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RCWD BOARD OF MANAGERS REGULAR MEETING AGENDA

Wednesday, April 24, 2019, 9:00 a.m.

Shoreview City Hall Council Chambers
4600 North Victoria Street, Shoreview, Minnesota

Agenda

CALL TO ORDER

ROLL CALL

SETTING OF THE AGENDA

APPROVAL OF MINUTES: APRIL 8, 2019 WORKSHOP; APRIL 10, 2019 REGULAR MEETING; APRIL 15, 2019 WORKSHOP.

CONSENT AGENDA

The following items will be acted upon without discussion in accordance with the staff recommendation and associated documentation unless a Manager or another interested person requests opportunity for discussion:

Table of Contents-Permit Applications Requiring Board Action

No.	Applicant	Location	Plan Type	Recommendation
14-018	OP3 Headwaters, LLC	Forest Lake	Land Development	Amendment #2-CAPROC 5 items
18-099	Mounds View Public Schools	Shoreview	Final Site Drainage Plan	CAPROC 9 items
19-023	Dewitt Homes	Mahtomedi	Final Site Drainage Plan	CAPROC 5 items
19-031	Construction Technology Inc.	Columbus	Final Site Drainage Plan	CAPROC 7 items
19-034	City of Fridley	Fridley	Final Site Drainage Plan	CAPROC 3 items

It was moved by Manager _____ and seconded by Manager _____, to approve the consent agenda as outlined in the above Table of Contents in accordance with RCWD District Engineer's Findings and Recommendations, dated April 17 & 18, 2019.

OPEN MIKE

Any RCWD resident may address the Board in his or her individual capacity, for up to three minutes, on any matter not on the agenda. Speakers are requested to come to the podium, state their name and address for the record. Additional comments may be solicited and accepted 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 an upcoming agenda.

ITEMS REQUIRING BOARD ACTION

1. Consider Grant Application to DNR Flood Hazard Mitigation Program for Ramsey County Ditch 2 3 5. (Kyle Axtell)
2. Consider Motion Related to the Repair of Anoka/Washington Judicial Ditch 3 -Phase 1. (Phil Belfiori/John Kolb)
3. Consider Policy Revision related to Delegation by Administrator for WCA No Loss Decisions. (Phil Belfiori/ John Kolb)
4. Consider RCWD Annual Report. (Beth Carreño)
5. Consider Curlyleaf Pondweed Cost-Share on Bald Eagle, Silver, Reshanau, and Centerville Lakes. (Matt Kocian)
6. Consider Amendment to City of Blaine Water Tower Agreement. (Nick Tomczik)
7. Consider Tierney quote for installation of equipment in conference room related to remote meeting participation and authorizing development of policy for remote meeting participation. (Catherine Nester)
8. Consider City of Forest Lake Local Water Plan. (Lauren Sampedro)
9. Consider City of Fridley Local Water Plan. (Lauren Sampedro)
10. Consider Check Register dated April 24, 2019, in the amount of \$296,400.00 prepared by Redpath and Company.

ITEMS FOR DISCUSSION AND INFORMATION

1. Staff Reports
2. May Calendar.
3. Manager's Update.

APPROVAL OF MINUTES: APRIL 8, 2019 WORKSHOP; APRIL 10, 2019 REGULAR MEETING; APRIL 15, 2019 WORKSHOP.

Draft

RCWD BOARD OF MANAGERS WORKSHOP

Monday, April 8, 2019, 1:00 p.m.

Rice Creek Watershed District Conference Room
4325 Pheasant Ridge Drive NE, Suite 611, Blaine, Minnesota

The Board convened workshop at 1:00 p.m.

Attendance: Board members Patricia Preiner, John Waller, Steve Wagamon, Barbara Haake and Mike Bradley.

Absent:

Staff: Administrator Phil Belfiori, Public Drainage Inspector Tom Schmidt (portion of meeting), Technician Catherine Nester (portion of meeting); Permit Coordinator/Wetland Specialist Nick Tomczik (portion of meeting) Project Manager Kyle Axtell (portion of meeting); Office Manager Theresa Stasica (portion of meeting).

