - Private - Residential 16870 Cedarcrest Dr Eden Prairie, MN 55347 Site is compliant.	2020-03-17
2019-044	6645 Horseshoe Curve - Melander 6445 Horseshoe Curve Chanhassen, MN 55317 Site is compliant.	2020-03-18
2019-045	16820 Excelsior Blvd, Minnetonka - Existing Single-Family 16820 Excelsior BLVD Minnetonka, MN 55345 Site is compliant.	2020-03-19
2019-047	Building Demolition and Site Restoration - Government - Linear 720 Vegelsberg Trail Chanhassen, MN 55318 Site is compliant. This permit location is complete. It now has been absorbed into Permit 2019-042. This permit can be closed.	2020-03-17
2019-049	Powers Blvd and Lake Lucy Rd - Government - Linear Powers Blvd At Lake Lucy Rd Chanhassen, MN 55317 No activity observed to date.	2020-03-18
2019-052	5545 Kipling Avenue - Existing Single-Family 5545 Kipling Avenue, Minnetonka, MN 55345 Site is compliant.	2020-03-19
2020-004	Doan Home - Existing Single-Family 18338 Dove Ct, Eden Prairie, MN 55347 Open CA(s): Unprotected bare soils at curb line. Tracking. No rock entrance. No catch basin protection. Site representative was notified. Deadline: 3/17/2020	2020-03-17

Please contact me at 952.832-2687 or dmelmer@barr.com if you have questions on the projects listed above or any additional items that need to be addressed for the erosion control inspections.



March 16, 2020

President Dick Ward and Board of Managers
Riley-Purgatory-Bluff Creek Watershed District
18681 Lake Drive East
Chanhassen, MN 55317

**Re: Lake Susan Spent Lime Filter Modification –Pay Application #1
Barr Project # 23/27-0053.14-008**

Dear President Ward and Board of Managers:

Enclosed is the Application for Payment #1 from Sunram Construction Inc. for work completed through February 28, 2020, on the above-referenced project. Upon your review and approval, please sign three copies and return one copy to me, one copy to the contractor and retain the remaining copy for your files.

Major items of work covered by this pay application include mobilization, removal of filter media and underdrain, installation of slotted drain, automated water control structure, inlet valve, and placing new filter media.

Barr Engineering has reviewed the application for payment, confirmed that the work for which payment is requested has been performed, believes to the best of our knowledge that the work has been performed in accordance with the terms of the contract with the Riley Purgatory Bluff Creek Watershed District, and is recommending payment in the amount of **\$38,520.48**. Payments shall be made directly to Sunram Construction Inc.

Please call me at 952-832-2755 if you have any questions or concerns about the application for payment, or about any other related matters.

Sincerely,

A handwritten signature in black ink that reads "Scott Sobiech". The signature is fluid and cursive, with the first and last names clearly legible.

Scott Sobiech, P.E.
Barr Engineering Co.

c: Claire Bleser, RPBCWD
Ryan Sunram, Sunram Construction Inc.

Enclosure #1 – Application for Payment – Progress Payment 1

**Lake Susan Spent Lime Filter Modification
Progress Payment Number 1**

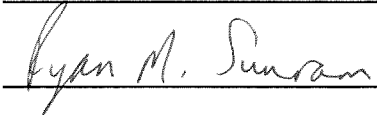
1.0	Total Completed Through This Period	<u>\$38,520.48</u>		
2.0	Total Completed Previous Period		<u>\$0.00</u>	
3.0	Total Completed This Period			<u>\$38,520.48</u>
4.0	Amount Retained, Previous Period		<u>\$0.00</u>	
5.0	Amount Retained, This Period (See Note 1)		<u>\$0.00</u>	
6.0	Total Amount Retained		<u>\$0.00</u>	
7.0	Retainage Released Through This Period:			<u>\$0.00</u>
8.0	Amount Due This Period			<u><u>\$38,520.48</u></u>

Note 1: At rate of 5% until substantial completion and a rate of 0% thereafter.

Note 2: Current Contract Price \$39,020.48, including Change Order 1.

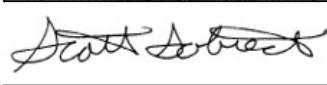
SUBMITTED BY:

Name: Ryan Sunram Date: 3/11/20
 Title: Project Manager
 Contractor: Sunram Construction Inc.

Signature: 

RECOMMENDED BY:

Name: Scott Sobiech Date: March 11, 2020
 Title: District Engineer
 Engineer: Barr Engineering Company

Signature: 

APPROVED BY:

Name: Dick Ward Date: _____
 Title: President
 Owner: Riley Purgatory Bluff Creek Watershed District

Signature: _____

**Lake Susan Spent Lime Filter Modification
Piley Purgatory Bluff Creek Watershed District
Summary of Work Completed Through February 28, 2020 for Progress Payment Number 1**

Item	Description	Unit	Estimated Quantity	Unit Price	Extension	(1) Total Completed Through This Period		(2) Total Completed Previous Period		(3) Total Completed This Period	
						Quantity	Amount	Quantity	Amount	Quantity	Amount
A	Mobilization/Demobilization	LS	1	6,750.00	6750	1	\$6,750.00	0	\$0.00	1	\$6,750.00
B	6-inch Polyvinyl Chloride (PVC) Slotted Pipe and Fittings	L.F.	55	45.00	2,475.00	55	\$2,475.00	0	\$0.00	55	\$2,475.00
C	6-inch Polyvinyl Chloride (PVC) Solid Pipe and Fittings	L.F.	12	56.00	672.00	12	\$672.00	0	\$0.00	12	\$672.00
D	6-inch Valterra Gate Valve	Each	6	1,000.00	6,000.00	6	\$6,000.00	0	\$0.00	6	\$6,000.00
E	10-inch Butterfly Valve	Each	1	2,315.00	2,315.00	1	\$2,315.00	0	\$0.00	1	\$2,315.00
F	Water Control Structure	LS	0	6,250.00	0.00	0	\$0.00	0	\$0.00	0	\$0.00
G	Remove Existing Spent Lime, Granular Filter Material, and Plastic Netting	LS	1	5,200.00	5,200.00	1	\$5,200.00	0	\$0.00	1	\$5,200.00
H	Filter Media	C.Y.	0	165.00	0.00	0	\$0.00	0	\$0.00	0	\$0.00
I	Restoration Seed and Straw Blanket	S.Y.	50	10.00	500.00	0	\$0.00	0	\$0.00	0	\$0.00
ALT A (1)	Automated Water Level Control Structure	LS	1	10,000.00	10,000.00	1	\$10,000.00	0	\$0.00	1	\$10,000.00
ALT B (2)	Filter Media Alternate	C.Y.	14	200.00	2,800.00	14	\$2,800.00	0	\$0.00	14	\$2,800.00
CO1	Pipe fittings & Automated Water Level Control Structure adjustments	LS.	1	2,308.48	2,308.48	1	\$2,308.48	0	\$0.00	1	\$2,308.48

Total of Extensions = \$ 39,020.48 \$38,520.48 \$0.00 \$38,520.48



March 16, 2020

President Dick Ward and Board of Managers
Riley-Purgatory-Bluff Creek Watershed District
18681 Lake Drive East
Chanhassen, MN 55317

**Re: Riley Creek Branch Stabilization Project – Pay Application #3
Barr Project # 23/27-0053.14-014**

Dear President Ward and Board of Managers:

Enclosed is the Application for Payment #3 from Rachel Contracting, Inc. for work completed through 3/6/20, on the above-referenced project. Upon your review and approval, please sign and return one copy to me. Barr will distribute a scan to the contractor and RPBCWD Administrator for district files.

This payment application includes the majority of the project construction. The contractor completed the work within the stream channel and opened the channel to flow on March 6th. Major items of work covered by this pay application include:

- Project mobilization
- Operation and removal of the dewatering practices (including all piping, pumps, and erosion control)
- Clearing and grubbing of the site prior to construction
- Installation of erosion control practices (periodic sweeping of the access roadways, seeding/erosion control blanket, sediment log, and construction entrance).
- Installation of storm sewer pipe, manholes, and riprap aprons
- Installation of in-stream features (rock riffles, rock/log step pools, VRSS lifts, cross vanes, and toe wood), including supplying all fieldstone riprap, boulders, root wads, and granular filter necessary to complete the work
- Grading of the new channel profile and the banks
- Installation of six inches of topsoil (both salvaged and imported)
- Construction of features noted in Change Order #2 to address the poor soil issues at the downstream end of the project

There are several items that have exceeded the bid quantities for the project which are recommended for payment in accordance with Section 01 22 00 Item 1.02 of the contract documents. This section indicates “Changes in quantities of a Bid Item will be made by calculating the product of the Contractor bid quantity, plus or minus the quantity change, and the Unit Price. Actual quantities will not be measured in the field as the basis for payment unless specifically indicated in the Specifications for the individual Bid Item as indicated by the term “measured in the field.” Payment for certain specific Bid Items will be on a unit price basis as indicated by the term “measured in the field” on the measurement description line for the Bid Item. Payment for these Bid Items will be the product of the actual field-measured quantity and the Unit Price.”

There are several items (topsoil import, filter aggregate, and erosion control blanket) that significantly exceeded the bid quantities for the project but have been excluded from this payment application because further documentation of these overages is needed to verify the request. Barr will continue to work with

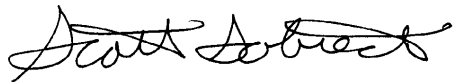
the contractor to obtain the necessary information to verify and, if warranted, include the those items in future Payment Application #4.

The remaining project work will be completed this spring and includes plantings, walking bridge construction, and reconstruction of the bituminous trail at Sky Lane.

Barr Engineering has reviewed the application for payment, confirmed that the work for which payment is requested has been performed, believes to the best of our knowledge that the work has been performed in accordance with the terms of the contract with the Riley Purgatory Bluff Creek Watershed District, and is recommending payment in the amount of **\$1,339,841.89**. Payments should be made directly to Rachel Contracting, LLC.

Please call me at 952-832-2755 if you have any questions or concerns about the application for payment, or about any other related matters.

Sincerely,



Scott Sobiech, P.E.
Barr Engineering Co.

c: Claire Bleser, RPBCWD
Ryan Winge, Rachel Contracting, Inc.

Enclosure #1 – Application for Payment – Progress Payment 3

**Riley Creek Stabilization Project
Progress Payment Number 3**

1.0	Total Completed Through This Period	<u>\$1,538,753.59</u>		
2.0	Total Completed Previous Period		<u>\$162,780.50</u>	
3.0	Total Completed This Period			<u>\$1,375,973.09</u>
4.0	Amount Retained, Previous Period		<u>\$8,139.03</u>	
5.0	Amount Retained, This Period (See Note 1)		<u>\$36,131.20</u>	
6.0	Total Amount Retained		<u>\$44,270.22</u>	
7.0	Retainage Released Through This Period:			<u>\$0.00</u>
8.0	Amount Due This Period			<u><u>\$1,339,841.89</u></u>

Note 1: At rate of 5% until Completed to Date equals 50% of current Contract Price and a rate of 0% thereafter.

SUBMITTED BY:

Name: Ryan Winge Date: 3/16/2020
 Title: Project Manager
 Contractor: Rachel Contracting, LLC

Signature: 

RECOMMENDED BY:

Name: Scott Sobiech Date: 3/16/2020
 Title: District Engineer
 Engineer: Barr Engineering Company

Signature: 

APPROVED BY:

Name: Dick Ward Date: _____
 Title: President
 Owner: Riley Purgatory Bluff Creek Watershed District

Signature: _____

Riley Creek Stabilization Project
Piley Purgatory Bluff Creek Watershed District
Summary of Work Completed Through March 6th, 2020- for Progress Payment Number 3

1.04 Item	Description	Unit	Estimated Quantity	Unit Price	Extension	(1) Total Completed Through This Period		Percent Complete	(2) Total Completed During Period 1		(3) Total Completed During Period 2		(4) Total Completed This Period	
						Quantity	Amount		Quantity	Amount	Quantity	Amount	Quantity	Amount
A	Mobilization	L.S.	1	\$ 132,210.00	\$ 132,210.00	0.8	\$105,768.00	80%	0.35	\$46,273.50	0.35	\$46,273.50	0.1	\$13,221.00
B	Control of Water	L.S.	1	\$ 118,950.00	\$ 118,950.00	1	\$118,950.00	100%	0	\$0.00	0.55	\$65,422.50	0.45	\$53,527.50
C	Traffic Control	L.S.	1	\$ 6,240.00	\$ 6,240.00	0.8	\$4,992.00	80%	0	\$0.00	0	\$0.00	0.8	\$4,992.00
D	Rock Construction Entrance	Each	2	\$ 24,270.00	\$ 48,540.00	1.6	\$38,832.00	80%	0	\$0.00	0	\$0.00	1.6	\$38,832.00
E	Silt Fence, Type MS	L.F.	3,600	\$ 4.20	\$ 15,120.00	0	\$0.00	0%	0	\$0.00	0	\$0.00	0	\$0.00
F	Sediment Control Log, Type Compost	L.F.	8,900	\$ 4.80	\$ 42,720.00	7120	\$34,176.00	80%	0	\$0.00	0	\$0.00	7120	\$34,176.00
G	Floating Silt Curtain	Each	1	\$ 1,390.00	\$ 1,390.00	0.8	\$1,112.00	80%	0	\$0.00	0.8	\$1,112.00	0	\$0.00
H	Inlet Protection	Each	6	\$ 317.00	\$ 1,902.00	5	\$1,585.00	83%	0	\$0.00	0	\$0.00	5	\$1,585.00
I	Street Sweeping	L.S.	1	\$ 7,170.00	\$ 7,170.00	0.8	\$5,736.00	80%	0	\$0.00	0.2	\$1,434.00	0.6	\$4,302.00
J	Temporary Stream Crossing	Each	1	\$ 18,270.00	\$ 18,270.00	1	\$18,270.00	100%	0	\$0.00	0	\$0.00	1	\$18,270.00
K	Clearing and Grubbing (Medium Density)	Acre	3	\$ 8,110.00	\$ 25,952.00	3.2	\$25,952.00	100%	0	\$0.00	0	\$0.00	3.2	\$25,952.00
L	Select Tree Removal and Salvage with Root Wad (8-12" Diameter)	Each	63	\$ 156.50	\$ 9,859.50	60	\$9,390.00	95%	0	\$0.00	0	\$0.00	60	\$9,390.00
L	Select Tree Removal and Salvage with Root Wad (Greater than 12" Diameter)	Each	63	\$ 197.00	\$ 12,411.00	63	\$12,411.00	100%	0	\$0.00	0	\$0.00	63	\$12,411.00
M	Channel Clean-up, Debris Removal and Disposal	L.S.	1	\$ 4,530.00	\$ 4,530.00	1	\$4,530.00	100%	0	\$0.00	0.5	\$2,265.00	0.5	\$2,265.00
N	Remove Storm Sewer (12" to 27" RCP and FES) - CO#2	L.F.	76.8	\$ 58.80	\$ 4,515.84	76.8	\$4,515.84	100%	0	\$0.00	0	\$0.00	76.8	\$4,515.84
O	Remove Storm Sewer Manhole (48" Diameter) - CO#2	Each	1	\$ 2,360.00	\$ 2,360.00	1	\$2,360.00	100%	0	\$0.00	0	\$0.00	1	\$2,360.00
P	Remove Bituminous Path	S.Y.	590	\$ 8.60	\$ 5,074.00	0	\$0.00	0%	0	\$0.00	0	\$0.00	0	\$0.00
Q	Furnish & Install Manhole (48" Diameter) - CO#2	Each	1	\$ 5,780.00	\$ 5,780.00	1	\$5,780.00	100%	0	\$0.00	0	\$0.00	1	\$5,780.00
Q	Furnish & Install Manhole (60" Diameter)	Each	2	\$ 8,040.00	\$ 16,080.00	2	\$16,080.00	100%	0	\$0.00	0	\$0.00	2	\$16,080.00
R	Connect to Existing Manhole	Each	1	\$ 1,950.00	\$ 1,950.00	1	\$1,950.00	100%	0	\$0.00	0	\$0.00	1	\$1,950.00
S	Salvage and Install Manhole Casting - CO#2	Each	1	\$ 710.00	\$ 710.00	1	\$710.00	100%	0	\$0.00	0	\$0.00	1	\$710.00
T	Furnish & Install Manhole Casting	Each	2	\$ 849.00	\$ 1,698.00	2	\$1,698.00	100%	0	\$0.00	0	\$0.00	2	\$1,698.00
U	Furnish & Install Storm Sewer, 15" RC Pipe Class III - CO#2	L.F.	29	\$ 100.00	\$ 2,880.00	28.8	\$2,880.00	100%	0	\$0.00	0	\$0.00	28.8	\$2,880.00
V	Furnish & Install Storm Sewer, 15" RC FES - CO#2	Each	1	\$ 2,890.00	\$ 2,890.00	1	\$2,890.00	100%	0	\$0.00	0	\$0.00	1	\$2,890.00
U	Furnish & Install Storm Sewer, 27" RC Pipe Class III	L.F.	27	\$ 159.00	\$ 4,293.00	27	\$4,293.00	100%	0	\$0.00	0	\$0.00	27	\$4,293.00
V	Furnish & Install Storm Sewer, 27" RC FES	Each	1	\$ 3,980.00	\$ 3,980.00	1	\$3,980.00	100%	0	\$0.00	0	\$0.00	1	\$3,980.00
U	Furnish & Install Storm Sewer, 36" RC Pipe Class III	L.F.	27	\$ 237.00	\$ 6,399.00	27	\$6,399.00	100%	0	\$0.00	0	\$0.00	27	\$6,399.00
V	Furnish & Install Storm Sewer, 36" RC FES	Each	2	\$ 6,780.00	\$ 13,560.00	2	\$13,560.00	100%	0	\$0.00	0	\$0.00	2	\$13,560.00
W	Common Excavation (P)	C.Y.	5,650	\$ 10.70	\$ 60,455.00	5650	\$60,455.00	100%	0	\$0.00	0	\$0.00	5650	\$60,455.00
X	Grading (P)	S.Y.	23,480	\$ 1.70	\$ 39,916.00	23480	\$39,916.00	100%	0	\$0.00	0	\$0.00	23480	\$39,916.00
Y	Furnish & Install Class II Fieldstone Riprap - CO#2	Ton	3,129	\$ 54.90	\$ 171,760.14	3101.6	\$170,277.84	99%	0	\$0.00	0	\$0.00	3101.6	\$170,277.84
Y	Furnish & Install Class III Fieldstone Riprap - CO#2	Ton	174	\$ 54.90	\$ 9,552.60	179.26	\$9,841.37	103%	0	\$0.00	0	\$0.00	179.26	\$9,841.37
Z	Furnish & Install Granular Filter Aggregate - CO#2	Ton	2,056	\$ 51.30	\$ 105,477.93	2056	\$105,472.80	100%	0	\$0.00	0	\$0.00	2056	\$105,472.80
AA	Furnish & Install Boulder Vane, no Footers - CO#2	L.F.	520	\$ 73.30	\$ 38,116.00	577	\$42,294.10	111%	0	\$0.00	0	\$0.00	577	\$42,294.10
AA	Furnish & Install Boulder Vane, with Footers - CO#2	L.F.	1,390	\$ 73.30	\$ 101,887.00	1356	\$99,394.80	98%	0	\$0.00	0	\$0.00	1356	\$99,394.80
BB	Install Log Vane - CO#2	Each	57	\$ 262.50	\$ 14,962.50	57	\$14,962.50	100%	0	\$0.00	0	\$0.00	57	\$14,962.50
CC	Install Toe Wood - CO#2	L.F.	513	\$ 45.80	\$ 23,472.50	541	\$24,777.80	106%	0	\$0.00	0	\$0.00	541	\$24,777.80
DD	Furnish & Install VRSS	L.F.	4,190	\$ 27.70	\$ 116,063.00	4563	\$126,395.10	109%	0	\$0.00	0	\$0.00	4563	\$126,395.10
EE	Import Topsoil	C.Y.	2,110	\$ 18.30	\$ 38,613.00	2110	\$38,613.00	100%	0	\$0.00	0	\$0.00	2110	\$38,613.00

1.04 Item	Description	Unit	Estimated Quantity	Unit Price	Extension	(1) Total Completed Through This Period		Percent Complete	(2) Total Completed During Period 1		(3) Total Completed During Period 2		(4) Total Completed This Period	
						Quantity	Amount		Quantity	Amount	Quantity	Amount	Quantity	Amount
FF	Seed Area	Acre	5	\$ 637.00	\$ 3,325.14	0	\$0.00	0%	0	\$0.00	0	\$0.00	0	\$0.00
GG	Cover Crop Seed Mix	Lbs.	140	\$ 1.70	\$ 238.00	0	\$0.00	0%	0	\$0.00	0	\$0.00	0	\$0.00
GG	Floodplain Forest Seed Mix	Lbs.	80	\$ 86.90	\$ 6,952.00	0	\$0.00	0%	0	\$0.00	0	\$0.00	0	\$0.00
GG	Upland Construction Seed Mix	Lbs.	17	\$ -	\$ -	0	\$0.00	0%	0	\$0.00	0	\$0.00	0	\$0.00
HH	Plant Shrub, Bare Root	Each	1,934	\$ 11.00	\$ 21,274.00	0	\$0.00	0%	0	\$0.00	0	\$0.00	0	\$0.00
HH	Plant Shrub, #2 Container	Each	309	\$ 64.30	\$ 19,868.70	0	\$0.00	0%	0	\$0.00	0	\$0.00	0	\$0.00
II	Plant Tree, Bare Root	Each	43	\$ 41.10	\$ 1,767.30	0	\$0.00	0%	0	\$0.00	0	\$0.00	0	\$0.00
II	Plant Tree, 2.5" Ball & Burlap	Each	53	\$ 666.00	\$ 35,298.00	0	\$0.00	0%	0	\$0.00	0	\$0.00	0	\$0.00
JJ	Furnish & Install Erosion Control Blanket Category 3N	S.Y.	20,000	\$ 2.40	\$ 48,000.00	20000	\$48,000.00	100%	0	\$0.00	0	\$0.00	20000	\$48,000.00
KK	Furnish & Install Straw Mulch	S.Y.	5,220	\$ 2.60	\$ 13,572.00	1088	\$2,828.80	21%	0	\$0.00	0	\$0.00	1088	\$2,828.80
LL	Bituminous Path	S.Y.	590	\$ 60.70	\$ 35,813.00	0	\$0.00	0%	0	\$0.00	0	\$0.00	0	\$0.00
MM	Furnish & Install Buffer Markers	Each	76	\$ 227.50	\$ 17,290.00	0	\$0.00	0%	0	\$0.00	0	\$0.00	0	\$0.00
NN	Vegetation Establishment and Warranty Period (Three Years)	L.S.	1	\$ 14,590.00	\$ 14,590.00	0	\$0.00	0%	0	\$0.00	0	\$0.00	0	\$0.00
PP	Import Boulders - CO#2	Ton	824	\$ 67.40	\$ 55,544.34	1047.74	\$70,617.68	127%	0	\$0.00	0	\$0.00	1047.74	\$70,617.68
Total Base Bid:					\$ 1,511,242.49									

Bid Add Alternate						(1) Total Completed Through This Period		Percent Complete	(5) Total Completed During Period 1		(6) Total Completed During Period 2		(7) Total Completed This Period	
Item	Description	Unit	Estimated Quantity	Unit Price	Extension	Quantity	Amount		Quantity	Amount	Quantity	Amount	Quantity	Amount
OO	Pre-Fabricated Pedestrian Birdge and Footings	L.S.	1	\$ 120,750.00	\$ 120,750.00	0.4	\$48,300.00	40%	0	\$0.00	0	\$0.00	0.4	\$48,300.00
Total Including Alternate:					\$ 1,631,992.49		\$1,350,946.63		\$46,273.50		\$116,507.00		\$1,188,166.13	

Change Order #2 Additions

1.04 Item	Description	Unit	Estimated Quantity	Unit Price	Extension	Quantity	Amount		Quantity	Amount	Quantity	Amount	Quantity	Amount
V	Furnish & Install Storm Sewer, 12" RC FES	L.S.	1	\$ 3,420.00	\$ 3,420.00	1	\$3,420.00	100%	0	\$0.00	0	\$0.00	1	\$3,420.00
QQ	Install geotextile fabric (based on planned quantity)	S.Y.	935	\$ 5.77	\$ 5,394.95	935	\$5,394.95	100%	0	\$0.00	0	\$0.00	935	\$5,394.95
RR	Import Common (load count based on 16 CY per load)	C.Y.	2000	\$ 38.22	\$ 76,440.00	3088	\$118,023.36	154%	0	\$0.00	0	\$0.00	3088	\$118,023.36
SS	Furnish & Install Class IV Fieldstone Riprap	Ton	220	\$ 62.10	\$ 13,662.00	110.78	\$6,879.44	50%	0	\$0.00	0	\$0.00	110.78	\$6,879.44
TT	Export Unsuitable Soil	C.Y.	300	\$ 49.27	\$ 14,781.00	588	\$28,970.76	196%	0	\$0.00	0	\$0.00	588	\$28,970.76
UU	Restocking of materials associated with storm structure (Sta. 40+19)	L.S.	1	\$ 3,690.95	\$ 3,690.95	1	\$3,690.95	100%	0	\$0.00	0	\$0.00	1	\$3,690.95
VV	Additional cost for storm sewer installation (Sta. 44+48)	L.S.	1	\$ 21,427.50	\$ 21,427.50	1	\$21,427.50	100%	0	\$0.00	0	\$0.00	1	\$21,427.50
XX	Toewood option 1 (Detail 3/D-11)	L.F.	0	\$ 45.80	\$ -	0	\$0.00	0%	0	\$0.00	0	\$0.00	0	\$0.00
YY	Toewood option 2 (Detail 4/D-11)	L.F.	0	\$ 78.60	\$ -	0	\$0.00	0%	0	\$0.00	0	\$0.00	0	\$0.00
ZZ	Cedar tree revetment (Per detail 5/D-11) (to be used in place of log vane as directed)	Each	0	\$ 998.00	\$ -	0	\$0.00	0%	0	\$0.00	0	\$0.00	0	\$0.00
Total of CO#2 Additions =					\$138,816.40		\$187,806.96		\$0.00		\$0.00		\$187,806.96	
Total Extensions					\$1,770,808.89		\$1,538,753.59		\$46,273.50		\$116,507.00		\$1,375,973.09	



18681 Lake Drive East
Chanhassen, MN 55317
952-607-6512
www.rpbcwd.org

Riley Purgatory Bluff Creek Watershed District Permit Application Review

Permit No: 2020-003

Considered at Board of Managers Meeting: April 1, 2020

Received complete: March 18, 2020

Applicant: TMSC of Chanhassen, LLC., Elizabeth Wright

Consultant: Civil Site Group, Robbie Latta

Project: The Moments of Chanhassen – The project proposes development of a 3.6-acre site in Chanhassen, MN. Proposed work includes construction of a 48-unit memory care residential facility with associated parking, grading, utilities, landscaping and stormwater management facilities. Stormwater management facilities including a filtration basin, infiltration basin, and a subsurface infiltration system will be constructed to provide volume control, water quality, and rate control.

Location: 1620-1660 Arboretum Blvd Chanhassen, MN 55317

Reviewer: Louise Heffernan and Scott Sobiech P.E., Barr Engineering

Proposed Board Action

Manager _____ moved and Manager _____ seconded adoption of the following resolutions based on the permit report that follows and the presentation of the matter at the April 1, 2020 meeting of the managers:

Resolved that the application for Permit 2020-003 is approved, subject to the conditions and stipulations set forth in the Recommendations section of the attached report;

Resolved that on determination by the RPBCWD administrator that the conditions of approval have been affirmatively resolved, the RPBCWD president or administrator is authorized and directed to sign and deliver Permit 2020-003 to the applicant on behalf of RPBCWD.

Upon vote, the resolutions were adopted, _____ [VOTE TALLY].

Applicable Rule Conformance Summary

Rule	Issue	Conforms to RPBCWD Rules?	Comments	
B	Floodplain Management and Drainage Alterations	See Comment	See stipulation #1.	
C	Erosion Control Plan	See Comment	See Rule Specific Permit Condition C1.	
D	Wetland and Creek Buffers	See Comment	See Rule Specific Permit Condition D1-D2.	
G	Waterbody Crossings	See Comment	See Rule Specific Permit Condition G1.	
J	Stormwater Management	Rate	Yes	
		Volume	Yes	See stipulation #3.
		Water Quality	Yes	
		Low Floor Elev.	See Comment	See Rule Specific Permit Condition J1.
		Maintenance	See Comment	See Rule Specific Permit Condition J2.
		Chloride Management	See Comment	See stipulation #6.
		Wetland Protection	Yes	
L	Permit Fee Deposit	Yes	\$3,000 received January 22, 2020	
M	Financial Assurances	See Comment	The financial assurance is calculated at \$451,601	

Background

The proposed project includes development of a 48-unit memory care residential facility with associated parking, grading, utilities, landscaping, an outfall to Riley Creek, and stormwater management facilities. The 3.6-acre site is currently undeveloped, and the open space is a combination of open grassland and wooded areas.

The project proposes construction of three stormwater management facilities to provide stormwater quantity, volume and rate quality control. A filtration basin proposed at the eastern side of the property will provide water quality, rate control and abstraction for the eastern portion of the proposed parking

areas and landscaping. The filtration basin has an elevated underdrain system to promote infiltration. A subsurface filtration system with elevated drain tile is proposed beneath a portion of the parking area and will accept runoff from the western portion of the parking area and the building roof. The subsurface system will consist of a tire derived aggregate (TDA) field which will allow for infiltration beneath an outlet that discharges to the City of Chanhassen storm sewer system along West 78th Street. TDA is a relative new practice in Minnesota for stormwater management. [A study from MnDOT \(http://www.dot.state.mn.us/research/TS/2013/201320TS.pdf\)](http://www.dot.state.mn.us/research/TS/2013/201320TS.pdf) states “Environmental concerns. In the 1990s, TDA’s impact on water quality was a significant concern. While laboratory studies suggest that in extreme conditions, chemicals from TDA can leach into groundwater in concentrations that exceed drinking water standards, field studies conducted since then—including a MnDOT project—have mitigated this concern somewhat and indicate that TDA fills should not affect off-site soil or groundwater quality. TDA use in water, however, is still not recommended.” A small infiltration basin is also proposed on the north side of the building to provide abstraction and water quality treatment prior to discharging to the onsite wetland.

One delineated wetland is located onsite north of the proposed building. Riley Creek is located along the northern site boundary. The 100-year floodplain of Riley Creek was found to inundate a portion of the property along the northern property boundary at varying elevations between approximately 945 to 952 feet (NGVD29). Because Riley Creek and a wetland are downgradient from the proposed land disturbing activities, wetland and creek buffer requirements apply to the proposed project.

The project site information is summarized below:

Project Site Information	Area (acres)
Total Site Area	3.6
Existing Impervious	0.01
Disturbed Impervious Area	0.01
Proposed Impervious Area	1.26
Change in Impervious Area	1.25
Regulated Impervious Area	1.26
Total Disturbed Area	2.88

Rule Specific Permit Conditions

Rule B: Floodplain Management and Drainage Alterations

Because the proposed project involves constructing a new outfall as well as grading and rip rap installation below the 100-year flood elevation of Riley Creek (945 NGVD29), the project activities must

conform to the RPBCWD's Floodplain Management and Drainage Alterations rule (Rule B). The 100-year flood elevations of Riley Creek along the northern site boundary are displayed on the plans (Rule B, Subsection 4.2).

The proposed low floor elevation of the building (958 feet) will be constructed in accordance with Rule J, Subsection 3.6 (Rule B, Subsection 3.1). The plans provide a cross-section showing the proposed outfall including existing and proposed ground surface below the 100-year floodplain. Because the project proposes to match existing elevations at the proposed outfall, the post-development conditions will result in no net change in the existing floodplain storage. Thus, the project conforms to Rule B, Subsection 3.2.

The proposed outfall includes a riprap stilling basin at the flared end section outlet prior to discharge into Riley Creek, thus reducing the velocity of the stormwater outflow to not alter the creek flows or channel stability in accordance with Rule B, Subsection 3.3.

The Applicant submitted an erosion control plan in conformance with Rule C, per Rule B, Subsection 3.5. A note on the plans indicates that activities must be conducted to minimize the potential transfer of aquatic invasive species conforming to Rule B, Subsection 3.5.

To conform to the RPBCWD Rule B requirements the following stipulation is recommended:

- B1. Proof that drainage and flowage easements over all land below the 100-year flood elevation have been conveyed to the municipality with jurisdiction, if required, needs to be submitted prior to project close out.

Rule C: Erosion Prevention and Sediment Control

Because the project will alter more than 50 cubic yards of material, the project must conform to the requirements in the RPBCWD Erosion Prevention and Sediment Control rule (Rule C, Subsection 2.1).

The erosion and sediment control plans prepared by Civil Site Group include installation of perimeter control (including redundant perimeter controls at the proposed wetland and creek buffer), inlet protection for storm sewer catch basins, a rock construction entrance, protection of stormwater management facilities, placement of a minimum of 6 inches of topsoil, decompaction of pervious areas compacted during construction, and retention of native topsoil onsite. To conform to RPBCWD Rule C requirements the following revisions are needed:

- C1. The Applicant must provide the name and contact information of the general contractor responsible for the site. RPBCWD must be notified if the responsible party changes during the permit term. This information is required prior to issuance of the permit.

Rule D: Wetland and Creek Buffers

Because the proposed work triggers a permit under RPBCWD Rules B, G, and J and Riley Creek and the onsite wetland are downgradient from the proposed construction activities, Rule D, Subsections 2.1a and 3.1 require buffer along the downgradient edge of the creek and wetland. Rule D, Subsections 3.1b and 3.1c require buffer on the edge of the wetland that is downgradient from the activity and on a streambank downgradient from the land-disturbing activity in accordance with Rule D, Subsection 3.2. No land disturbing activities are proposed within the onsite wetland.

Using the MNRAM functions and values assessment dated February 4, 2020 the onsite wetland was determined to be medium value. The land-disturbing activities are located upgradient from the medium value wetland requiring a 40-foot average, 20-foot minimum buffer width (Rule D, Subsection 3.2b.iii). RPBCWD Rule D, Subsection 3.2.b.v requires an average buffer width of 50 feet from the creek centerline, minimum 30 feet for a public waters watercourse. The Applicant provided a buffer plan and marker location map confirming that the proposed buffer area extends the required average widths. As shown in the table below, the required buffer width for the onsite wetland and Riley Creek conform to Rule B, Subsection 3.2.

Regulated Feature	RPBCWD Wetland Value	Required Minimum Width ¹ (ft)	Required Average Width ¹ (ft)	Provided Minimum Width (ft)	Provided Average Width (ft)
Riley Creek	N/A	30	50	73.2	84.7
Onsite Delineated Wetland	Medium	20	40	20.0	40.2

¹ Average and minimum required buffer width based on Rule D, Subsection 3.2.b.

The Applicant is proposing revegetating disturbed areas within the proposed buffer with native vegetation in conformance with Rule D, Subsection 3.3. The plans identify buffer marker locations and include a design detail in conformance with design and text provided by the District (Rule D, Subsection 3.4).

A note is included on the plan sheet indicating the project will be constructed so as to minimize the potential transfer of aquatic invasive species (e.g., zebra mussels, Eurasian watermilfoil, etc.) to the maximum extent possible conforming to Rule D, Subsection 3.6.

To conform to the RPBCWD Rule D the following revisions are needed:

- D1. The plans and specifications must identify the installation date of the buffer markers, which must be set to ensure protection of buffer area during and after land-disturbing activities. This information is needed prior to issuance of the permit (Rule D, Subsection 3.4a)
- D2. Buffer areas and maintenance requirements must be documented in a declaration recorded after review and approval by RPBCWD in accordance with Rule D, Subsection 3.5. The maintenance declaration must also include an exhibit clearly showing the buffer area and monument locations.

Rule G: Waterbody Crossings and Structures

Because the project proposes a new outfall structure along the bank of Riley Creek, a public watercourse, the project requires conformance with RPBCWD's Waterbody Crossings and Structures Rule (Rule G). The proposed work falls within the scope of Minnesota Department of Natural Resources General Permit #2015-1192. (Rule F: Stormwater and Streambank Stabilization is not triggered because the riprap being installed in bank of the creek is to prevent erosion more so than stabilize the bank and the relevant Rule F criteria are covered here, under Rule G.)

This work represents a demonstrated public benefit by maintaining existing drainage patterns and reducing pollutant loading to Riley Creek (Rule G, Subsection 3.1a).

The project plans incorporate a detail of the proposed outfall that require a small stilling basin be provided prior to the discharge entering Riley Creek. In addition, site runoff is conveyed to sump manholes and the proposed filtration basin with subsurface infiltration for entrapment of floatables, sedimentation, runoff retention and reduction of peak runoff rates to less than existing condition before the discharging to the creek, thus the design is in conformance with Rule G, Subsection 3.3.

Placement of the proposed outfall structure represents the minimal impact solution by minimizing concentrated overland flow which would exacerbate soil erosion potential and promote sediment discharge into the creek from upgradient sources. The proposed outfall design minimizes the discharge velocity by including a drop manhole structure and limits the site disturbance adjacent to the creek, both of which minimize erosion potential and thus meet criteria in Rule G, Subsection 3.5a. The project proposes to match existing elevations along the creek at the outfall to minimize encroachment and change along the creek. In addition, a portion of the stormwater runoff from the site is conveyed to the City of Chanhassen storm sewer system to reduce flow at the outfall. Thus, design is in conformance with Rule G, Subsection 3.5b.

As discussed in the Rule B narrative above, the propose project will comply with the District floodplain rule, as required by subsection 3.5c.

Based on the designed outfall discharge velocity, outlet invert elevation, energy dissipation design, riprap construction and proposed stabilization methods, the proposed outfall structure is not reasonably

likely to cause adverse effects to water quality and the physical or biological character of the waterbody, thus conforming to Rule G, Subsection 3.5d.

The project SWPPP includes a note directing the contractor that no work affecting the bed or banks of a protected water shall occur between March 15 and June 15 (Rule G, Subsection 3.7a). Disturbed areas near and along the banks will be immediately stabilized after completion of permitted work and revegetated as soon as growing conditions allow (Rule G, Subsection 3.7b). A note is included on the plan sheet indicating the project will be constructed so as to minimize the potential transfer of aquatic invasive species (e.g., zebra mussels, Eurasian watermilfoil, etc.) to the maximum extent possible (Rule G, Subsection 3.7c).

Plans submitted confirm that riprap is sized appropriately in relation to the erosion potential. Riprap is sized at 6 inches in diameter which is appropriately sized to withstand the designed discharge velocity of 3.5 feet per second, thus conforming to Rule F, Subsection 3.3b (i). Plans submitted confirm the proposed outfall construction along the bank of Riley Creek will follow the natural alignment of the bank and will not cover emergent vegetation (Rule F, Subsection 3.3b (ii) and 3.3b (iv)). The plans and details indicate that a transitional layer consisting of graded gravel, at least 6 inches deep with an appreciate geotextile fabric will be placed between the existing shoreline and rip rap, thus conforming to Rule F, Subsection 3.3b (iii). As shown in the riprap detail in the plans, the riprap is proposed to extend to the area around the top of the pipe below the Riley Creek 100-year floodplain elevation of 945 NGVD29, consistent with Rule F, Subsection 3.3b (v). The riprap design reflects energy dissipation and stabilization necessary to minimize erosion at the streambank and is not placed for cosmetic purposes per Rule F, Subsection 3.3b (vi).

To conform to the RPBCWD Rule G the following revisions are needed:

- G1. Permit applicant must provide a draft maintenance declaration for the outfall structure, in accordance with Rule G, Section 5.

Rule J: Stormwater Management

Because the project will disturb 2.9 acres of surface area, the project must meet the criteria of RPBCWD's Stormwater Management rule (Rule J, Subsection 2.1).

The project proposes construction of three stormwater management facilities to provide stormwater quantity, volume and rate quality control. A filtration basin proposed at the eastern side of the property will provide water quality, rate control and abstraction for the eastern portion of the proposed parking areas and landscaping. The filtration basin has an elevated underdrain system to promote infiltration. A subsurface filtration system with elevated drintile is proposed beneath a portion of the parking area and will accept runoff from the western portion of the parking area and the building roof. The subsurface system will consist of a tire derived aggregate (TDA) field which will allow for infiltration beneath an outlet that discharges to the City of Chanhassen storm sewer system along West 78th Street.

A small infiltration basin is also proposed on the north side of the building to provide abstraction and water quality treatment prior to discharging to the onsite wetland.

Pretreatment for the filtration basin is provided by a Rain Guardian Turret device which separates sediment from water flowing into the basin. Pretreatment to the subsurface TDA field infiltration basin is provided by sump catch basins while pretreatment to the small northern basin is provided by a vegetated filter strip.

Rate Control

In order to meet the rate control criteria listed in Subsection 3.1.a, the 2-, 10-, and 100-year post development peak runoff rates must be equal to or less than the existing discharge rates at all locations where stormwater leaves the site. The Applicant used a HydroCAD hydrologic model to simulate runoff rates for pre- and post-development conditions for the 2-, 10-, and 100-year frequency storm events using a nested rainfall distribution, and a 100-year frequency, 10-day snowmelt event. The existing and proposed 2-, 10-, and 100-year frequency discharges from the site are summarized in the table below.

Modeled Discharge Location	2-Year Discharge (cfs)		10-Year Discharge (cfs)		100-Year Discharge (cfs)		10-Day Snowmelt (cfs)	
	Ex	Prop	Ex	Prop	Ex	Prop	Ex	Prop
EX1/PR1 (Wetland/Creek)	3.2	2.2	6.7	4.5	13.9	9.4	0.5	0.3
EX2/PR2 (Adjacent Property)	0.5	0.3	1.1	0.7	2.3	1.4	0.1	<0.1
EX3/PR3 (78 th Street)	0.7	0.4	1.4	0.6	2.9	1.2	0.1	<0.1

The proposed stormwater management plan will provide rate control in compliance with the RPBCWD requirements for the 2-, 10-, and 100-year events. Thus, the proposed project meets the rate control requirements in Rule J, Subsection 3.1a.

Volume Abstraction

Subsection 3.1.b of Rule J requires the abstraction onsite of 1.1 inches of runoff from all impervious surface of the parcel. An abstraction volume of 5,049 cubic feet is required from the 1.26 acres (55,080 square feet) of impervious area on the project for volume retention. The Applicant proposes three stormwater management facilities to provide volume abstraction, a filtration basin with subsurface infiltration below an elevated underdrain, a subsurface TDA field with a subsurface infiltration area below the TDA field outlet, and a small infiltration basin north of the proposed building.