Consultants: District Engineer Chris Otterness, Wetland Specialist Emmy Baskerville– Houston Engineering (HEI), Attorney John Kolb-Rinke Noonan.

Visitors: Jason Husveth-CCES, Dan Hair, Heidi Harvey-Tierney Brothers. Dan Schluender -City of Blaine.

Discussion /Update on Browns Preserve Wetland Bank.

District Engineers Otterness and Baskerville gave a presentation to the Board on 2018 (year 7) management activities. They informed the Board that the resulting site conditions exceeded original expectations and resulting credit. They reviewed the project budget and accumulated credits to date. HEI Wetland Specialist Emmy Baskerville informed the Board of the recommended final steps to: closeout with agencies, submit final deposit request, develop a long-term management plan, and transition from intensive management/reporting into the long term management. District Engineer Baskerville and CCES consultant Jason Husveth spoke on the long-term management plan addressing the next 10 years at \$100,000 estimated cost used and implemented at irregular intervals.

The Board by consensus agreed to the close out plan and development of a long-range management plan for the Browns Preserve wetland bank and budgeting annually beginning in 2019, \$10,000 to cover the costs.

Permit Coordinator/Wetland Specialist Tomczik informed the Board that they are looking at opportunities to combine management Browns Preserve with the Walls Easements management plan for efficiency.

Discussion on Remote Meeting Participation.

Administrator Belfiori reviewed the history of this item and introduced Heidi Harvey from Tierney Brothers to explain the Tierney quotes that were in the Board's agenda packet.

Ms. Harvey reviewed with the Board the Tierney quotes. She also explained that these are only quotes and can be revised to fit any need or budget the Board required.

The Board discussed various scenarios for remote meeting participation and the State's advisory opinion regarding remote participation.

The Board by consensus agreed to bring this item to a Board meeting for required action to accept quotes A & C. Upon further discussion the board also reached consensus to bring consideration of working with the District Attorney on a District policy for remote meeting participation to a future board meeting.

Update on Blaine Watertower Agreement.

Permit Coordinator/Wetland Specialist Tomczik provided background to the Board. The City of Blaine constructed a water tower, wellhead and an access road/parking area on the property without a District permit. The City position was that a planned future water treatment plant for the site complicated the City's regulatory compliance. The City and District entered into a compliance agreement in May 2018 requiring the City to comply with the permit requirements by November 27, 2020. The City recently contacted the District requesting an extension of the deadline. The City's consultant believes a tight schedule will lead to a substantial increase to the project cost and have recommended a 2-year project timeline. District staff noted that this cost is bore by the public and recommends modifying the compliance date to 9/30/2021.

Manager Bradley asked if there would be an environmental harm due to the delay.

Dan Schluender, City of Blaine replied 95% of the agreement can be met by the current deadline. BMPs will be built but won't go live/restoration until the project is complete.

Permit Coordinator/Wetland Specialist Tomczik replied the construction would require temporary erosion control measures.

The Board by consensus agreed to modify the compliance date of the agreement and requested this item to be brought to a Board meeting for action.

Update on Landowner Complaint on Washington Judicial Ditch 5.

Public Drainage Inspector Tom Schmidt provided background information on the location of WJD5 system and history of minor maintenance performed by the District. The concern rises from a complaint from a landowner, Brian Husfeldt, about non-functioning public drain tile on his property.

This system is not part of the District current recommended list of public drainage repair projects for 2019 but the Public Drainage inspector recommends some investigative work at the outlet at WJD #2 and some other investigations further up from the outlet in order to try and provide some relief this year.

The Board by consensus directed staff to contact the landowner and perform the recommended minor maintenance.

Discussion of Long-Range Planning for Capital Improvement Plan (CIP).

Administrator Belfiori stated that the Board annually reviews this list as a part of their budgeting process. This year the list is a product of the Boards strategic planning and Chapter 4 WMP discussions/work. Administrator Belfiori reviewed the proposed 2020 budget planning and development schedule.