Soil borings performed by Haugo Geotechnical Services, Inc. dated January 5, 2018 show that soils onsite typically consist of Sandy Lean Clay fill with trace organic materials, gravel and wood over Sandy Lean Clay (CL) glacial till. The MN Stormwater Manual indicates an infiltration rate of 0.06 inches per hour for

sandy lean clay is appropriate based on the identification of Hydrologic Soil Group (HSG) Type D soils onsite. Soil borings performed by Haugo Geotechnical show groundwater identified in the soil borings at elevations ranging from 946 feet to 950 feet. Groundwater was not encountered in the soil boring taken at the location and elevation of the proposed filtration basin at the eastern side of the property. Groundwater was encountered in the soil borings located near the proposed subsurface infiltration system ranging from approximately 946 feet to 950 feet. The bottom of the proposed subsurface infiltration system is at an elevation of 963.00 feet. This indicates that groundwater is at least 3 feet below the bottom of the proposed stormwater management systems (Rule J, Subsection 3.1.b.ii.2). An abstraction volume of 5,787 cubic feet is provided by the three proposed infiltration systems. The table below summarizes the volume abstraction required and the volume abstraction achieved by the proposed stormwater management facilities on the site.

Stormwater Management System	Required Abstraction Depth (inches)	Required Abstraction Volume (cubic feet)	Provided Abstraction Depth (inches)	Provided Abstraction Volume (cubic feet)
Filtration/Infiltration Basin, East End of Site	1.1	669	2.6	1,557
Subsurface TDA Filtration/Infiltration System, Beneath West Parking Area	1.1	4,095	1.1	4,104
Small north infiltration basin	1.1	72	1.1	126
Total Site	1.1	5,049	1.2	5,787

The RPBCWD Engineer concurs that the volume abstraction provided by the proposed stormwater management facilities is in compliance with Rule J, Subsection 3.1b (i).

Pretreatment of runoff must be provided in accordance with the guidance in the Minnesota Stormwater Manual. Pretreatment for the filtration basin is provided by a Rain Guardian Turret device which separates sediment from water flowing into the basin. Pretreatment to the subsurface TDA field infiltration basin is provided by sump catch basins. Pretreatment devices are in conformance with Rule J, Subsection 3.1b.ii.1.

The proposed stormwater facilities provide adequate surface area to drawdown the abstraction volumes within the required 48 hour period, thus conforming with Rule J, Subsection 3.1.b.ii.3.

While the geotechnical report lists a suggested infiltration rate of 0.06 inches per hour based on soil classification, it does not contain infiltration or hydraulic conductivity testing results at the bottom of the infiltration facilities as required by Rule J, Subsection 3.1.b.ii.c. The applicant must submit documentation verifying the infiltration capacity of the soils and that the volume control capacity is calculated using the measured infiltration rate prior to project close-out. If infiltration capacity is less

than needed to conform with the volume abstraction requirement in subsection 3.1b, design modifications to achieve compliance with RPBCWD requirements will need to be submitted (in the form of an application for a permit modification or new permit).

Water Quality Management

Subsection 3.1.c of Rule J requires the Applicant provide volume abstraction in accordance with 3.1b or least 60 percent annual removal efficiency for total phosphorus (TP), and at least 90 percent annual removal efficiency for total suspended solids (TSS) from site runoff, and no net increase in TSS or TP loading leaving the site from existing conditions. Because the BMPs proposed by the applicant provide more volume abstraction than is require in accordance with 3.1b, the engineer concurs with the modeling, and finds that the proposed project is in conformance with Rule J, Subsection 3.1.c.

Low floor Elevation

No structure may be constructed or reconstructed such that its lowest floor elevation is less than 2 feet above the 100-year event flood elevation of a waterbody or stormwater management facility. No stormwater management system may be constructed or reconstructed in a manner that brings the low floor elevation of an adjacent structure into noncompliance according to Rule J, Subsection 3.6.

The low floor elevation of the proposed building and the adjacent stormwater management feature or waterbody are summarized below.

Stormwater Management Facility or Waterbody	Low Floor Elevation of Proposed Building (feet)	100-year Event Flood Elevation of Adjacent Stormwater Facility or Waterbody (feet)	Freeboard (feet)
Filtration Basin	958.00	953.89	4.11
Subsurface TDA Field Infiltration Basin	958.00	965.02	3.18
Riley Creek	958.00	952.1-945.00	13.00-5.9

While the RPBCWD Engineer concurs that the low floor of the proposed building is in compliance with Rule J, Subsection 3.6a relative to the 100-year elevations on Riley Creek, the proposed filtration basin, and the subsurface TDA field infiltration basin, there is only 0.44 feet separation between the proposed low floor and the emergency overflow from the small northern infiltration basin. No adjacent habitable buildings will be brought into noncompliance with standards in Rule J, Subsection 3.6b. Thus, to conform to the RPBCWD Rule J, Subsection 3.6 the following revision is needed:

- J1. Permit applicant must revise the design to provide at least one foot separation between the emergency overflow of the northern information basin and the proposed low floor of the structure and provide updated drawings.

Maintenance

Subsection 3.7 of Rule J requires the submission of a maintenance plan. All stormwater management structures and facilities must be designed for maintenance access and properly maintained in perpetuity to assure that they continue to function as designed. The stormwater management facilities include the filtration basin on the east side of the property, the subsurface TDA field infiltration system, small infiltration basin north of the building, sump manhole structures and the Rain Guardian Turret device. The Applicant must provide a draft maintenance and inspection declaration in conformance with Rule J, Subsection 3.7, for approval by RPBCWD staff prior to recordation. To conform to the RPBCWD Rule J the following revisions are needed:

- J2. Permit applicant must provide a maintenance and inspection declaration as required by Rule J, Subsection 3.7. A maintenance declaration template is available on the permits page of the RPBCWD website (<http://www.rpbcwd.org/permits/>). A draft declaration must be provided for District approval prior to recordation as a condition of issuance of the permit.

Chloride Management

Subsection 3.8 of Rule J requires the submission of chloride management plan that designates the individual authorized to implement the chloride management plan and the MPCA-certified salt applicator engaged in implementing the plan. To close out the permit and release the \$5,000 in financial assurance held for the purpose of chloride management, the permit applicant must provide a chloride management plan that designates the individual authorized to implement the chloride management plan and the MPCA-certified salt applicator engaged in implementing the plan at the site.

Wetland Protection

Subsection 3.10 of Rule J requires that no activity subject to this rule may alter a site in a manner that alters the bounce in water level, duration of inundation, or change the runout elevation in the subwatershed in which the site is located for any wetland receiving discharge directly from the site. The wetland is downgradient from land disturbing activities and receives sheet flow discharge from the patio on the north side of the proposed building and landscaping.

The Applicant used a HydroCAD hydrologic model to simulate runoff rates and flow depths for pre- and post-development conditions for applicable storm events specified in Table J1. Rule J, Subsection 3.10 identifies the permitted bounce for a 10-year event for a medium value wetland to be existing levels plus/minus 1.0 foot. The modeled inflow depths for the wetland pre- and post-development conditions for a 10-year event are 2.27 inches and 2.35 inches, respectively, providing 0.08 inches of bounce. Table J1 identifies a permitted change of 0 to 1.0 feet for runout control elevation change for a medium value wetland. Because no grading is proposed at the wetland outlet (approximately 951.80 feet at the northernmost elevation of the wetland boundary), the runout elevation will not change. Table J1 identifies the inundation period for 1- and 2-year events for a medium value wetland as the existing period plus two days, and the existing period plus 14 days for a 10-year event. The submitted hydrologic

models demonstrate that the duration of inundation has not been increased from existing conditions. The submitted materials demonstrate, and RPBCWD engineers concurs, that project is in conformance with Rule J, Subsection 3.10a for the medium value wetland at the site.

Rule J, Subsection 3.10b requires that treatment of runoff to wetlands meet at the water quality treatment criteria in Rule J, subsection 3.1c. The Applicant is proposing the construction of a small infiltration basin to abstract 1.1 inches of runoff from the tributary impervious area to demonstrate conformance with the wetland water quality protection criteria. Because the small infiltration basin proposed by the applicant provides the volume abstraction required in accordance with 3.1b, the engineer finds that the proposed project is in conformance with Rule J, Subsection 3.10b.

Rule L: Permit Fee Deposit:

The RPBCWD permit fee schedule adopted in February 2020 requires permit applicants to deposit \$3,000 to be held in escrow and applied to cover the \$10 permit-processing fee and reimburse RPBCWD for permit review and inspection-related costs and when a permit application is approved, the deposit must be replenished to the applicable deposit amount by the applicant before the permit will be issued to cover actual costs incurred to monitor compliance with permit conditions and the RPBCWD Rules. A permit fee deposit of \$3,000 was received on January 22, 2020.

Rule M: Financial Assurance:

Rules C: Silt fence and bio-logs: 4,000 L.F. x \$2.50/L.F. =	\$10,000
Inlet protection: 9 x \$100 =.....	\$900
Rock Entrance: 1.0 x \$900 =.....	\$900
Restoration: 2.9 acres x \$2,500/acre =	\$7,250
Rule D: Wetland and Creek Buffers: \$5,000=	\$5,000
Rules G & J: Stormwater Management Facilities and Creek Outfall: \$305,197 x 125% of engineer’s opinion of cost=	\$381,496
Chloride Management Plan: \$5,000	\$5,000
Contingency (10%)	<u>\$41,055</u>
Total Financial Assurance.....	\$451,601

Applicable General Requirements:

1. The RPBCWD Administrator shall be notified at least three days prior to commencement of work.
2. Construction shall be consistent with the plans and specifications approved by the District as a part of the permitting process. The date of the approved plans and specifications is listed on the permit.

3. Return or allowed expiration of any remaining surety and permit close out is dependent on the permit holder providing proof that all required documents have been recorded and providing as-built drawings that show that the project was constructed as approved by the Managers and in conformance with the RPBCWD rules and regulations.

Findings

1. The proposed project includes the information necessary, plan sheets and erosion control plan for review.
2. The proposed project will conform to Rules B, C, D, G and J if the Rule Specific Permit Conditions listed above are met.
3. Under Minnesota Department of Natural Resources General Permit 2015-1192 (attached to this report), approval of work under RPBCWD rule(s) G constitutes approval under applicable DNR work in waters rules. Compliance with conditions on approval and payment of applicable fees, if any, are necessary to benefit from general permit approval and the responsibility of the applicants.

Recommendation:

Approval, contingent upon:

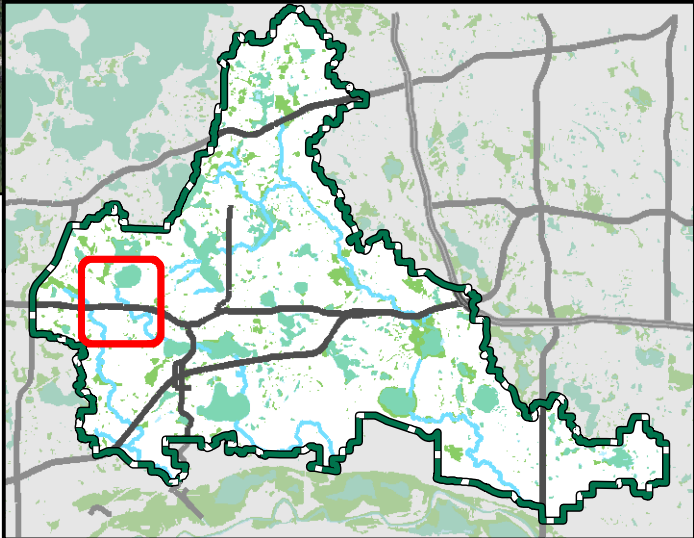
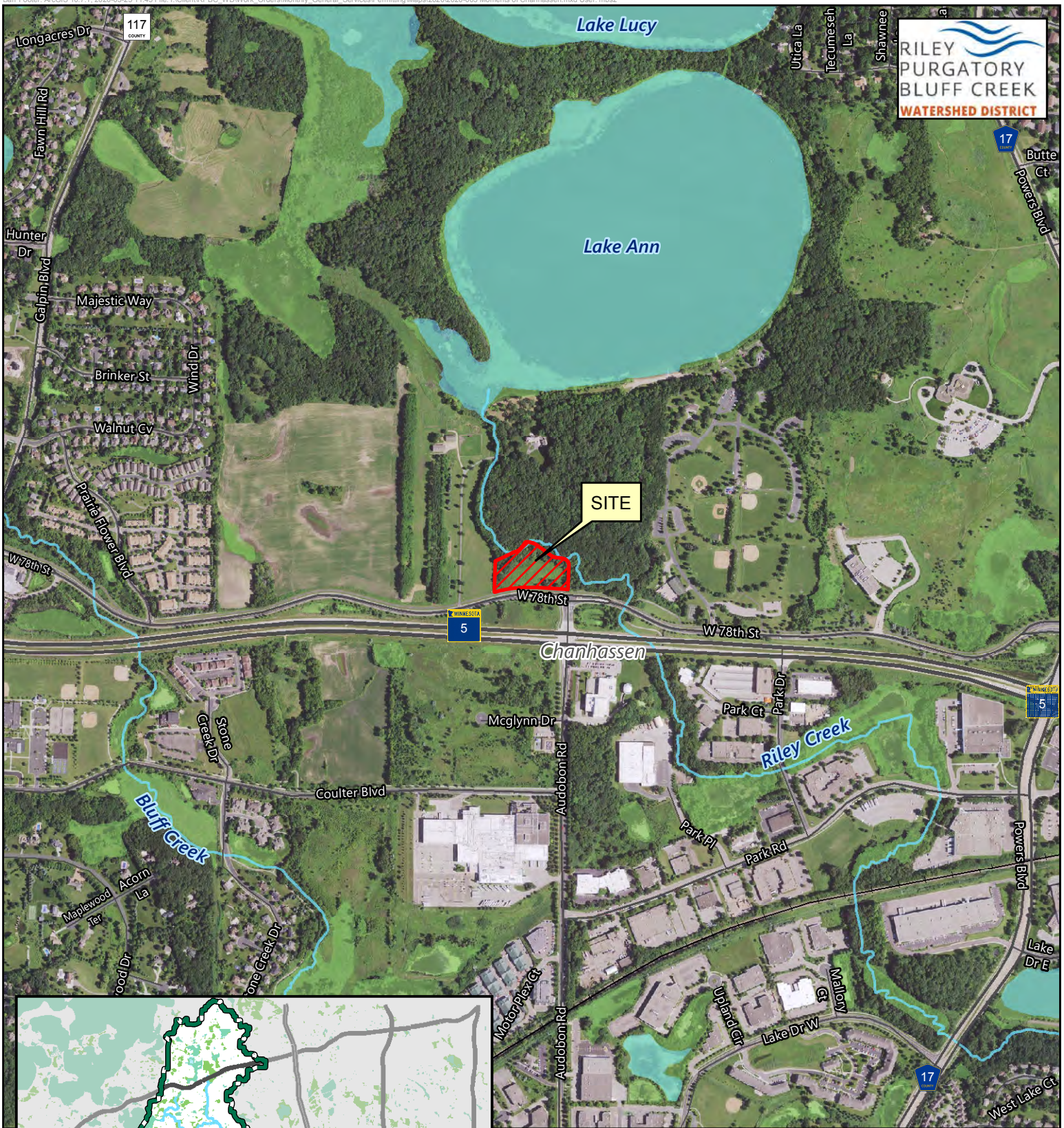
1. Continued compliance with General Requirements
2. Financial Assurance in the amount of \$451,601.
3. The applicant providing the name and contact information of the general contractor responsible for the site.
4. Permit applicant must revise the design to provide at least one foot separation between the emergency overflow of the northern information basin and the proposed low floor of the structure and provide updated drawings.
5. Receipt in recordation a maintenance declaration for the stormwater management facilities, buffer areas and proposed outfall structure. Drafts of all documents to be recorded must be approved by the District prior to recordation.
6. The permit fee deposit must be replenished to \$3,000 before the permit will be issued to cover actual costs incurred to monitor compliance with permit conditions and the RPBCWD Rules.

By accepting the permit, when issued, the applicant agrees to the following stipulations:

1. The applicant provides proof of recordation that drainage and flowage easements over all land below the 100-year flood elevation have been conveyed to the municipality with jurisdiction, if required.
2. Per Rule D, Subsection 3.4.a. the plans and specifications must identify the installation date, which must be set to ensure protection of buffer area during and after land-disturbing activities.

This information is required to be submitted by the contractor once the contractor has been determined.

3. Per Rule J, Subsection 3.1.b.ii measured infiltration capacity of the soils at the bottom of the infiltration systems must be provided. The applicant must submit documentation verifying the infiltration capacity of the soils and that the volume control capacity is calculated using the measured infiltration rate. If infiltration capacity is less than needed to conform with the volume abstraction requirement in subsection 3.1b, design modifications to achieve compliance with RPBCWD requirements will need to be submitted (in the form of an application for a permit modification or new permit).
4. Per Rule J Subsection 4.5, upon completion of the site work, the permittee must submit as-built drawings demonstrating that at the time of final stabilization, stormwater facilities (including surface and underground features) conform to design specifications as approved by the District.
5. The work on the Moments of Chanhassen parcel under the terms of permit 2020-003, if issued, must have an impervious surface area and configuration materially consistent with the approved plans. Design that differs materially from the approved plans (e.g., in terms of total impervious area) will need to be the subject of a request for a permit modification or new permit, which will be subject to review for compliance with all applicable regulatory requirements.
6. To close out the permit and release the \$5,000 in financial assurance held for the purpose of the chloride management, the permit applicant must provide a chloride management plan that designates the individual authorized to implement the chloride management plan and the MPCA-certified salt applicator engaged in implementing the plan at the site.
7. Replenish the permit fee deposit to the original amount or such lesser amount as the RPBCWD administrator deems sufficient within 45 days of receiving notice that such deposit is due in order to cover continued actual costs incurred to monitor compliance with permit conditions and the RPBCWD Rules.
8. The Department of Natural Resources General Permit #2015-1192 applies to authorize the work in Riley Creek as long as the permittee complies with the conditions of the general permit, which is attached to this report.



Permit Location Map

MOMENTS OF CHANHASSEN
Permit 2020-003
 Riley Purgatory Bluff Creek
 Watershed District



Feet





General Permit Number
2015-1192

Public Waters Work General Permit

Expiration Date: 05/20/2020

Pursuant to Minnesota Statutes, Chapter 103G, and on the basis of statements and information contained in the permit application, letters, maps, and plans submitted by the applicant and other supporting data, all of which are made part hereof by reference, **PERMISSION IS HEREBY GRANTED** to the applicant to perform actions as authorized below.

Project Name: Riley-Purgatory-Bluff Creek Watershed District	County: Hennepin and Carver	Watershed: Lower Minnesota River - Shakopee	Resource: All Public Waters within Riley-Purgatory-Bluff Creek Watershed
Purpose of Permit: Sediment Removal, Sand Blanket w/o Excavation, Sand Blanket w/ Excavation, Riprap (Natural Rock), Retaining Wall, Erosion Control/Stabilization Fill & Grading, Culvert Construction/Modification/Replacement, Bridge Construction/Modification/Replacement, Bioengineering		Authorized Action: Place natural rock riprap; shape banks/shorelines for placement of riprap or bioengineering; install beach sand blankets; construct retaining walls, bridges and culverts; remove structures; remove sediment; all in accordance with the Conditions of this permit.	
Permittee: Riparian Property Owners within Riley-Purgatory-Bluff Creek Watershed District		Authorized Agent: N/A	
Property Description (land owned or leased or where work will be conducted):			
Authorized Issuer: Tom Hovey	Title: Water Regulations Unit Supervisor	Issued Date: 09/22/2015	Effective Date: 09/22/2015
		Expiration Date: 05/20/2020	

This permit is granted **subject to** the following **CONDITIONS**:

APPLICABLE FEDERAL, STATE, OR LOCAL REGULATIONS: The permittee is not released from any rules, regulations, requirements, or standards of any applicable federal, state, or local agencies; including, but not limited to, the U.S. Army Corps of Engineers, Board of Water and Soil Resources, MN Pollution Control Agency, watershed districts, water management organizations, county, city and township zoning.

NOT ASSIGNABLE: This permit is not assignable by the permittee except with the written consent of the Commissioner of Natural Resources.

NO CHANGES: The permittee shall make no changes, without written permission or amendment previously obtained from the Riley-Purgatory-Bluff Creek Watershed District or the Commissioner of Natural Resources, in the dimensions, capacity or location of any items of work authorized hereunder.

SITE ACCESS: The permittee shall grant access to the site at all reasonable times during and after construction to authorized representatives of the Commissioner of Natural Resources for inspection of the work authorized hereunder.

TERMINATION: This permit may be terminated by the Commissioner of Natural Resources at any time deemed necessary for the conservation of water resources of the state, or in the interest of public health and welfare, or for violation of any of the conditions or applicable laws, unless otherwise provided in the permit.

GENERAL PERMIT CONDITIONS *(Continued from previous page)*

COMPLETION DATE: Construction work authorized under this permit shall be completed on or before the date specified above. The permittee may request an extension of the time to complete the project by submitting a written request, stating the reason thereof, to the Commissioner of Natural Resources.

WRITTEN CONSENT: In all cases where the permittee by performing the work authorized by this permit shall involve the taking, using, or damaging of any property rights or interests of any other person or persons, or of any publicly owned lands or improvements thereon or interests therein, the permittee, before proceeding, shall obtain the written consent of all persons, agencies, or authorities concerned, and shall acquire all property, rights, and interests needed for the work.

PERMISSIVE ONLY / NO LIABILITY: This permit is permissive only. No liability shall be imposed by the State of Minnesota or any of its officers, agents or employees, officially or personally, on account of the granting hereof or on account of any damage to any person or property resulting from any act or omission of the permittee or any of its agents, employees, or contractors. This permit shall not be construed as estopping or limiting any legal claims or right of action of any person other than the state against the permittee, its agents, employees, or contractors, for any damage or injury resulting from any such act or omission, or as estopping or limiting any legal claim or right of action of the state against the permittee, its agents, employees, or contractors for violation of or failure to comply with the permit or applicable conditions.