Update on Ramsey County Ditch (RCD) 2 3 5 Basic Water Management Project.

Project Manager Kyle Axtell stated for phase two of this project, a suite of projects was compiled by the District and cities. He reported that in the last two weeks he reconnected with the cities to see if they had any additional information or projects to recommend. He reported the meetings went well and that HEI

- 71 will be starting with modelling the projects and flood elevations soon. Project criteria will be assembled
72 and presented to the Board this summer.
- 73 District Engineer Otterness replied that the modeling will give us a better idea on what projects can be
74 combined and which projects will give us more bang for the buck.
- 75 Project Manager Axtell replied the cities may have an idea on their own recommended suite of projects.
76 At this time there have been no funding discussions.
- 77 Project Manager Axtell informed the Board that DNR has encouraged the District to apply for their Flood
78 Damage Reduction grant. The DNR needs to submit their list of funding needs to the legislature to
79 provide a preliminary range for funding. He intends to bring this draft grant application to the 4/24/2019
80 Board meeting for action.
- 81 A legislative handout was given to the Board per President Preiner's instructions.
- 82 The workshop was adjourned at 3:08 p.m.

DRAFT

For Consideration of Approval at the April 24, 2019 Board Meeting.
Use these minutes only for reference until that time.

REGULAR MEETING OF THE RCWD BOARD OF MANAGERS

Wednesday, April 10, 2019

Shoreview City Hall Council Chambers
4600 North Victoria Street, Shoreview, Minnesota

Minutes

CALL TO ORDER

President Patricia Preiner called the meeting to order, a quorum being present, at 9:00 a.m.

ROLL CALL

Present: President Patricia Preiner, 1st Vice-Pres. Barbara Haake, 2nd Vice-Pres. John Waller, Treasurer Steven Wagamon, and Secretary Michael Bradley.

Absent: None

Staff Present: Administrator Phil Belfiori, Permit Coordinator/Wetland Specialist Nick Tomczik, District Technician Lauren Sampedro, Project Manager Kyle Axtell, Communications & Outreach Coordinator Beth Carreño, Office Manager Theresa Stasica.

Consultants: District Engineer Chris Otterness and Charlie Sawdey from Houston Engineering, Inc. (HEI); District Attorney Louis Smith from Smith Partners; and District Attorney John Kolb from Rinke Noonan.

Visitors: Steve Smits, Brian Olsen.

SETTING OF THE AGENDA

Motion by Manager Haake, seconded by Manager Bradley to approve the agenda as presented.

Motion carried 5-0.

READING OF THE MINUTES AND THEIR APPROVAL

Minutes of the March 21, 2019 AWJD3 Repair Report Public Hearing.

Motion by Manager Wagamon, seconded by Manager Bradley, to approve the minutes as presented.

Motion carried 4-0. (Manager Haake abstained)

Minutes of the March 27, 2019 Board of Managers Meeting.

Motion by Wagamon, seconded by Manager Bradley, to approve the minutes as presented. Motion carried 5-0.

35 **CONSENT AGENDA**

36 The following items will be acted upon without discussion in accordance with the staff recommendation and
37 associated documentation unless a Manager or another interested person requests opportunity for discussion:

38 **1. Table of Contents**

39 **Permit Applications Requiring Board Action**

40 No.	Applicant	Location	Plan Type	Recommendation
41 19-010	Boston Scientific	Arden Hills	Final Site Drainage Plan Wetland Alteration	CAPROC 9 items
43 19-021	City of New Brighton	New Brighton	Final Site Drainage Plan	CAPROC 6 items

45 Manager Haake asked about the plans for Permit 19-010 because it appears as though 6.5 acres of the 13
46 acres will become impervious surface. She noted that there were no images included in the packet and
47 would like additional information.

48
49 Permit Coordinator/Wetland Specialist Tomczik gave a brief overview of the site plans and location of the
50 project area. He noted that the water to the north will run to Karth Lake and the water to the south will
51 run to Valentine Lake. He explained that they will use an underground water quality and rate control
52 system including filters to treat the water along with sump catch basins to pretreat stormwater before the
53 filters.

54
55 Manager Haake asked if the underground filters were located in the parking lot.

56
57 Permit Coordinator/Wetland Specialist Tomczik stated that was generally correct; and show a diagram of
58 the plans for the underground filter location.

59
60 Manager Haake asked if there was an agreement in place that they will pull out the sediment when they
61 get full.

62
63 Permit Coordinator/Wetland Specialist Tomczik stated that in this case it is not an agreement, but a
64 declaration recorded against the property.

65
66 Manager Haake asked if there would be underground filters for Permit No. 19-021.

67
68 Permit Coordinator/Wetland Specialist Tomczik showed the site plan and noted that this is an above
69 ground infiltration system, rather than a filtration system like Permit No. 19-010. He explained that in
70 this case, the water goes through a soil media and into the ground.

71
72 Manager Haake asked if the system would be adequate for all of the impervious surface and be able to
73 get the water cleaned up.

74
75 Permit Coordinator/Wetland Specialist Tomczik stated that the plans are in compliance with District rules.

76
77 Manager Haake stated that for future reference, she would like images of the site plan included in the
78 packet.

79
80 Manager Bradley noted that for Permit No. 19-010, page 21 of the packet talks about wetland impacts
81 and the discussion says that they will use on-site mitigation and the previously created wetland credits
82 from a previous phase of development. He stated that the document basically says that we are letting
83 them do it this time but that they cannot do it in the future. He asked for an explanation of why it is
84 being allowed this time.

85
86 Permit Coordinator/Wetland Specialist Tomczik stated that it was previously relatively common in the
87 mid-1990s and early 2000s, for applicants to over size on-site mitigation. He stated that in this case, the
88 applicant had expanded an existing wetland and the District's past permit recognized excess wetland
89 credits.

90
91 Manager Waller asked why this practice was discontinued.

92
93 Permit Coordinator/Wetland Specialist Tomczik stated that BWSR clarified a position under State statute
94 and rule as the sole "banking" authority so there cannot be these unofficial wetland banks existing on the
95 landscape.

96
97 Manager Waller stated that he thought it was a pretty good practice that was in effect allowing
98 continuation forward, especially in any areas that are developing. He stated that he wanted to make it
99 clear to the public that this Board did not initiate this change in rule interpretation. He stated that he
100 hopes that the District can talk to BWSR as things start to develop and have them reconsider their
101 stringency.

102
103 Manager Haake stated that she agreed with Manager Waller.

104
105 Permit Coordinator/Wetland Specialist Tomczik stated that the BWSR interpretation doesn't preclude
106 Boston Scientific or other applicants from creating a wetland bank on their site or the consideration of
107 project specific on-site mitigation; however, it is when those activities occur, they need to occur within
108 the framework of a wetland bank under the State being the wetland bank official.

109
110 Manager Waller asked if that meant that the District could continue the practice as long as more
111 paperwork was completed.

Permit Coordinator/Wetland Specialist Tomczik stated that is generally correct and noted that under the banking rules there are requirements of easements, minimum size and such and so those details frame the potential for a wetland bank.

It was moved by Manager Waller, seconded by Manager Bradley to approve the Consent Agenda item for permits 19-010 and 19-021 as outlined in the above Table of Contents in accordance with RCWD District Engineer's Findings and Recommendations dated April 3, 2019. Motion carried 5-0.

2. Water Quality Grant Program Cost Share Application (Lauren Sampedro)

No.	Applicant	Location	Project Type	Eligible Cost	Pollutant Reductions	Funding Recommendation
R19-01	Pilgrim House Unitarian Universalist Fellowship	Arden Hills	Raingarden	\$12,128.25	Volume: 50% TSS: 49% TP: 45%	Not to exceed 75%; Up to \$7,500

District Technician Lauren Sampedro gave a brief overview of the cost sharing application for a rain garden at Pilgrim House Unitarian Universalist Fellowship church.

Manager Haake noted that the eligible cost is \$12,128.25 asked if the recommended funding was \$7,500 or "up to" \$7,500.

District Technician Sampedro stated that staff is recommending approval of \$7,500.