EXTENSION OF PUBLIC WATERS: Any extension of the surface of public waters from work authorized by this permit shall become public waters and left open and unobstructed for use by the public.

WETLAND CONSERVATION ACT: Where the work authorized by this permit involves the draining or filling of wetlands not subject to DNR regulations, the permittee shall not initiate any work under this permit until the permittee has obtained official approval from the responsible local government unit as required by the Minnesota Wetland Conservation Act.

INVASIVE SPECIES - EQUIPMENT DECONTAMINATION: All equipment intended for use at a project site must be free of prohibited invasive species and aquatic plants prior to being transported into or within the state and placed into state waters. All equipment used in designated infested waters, shall be inspected by the Permittee or their authorized agent and adequately decontaminated prior to being transported from the worksite. The DNR is available to train inspectors and/or assist in these inspections. For more information refer to the "Best Practices for Preventing the Spread of Aquatic Invasive Species" at http://files.dnr.state.mn.us/publications/ewr/invasives/ais/best_practices_for_prevention_ais.pdf. Contact your regional Invasive Species Specialist for assistance at www.mndnr.gov/invasives/contacts.html. A list of designated infested waters is available at www.mndnr.gov/invasives/ais/infested.html. A list of prohibited invasive species is available at www.mndnr.gov/eco/invasives/laws.html#prohibited.

CONSTRUCTION DEWATERING - GENERAL: All construction dewatering in excess of 10,000 gallons per day or one million gallons per year must be authorized by a separate water appropriation permit. All worksite discharge water must be treated for sediment reduction prior to return to the surface water. Water from designated infested waters shall not be diverted to other waters, transported on a public road, or transported or appropriated off property riparian to infested waters without a DNR permit specifically for this use. All equipment in contact with infested waters must be decontaminated upon leaving the site.

EROSION AND SEDIMENT CONTROL: In all cases, methods that have been determined to be the most effective and practical means of preventing or reducing sediment from leaving the worksite shall be installed in areas that slope to the water and on worksite areas that have the potential for direct discharge due to pumping or draining of areas from within the worksite (e.g., coffer dams, temporary ponds, stormwater inlets). These methods, such as mulches, erosion control blankets, temporary coverings, silt fence, silt curtains or barriers, vegetation preservation, redundant methods, isolation of flow, or other engineering practices, shall be installed concurrently or within 24 hours after the start of the project, and will be maintained for the duration of the project in order to prevent sediment from leaving the worksite. DNR requirements may be waived in writing by the authorized DNR staff based on site conditions, expected weather conditions, or project completion timelines.

EXCAVATED MATERIALS - FLOODPLAIN CONCERN: Excavated material shall not be permanently placed within community designated floodplain areas or shoreland areas, unless all necessary local permits and approvals have been obtained.

GENERAL PERMIT CONDITIONS (Continued from previous page)

AQUATIC PLANT MANAGEMENT: For projects where vegetation is placed waterward of the ordinary high water level, a separate Aquatic Plant Management (APM) permit is needed from the DNR Area Fisheries Manager. See contact list at: http://files.dnr.state.mn.us/fisheries/management/dnr_fisheries_managers.pdf. A permit shall be obtained (no fee required) for each site in order to monitor plant source, species, and planting location. Vegetation must be appropriate for the site and free of invasive species. This condition does not apply when only woody vegetation is used, such as willow and dogwood.

APPLICABLE PROJECTS: A project not meeting applicable conditions of this permit or a project the DNR identifies as having the potential for significant resource impacts, is not authorized herein. Rather, such projects will require an individual DNR permit application.

ENVIRONMENTAL REVIEW: If the project proposal is part of a project that requires mandatory environmental review pursuant to MN Environmental Quality Board rules, then the permit is not valid until environmental review is completed.

RETAINING WALLS: Retaining walls are generally discouraged because their impact on the near-shore aquatic environment can be severe and they restrict wildlife movement, however, they may be permitted if the following conditions are met: a. Existing or expected erosion problems shall preclude the use of riprap shore protection with a finished slope of 2:1 (horizontal to vertical) or more gentle, due to steep banks, nearby structures or other extenuating circumstances; or there shall be a demonstrated need for direct shoreland docking. b. Design shall be consistent with existing uses in the area. Examples are: riverfront commercial-industrial areas having existing structures of this nature, dense residential areas where similar retaining walls are common, or where barges are utilized to carry equipment and supplies. c. Adequate engineering studies shall be performed on foundation conditions, tiebacks, internal drainage, construction materials, and protection against flanking. d. The facility shall not be an aesthetic intrusion upon the area and is consistent with all applicable local, state, and federal management plans and programs for the water body. e. Encroachment below the ordinary high water elevation shall be limited to the absolute minimum necessary for construction.

ICE RIDGE REMOVAL: Ice ridge removal projects must meet the DNR "no permit required" conditions for ice ridge removal specified in Minn. Rules part 6115.0215, Subpart 4. If not, a DNR Individual permit is required as District rules do not address this category of project.

HYDROLOGIC / HYDRAULIC DATA REPORTING :: Unless waived by the DNR Area Hydrologist, hydrologic modeling to show the impacts of a bridge or culvert constructed in a Public Water to the 100-year flood elevation is required. Additional modeling may also be required for temporary fill or temporary structures required during demolition or construction. Calculations showing calculated velocities through the structures at 2-year peak flows may also be required.

FISHERY PROTECTION - EXCLUSION DATES: No activity affecting the bed of the protected water may be conducted between March 15 and April 15 on watercourses, or between April 1 and June 30 on all other waterbodies, to minimize impacts on fish spawning and migration. If work during this time is essential, it shall be done only upon written approval of the Area Fisheries Manager. See contact list at: http://files.dnr.state.mn.us/fisheries/management/dnr_fisheries_managers.pdf. Should work begin elsewhere in the project area within these dates, all exposed soils that are within 200 feet of Public Waters and drain to those waters must complete erosion control measures within 24 hours of its disturbance to prevent sediment from entering Public Waters.

REPORTING: The Riley-Purgatory-Bluff Creek Watershed District shall submit annually or as requested a summary report of the projects authorized under this General Permit to the Area Hydrologist.

CONSTRUCTION AIDS: No construction is allowed of temporary channel diversions or placement of fill for temporary work pads, bypass roads, access roads, or coffer dams to aid in the construction of any authorized structure unless approved in writing by the Area Hydrologist prior to beginning work.

FISH PASSAGE: Bridges, culverts and other crossings shall provide for fish movement unless the structure is intended to impede rough fish movement or the stream has negligible fisheries value as determined by the DNR Area Hydrologist in consultation with the Area Fisheries Manager. The accepted practices for achieving these conditions include: Where possible a single culvert or bridge shall span the natural bankfull width adequate to allow for debris and sediment transport rates to closely resemble those of upstream and downstream conditions. A single culvert shall be recessed in order to pass bedload and sediment load. Additional culvert inverts should be set at a higher elevation. All culverts should match the alignment and slope of the natural stream channel, and extend through the toe of the road side slope. "Where possible" means that other conditions may exist and could take precedence, such as unsuitable substrate, natural slope and background velocities, bedrock, flood control, 100 year flood elevations, wetland/lake level control elevations, local

GENERAL PERMIT CONDITIONS *(Continued from previous page)*

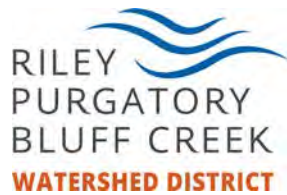
ditch elevations, and other adjacent features. Rock Rapids or other structures may be used to retrofit crossings to mimic natural conditions.

PHOTOS AND AS-BUILTS: Upon completion of the authorized work, the permittee may be required to submit a copy of established benchmarks, representative photographs, and may be required to provide as-built surveys of Public Watercourse crossing changes.

EXCAVATION OF PUBLIC WATERS: Excavation of Public Waters is authorized by this permit only when the proposed excavation is consistent with Minnesota Rules 6115.0200 and 6115.0201.

REMOVAL OF STRUCTURES: Removal of structures from public waters is authorized by this permit when the proposed removal is consistent with Minnesota Rules 6115.0211 subp. 8.

cc: Jeanne Daniels, EWR District Manager



18681 Lake Drive East
Chanhassen, MN 55317
952-607-6512
www.rpbcwd.org

Riley Purgatory Bluff Creek Watershed District Permit Application Review

Permit No: 2020-008

Considered at Board of Managers Meeting: April 1, 2020

Received complete: March 19, 2020

Applicant: Eden Ridge, LLC

Consultant: Hansen Thorp Pellinen Olson, Inc. (HTPO), Aaron Carrell

Project: Eden Ridge Residential Development –10 detached single-family homes on 4.3 acres of land located south of Valley View Road in Eden Prairie Road. Two infiltration basin along the entrance road will provide storm water runoff rate, volume and quality control.

Location: 15807 and 15817 Valley View Road, Eden Prairie, MN

Reviewer: Louise Heffernan, E.I.T. and Scott Sobiech, P.E., Barr Engineering

Proposed Board Action

Manager _____ moved and Manager _____ seconded adoption of the following resolutions based on the permit report that follows and the presentation of the matter at the April 1, 2020 meeting of the managers:

Resolved that the application for Permit 2020-008 is approved, subject to the conditions and stipulations set forth in the Recommendations section of the attached report;

Resolved that on determination by the RPBCWD administrator that the conditions of approval have been affirmatively resolved, the RPBCWD president or administrator is authorized and directed to sign and deliver Permit 2020-008 to the applicant on behalf of RPBCWD.

Upon vote, the resolutions were adopted, _____ [VOTE TALLY].

Applicable Rule Conformance Summary

Rule	Issue	Conforms to RBPCWD Rules?	Comments	
C	Erosion Control Plan	Yes		
J	Stormwater Management	Rate	Yes.	
		Volume	Yes.	
		Water Quality	Yes.	
		Low Floor Elev.	Yes.	
		Maintenance	See comment.	See rule-specific permit condition J1.
		Chloride Management	Yes.	
		Wetland Protection	NA	No wetlands have been identified on site.
L	Permit Fee Deposit	See comment.	\$1,800 was received on 2/18/2020	
M	Financial Assurance	See comment.	The financial assurance is calculated at \$110,316	

Background

The applicant is creating a 10 lot single-family home subdivision on 4.3 acres of land located at 15807 and 15817 Valley View Road. This proposed residential redevelopment will incorporate the construction of a cul-de-sac, which will be turned over to the city, with access to Valley View Road, water, sanitary sewer, and storm sewer facilities. The project also includes two infiltration basins located at the entrance to the development. The combination of these best management practices provides stormwater runoff rate, volume and quality control.

The project site information is summarized below:

	Project Site
Total Site Area (acres)	4.3
Existing Site Impervious (acres)	0.58
Disturbed Site Impervious Area (acres)	0.58 (100%)
New (Increase) in Site Impervious Area (acres)	1.28 (>100% increase)
Total Disturbed Area (acres)	3.57

Rule C: Erosion Prevention and Sediment Control

Because the project will involve 3.57 acres of land-disturbing activity, the project must conform to the requirements in the RPBCWD Erosion Prevention and Sediment Control rule (Rule C, Subsection 2.1). The erosion control plan prepared by HTPO includes installation of erosion control fence, inlet protection for storm sewer catch basins, a rock construction entrance, erosion control blanket, straw bio rolls, decompaction of areas compacted during construction, six inches of top soil, and retention of native topsoil onsite. The applicant indicated that Ralph Murphy of Homestead Partners (Cell: 651-338-5381 Office: 952-294-2118; Ralphm@homestead-partners.com) is the general contractor responsible for erosion prevention and sediment control for the site must be provided. The proposed project conforms to the Rule C criteria.

Rule J: Stormwater Management

Because the project will disturb 3.57 acres of land-surface area, the project must meet the criteria of RPBCWD’s Stormwater Management rule (Rule J, Subsection 2.1). The criteria listed in Subsection 3.1 will apply to the entire project site because the project will increase the imperviousness of the entire site by more than 100 percent (Rule J, Subsection 2.3).

The applicant is proposing construction of two infiltration basins to provide the rate control, volume abstraction and water quality management on the site. Pretreatment is being provided by sump manholes and vegetated filter strips.

Rate Control

In order to meet the rate control criteria listed in Subsection 3.1.a, the 2-, 10-, and 100-year post development peak runoff rates must be equal to or less than the existing discharge rates at all locations where stormwater leaves the site. The applicant used a HydroCAD hydrologic model to simulate runoff rates for pre- and post-development conditions for the 2-, 10-, and 100-year frequency storm events using a nested rainfall distribution, and a 100-year frequency, 10-day snowmelt event. The existing and proposed discharges from the site are summarized in the table below. The proposed project is in conformance with RPBCWD Rule J, Subsection 3.1.a.

Modeled Discharge Location	2-Year Discharge (cfs)		10-Year Discharge (cfs)		100-Year Discharge (cfs)		10-Day Snowmelt (cfs)	
	Ex	Prop	Ex	Prop	Ex	Prop	Ex	Prop
Valley View Road Stormsewer	1.1	.5	1.6	0.9	3.7	3.7	1.1	0.8
Valley View Road Overland	0.7	0.5	1.1	0.9	2.4	2.0	0.2	0.1
Southwest Corner	0	0	<0.1	<0.1	0.2	0.1	0.1	<0.1

Volume Abstraction

Subsection 3.1.b of Rule J requires the abstraction onsite of 1.1 inches of runoff from all impervious surface of the parcel. An abstraction volume of 4,994 cubic feet is required from the 1.28 acres of impervious area on the site for volume retention.

Soil borings performed by Haugo GeoTechnical Services on August 14, 2019 show that soils in the project area are primarily clayey sand and poorly graded sand. Soil borings at the proposed infiltration basin #1 show sandy lean clay. Infiltration testing performed were performed by Haugo GeoTechnical Services on November 4, 2019 at each proposed BMP location. The observed infiltration rates ranged between 2.2 to 5.4 inches per hour (in/hr). The engineer concurs with the applicants use of design infiltration rates of 1.1 and 1.3 in/hr beneath the infiltration basins based on rated measured at the site. With these infiltration rates, the infiltration BMPs will drawdown within the required 48 hours. The table below summarizes the volume abstraction for the site.

Required Abstraction Depth (inches)	Required Abstraction Volume (cubic feet)	Provided Abstraction Depth (inches)	Provided Abstraction Volume (cubic feet)
1.1	4,994	3.86	17,512

Because groundwater was not encountered in the soil borings while drilling and sampling or after auger removal from the boreholes, the required 3-foot separation between the groundwater elevation and bottom of the infiltration practice will be achieved. The engineer concurs with the modeling, and finds that the proposed project conforms with Rule J, Subsection 3.1.b.

Water Quality Management

Subsection 3.1.c of Rule J requires the Applicant provide volume abstraction in accordance with 3.1b or least 60 percent annual removal efficiency for total phosphorus (TP), and at least 90 percent annual removal efficiency for total suspended solids (TSS) from site runoff, and no net increase in TSS or TP loading leaving the site from existing conditions. Because the BMPs proposed by the applicant provide more volume abstraction than is require in accordance with 3.1b, the engineer concurs with the modeling, and finds that the proposed project is in conformance with Rule J, Subsection 3.1.c.

Low floor Elevation

No structure may be constructed or reconstructed such that its lowest floor elevation is less than 2 feet above the 100-year event flood elevation according to Rule J, Subsection 3.6. The low floor elevation of the homes and the adjacent stormwater management feature is summarized below.

Location Riparian to Stormwater Facility	Low Floor Elevation of Building (feet)	100-year Event Flood Elevation of Adjacent Stormwater Facility (feet)	Freeboard (feet)
Lot			
1	868.5	860.98	7.52
9	884	868.33	15.67
10	887.5	868.33	19.17

In addition, a stormwater-management facility must be constructed at an elevation that ensures that no adjacent habitable building will be brought into noncompliance with a standard in this subsection 3.6. The engineer concurs with the modeling provided by the applicant which demonstrates that the existing habitable structures to the east of infiltration basin #1 will provide more than the required 2 feet of freeboard separation. The RPBCWD Engineer concurs that the proposed project is in conformance with Rule J, Subsection 3.6.

Maintenance

Subsection 3.7 of Rule J requires the submission of a maintenance plan. All stormwater management structures and facilities must be designed for maintenance access and properly maintained in perpetuity to assure that they continue to function as designed.

- J1. Permit applicant must provide a maintenance and inspection declaration and documentation of recordation after approval by RPBCWD staff. A maintenance declaration template is available on the permits page of the RPBCWD website. (<http://www.rpbcwd.org/permits/>). A draft declaration must be provided for District review prior to recording.

Chloride Management

Subsection 3.8 of Rule J requires the submission of chloride management plan that designates the individual authorized to implement the chloride management plan and the MPCA-certified salt applicator engaged in implementing the plan. Under the policy in adopted resolution 2019-009, the RPBCWD chloride-management plan requirement applies to the streets and common areas of the project site, but not the individual single-family homes. Because the streets within the proposed residential development are within public right of way that will be maintained by the city of Eden Prairie and the City has provided its chloride management plan and its designated state-certified chloride applicator is Eden Prairie’s Streets Division Manager, Larry Doig, the proposed development conforms with Rule J, subsection 3.8.

Rule L: Permit Fee Deposit:

The RPBCWD permit fee schedule adopted in February 2020 requires permit applicants to submit a permit-fee deposit of \$3,000 to be held in escrow and applied to reimburse RPBCWD for the permit-application processing fee and permit review and inspection-related costs. When the permit application is approved, the deposit must be replenished to the applicable deposit amount by the applicant before

the permit will be issued to cover actual costs incurred to monitor compliance with permit conditions and the RPBCWD Rules. A permit fee deposit of \$1,800 was received on February 18, 2020.

Rule M: Financial Assurance:

Rules C: Silt fence: 1,470 L.F. x \$2.50/L.F. =	\$3,675
Inlet protection: 6 x \$100 =	\$600
Rock Entrance: 1 x \$900 =	\$900
Restoration: 3.57 acres x \$2,500/acre =	\$8,925
Rules J: Infiltration Basins: \$68,950 x 125% of engineer’s opinion of cost=	\$86,188
Contingency (10%)	<u>\$10,029</u>
Total Financial Assurance.....	\$110,316

Applicable General Requirements:

1. The RPBCWD Administrator and Engineer shall be notified at least three days prior to commencement of work.
2. Construction shall be consistent with the plans and specifications approved by the District as a part of the permitting process. The date of the approved plans and specifications is listed on the permit.
3. Return or allowed expiration of any remaining surety and permit close out is dependent on the permit holder providing proof that all required documents have been recorded and providing as-built drawings that show that the project was constructed as approved by the Managers and in conformance with the RPBCWD rules and regulations.

Findings

1. The proposed project includes the information necessary, plan sheets and erosion control plan for review.
2. The proposed project conforms to will conform to Rules C and J if the Rule Specific Permit Conditions listed above are met.