It was moved by Manager Haake, seconded by Manager Bradley to approve the Water Quality Grant Contract R19-01 as outlined in the above table, in the amount of \$7,500.00, in accordance with RCWD Staff's Recommendation and established program guidelines. Motion carried 5-0.

OPEN MIKE – LIMIT 12 MINUTES. Any RCWD resident may address the Board in his or her individual capacity, for up to three minutes, on any matter not on the agenda. Speakers are requested to come to the podium, state their name and address for the record. Additional comments may be solicited and accepted 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 an upcoming agenda.

No comments.

ITEMS REQUIRING BOARD ACTION

1. Consider City of Dellwood Local Water Plan.

District Technician Lauren Sampedro stated that the City of Dellwood submitted their revised plan on April 1, 2019 which adequately addressed all the District's comments and is consistent with the District's 2010 Watershed Management Plan. She noted that Dellwood has identified a few water resource issues such as drainage or flooding issues and the City is involved in three TMDLs. To address these issues, the City of Dellwood will investigate potential solutions for the drainage issues which may result in a partnership with the District, the City and MnDOT. She noted that they are considering replacing culverts under Peninsula Road, and Highway 244's culverts may also need repair or replacement. To address the impaired waters, the City of Dellwood will work with the District and adjacent communities to meet the categorical waste load allocations for the Bald Eagle Lake and Peltier and Centerville Lake TMDLs, and the City will enforce its existing animal waste ordinance for the Upper Mississippi River Bacteria TMDL. Staff finds that the City of Dellwood's local water plan is consistent with District and State requirements and recommends approval.

Manager Haake stated that she wanted to acknowledge that District Technician Sampedro is doing an excellent and thorough job.

Motion by Manager Haake, seconded by Manager Bradley to adopt Resolution 2019-10: Approving Dellwood Local Water Management Plan.

THEREFORE, BE IT RESOLVED that the RCWD Board of Managers hereby approves the City of Dellwood's local water management plan, as submitted on April 1, 2019.

ROLL CALL:

Manager Waller – Aye

Manager Haake – Aye

Manager Bradley – Aye

Manager Wagamon – Aye

President Preiner – Aye

Motion carried 5-0.

2. Consider City of Saint Anthony Final Pay Request #10 for Mirror Lake Stormwater Improvement Project.

Project Manager Kyle Axtell stated that he thought the District was done with this back in December, however there were engineering expenses that were not yet submitted at that time, so this is the final payment of those outstanding expenses. He stated that this is the true final pay request and the project is completed.

Motion by Manager Haake, seconded by Manager Waller, to approve the City of Saint Anthony's reimbursement request of \$2,471.88 pursuant to the August 25, 2015 Cooperative Agreement. Motion carried 5-0.

188
189 **3. Consider Final Order Directing the Repair of Anoka/Washington Judicial Ditch 3 (Phase 1).**

190 Administrator Phil Belfiori noted that the Board had held an informational meeting to allow the
191 landowners affected by the repair to become familiar with the project. He noted that the public
192 hearing was held on March 21, 2019 where the Board directed staff to prepare a set of findings
193 and order for the repair of Anoka/Washington Judicial Ditch 3 (Phase 1). He stated that the
194 public hearing was continued to today's meeting for the purpose of considering and adopting the
195 findings for the repair. He noted that there were no written comments received and that John
196 Kolb, the drainage attorney is in attendance if there are any questions.

197
198 President Preiner recessed the regular Board Meeting at 9:23 a.m. and reconvened the Public
199 Hearing.

200
201 Steve Smits, 4620 Flora Way N, Hugo, noted that he is here representing Creekside Villas Home
202 Owners Association. He stated that he thinks that the communication about this project has
203 been less than adequate and everyone is very concerned. He asked if they can be involved in
204 understanding the extent of tree removal and repairs in the area.