Recommendation:

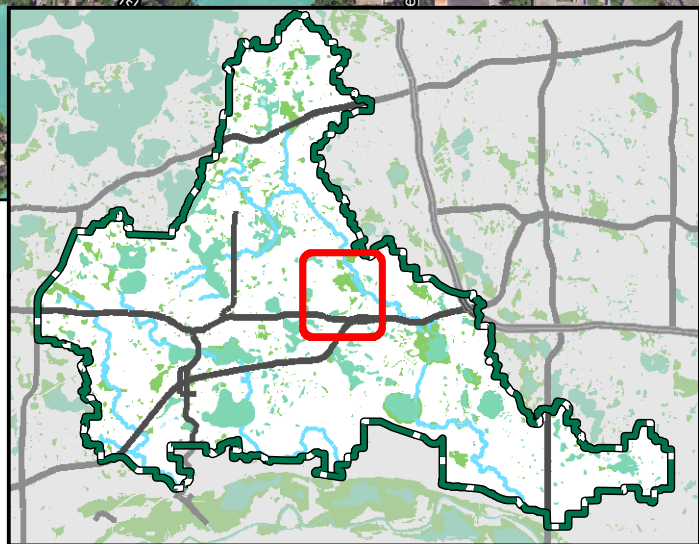
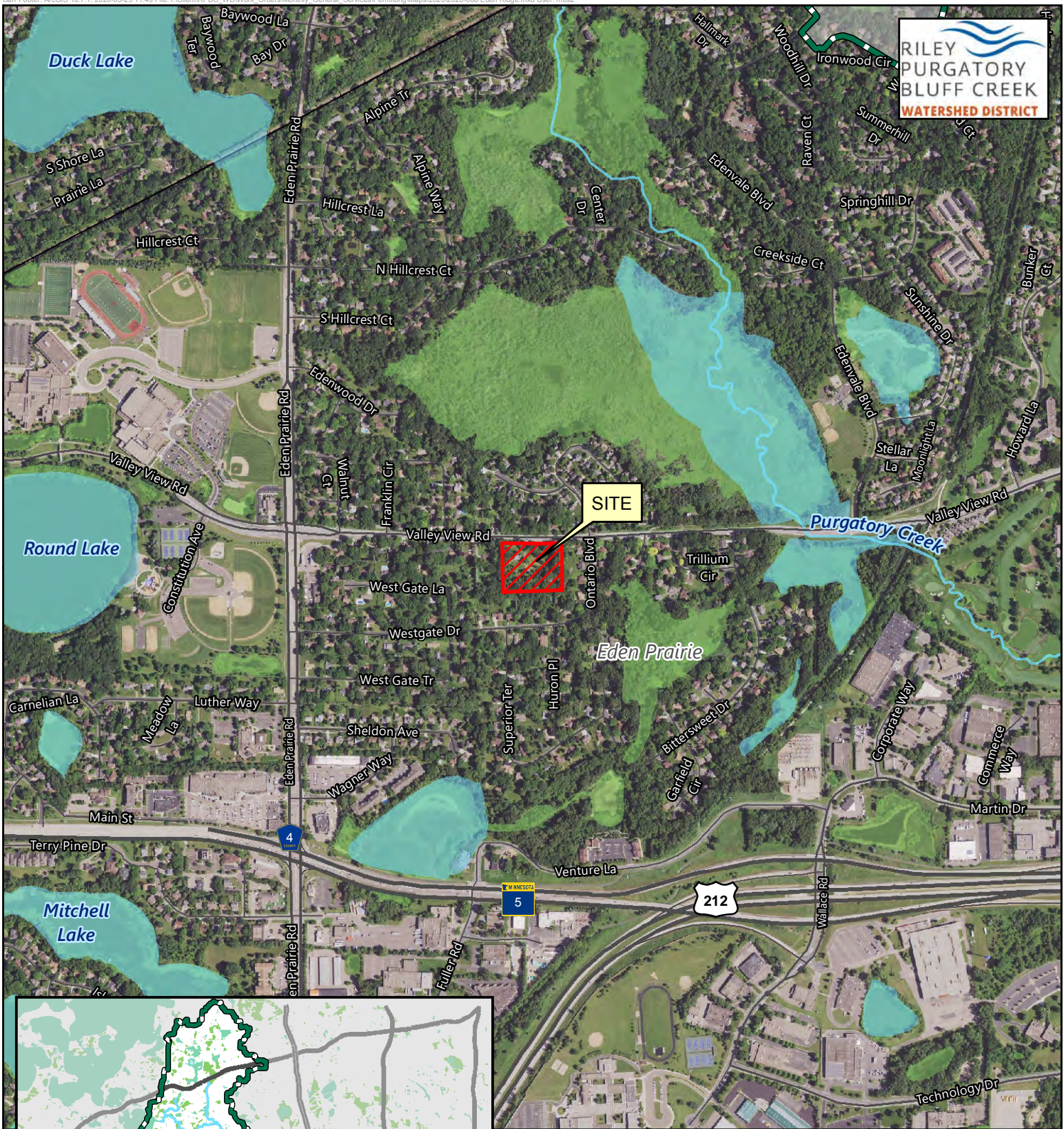
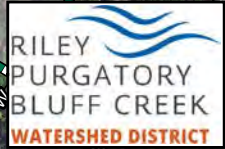
Approval, contingent upon:

1. Continued compliance with General Requirements
2. Financial Assurance in the amount of \$110,316.
3. Receipt of documentation of recordation of a maintenance declaration for the stormwater management facilities after approval by RPBCWD staff. Drafts of any and all documents to be recorded must be approved by the District prior to recordation.

4. Submission of an additional \$1,200 permit fee deposit and replenishment of the fee deposit to \$3,000 before the permit will be issued to cover actual costs incurred to monitor compliance with permit conditions and the RPBCWD Rules.

By accepting the permit, when issued, the applicant agrees to the following stipulations:

1. Per Rule J Subsection 4.5, upon completion of the site work, the permittee must submit as-built drawings demonstrating that at the time of final stabilization, stormwater facilities conform to design specifications as approved by the District.
2. The work on the Eden Ridge parcel under the terms of permit 2020-008, if issued, must have an impervious surface area and configuration materially consistent with the approved plans. Design that differs materially from the approved plans (e.g., in terms of total impervious area) will need to be the subject of a request for a permit modification or new permit, which will be subject to review for compliance with all applicable regulatory requirements.
3. Replenish the permit fee deposit to the original amount or such lesser amount as the RPBCWD administrator deems sufficient within 45 days of receiving notice that such deposit is due in order to cover continued actual costs incurred to monitor compliance with permit conditions and the RPBCWD Rules.
4. The applicant provide proof of recordation that drainage and flowage easements over all land below the 100-year flood elevation have been conveyed to the municipality with jurisdiction, if required.



Permit Location Map



Feet



EDEN RIDGE
Permit 2020-008
Riley Purgatory Bluff Creek
Watershed District

Memorandum

To: Riley-Purgatory-Bluff Creek Watershed District Board of Managers
From: Barr Engineering Co.
Subject: Duck Lake Subwatershed Rain Garden Construction Quotes– Recommendation to Award Project
Date: March 25, 2020
Project: 23270053.14 025B
c: Claire Bleser – RPBCWD Administrator

The RPBCWD's 2018 Watershed Management Plan (Planning for the Next 10 Years 2018-2027; Plan) and 2018 budget identified the Duck Lake DL_3 phosphorus load reduction project for implementation in 2018. RPBCWD staff attempted to coordinate this potential project with the city of Eden Prairie's planned reconstruction of Duck Lake Road. The City's current plan is to construct stormwater management facilities that are sufficient solely for their road reconstruction project needs rather than coordinating with the potential RPBCWD load reduction project. Therefore, RPBCWD staff identified a need for a subwatershed assessment and project implementation to identify and construct effective projects within the Duck Lake watershed to achieve the goals outlined in the 10-year plan.

Following the capital improvement process in the 10-year plan, a watershed assessment was conducted to identify opportunities for alternative stormwater management best management practices (BMPs) distributed throughout the Duck Lake Watershed. RPBCWD staff presented the results of the assessment at a public hearing on April 3, 2019. Following the public hearing, the RPBCWD Board of Managers ordered the project.

On March 3, 2020, a request for quotes was sent to the following seven companies for the rain garden construction portion of the project.

1. Blackstone Contractors LLC
2. Ecoscapes
3. Landbridge Ecological
4. Magnolia Landscapes
5. Minnesota Native Landscapes
6. Nelco Landscaping
7. Outdoor Lab Landscapes
8. Sunram Construction, Inc.

The number of rain gardens to be constructed was reduced from eight rain gardens trees as outlined in the assessment to two rain gardens based on the public interest. Two quotes were received by the 10:00 AM deadline on March 20, 2020. Table 1 summarizes the two quotes RPBCWD received for the 2020 Duck Lake Rain Garden Construction.

Table 1. Summary of Quotes Received for the 2020 Duck Lake Watershed Rain Garden Construction

Bidder	Total Base Bid Entered on the Bid Form¹
Blackstone Contractors, LLC	\$106,306.00
Sunram Construction, Inc.	\$59,973.00

¹Engineer's opinion of probable cost (OPC) was \$48,568.00.

The engineer finds that Sunram Construction, Inc. is the lowest responsible and responsive contractor providing a quote and recommends that the RPBCWD Board of Managers:

- **Award the project to LandBridge Ecological at the bid price of \$59,973.00.**
- **Authorize the Administrator to notify the contractor of the award, as well as signing the agreement and notice to proceed on satisfaction of all conditions precedent for each.**
- **Authorize the administrator to execute change orders increasing the contract price up to an aggregate total of 10% of the contract amount and adjusting the contract time as necessary to implement the project as ordered.**

If the Board of Managers decides to award the project the following next steps would be completed:

- Notify Sunram Construction, Inc. of the award
- Notify Blackstone Contractors LLC of the Board's decision to award to SunRam Construction, Inc.
- Sunram Construction, Inc. provides the following information:
 - Three fully executed counterparts of the Form of Agreement
 - Certificate of Insurance and all other required insurance documentation
- Administrator Bleser and Barr Engineering will coordinate with Sunram Construction, Inc. regarding the construction schedule
- Issue Notice to Proceed
- Construction is scheduled to be completed no later than June 26, 2020

Thursday, March 26, 2020

Memo

To: Board of Managers

From: Claire Bleser, Administrator

Date: March 26, 2020

Re: Human Resources Consulting

Following the recommendation of the Personnel Committee, I recommend that the Board of Managers authorize a contract with Barbara Strandell for human resources consulting services as follows:

Motion by Manager _____, seconded by Manager _____, to authorize the Administrator, with advice of legal counsel, to execute an agreement with Barbara Strandell for human resources consulting services in an amount not to exceed \$5,000.

Respectfully,



Claire Bleser
District Administrator



Responsive partner.
Exceptional outcomes.

March 24, 2020

Dr. Claire Bleser

District Administrator
Riley Purgatory Bluff Creek Watershed District
18681 Lake Dr E
Chanhassen, MN 55317

RE: Proposal to Review Aquatic Vegetation Management in Mitchell and Red Rock Lake

Dear Claire:

Thank you for the opportunity to provide this proposal to assist the Riley Purgatory Bluff Creek Watershed District (herein the "District") with the development of an update of aquatic vegetation management in Mitchell and Red Rock Lake. The update will focus on recent management activities, trends and changes in the aquatic vegetation community, and an update to management activities to accomplish established goals. The update will also provide recommendations to continue to build partnerships and coordinate activities with the City of Eden Prairie and Lake Associations. Wenck is uniquely positioned to help the District manage shallow lakes due to our staff expertise and involvement in state-wide shallow lake management groups. Wenck provides the following scope of work to complete the vegetation management updates.

Project Understanding

It is our understanding that the District would like to review aquatic vegetation management in Mitchell and Red Rock Lake as compared to the previously established management plans and update the management activities and goals as necessary. The primary objectives of this review is to summarize current conditions and trends in the vegetation community, summarize management activities accomplished since the develop of the management plans, evaluate the established goals for the vegetation community, and develop recommended actions for achieving the desired goals. The purpose of the update is to evaluate progress in achieving long-term vegetation management goals and improve strategies aimed at protecting the lakes' aesthetic and ecological values. Wenck proposes an ecosystem service approach to developing goals and objectives for the lake vegetation communities. This approach will help define specific goals for managing the lake vegetation community as well as quantifiable goals.

Wenck reviewed the data available for Mitchell and Red Rock Lake including plant and aquatic invasive species surveys conducted by the City of Eden Prairie and data collected by Ray Newman at the University of Minnesota. We are also aware that there were data collected by the District's previous Engineer and other selected contractors. Based on this initial review, there is a robust data set available to develop the aquatic management plan update.

Scope of Work

Based on our understanding of the project, Wenck offers the following scope of work.

Task 1. Summarize Aquatic Vegetation Data and Management Activities

The first task is to review all relevant data, reports and plans to identify available data, management actions and analyses to support the development of the review. We will also acquire all data at this stage including GIS files, Biobase files, relevant data, DNR permits and relevant reports. Wenck will also review data for primary stressors including fisheries, water quality, and water elevations. Following the data review, Wenck will summarize the list of current issues and any potential data gaps for assessing the vegetation management activities.

Deliverables

- Data summary for vegetation community, management actions, and potential stressors
- Summarized management activities conducted since the development of the management plans
- List of identified data gaps

Task 2. Summarize Current Aquatic Vegetation Conditions and Trends

The next step is to summarize the current vegetation conditions and trends in the lakes using metrics such as species richness, floristic quality, and indicator species. Trends in diversity and floristic quality will be evaluated as well as the extent and biovolume of the community. The goal of this task is to evaluate recent management actions effectiveness in making progress toward established vegetation goals. This task will also include a discussion of the current perception of the plant communities with residents, lake associations, and lake users.

Deliverables

- Summary of current lake vegetation community condition and trends
- Summary of local perceptions of the lake vegetation community

Task 3. Review and Update Aquatic Vegetation Management Goals

Significant advances in our understanding of healthy aquatic vegetation communities were developed since the last plan was completed. Statewide reference databases are now available from the MNDNR as well as recent studies highlighting reasonable expectations for healthy, diverse aquatic plant communities. Wenck will use these databases to develop reference lakes to develop a better understanding of potential outcomes for lake management. Wenck will also use recent studies to develop an understanding of the lakes' provision of ecosystem services. This task also includes some "visioning" for the aquatic plant community to visualize the goals and help residents understand the goals of the plan.

Deliverables

- Updated targets for the aquatic vegetation communities
- Visualizations of the current and potential aquatic vegetation communities

Task 4. Define Aquatic Vegetation Stressors

Included in the recent advances in our understanding of aquatic plant communities is a more developed understanding of the factors controlling plant diversity and health. Wenck will highlight the factors that may be limiting aquatic plant diversity in these lakes to help guide

management actions. While not all of these factors are well understood, they provide reasonable guidance for managing the aquatic vegetation community.

Deliverables

- Summary of stressors that may be affecting the aquatic vegetation plant community

Task 5. Develop Adaptive Management Framework to Achieve Aquatic Vegetation Community Targets

Wenck will review the current management approach and develop a list of potential long-term aquatic vegetation management options for pursuing the goals as outlined in the management plan. Methods deemed feasible after review with the District will then be developed as management options. Response variables necessary to gauge performance of each management method will also be identified. Once the potential lake response and management options are identified, Wenck will develop a decision matrix to provide a framework for guiding adaptive management based on monitoring data and the feasible management options.

Deliverables

- Adaptive management matrix to guide aquatic plant management in Mitchell and Red Rock Lake

Task 7. Reporting

Wenck will develop a draft and final report summarizing the results of the study including aquatic plant community visualization, management actions and goals, data gaps and future recommended analyses.

Deliverables

- Draft and final project reports

Task 8. Meetings

Wenck will prepare for and attend meetings to facilitate the completion of the aquatic vegetation management review. Wenck budgeted for the following meetings:

- One meeting with local residents, lake associations and lake users to gain input on current lake vegetation community condition as well as perceptions.
- 2 staff and local partner meetings as directed by District staff
- One Board meeting to present the results of the study

Deliverables

- Meeting preparation and attendance

Schedule

Wenck proposes the following schedule for completing the aquatic vegetation management review. A start date of April 15, 2020 was assumed for this project. We estimate the total time needed to complete the project to bar approximately 3 to 4 months.

Table 1. Proposed schedule assuming an April 15, 2020 start date.

Task	Activity	Completion Date
1	Summarize data and management activities	May 15, 2020
2	Summarize aquatic vegetation community and trends	May 15, 2020
3	Review and update management goals	June 1, 2020
4	Define aquatic vegetations stressors	June 1, 2020
5	Develop adaptive management framework	June 30, 2020
6	Reporting	July 31, 2020
7	Meetings	May 15, 2020 through July 31, 2020

Budget

Wenck proposes the following budget (Table 1). Wenck proposes to complete the work on a time and materials basis not to exceed the budget without written consent from the District.

Table 2. Proposed budget.

Task	Activity	Labor	Direct	Total
1	Summarize data and management activities	\$3,200	--	\$3,200
2	Summarize aquatic vegetation community and trends	\$4,080	--	\$4,080
3	Review and update management goals	\$4,360	--	\$4,360
4	Define aquatic vegetations stressors	\$2,880	--	\$2,880
5	Develop adaptive management framework	\$5,000	--	\$5,000
6	Reporting	\$10,320	--	\$10,320
7	Meetings	\$4,800	\$200	\$5,000
TOTAL		\$34,640	\$200	\$34,840

Thanks for the opportunity

On behalf of the 250+ employee-owners of Wenck, let us know if you need additional information about our qualifications. Wenck greatly appreciates assisting the RPBCWD and strives to ensure exceptional outcomes for your projects. Mr. Bischoff can be reached at 763-252-6829 or jbischoff@wenck.com if you have any further questions.

Sincerely,



Joe Bischoff, Principal
Wenck Associates, Inc.



March 25, 2020

Claire Bleser
District Administrator
Riley Purgatory Bluff Creek Watershed District
18681 Lake Drive E.
Chanhassen, Minnesota 55317

Dear Claire:

Enclosed please find the checks and Treasurer's Report for Riley Purgatory Bluff Creek Watershed District for the one month and two months ending February 29, 2020.

Please examine these statements and if you have any questions or need additional copies, please call me.

Sincerely,

REDPATH AND COMPANY, LTD.

A handwritten signature in black ink, appearing to read "Mark Gibbs", is written over a horizontal line.

Mark C. Gibbs, CPA
Enclosure



To The Board of Managers
Riley Purgatory Bluff Creek Watershed District
Chanhassen, Minnesota

Accountant's Opinion

The Riley Purgatory Bluff Creek Watershed District is responsible for the accompanying February 29, 2020 Treasurer's Report in the prescribed form. We have performed a compilation engagement in accordance with the Statements on Standards for Accounting and Review promulgated by the Accounting and Review Services Committee of AICPA. We did not audit or review the Treasurer's Report nor were we required to perform any procedures to verify the accuracy or completeness of the information provided by the Riley Purgatory Bluff Creek Watershed District. Accordingly, we do not express an opinion, a conclusion, nor provide any form of assurance on the Treasurer's Report.

Reporting Process

The Treasurer's Report is presented in a prescribed form mandated by the Board of Managers and is not intended to be a presentation in accordance with accounting principles generally accepted in the United States of America. The reason the Board of Managers mandates a prescribed form instead of GAAP (Generally Accepted Accounting Principles) is this format gives the Board of Managers the financial information they need to make informed decisions as to the finances of the watershed.

GAAP basis reports would require certain reporting formats, adjustments to accrual basis and supplementary schedules to give the Board of Managers information they need, making GAAP reporting on a monthly basis extremely cost prohibitive. An independent auditing firm is retained each year to perform a full audit and issue an audited GAAP basis report. This annual report is submitted to the Minnesota State Auditor, as required by Statute, and to the Board of Water and Soil Resources.

The Treasurer's Report is presented on a modified accrual basis of accounting. Expenditures are accounted for when incurred. For example, payments listed on the Cash Disbursements report are included as expenses in the Treasurer's Report even though the actual payment is made subsequently. Revenues are accounted for on a cash basis and only reflected in the month received.

REDPATH AND COMPANY, LTD.

A handwritten signature in black ink that reads "Redpath and Company, Ltd." in a cursive script.

St. Paul, Minnesota
March 25, 2020

RILEY PURGATORY BLUFF CREEK WATERSHED DISTRICT
Cash Disbursements
February, 2020

Accounts Payable:

<u>Check #</u>	<u>Payee</u>	<u>Amount</u>
5148	Abdo, Eick & Meyers	10,700.00
5149	Barr Engineering	78,376.23
5150	Carver Soil & Water Conservation	5,747.00
5151	CenterPoint Energy	430.49
5152	CenturyLink	390.40
5153	Coverall of the Twin Cities	316.76
5154	Custom Home Builders Title, LLC	66,394.00
5155	Dunn & Semington, LLC	251.08
5156	Fortin Consulting, Inc.	5,000.00
5157	Freshwater Society	5,000.00
5158	HealthPartners	4,941.62
5159	Amy Herbert, LLC	903.16
5160	Olivia R. Holstine	98.46
5161	Iron Mountain	129.95
5162	ISG - Accounts Receivable	353.75
5163	Metro Sales, Inc.	385.58
5164	Nine Mile Creek Watershed	196.00
5165	Principal Life Insurance Company	404.01
5166	ProTech	236.57
5167	Rachel Contracting, Inc.	1,339,841.89
5168	Redpath & Company	7,145.20
5169	Smith Partners	16,947.11
5170	Sunram Construction	38,520.48
5171	Xcel Energy	725.57
5172	CSM Financial, LLC	7,593.28
Total Accounts Payable:		<u><u>\$1,591,028.59</u></u>

Payroll Disbursements:

Payroll Processing Fee	197.55
Employee Salaries	34,997.68
Employer Payroll Taxes	2,697.43
Employer Benefits (H.S.A. Match)	375.00
Employee Benefit Deductions	(294.10)
Staff Expense Reimbursements	354.33
PERA Match	2,637.15
Total Payroll Disbursements:	<u><u>\$40,965.04</u></u>

VISA	3,534.34
Ck. #5154 - Custom Home Builders-Surety	(66,394.00)

TOTAL DISBURSEMENTS: **\$1,569,133.97**

Memos

The 2020 mileage rate is .575 per mile. The 2019 rate was .58
 Old National VISA will be paid on-line.

RILEY PURGATORY BLUFF CREEK WATERSHED DISTRICT
Fund Performance Analysis - Table 1
February 29, 2020

	2020 Budget	Fund Transfers	Revised 2020 Budget	Current Month	Year-to-Date	Year-to Date Percent of Budget
REVENUES						
Plan Implementation Levy	\$3,703,000.00	-	\$3,703,000.00	-	-	0.00%
Permit	25,000.00	-	25,000.00	4,800.00	7,850.00	31.40%
Grant Income	346,719.00	-	346,719.00	-	-	0.00%
Investment Income	75,000.00	-	75,000.00	13,264.03	21,278.94	28.37%
Past Levies	3,699,097.00	-	3,699,097.00	-	-	0.00%
Partner Funds	432,000.00	-	432,000.00	-	-	0.00%
TOTAL REVENUE	\$8,280,816.00	-	\$8,280,816.00	\$18,064.03	\$29,128.94	0.35%
EXPENDITURES						
Administration						
Accounting and Audit	\$42,000.00	-	\$42,000.00	\$18,042.75	21,649.03	51.55%
Advisory Committees	5,000.00	-	5,000.00	-	-	0.00%
Insurance and bonds	20,000.00	-	20,000.00	-	-	0.00%
Engineering Services	109,000.00	-	109,000.00	8,927.50	16,853.50	15.46%
Legal Services	84,000.00	-	84,000.00	12,469.29	19,047.61	22.68%
Manager Per Diem/Expense	20,000.00	-	20,000.00	393.87	648.93	3.24%
Dues and Publications	14,000.00	-	14,000.00	-	9,000.00	64.29%
Office Cost	150,000.00	-	150,000.00	10,149.00	27,176.66	18.12%
Permit Review and Inspection	135,000.00	-	135,000.00	17,103.56	31,414.96	23.27%
Permit and Grant Database	39,900.00	-	39,900.00	-	-	0.00%
Recording Services	17,000.00	-	17,000.00	903.16	2,274.48	13.38%
Staff Cost	600,000.00	-	600,000.00	40,646.90	86,990.95	14.50%
Subtotal	\$1,235,900.00	-	\$1,235,900.00	\$108,636.03	\$215,056.12	17.40%
Programs and Projects						
District Wide						
10-year Management Plan	\$5,000.00	-	\$5,000.00	\$1,507.77	3,605.73	72.11%
AIS Inspection and early response	85,000.00	-	85,000.00	-	763.14	0.90%
Cost-share	398,723.00	-	398,723.00	7,489.59	8,529.95	2.14%
Data Collection and Monitoring	192,000.00	-	192,000.00	9,928.89	18,831.44	9.81%
Community Resiliency	63,130.00	-	63,130.00	-	1,669.00	2.64%
Education and Outreach	123,000.00	-	123,000.00	13,500.39	25,523.44	20.75%
Plant Restoration - U of M	58,762.00	-	58,762.00	-	-	0.00%
Repair and Maintenance Fund *	267,730.00	-	267,730.00	40,115.48	41,342.48	15.44%
Wetland Management*	165,685.00	-	165,685.00	135.90	1,036.19	0.63%
Groundwater Conservation*	179,750.00	-	179,750.00	-	-	0.00%
Lake Vegetation Implementation	125,937.00	-	125,937.00	-	-	0.00%
Opportunity Project*	287,501.00	-	287,501.00	353.75	2,870.00	1.00%
Stormwater Ponds - U of M	79,985.00	-	79,985.00	-	10,930.96	13.67%
Hennepin County Chloride Initiative	114,830.00	-	114,830.00	-	1,656.80	1.44%
Lower Minnesota Chloride Cost-Share	217,209.00	-	217,209.00	-	-	0.00%
Subtotal	\$2,364,242.00	-	\$2,364,242.00	\$73,031.77	\$116,759.13	4.94%
Bluff Creek						
Bluff Creek Tributary*	65,037.00	-	65,037.00	660.90	8,514.36	13.09%
Wetland Restoration at Pioneer	308,674.00	-	308,674.00	12,745.90	18,782.18	6.08%
Subtotal	\$373,711.00	-	\$373,711.00	\$13,406.80	\$27,296.54	7.30%
Riley Creek						
Lake Riley - Alum Treatment*	305,000.00	-	305,000.00	697.98	697.98	0.23%
Rice Marsh Lake in-lake phosphorus load	60,568.00	-	60,568.00	-	1,049.05	1.73%
Rice Marsh Lake Water Quality Improvement Phase 1	300,000.00	-	300,000.00	-	-	0.00%
Riley Creek Restoration (Reach E and D3)	1,592,925.00	-	1,592,925.00	1,357,609.77	1,477,544.77	92.76%
Lake Riley & Rice Marsh Lake Subwatershed Assessment	29,961.00	-	29,961.00	-	11,797.84	39.38%
Upper Riley Creek Stabilization	1,100,000.00	-	1,100,000.00	-	-	0.00%
Middle Rice Creek	-	18,900.00	18,900.00	8,997.50	14,034.95	74.26%
Lake Ann Wetland Restoration	150,000.00	-	150,000.00	-	-	0.00%
St. Hubert Water Quality Project	-	-	-	-	-	---
Subtotal	\$3,538,454.00	\$18,900.00	3,557,354.00	\$1,367,305.25	\$1,505,124.59	42.31%
Purgatory Creek						
Purgatory Creek Rec Area- Berm/retention area - feasibility/design	50,000.00	-	50,000.00	-	366.50	0.73%
Lotus Lake in-lake phosphorus load control	104,106.00	-	104,106.00	-	1,049.05	1.01%
Silver Lake Restoration - Feasibility Phase 1	255,931.00	-	255,931.00	5,625.62	10,039.62	3.92%
Scenic Heights	55,459.00	-	55,459.00	-	493.50	0.89%
Hyland Lake in-lake phosphorus load control	1,388.00	-	1,388.00	-	-	0.00%
Duck Lake watershed load	125,422.00	-	125,422.00	1,128.50	2,761.00	2.20%
Mitchell Lake Subwatershed Assessment	46,203.00	-	46,203.00	-	13,097.84	28.35%
Lotus Lake Kerber Pond	30,000.00	-	30,000.00	-	-	0.00%
Subtotal	\$668,509.00	\$0.00	668,509.00	\$6,754.12	\$27,807.51	4.16%
Reserve	\$100,000.00	(\$18,900.00)	81,100.00	\$0.00	-	0.00%
TOTAL EXPENDITURE	\$8,280,816.00	\$0.00	\$8,280,816.00	\$1,569,133.97	\$1,892,043.89	22.85%
EXCESS REVENUES OVER (UNDER) EXPENDITURES	\$0.00	\$0.00	\$0.00	(\$1,551,069.94)	(\$1,862,914.95)	

*Denotes Multi-Year Project - See Table 2 for details

RILEY PURGATORY BLUFF CREEK WATERSHED DISTRICT

Multi-Year Project Performance Analysis - Table 2

February 29, 2020

	Total Project	FUNDING SOURCE			Month Ended 02/29/20	Year To-Date	Lifetime Costs	Remaining
		District funds	Partner Fund	Grants				
Programs and Projects								
District Wide								
Community Resiliency	98,000.00	98,000.00	-	-	-	1,669.00	36,538.50	61,461.50
Repair and Maintenance Fund	277,005.00	277,005.00	-	-	40,115.48	41,342.48	75,617.98	201,387.02
Wetland Management	200,000.00	200,000.00	-	-	135.90	1,036.19	60,351.25	139,648.75
Groundwater Conservation	180,000.00	180,000.00	-	-	-	-	250.00	179,750.00
Opportunity Project*	300,000.00	300,000.00	-	-	353.75	2,870.00	15,369.00	284,631.00
Stormwater Ponds - U of M	106,092.00	64,092.00	42,000.00	-	-	10,930.96	37,037.97	69,054.03
Hennepin County Chloride Initiative	120,800.00	19,000.00	-	101,800.00	-	1,656.80	7,627.11	113,172.89
Lower Minnesota Chloride Cost-Share	217,209.00	20,000.00	-	197,209.00	-	-	-	217,209.00
Subtotal	\$1,499,106.00	\$1,158,097.00	\$42,000.00	\$299,009.00	\$40,605.13	\$59,505.43	\$232,791.81	1,266,314.19
Bluff Creek								
Bluff Creek Tributary*	292,362.00	242,362.00	50,000.00	-	660.90	8,514.36	330,227.14	(37,865.14)
Wetland Restoration at Pioneer	857,820.00	450,000.00	-	407,820.00	12,745.90	18,782.18	567,930.20	289,889.80
Subtotal	\$1,150,182.00	\$692,362.00	\$50,000.00	\$407,820.00	\$13,406.80	\$27,296.54	\$898,157.34	\$252,024.66
Riley Creek								
Lake Riley - Alum Treatment 1st dose *	560,000.00	560,000.00	-	-	697.98	697.98	255,697.81	304,302.19
Rice Marsh Lake in-lake phosphorus load	150,000.00	150,000.00	-	-	-	1,049.05	90,481.86	59,518.14
Rice Marsh WQ 1	300,000.00	300,000.00	-	-	-	-	-	300,000.00
Riley Creek Restoration (Reach E and D3) *	1,915,000.00	1,615,000.00	300,000.00	-	1,357,609.77	1,477,544.77	1,745,677.04	169,322.96
Lake Riley & Rice Marsh Lake Subwatershed Assessment	72,500.00	12,500.00	5,000.00	55,000.00	-	11,797.84	54,336.81	18,163.19
Upper Riley Creek Stabilization	450,000.00	1,100,000.00	0.00	-	-	-	-	450,000.00
Subtotal	\$3,447,500.00	\$3,737,500.00	\$305,000.00	\$55,000.00	\$1,358,307.75	\$1,491,089.64	\$2,146,193.52	\$1,301,306.48
Purgatory Creek								
Purgatory Creek Rec Area- Berm/retention area - feasibility/design	50,000.00	50,000.00	-	-	-	366.50	366.50	49,633.50
Lotus Lake in-lake phosphorus load control	345,000.00	345,000.00	-	-	-	1,049.05	241,942.39	103,057.61
Silver Lake Restoration Project WQ1	268,013.00	268,013.00	-	-	5,625.62	10,039.62	22,121.45	245,891.55
Scenic Heights	260,000.00	165,000.00	45,000.00	50,000.00	-	493.50	205,034.75	54,965.25
Hyland Lake Internal Load	150,000.00	130,000.00	20,000.00	-	-	-	128,612.41	21,387.59
Duck Lake watershed load	220,000.00	220,000.00	0.00	0.00	1,128.50	2,761.00	97,338.02	122,661.98
Mitchell Lake Subwatershed Assessment	87,500.00	12,500.00	5,000.00	70,000.00	-	13,097.84	54,394.48	33,105.52
Subtotal	\$1,380,513.00	\$1,190,513.00	\$70,000.00	\$120,000.00	\$6,754.12	\$27,807.51	\$749,810.00	\$630,703.00
Total Multi-Year Project Costs	\$7,477,301.00	\$6,778,472.00	\$467,000.00	\$881,829.00	\$1,419,073.80	\$1,605,699.12	\$4,026,952.67	\$3,450,348.33

Riley Purgatory Bluff Creek Watershed District
Balance Sheet
As of February 29, 2020

ASSETS

Current Assets

General Checking-Old National	\$716,578.02
Checking-Old National/BMW	1,373,256.03
Investments-Standing Cash	280,019.91
Investments-Wells Fargo	4,923,439.60
Accrued Investment Interest	21,874.72
Due From Other Governments	90,021.73
Taxes Receivable-Delinquent	36,003.36
Pre-Paid Expense	24,742.32
Security Deposits	7,244.00

Total Current Assets: \$7,473,179.69

LIABILITIES AND CAPITAL

Current Liabilities

Accounts Payable	\$2,117,073.18
Retainage Payable	12,521.39
Salaries Payable	19,486.59
Permits & Sureties Payable	642,037.00
Deferred Revenue	36,003.36

Total Current Liabilities: \$2,827,121.52

Capital

Fund Balance-General	\$5,166,684.23
Carryover - 2019	\$1,342,288.89
Net Income	(1,862,914.95)

Total Capital \$4,646,058.17

Total Liabilities & Capital \$7,473,179.69

RILEY PURGTORY BLUFF CREEK WATERSHED DISTRICT
OLD NATIONAL BANK VISA ACTIVITY
February 29, 2020

DATE	PURCHASED FROM	AMOUNT	DESCRIPTION	ACCOUNT #	RECEIPT
02/11/20	Jimmy Johns	64.40	Team Regroup	10-00-4321	Y
02/11/20	Microsoft	134.41	Technology	10-00-4203	Y
02/13/20	USPS	8.50	Postage	10-00-4280	Y
02/13/20	Kowalski's	16.47	Office Supplies	10-00-4200	Y
02/21/20	Verizon	374.03	Telecommunications	10-00-4220	Y
02/25/20	Office Depot	106.42	Office Supplies	10-00-4200	Y
02/26/20	Randy's Sanitation	99.42	Office Upkeep	10-00-4215	Y
02/26/20	Amazon	6.99	Office Supplies	10-00-4200	Y
02/26/20	Amazon	29.65	Office Supplies	10-0-04200	Y
02/28/20	USPS	38.75	Postage	10-00-4280	Y
03/01/20	Amazon	63.30	Office Supplies	10-00-4200	Y
03/04/20	Best Name Badges	125.00	Office Supplies	10-00-4200	Y
03/04/20	Amazon	71.35	Office Supplies	10-00-4200	Y
03/04/20	Adobe	16.10	Software	10-0-04203	Y
03/05/20	Amazon	39.52	Office Supplies	10-00-4200	Y
03/10/20	Microsoft	134.41	Software	10-00-4203	Y
03/10/20	MAWD	300.00	Manager Registration	10-00-4010	Y
03/11/20	MAWD	(100.00)	Manager Registration Refund	10-00-4010	Y
03/12/20	Zoom	161.18	Software	10-00-4203	Y
03/12/20	Costco	108.13	Office Supplies	10-00-4200	Y
		\$1,798.03	General Administration Total		
02/10/20	DNR	50.00	Lake Service Provider Permit	20-05-4260	Y
02/10/20	Amazon	56.20	Data Collection Supplies	20-05-4635	Y
02/10/20	Home Depot	126.40	Data Collection Supplies	20-05-4635	Y
02/11/20	Smartpress	107.92	Education & Outreach Door Hangers	20-08-4275	Y
02/11/20	Amazon	60.00	Data Collection Supplies	20-05-4635	Y
02/12/20	Amazon	96.99	Interactive Display/E & O	20-08-4275	Y
02/11/20	Menards	(8.58)	Data Collection Return	20-05-4635	Y
02/11/20	Menards	39.25	Data Collection Supplies	20-05-4635	Y
02/11/20	Menards	17.16	Data Collection Supplies	20-05-4635	Y
02/12/20	Amazon	19.80	Data Collection Supplies	20-05-4635	Y
02/18/20	Walgreen's	11.33	MWS Meeting	20-08-4260	Y
02/18/20	Kowalski's	95.63	Public Meeting	20-08-4275	Y
02/18/20	Menards	10.74	Data Collection Supplies	20-05-4635	Y
02/18/20	West Marine	8.91	Data Collection Supplies	20-05-4635	Y
02/19/20	Grainger	52.99	Data Collection Supplies	20-05-4635	Y
02/19/20	Walmart	6.66	Data Collection Supplies	20-05-4635	Y
02/19/20	Michaels	7.51	Education & Outreach Supplies	20-05-4635	Y
02/19/20	Menards	19.55	Data Collection Supplies	20-05-4635	Y
02/19/20	Sigma Aldrich	196.95	Data Collection Supplies	20-05-4635	Y
02/21/20	NAVICO	26.83	Data Collection Supplies	20-05-4635	Y
02/21/20	Cub Foods	9.99	Public Meeting	20-08-4275	Y
02/26/20	Amazon	240.00	Data Collection Supplies	20-05-4635	Y
02/26/20	Kowalski's	39.94	Public Meeting	20-08-4275	Y
02/27/20	Aircraft Spruce & SP	65.96	Data Collection Supplies	20-05-4635	Y
02/28/20	Hach	2,373.00	Data Collection Supplies	20-05-4635	Y
02/28/20	Home Depot	1.15	Data Collection Supplies	20-05-4635	Y
02/28/20	Speedway	54.59	Fuel	20-05-4322	Y
02/28/20	Frattalone	29.56	Data Collection Supplies	20-05-4635	Y
02/28/20	Mister Car Wash	20.00	Data Collection	20-05-4635	Y
02/29/20	Digi Key	12.49	Data Collection Supplies	20-05-4635	Y
03/01/20	Amazon	26.96	Education & Outreach Supplies	20-08-4275	Y
03/02/20	Amazon	42.50	Education & Outreach Supplies	20-08-4275	Y
03/09/20	Menards	109.78	Data Collection Supplies	20-05-4635	Y
		\$4,028.16	District-Wide Total		
		\$5,826.19	GRAND TOTAL		

RESOLUTION NO. 2020-05
RILEY PURGATORY BLUFF CREEK WATERSHED DISTRICT
BOARD OF MANAGERS

ORDERING THE WETLAND RESTORATION AND FLOOD MITIGATION PROJECT
AT 101 AND PIONEER TRAIL

Manager _____ offered the following resolution and moved its adoption, seconded by
Manager _____:

WHEREAS the Riley Purgatory Bluff Creek Watershed District's (District) 2018 10-Year Watershed Management Plan (Plan) identified the Wetland Restoration and Flood Mitigation at 101 and Pioneer Trail as a Proposed Project in the Bluff Creek Watershed (Plan, Section 6, Table 6-2);

WHEREAS on March 1, 2019, the District Board of Managers adopted a resolution approving the District's role as legal sponsor for the Wetland Restoration and Flood Mitigation Project at 101 and Pioneer Trail Project (Project) and authorized the District administrator to apply for the Minnesota Department of Resources (MN DNR) Flood Damage Reduction Grant Assistance Program;

WHEREAS on March 12, 2019, the District submitted a Flood Damage Reduction Grant Assistance Program application to the MN DNR for the Project;

WHEREAS the District proposed, in partnership with the City of Chanhassen and the MN DNR through the Flood Damage Reduction Grant Assistance Program, a collaborative wetland restoration Project that involved acquiring a total of three properties at 730, 750, and 770 Pioneer Trail for a total of 7.35 acres on which structures would be removed;

WHEREAS the District Engineer deemed the Project site feasible and beneficial for wetland restoration and flood mitigation purposes;

WHEREAS on April 3, 2019, the District held a duly noticed public hearing on the acquisition of the properties at 730 and 750 Pioneer Trail for the Project, consistent with Minnesota Statutes Section 103B.251, subdivision 3, to give interested members of the public an opportunity to comment on the Project; no comments were received, and the Board of Managers ordered the acquisition of 730 and 750 Pioneer Trail for wetland restoration and flood mitigation;

WHEREAS the City of Chanhassen served as the lead agency to acquire 770 Pioneer Trail and the District served as the lead agency to acquire two remaining properties at 730 and 750 Pioneer Trail; the total cost of the acquisition of the three properties at 730, 750, and 770 Pioneer Trail was \$959,900.00, of which fifty percent (50%) was funded by the DNR Flood Assistance Grant Program and fifty percent (50%) by the District and the City of Chanhassen, with the District's share of the funding for property acquisition not to exceed \$350,000;

WHEREAS in March 2020 the District engineer prepared a Feasibility Report for the Project that determines that the proposed Project is feasible and that it advances the goals of improved and protected water quality of waters located downstream, wetland restoration, and flood mitigation;

WHEREAS the estimated total cost of the project is \$630,000 with a potential range of \$504,000 to \$819,000 based on the current level of design; the District proposes to fund its share of the Project costs through the District's ad valorem property tax levy to implement its watershed management plan pursuant to Minnesota Statutes Section 103B.241, 77% of which is paid by District property taxpayers in Hennepin County and 23% is paid by District property taxpayers in Carver County;

NOW THEREFORE BE IT RESOLVED that the Board of Managers finds that the construction of the Project is consistent with the wetland restoration and flood mitigation objectives of the District for the Bluff Creek Watershed, and that the proposed Project will be conducive to public health, will promote the general welfare, and complies with the Watershed Law, the Metropolitan Water Management Planning Law, and the District's Plan;

BE IT FURTHER RESOLVED that the Board of Managers hereby orders the Project and determines the cost to be an amount not to exceed \$819,000.00, which will be funded through the District's ad valorem property tax levy to implement its watershed management plan pursuant to Minnesota Statutes Section 103B.241, 77% of which is paid by District property taxpayers in Hennepin County and 23% is paid by District property taxpayers in Carver County be constructed;

BE IT FURTHER RESOLVED that the Board of Managers hereby orders that the Engineer proceed under the direction of the Administrator to make the necessary surveys, plans and specifications, and advertise for bids;

BE IT FURTHER RESOLVED that the Board of Managers hereby directs the Administrator with advice of counsel to complete all necessary steps to accept the conveyance from the City of Chanhassen of fee title interest in the property at 770 Pioneer Trail, which shall be achieved prior to any notice of award of construction contract for the Project. \

The question was on the adoption of the resolution and there were _____ yeas and _____ nays as follows:

Yea Nay Abstain Absent

**CRAFTON
KOCH
PEDERSEN
WARD
ZIEGLER**

Upon vote, the president declared the resolution _____.

Dated: April ____, 2020.

David Ziegler, Secretary

* * * * *

I, David Ziegler, secretary of the Riley Purgatory Bluff Creek Watershed District, do hereby certify that I have compared the above resolution with the original thereof as the same appears of record and on file with the District and find the same to be a true and correct transcription thereof.

IN TESTIMONY WHEREOF, I set my hand this _____ day of _____, 2020.

David Ziegler, Secretary

**TASK ORDER No. 30B – Pioneer Trail Wetland Restoration Project:
Final Design, Permitting, and Construction Administration Services
Pursuant to Agreement for Engineering Services
Riley Purgatory Bluff Creek Watershed District and BARR Engineering Company.
March 26, 2020**

This Task Order is issued pursuant to Section 1 of the above-cited engineering services agreement between the Riley Purgatory Bluff Creek Watershed District (District) and BARR Engineering Company (Engineer) and incorporated as a part thereof.

1. Description of Services:

Barr will work with District staff to complete the engineering, design and construction services to restore wetland hydrology on approximately 7 acres, referred to as Pioneer Wetland, in Chanhassen, Minnesota. The project is located on three parcels owned by the District and is located within the Bluff Creek Watershed northwest of the intersection of Pioneer Trail and CSAH101. In addition to restoring wetland hydrology on the parcels, the project has the added benefit of reducing downstream flow rates and total suspended solids (TSS) and total phosphorus (TP) loading to Bluff Creek. This project would provide final design for restoring the wetland based on the findings of the March 2020 feasibility study. Project design would be followed by preparation of bid documents and construction support services. Barr would also prepare required permit applications in advance of project construction.

Barr's scope of work activities are divided into three phases:

- Phase 1: Pioneer Wetland Restoration Feasibility (Previous Task Order 30A)
- Phase 2: Final Design and Permitting (This Task Order);
- Phase 3: Construction Administration Services (This Task Order).

2. Scope of Services:

Engineer's services under this task order shall include:

PHASE 2. FINAL DESIGN AND PERMITTING

Final design and permitting includes multiple tasks in order to ensure the project is designed properly, and that key stakeholders (e.g., District, city of Chanhassen, Minnesota Department of Natural Resources [MNDNR], Carver County Watershed Management Organization (WMO), Carver County Soil and Water Conservation District (SWCD), Minnesota Board of Water and Soil Resources (BWSR), and U.S. Army Corps of Engineers [USACE]) can provide input and feedback at regular intervals in the design process. These tasks are described below.

Task 2-1. Kick-off Meeting and Regular Project Meetings

A kick-off meeting will be held with District and Barr staff to discuss the overall project, intermediate deadlines and deliverables for each deadline. The meeting will also provide an opportunity to define initial roles to be filled by District Staff and Barr Staff. It is assumed that District Staff will provide assistance with stakeholder coordination.

The project team will meet weekly to review project progress, address questions, and discuss outstanding issues. District Staff will be invited to participate in weekly project meetings at their discretion.

Task 2-2. Site Visits and Soil Boring

Barr staff will complete up to three site visits to verify suitability of proposed design elements. It is anticipated that one site visit would be completed prior to 60% design and up to two additional site visits would be completed prior to final design. District staff will be notified of the site visits and invited to participate at their discretion.

It is assumed that District staff will conduct all necessary surveying. Surveying tasks include:

- General topographic survey of project area.
- Heavily vegetated areas on the eastern parcel. The LiDAR data in this area is inaccurate due to the dense vegetation and a survey will allow for more accurate modeling and design of the project.
- Centerline of the downstream ditch to confirm control elevations. This will include approximately 700 feet of the ditch and three driveway culverts. Survey of the culverts should include both the upstream and downstream inverts and notes on the culvert diameter, material and condition (i.e. open, crushed, 50% blocked, etc.).
- Location of all existing storm sewer outlet structures and pipes to be removed or bulkheaded.
- Post-construction survey of new outlet structures and re-graded areas to ensure that the site will function as designed.

District staff will complete a tree survey within the project extents for the purpose of identifying trees to be impacted by the project, and to develop tree replacement strategies.

A geotechnical engineer from Barr will collect soils information at the proposed outlet structure location. It is assumed that truck mounted drilling rig will be necessary to acquire the necessary soil profile. This soils information will be used for the design of outlet structure sub-grading and associated stability analysis.

Task 2-3. Stakeholder Meeting

District Staff will coordinate and Barr will attend a meeting with key project stakeholders to facilitate early discussion about the project and identify critical stakeholder concerns. This task assumes one stakeholder meeting at approximately 60% design with the District Staff, city of Chanhassen, MNDNR, Carver County WMO, Carver County SWCD, BWSR, USACE and any other public entities with a stake in the project. The kickoff meeting in Task 2-1 will help establish a tentative schedule for the meeting and identify key dates to provide notices and/or send information to stakeholders.

Task 2-4. Preliminary (60%) Design and Opinion of Probable Cost

The preliminary design will be advanced based on District and stakeholder input. Hydraulic modeling will be conducted to inform the design. In particular, it will be used to design the outlet structure features so that the proposed design will provide the improved wetland hydrology and

water quality benefits while minimizing potential impacts to adjacent private properties. The design and drawings are also anticipated to include site grading/excavation, erosion preventions and sediment control, removals, diverse vegetation restoration, stormwater pollution prevention plan (SWPPP), and details plan sheets. A preliminary opinion of probable construction cost will be prepared. The 60% design drawings will be provided electronically in pdf format.

The 60% design will be provided to the District for additional feedback. It is assumed that comments will be provided within two weeks of providing the drawings.

Task 2-5. QA/QC Review

Barr will utilize other experienced wetland restoration and hydraulics & hydrology modeling staff not directly involved in the design of the project to provide QA/QC review at the 60%, 90% and final design phases.

Task 2-6. Wetland Delineation and Existing Conditions Site Assessment

District staff will complete a field wetland delineation, survey of existing vegetation (including floristic quality index), and a functional assessment of all areas that could potentially be disturbed by project construction, including but not limited to access routes and staging areas. The wetland delineation will be completed in accordance with the 1987 USACE Manual and the Midwest regional supplement.

District staff will draft a wetland delineation report documenting the presence of wetlands and other waters in the survey area. The District will submit the delineation report and a request for delineation concurrence to the Local Government Unit (LGU) responsible for administering the Minnesota Wetland Conservation Act (WCA) – in this case, the city of Chanhassen. If requested by the LGU, District will participate in one meeting with the Technical Advisory Panel to review the wetland delineation on-site.

Additional field data collection is recommended to assist with restoration planning and documentation of existing conditions, which may include installation of monitoring wells, and additional soil borings to determine the depth of hydric soil. If requested, these additional services would be provided on a time and expense basis.

Barr staff will be available for support and review during this process on a time and expense basis.

Findings of the wetland delineation will be used to inform project permitting.

Task 2-7. Permitting Assistance

Barr will complete permit applications for the project, including the development of a stormwater pollution prevention plan (SWPPP). It is assumed that a WCA no-loss and/or wildlife habitat exemption approval, USACE Nationwide Permit 27 will be required, as well as local permits such as the RPBCWD permit and city of Chanhassen. It is assumed that the District will provide timely review of permit application materials prior to submittal and that permit fees will be paid by the District directly.

The identified permitting processes typically require eight to twelve weeks, and it is assumed that permitting will begin following completion of 60% design.

Task 2-8. Final Engineering and 90% Design

After gaining additional input from stakeholders regarding the advanced design, Barr will continue to refine the design and prepare the 90% drawings and opinion of cost for review by District and delivery to the Board.

Task 2-9. Final Construction Drawings

Upon review and approval of the 90% design by District staff or the Board of Managers, Barr will complete the final construction drawings (bid-ready).

Task 2-10. Engineer's Opinion of Probable Cost

Upon completion of the final design, Barr will prepare an Engineers Opinion of Probable Cost. This cost estimate will accompany the finished plan set for final approval by the District.

Task 2-11. Technical Specifications and Construction Documents

Barr will provide technical specifications and a project bidding form for the project. Barr will develop technical specification sections using Construction Specifications Institute (CSI) format including all "upfront" sections such as general conditions, supplementary conditions, summary of work and those related to bidding and contracting. The development of the technical specification will be coordinated with the District Administrator and Counsel. Barr assumes specifications will be in CSI format with Engineers Joint Contract Documents Committee (EJCDC) general conditions. Barr reserves the right to modify budget if technical specification format is other than stated in this paragraph. Specifications will be provided for review in conjunction with the Final Construction Drawings and include up to one set of revisions.

Task 2-12. Project Management

Project Management is a key component to help meet project milestones. In addition, project management will help make sure the work meets the expectations of District staff and other stakeholders and that work is completed in a satisfactory manner within the project timeline and within the agreed-upon budget.

Barr will continue to provide updates to the project team that document project progress and coordinate tasks. Barr will provide the District with monthly progress reports and budget status updates as part of the monthly invoicing process. Barr will solicit District Staff feedback on an ongoing basis to maintain clear and timely communication.

PHASE 3. CONSTRUCTION ADMINISTRATION

Phase 3 includes the tasks associated with bidding the project and completing construction. Individual tasks are described below. Work associated with this Phase 3 would only occur if District Managers decide to move the project forward and advertise for construction bids.

Task 3-1. Bidding Assistance

Barr will conduct: a mandatory pre-bid meeting and site visit (if warranted); prequalification of bidders, if appropriate; review of bids; and follow-up inquiries with bidders. Advertising and

bidding dates will be coordinated with District Administrator. It is assumed that advertising for bids would occur in the District's official newspapers.

Barr will prepare recommendations on contractor selection, if requested.

Task 3-2. Pre-Construction Meeting

Barr will conduct a preconstruction meeting with the selected contractor to discuss critical aspects of the restoration project. Safety and erosion control are always key components of the preconstruction meeting. Additional items on the agenda will likely include site access, construction limits, hours of operation, and utilities in the area.

Task 3-3. Construction Administration and Observation

Barr will provide construction planning and coordination with District and contractor(s), as well as to develop final construction sequencing and schedule. Barr will review construction access and equipment/material staging areas with contractor(s) and District staff.

Barr will act as general liaison between contractor(s) and the District during the construction process, providing construction oversight as necessary to confirm that all work adheres to the approved plan. Barr will schedule site visits by design team members, review work progress, and document quality and compliance through ground photos and field notes during construction. Barr will review up to four pay requests and no more than two change orders. Review of additional payment applications and changes orders would be performed on a time and expense basis as needed. It is assumed that the total construction time will be approximately three weeks, and Barr staff will be on site to provide oversight and guidance for key portions of the work. Barr has not budgeted to be onsite to observe all construction activities. The construction administration budget assumes a total of 80 hours of time to complete the various aspects of this task.

Task 3-4. Post-Construction Memorandum

Barr will complete a brief memorandum to summarize key aspects of the construction process, including design changes, any unanticipated obstacles or hindrances to construction, key field notes, and final construction costs.

Task 3-5. Project Management

Barr will provide updates to the project team to document project progress and coordinate tasks. Barr will provide monthly progress reports and budget status updates as part of the monthly invoicing process. Barr will solicit District feedback on an ongoing basis to ensure clear and timely communication.

Assumptions

Barr has made several assumptions scope of work items in this agreement. Assumptions relating to individual work tasks are listed above in the task detailed descriptions. However, additional assumptions that do not correspond with a single work task are listed below:

- The anticipated services include in this task order are based on the recommended alternative in the March 2020 feasibility study.
- One soil boring will be conducted to inform the design of the outlet structure.
- A Phase I environmental assessment will not be completed. It is assumed there are no hazardous materials or other contaminants are present within the project footprint (i.e., the project site is free from contamination.).
- It is assumed the desktop cultural review completed for the feasibility study will be sufficient documentation for Corps permitting
- The plan set will include up to six sheets.
- Post-construction survey and record/as-built drawings are excluded from this scope of work.
- Meetings with the MNDNR and other stakeholders will last approximately 1 hour and will be held via teleconference or at District's office.
- Total time required to complete construction administration and documentation will not exceed 80 hours, based on an assumed total construction timeframe of three weeks.
- No property acquisition will be needed for the project. If property acquisition is needed, those services will be coordinated with the District Administrator on a time and expense basis.
- The proposed budget includes costs for mileage reimbursement for site visits and site observation.
- The District will provide all available and applicable GIS and CAD files to Barr in an electronic format.
- The proposed budget excludes development of a maintenance plan, volunteer coordination and training, boardwalk/trail design, and educational signage.
- Permit fees will be paid directly by the District. If needed to expedite the application process, Barr will pay the permit fees, if directed by District Administrator, and charge that expense to the District as needed. This effort will be coordinated with the District Administrator on a time and expense basis.
- Preparation of an Environmental Assessment Worksheet (EAW) or Environmental Impact Statement will not be required.
- Vegetation monitoring will be conducted by RPBCWD staff. If needed, Barr would provide those services on a time and expense basis as requested
- Due to the current COVID-19 outbreak, it is assumed that all meetings will take place via Webex or other teleconferencing methods.

3. Deliverables:

The following deliverables will be prepared and provided to the District:

Phase 2: Final Design and Permitting

- 60% plan drawings
- Stakeholder Meeting agendas, meeting minutes and a summary of the discussion (up to 2 meetings)
- 90% plan drawings
- Final construction drawings
- Final Engineer's Opinion of Probable Cost to accompany final plans.
- Technical specifications and provisions
- Contract documents for the bid process

Phase 3: Construction Administration

- Advertisement for Bid
- Pre-bid meeting agenda (if necessary)
- Bid tab following bid submittals
- Regular updates to District staff about construction progress
- Construction photos and field notes
- Pay applications and change orders from contractor
- Post-construction memorandum

4. Budget:

Services under this Task Order will be compensated for in accordance with the engineering services agreement and will not exceed \$74,700 without written authorization by the Administrator or Board of Managers. The following table provides a breakdown of the anticipated cost for major tasks associated with scope of services describe above.

Task	Task Description	Anticipated Budget	Anticipated Completion Date
Phase 2: Final Design and Permitting			
2-1	Kick-off Meeting and Project Meetings	\$3,500	Ongoing
2-2	Site Visits and Soil Boring	\$5,600	Ongoing
2-3	Stakeholder Meeting	\$1,400	May 2020
2-4	60% Design and Cost Estimate	\$9,700	June 2020
2-5	QA/QC Reviews	\$2,100	Ongoing
2-6	Wetland Delineation and Existing Conditions Site Assessment (Barr support and review)	\$500	June 2020
2-7	Permitting Assistance	\$7,200	July 2020
2-8	90% Design and Cost Estimate	\$8,500	August 2020
2-9	Final Construction Drawings	\$4,300	September 2020
2-10	Engineer's Cost Estimate	\$1,700	September 2020
2-11	Technical Specifications	\$5,100	September 2020
2-12	Project Management	\$2,800	Ongoing
Phase 2 Subtotal		\$52,400	
Phase 3: Construction Administration			
3-1	Bidding Assistance	\$3,900	October 2020
3-2	Pre-Construction Meeting	\$1,600	November 2020
3-3	Construction Administration and Observation	\$12,400	May 2021
3-4	Post-Construction Memorandum	\$2,900	June 2021
3-5	Project Management	\$1,500	Ongoing
Phase 3 Subtotal		\$22,300	
Task Order 30B Total		\$74,700	

5. Schedule and Assumptions Upon Which Schedule is Based

The proposed schedule (above) is based on the substantial construction occurring during the fall of 2021, with final site restoration being completed in spring 2021. The schedule outlined above assumes project initiation will occur in April 2020. The schedule may be modified depending on actual initiation of project work, permit approvals, and stakeholder coordination efforts.

IN WITNESS WHEREOF, intending to be legally bound, the parties hereto execute and deliver Phases 2 & 3 of this Agreement.

CONSULTANT

**RILEY PURGATORY BLUFF CREEK
WATERSHED DISTRICT**

By _____

By _____

Its Vice President

Its _____

Date:

Date:

APPROVED AS TO FORM & EXECUTION

RESOLUTION NO. 2020-06
RILEY PURGATORY BLUFF CREEK WATERSHED DISTRICT
BOARD OF MANAGERS

ORDERING THE MIDDLE RILEY CREEK STABILIZATION PROJECT

Manager _____ offered the following resolution and moved its adoption, seconded by
Manager _____:

WHEREAS the Riley Purgatory Bluff Creek Watershed District's (District) 2018 10-Year Watershed Management Plan (Plan) identified creek restoration and stabilization at Riley Creek as a Proposed Project in the Riley Creek Watershed (Plan, Section 8, Table 8-2);

WHEREAS Bearpath Golf and Country Club (Bearpath) approached the District requesting coordination to restore a section of middle Riley Creek that has resulted in erosion of golf course features;

WHEREAS a technical stakeholder meeting was held on February 10, 2020 to provide stakeholders an opportunity to review the proposed alternatives and issues;

WHEREAS in March 2020 the District engineer developed a Feasibility Study for providing an ecologically diverse stream reach that significantly reduces streambank erosion and sediment and phosphorus loading to Riley Creek and downstream waterbodies; improves water quality; and improves natural stream habitat for aquatic organisms along 815 feet of Riley Creek Reach R3 (Project);

WHEREAS on April 1, 2020, the Board of Managers held a duly noticed public hearing to receive comments on the proposed Project, and the Board of Managers carefully considered these comments;

WHEREAS the estimated total cost of the project is \$290,000; the District proposes to fund its share of the Project costs through the District's ad valorem property tax levy to implement its watershed management plan pursuant to Minnesota Statutes Section 103B.241, 77% of which is paid by District property taxpayers in Hennepin County and 23% is paid by District property taxpayers in Carver County; Bearpath will contribute funding to the project;

NOW THEREFORE BE IT RESOLVED that the Board of Managers finds that the construction of the Project is consistent with the water quality objectives of the District for the Riley Creek Watershed, and that the proposed Project will be conducive to public health, will promote the general welfare, and complies with the Watershed Law, the Metropolitan Water Management Planning Law, and the District's Plan;

BE IT FURTHER RESOLVED that the Board of Managers hereby orders the Project, and that the Administrator proceed, with the advice of legal counsel, to develop a cooperative agreement with Bearpath and any additional necessary and appropriate agreements, for the due

consideration and approval by the Board of Managers, and approval prior to the issuance of any notice of contract award for the Project;

BE IT FURTHER RESOLVED that the Board of Managers hereby directs the Engineer under the direction of the Administrator to proceed with making the necessary surveys, plans and specifications, and advertise for bids.

The question was on the adoption of the resolution and there were _____ yeas and _____ nays as follows:

<u>Yea</u>	<u>Nay</u>	<u>Abstain</u>	<u>Absent</u>
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CRAFTON
KOCH
PEDERSEN
WARD
ZIEGLER

Upon vote, the president declared the resolution _____.

Dated: April ____, 2020.

David Ziegler, Secretary

* * * * *

I, David Ziegler, secretary of the Riley Purgatory Bluff Creek Watershed District, do hereby certify that I have compared the above resolution with the original thereof as the same appears of record and on file with the District and find the same to be a true and correct transcription thereof.

IN TESTIMONY WHEREOF, I set my hand this _____ day of _____, 2020.

David Ziegler, Secretary

**TASK ORDER No. 29B – Middle Riley Creek Reach R3 Stabilization Project:
Final Design, Permitting, and Construction Administration Services
Pursuant to Agreement for Engineering Services
Riley Purgatory Bluff Creek Watershed District and BARR Engineering Company.
March 26, 2020**

This Task Order is issued pursuant to Section 1 of the above-cited engineering services agreement between the Riley Purgatory Bluff Creek Watershed District (District) and BARR Engineering Company (Engineer) and incorporated as a part thereof.

1. Description of Services:

Barr will work with District staff to complete the engineering, design and construction services to restore an approximately 815 foot reach of Riley Creek, referred to as Reach R3, in Eden Prairie, Minnesota. The project is located on property owned by Bearpath Golf and Country Club and is located within a City of Eden Prairie Conservation Easement. This portion of Riley Creek was identified for restoration in the Creek Restoration Action Strategy (CRAS) and RPBCWD's capital improvement program in the 10-year plan. Erosion was observed at two sections of this reach, with detrimental effects on water quality and stream habitat. This project would provide final design for stabilization of Reach R3 based on the findings of the March 2020 feasibility study. Project design would be followed by preparation of bid documents and construction support services. Barr would also prepare required permit applications in advance of project construction.

Barr's scope of work activities are divided into three phases:

Phase 1: Middle Riley Creek Stabilization Feasibility (Previous Task Order 29A)

Phase 2: Final Design and Permitting (This Task Order);

Phase 3: Construction Administration Services (This Task Order).

2. Scope of Services:

Engineer's services under this task order shall include:

PHASE 2. FINAL DESIGN AND PERMITTING

Final design and permitting includes multiple tasks in order to ensure the project is designed properly, and that key stakeholders (District, Bearpath Golf and Country Club, city of Eden Prairie, Minnesota Department of Natural Resources [MNDNR], and U.S. Army Corps of Engineers [USACE]) can provide input and feedback at regular intervals in the design process. These tasks are described below.

Task 2-1. Kick-off Meeting and Regular Project Meetings

A kick-off meeting will be held with District, Bearpath and Barr staff to discuss the overall project, intermediate deadlines and deliverables for each deadline. The meeting will also provide an opportunity to define initial roles to be filled by District Staff, Bearpath Staff, and Barr Staff. It is assumed that District Staff and Bearpath Staff will provide assistance with stakeholder coordination, and that District Staff will provide field support as described in the following sections (e.g., surveying and wetland activities).

The project team will meet weekly to review project progress, address questions, and discuss outstanding issues. District Staff and Bearpath Staff will be invited to participate in weekly project meetings at their discretion.

Task 2-2. Site Visits

Barr staff will complete up to three site visits to verify suitability of proposed design elements. It is anticipated that one site visit would be completed prior to 60% design and up to two additional site visits would be completed prior to final design. District staff and Bearpath Staff will be notified of the site visits and invited to participate at their discretion.

Barr staff will provide a map showing the channel and adjacent overbank areas to be surveyed by District Staff to facilitate design. The survey corridor will include the reach extents of features as proposed in the feasibility study and end approximately 50-ft from the top of the stream bank. The design will utilize LiDAR data outside of this footprint.

District Staff will also complete a tree survey within the project extents for the purpose of identifying trees to be impacted by the project, quantification of trees available for use on the project (root wads/toe wood), and to develop tree replacement strategies.

A geotechnical engineer from Barr will collect soils information at the Hole 16 green via the use of a hand auger. This soils information will be used for the design of the boulder wall and associated stability analysis.

Task 2-3. Stakeholder Meetings

District and Bearpath Staff will coordinate a meeting with key project stakeholders to facilitate early discussion about the project and identify critical stakeholder concerns. This task assumes one stakeholder meeting at approximately 60% design with the Bearpath Staff, District Staff, city of Eden Prairie, MNDNR, USACE and any other public entities with a stake in the project and one public open house for residents in nearby neighborhoods. It is assumed the public open house will be conducted at the Bearpath Country Club. The kick-off meeting in Task 2-1 will help establish a tentative schedule for each meeting and identify key dates to provide notices and/or send information to stakeholders.

Task 2-4. Preliminary (60%) Design and Opinion of Probable Cost

The preliminary design will be advanced based on District, Bearpath, and stakeholder input. Hydraulic modeling will be conducted to inform the design. In particular, it will be used to evaluate flow depths and estimate existing and proposed channel velocities. This will help to ensure that the proposed design will withstand anticipated creek flows while not impacting adjacent private properties. A preliminary opinion of probable construction cost will be prepared. The 60% design drawings will be provided electronically in pdf format.

The 60% design will be provided to the District Administrator and Bearpath for additional feedback. It is assumed that comments will be provided within two weeks of providing the drawings.

Task 2-5. QA/QC Review

Barr will utilize other experienced stream restoration staff not directly involved in the design of the project to provide QA/QC review at the 60%, 90% and final design phases.

Task 2-6. Wetland Delineation (District Staff)

District staff will complete a field wetland delineation of all areas that could potentially be disturbed by project construction, including but not limited to channel stabilization locations, access routes, and staging areas. The wetland delineation will be completed in accordance with the 1987 USACE Manual and relevant regional supplement.

District staff will draft a wetland delineation report documenting the presence of wetlands and other waters in the survey area. Upon review and approval the District will submit the delineation report and a request for delineation concurrence to the Local Government Unit (LGU) responsible for administering the Minnesota Wetland Conservation Act – in this case, the city of Eden Prairie. If requested by the LGU, Barr will participate in one meeting with the Technical Advisory Panel to review the wetland delineation on-site.

Findings of the wetland delineation will be used to inform project permitting.

Task 2-7. Cultural Resources Desktop Review

Barr staff will complete a desktop review for cultural resources that may be present in areas of project disturbance in support of project permitting. The review will consist of submitting a data request to the State Historic Preservation Office and summarizing and presence and proximity of known cultural resources sites to the project area.

Task 2-8. EAW Preparation

An Environmental Assessment Worksheet (EAW) will likely be required for this project due to the potential length of affected stream channel. We are assuming that the resulting Record of Decision (ROD) will determine that the project does not have potential for significant environmental effects, and that an Environmental Impact Statement (EIS) will not be required. After the ROD is issued, permit applications can be submitted. If it is determined that an EAW is not required, this task will be eliminated and permit applications will be submitted sooner.

Task 2-9. Permitting Assistance

Barr will complete permit applications for the project, including the development of a stormwater pollution prevention plan (SWPPP). It is assumed that a MNDNR Work in Public Waters Permit and USACE Regional General Permit 3 will be required, as well as local permits such as the RPBCWD permit. It is assumed that the District will provide timely review of permit application materials prior to submittal and that permit fees will be paid by the District directly.

The identified permitting processes typically require eight to twelve weeks, and it is assumed that permitting will begin following completion of 60% design.

Task 2-10. Final Engineering and 90% Design

After gaining additional input from stakeholders regarding the advanced design, Barr will continue to refine the design and prepare the 90% drawings and opinion of cost for review by District and Bearpath staff and delivery to the Board.

Task 2-11. Final Construction Drawings

Upon review and approval of the 90% design by District staff or the Board of Managers, Barr will complete the final construction drawings (bid-ready).

Task 2-12. Engineer's Opinion of Probable Cost

Upon completion of the final design, Barr will prepare an Engineers Opinion of Probable Cost. This cost estimate will accompany the finished plan set for final approval by the District.

Task 2-13. Technical Specifications and Construction Documents

Barr will provide technical specifications and a project bidding form for the project. Barr will develop technical specification sections using Construction Specifications Institute (CSI) format including all "upfront" sections such as general conditions, supplementary conditions, summary of work and those related to bidding and contracting. The development of the technical specification will be coordinated with the District Administrator and Counsel. Barr assumes specifications will be in CSI format with Engineers Joint Contract Documents Committee (EJCDC) general conditions. Barr reserves the right to modify budget if technical specification format is other than stated in this paragraph. Specifications will be provided for review in conjunction with the Final Construction Drawings and include up to one set of revisions.

Task 2-14. Project Management

Project Management is a key component to help meet project milestones. In addition, project management will help make sure the work meets the expectations of District staff and other stakeholders and that work is completed in a satisfactory manner within the project timeline and within the agreed-upon budget.

Barr will continue to provide updates to the project team that document project progress and coordinate tasks. Barr will provide the District with monthly progress reports and budget status updates as part of the monthly invoicing process. Barr will solicit District Staff feedback on an ongoing basis to maintain clear and timely communication.

Task 2-15. Bearpath Agreement

District staff will coordinate with Bearpath to assist District legal counsel in developing a draft agreement regarding restoration and maintenance of Reach R3B. This task will be led by District staff and counsel, but Barr providing input on technical components during development of the agreement. The agreement will specify the responsibilities of each organization, as well as the long-term inspection and maintenance of the restoration efforts.

PHASE 3. CONSTRUCTION ADMINISTRATION

Phase 3 includes the tasks associated with bidding the project and completing construction. Individual tasks are described below. Work associated with this Phase 3 would only occur if District Managers decide to move the project forward and advertise for construction bids.

Task 3-1. Bidding Assistance

Barr will conduct: a mandatory pre-bid meeting and site visit (if warranted); prequalification of bidders, if appropriate; review of bids; and follow-up inquiries with bidders. Advertising and bidding dates will be coordinated with District Administrator. It is assumed that advertising for bids would occur in the District's official newspapers.

Barr will prepare recommendations on contractor selection, if requested.

Task 3-2. Pre-Construction Meeting

Barr will conduct a preconstruction meeting with the selected contractor to discuss critical aspects of the restoration project. Safety and erosion control are always key components of the preconstruction meeting. Additional items on the agenda will likely include site access, construction limits, hours of operation, and utilities in the area.

Task 3-3. Construction Administration and Observation

Barr will provide construction planning and coordination with District, Bearpath, and contractor(s), as well as to develop final construction sequencing and schedule. Barr will review construction access and equipment/material staging areas with contractor(s) and District staff.

Barr will act as general liaison between contractor(s) and the District during the construction process, providing construction oversight as necessary to confirm that all work adheres to the approved plan. Barr will schedule site visits by design team members, review work progress, and document quality and compliance through ground photos and field notes during construction. Barr will review up to three pay requests and no more than two change orders. It is assumed that the total construction time will be approximately four weeks, and Barr staff will be on site to provide oversight and guidance for a portion of every day work is occurring. The construction administration budget assumes a total of 120 hours of time to complete the various aspects of this task. If additional time is needed those services will be provided on a time and expense basis as approved by the Administrator or Board of Managers.

Task 3-4. Post-Construction Memorandum

Barr will complete a brief memorandum to document key aspects of the construction process, including design changes, any unanticipated obstacles or hindrances to construction, key field notes, and final construction costs. It is assumed that a post-construction survey will not be completed by Barr.

Task 3-5. Project Management

Barr will provide updates to the project team to document project progress and coordinate tasks. Barr will provide monthly progress reports and budget status updates as part of the monthly

invoicing process. Barr will solicit District feedback on an ongoing basis to ensure clear and timely communication.

Assumptions

Barr has made several assumptions scope of work items in this agreement. Assumptions relating to individual work tasks are listed above in the task detailed descriptions. However, additional assumptions that do not correspond with a single work task are listed below:

- The anticipated services include in this task order are based on the recommended alternative in the March 2020 feasibility study.
- District Staff will perform all topographic survey and tree survey and provided in a usable electronic format that can be directly imported into AutoCAD.
- Other than possible hand augers, no soil borings will be conducted.
- A Phase I environmental assessment will not be completed. It is assumed this work was completed as part of the golf course and residential development and the project site is free from contamination.
- District Staff will perform complete a field wetland delineation, develop a wetland delineation report, and submit a request for LGU concurrence.
- Excludes design services for golf course features (e.g., tee box, irrigation, greens, paths, etc.)
- It is assumed a desktop cultural review will be sufficient documentation for Corps permitting
- Construction staking/surveying services and educational materials are excluded from this task order but will be provided on a time and materials basis as requested by RPBCWD.
- Post-construction survey and record drawings are excluded from this scope of work.
- Meetings with the MNDNR and other stakeholders will last approximately 1 hour and will be held via teleconference or at District's office.
- Total time required to complete construction administration and documentation will not exceed 120 hours, based on an assumed total construction timeframe of four weeks.
- No property acquisition will be needed for the project and no legal property descriptions are needed. If property acquisition is needed, those services will be coordinated with the District Administrator on a time and expense basis.
- The proposed budget includes costs for mileage reimbursement for site visits and site observation.
- The District will provide all available and applicable GIS and CAD files to Barr in an electronic format.
- The proposed budget includes costs for mileage reimbursement for site visits and site observation.
- Permit fees will be paid directly by the District. If needed to expedite the application process, Barr will pay the permit fees, if directed by District Administrator, and charge that expense to the District as needed. This effort will be coordinated with the District Administrator on a time and expense basis.

3. Deliverables:

The following deliverables will be prepared and provided to the District:

Phase 2: Final Design and Permitting

- Copies of permit applications

- 60%, 90%, and final construction plan drawings (up to 12 sheets)
- Stakeholder Meeting agendas, meeting minutes and a summary of the discussion (up to 2 meetings)
- Final Engineer’s Opinion of Probable Cost to accompany final plans.
- Technical specifications and provisions
- Contract documents for the bid process

Phase 3: Construction Administration

- Advertisement for Bid
- Pre-bid meeting agenda (if necessary)
- Bid tab following bid submittals
- Regular updates to District staff about construction progress
- Construction photos and field notes
- Pay applications from contractor and change order(s)
- Post-construction memorandum

4. Budget:

Services under this Task Order will be compensated for in accordance with the engineering services agreement and will not exceed \$112,900, without written authorization by the Administrator or Board of Managers. The following table provides a breakdown of the anticipated cost for major tasks associated with scope of services describe above.

Task	Task Description	Anticipated Budget	Anticipated Completion Date
Phase 2: Final Design, EAW Preparation and Permitting			
2-1	Kick-off Meeting and Project Meetings	\$3,700	Ongoing
2-2	Site Visits	\$3,800	Ongoing
2-3	Stakeholder Meetings	\$2,900	May 2020
2-4	60% Design and Cost Estimate	\$15,700	June 2020
2-5	QA/QC Review	\$2,500	Ongoing
2-6	Wetland Delineation Support	\$500	June 2020
2-7	Cultural Resources Desktop Review	\$2,800	June 2020
2-8	Permitting Assistance	\$9,400	July 2020
2-9	EAW Preparation	\$7,900	July 2020
2-10	90% Design and Cost Estimate	\$12,900	August 2020
2-11	Final Construction Drawings	\$6,800	September 2020
2-12	Engineer’s Cost Estimate	\$2,900	September 2020
2-13	Technical Specifications	\$7,400	September 2020
2-14	Project Management	\$5,600	Ongoing
2-15	Bearpath Agreement Assistance	\$3,400	September 2020
Phase 2 Subtotal		\$88,200	

Task	Task Description	Anticipated Budget	Anticipated Completion Date
Phase 3: Construction Administration			
3-1	Bidding Assistance	\$2,900	October 2020
3-2	Pre-Construction Meeting	\$1,600	November 2020
3-3	Construction Administration and Observation	\$14,900	May 2021
3-4	Post-Construction Memorandum	\$2,800	June 2021
3-5	Project Management	\$2,500	Ongoing
Phase 3 Subtotal		\$24,700	
Task Order 21b Total		\$112,900	

5. Schedule and Assumptions Upon Which Schedule is Based

The proposed schedule (above) is based on the substantial construction occurring during the winter of 2021, with final site restoration being completed in spring 2021. The schedule outlined above assumes project initiation will occur in April 2020. The schedule may be modified depending on actual initiation of project work, permit approvals, and stakeholder coordination efforts.

IN WITNESS WHEREOF, intending to be legally bound, the parties hereto execute and deliver Phases 2 & 3 of this Agreement.

CONSULTANT

**RILEY PURGATORY BLUFF CREEK
WATERSHED DISTRICT**

By _____

By _____

Its Vice President

Its _____

Date:

Date:

APPROVED AS TO FORM & EXECUTION

RESOLUTION NO. 2020-07

**RILEY-PURGATORY-BLUFF CREEK WATERSHED DISTRICT
BOARD OF MANAGERS**

Accepting conveyance of property at 770 Pioneer Trail from the City of Chanhassen

Manager _____ offered the following resolution and moved its adoption, seconded by Manager _____.

WHEREAS Riley-Purgatory-Bluff Creek Watershed District adopted in 2018 a watershed management plan (the Plan) in accordance with Minnesota Statutes section 103B.251;

WHEREAS the Plan includes wetland restoration and flood mitigation at Trunk Highway 101 and Pioneer Trail as a capital improvement project (Table 9-1), and RPBCWD has developed, in partnership with the City of Chanhassen and the Minnesota Department of Natural Resources through its Flood Damage Reduction Grant Assistance Program, an implementation plan and funding mechanisms for such wetland restoration and flood mitigation (the Project) and the acquisition of property necessary for the Project;

WHEREAS on April 3, 2019, after conducting a duly noticed public hearing consistent with Minnesota Statutes section 103B.251 on the Project and the acquisition of properties at 730 and 750 Pioneer Trail for purposes of the Project, the RPBCWD Board of Managers adopted Resolution 2019-014, ordering the Project;

WHEREAS in keeping with Resolution 2019-014, RPBCWD has acquired properties at 730 and 750 Pioneer Trail and removed structures therefrom to facilitate construction of the Project;

WHEREAS Chanhassen has acquired the property at 770 Pioneer Trail (the Property), legally described in Exhibit A, attached and incorporated into this resolution, has recorded the necessary declaration subjecting the conveyance of the Property to the approval of the commissioner of Minnesota Management and Budget, and has removed structures from the Property;

WHEREAS RPBCWD staff have conducted a review of publicly available database on environmental conditions on and around the Property and represent that this due diligence indicates no recognized environmental conditions on the Property;

WHEREAS acquisition by RPBCWD will allow the Property to be added to the properties at 730 and 750 Pioneer Trail to create a contiguous 7.35-acre site, which is necessary for efficient and effective implementation of the Project; and

WHEREAS RPBCWD finds that the Property will be useful for RPBCWD's purposes of wetland restoration and flood mitigation that acquisition of the Property for the Project will be conducive to public health, will promote the general welfare, and complies with Watershed Law, the Metropolitan Water Management Planning Law, and the Plan.

THEREFORE BE IT RESOLVED that the Board of Managers authorizes the administrator, on advice of counsel, to accept conveyance of fee-title interest in the Property, enter a quitclaim deed with Chanhassen for such purposes, and take such other additional steps as determined necessary, on advice of counsel, to effect RPBCWD acquisition of the Property; and

BE IT FURTHER RESOLVED that the administrator proceed directly to file the deed to the Property after receipt from Chanhassen in the office of the Carver County Recorder and to take, with advice of counsel, all actions necessary to obtain or preserve tax-exempt status of the Property.

The question was on the adoption of the resolution and there were _____ yeas and _____ nays as follows:

Yea Nay Abstain Absent

CRAFTON
KOCH
PEDERSEN
WARD
ZIEGLER

Upon vote, the president declared the resolution _____.

Dated: _____, 2020.

* * * * *

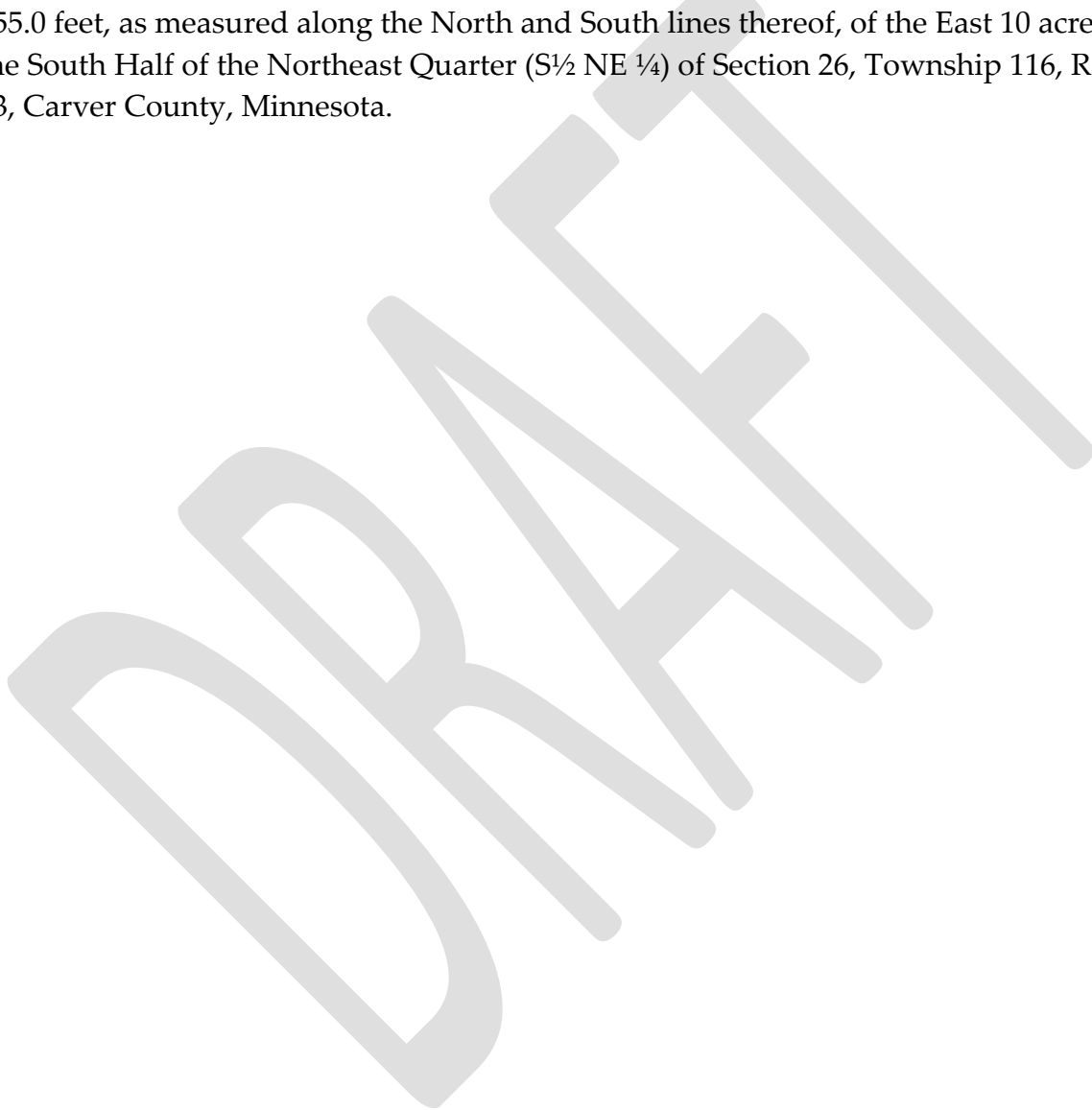
I, David Ziegler, secretary of the Riley Purgatory Bluff Creek Watershed District, do hereby certify that I have compared the above resolution with the original thereof as the same appears of record and on file with RPBCWD and find the same to be a true and correct transcription thereof.

IN TESTIMONY WHEREOF, I set my hand this _____ day of _____, 2020.

David Ziegler, Secretary

Exhibit A
Legal Description – 770 Pioneer Trail

The South Half (S $\frac{1}{2}$), as measured along the East and West lines thereof, of the West 155.0 feet, as measured along the North and South lines thereof, of the East 10 acres of the South Half of the Northeast Quarter (S $\frac{1}{2}$ NE $\frac{1}{4}$) of Section 26, Township 116, Range 23, Carver County, Minnesota.



Document Number: **A689014**

Filed and/or Recorded on
Dec 27, 2019 3:02 PM

Office of the County Recorder/Registrar of Titles
Carver County, Minnesota
Kaaren Lewis, County Recorder

Deputy KL Pkg ID: 7114473
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Document Total \$ 46.00

Requesting Party: CAMPBELL KNUTSON PA
Pages: 4

This cover page has been added to this document by Carver County Land Records
and is now an official part of this recorded document

State of Minnesota
General Obligation Bond Financed Property
DECLARATION TO BE RECORDED WITH DEED TO PROPERTY

The undersigned has the following interest in the real property located in the County of Carver, State of Minnesota that is legally described in **Exhibit A** attached and all facilities situated thereon (collectively, the "Restricted Property"):

(Check the appropriate box)

- a fee simple title, or
 an easement

and as owner of such a fee title or easement, does hereby declare that such interest in the Restricted Property is made subject to the following restrictions and encumbrances:

- A. The Restricted Property is bond financed property within the meaning of Minn. Stat. Sec. 16A.695, is subject to the encumbrance created and requirements imposed by such statute, and cannot be sold, mortgaged, encumbered or otherwise disposed of without the approval of the Commissioner of Minnesota Management and Budget, which approval must be evidenced by a written statement signed by said commissioner and attached to the deed, mortgage, encumbrance or instrument used to sell or otherwise dispose of the Restricted Property; and
- B. The Restricted Property is subject to all of the terms, conditions, provisions, and limitations contained in that certain General Obligation Bond Grant Contract with the City of Chanhassen for Acquisition of Flood Prone Property Swift Contract/PO No(s). 145835/3000138988 between the State of Minnesota and the city of Chanhassen dated August 7, 2018 and as subsequently amended.

The Restricted Property shall remain subject to this State of Minnesota General Obligation Bond Financed Declaration for 125% of the useful life of the Restricted Property or until the Restricted Property is sold with the written approval of the Commissioner of Minnesota Management and Budget, at which time it shall be released therefrom by way of a written release in recordable form signed by both the Commissioner of Natural Resources and the Commissioner of Minnesota Management and Budget, and such written release is recorded in the real estate records relating to the Restricted Property. This Declaration may not be terminated, amended, or in any way modified without the specific written consent of the Commissioner of Minnesota Management and Budget.

EXHIBIT "A"
Legal Description

The South Half (S1/2) as measured along the East and West lines thereof, of the West 155.0 feet, as measured along the North and South lines thereof, of the East 10 acres of the South Half of the Northeast Quarter (S1/2 NE1/4) of Section 26, Township 116, Range 23, Carver County, Minnesota.