205
206 District Attorney John Kolb stated that Bryan Bear had raised this issue at the main portion for the
207 public hearing because based on the direct notice for landowners, some of the developments that
208 are adjacent to the ditch are owned by the City, so they had not received notice. Mr. Bear had
209 recommended that there be future meetings with landowners relating to the scope of the project
210 and tree removal and that the District make specific contact with the associations affiliated with
211 the developments, including Creekside Villas. He stated that this is included in the order and
212 staff has a plan in place to gather the correct contact information for those individuals.

213
214 Manager Bradley asked if there would be another public hearing where these individuals and
215 associations can site down with the District to go lot by lot on a set of drawings and see how the
216 project may affect them.

217
218 District Attorney Kolb stated that there is not a subsequent public hearing scheduled but they are
219 planning at least one set of informational meetings with the landowners that will be specifically
220 noticed. He stated that it will follow the format that Manager Bradley described and will have
221 maps of the maintenance corridor which will be laid out parcel by parcel. He stated that this will
222 give the individuals a chance to understand the project and also give feedback to the engineers
223 that are designing the specific scope of the project in order to address concerns raised at those
224 meetings.

225
226 Mr. Smits asked what the approximate timing of these information meetings will be.
227

District Attorney Kolb stated that depending on the outcome of today's vote, staff was looking at having the meetings over the next 3 to 6 months.

District Engineer Otterness stated that he agreed with the approximate timeframe of 3 to 6 months for the meetings. He noted that prior to the public information meeting, staff will be completing a site investigation along the ditch.

President Preiner closed the public hearing at 9:29 a.m. and reconvened the regular Board meeting.

Motion by Manager Preiner, seconded by Manager Wagamon, that the consideration of Resolution 2019-11: Final Order Directing the Repair of Anoka/Washington Judicial Ditch 3 (Phase 1) be postponed indefinitely.

President Preiner read aloud the following statement and asked that it be included verbatim in the minutes:

The Board directed preparation of the resolution at the recessed final hearing considering the repair of AWJD 3 on March 21, 2019. The findings are consistent with the proceedings including all comments and evidence presented at the hearing. However, more recently, introduction and progress of House File (HF) 2314 and Senate File (SF) 2372 has the potential of changing both the basis of funding presented at the hearing and the Board's ability to execute the repair under its current budgeting assumptions. Because the introduction of HF 2314 and SF 2372 calls into question the Board's ability and authority to conduct the proposed repair as planned, I feel it is appropriate to postpone consideration until we can be sure that our current funding process and budgeting assumptions remain valid—for example, until HF 2314/SF 2372 or other, similar legislation is withdrawn, fails or is vetoed.

Unfortunately, because the fate of HF 2314/SF 2372 or similar legislation is unclear, this motion must be for indefinite postponement. The legislation proposed in HF 2314 and SF 2372 or anything similar to it where specifically allocation of ad valorem tax revenues is required on a county basis—undermines the historic practices and policies of the RCWD, undermines the fundamental principles of watershed law and the metropolitan surface water management act, undermines principles of one-watershed planning and watershed-based funding, and calls into question the validity of our current planning efforts toward adoption of our watershed management plan update. I urge the Board to consider the broader implications of this legislation as it relates to other current and future actions, programs and projects of the RCWD and invite a special meeting for the purpose of discussing the policy implications of their proposed legislation.

268 Manager Bradley stated that he has been trying to figure out how the District can proceed if that
269 legislation was enacted. He stated that the District would clearly want to do this project because it
270 needs to be done, but he likes the idea of having a meeting to discuss this in greater detail. He
271 stated that one of his ideas is that a Water Management District for Washington County may need
272 to be established. He reiterated that this needs to be discussed and supports President Preiner's
273 idea to hold a special meeting.

274
275 Manager Wagamon stated that he agrees because there are too many things up in the air at this
276 point so he supports President Preiner's idea.

277
278 Manager Haake stated that this would set a precedent and thinks that a special meeting or
279 workshop should be scheduled so the Board can dig into this more thoroughly to see what the
280 alternatives are.

281
282 Manager Bradley asked District Attorney Kolb what would happen if the Board passed this
283 resolution and the legislation passes. He asked at what point the Board can go back and say to
284 the people that we said it was going to be free, but now it isn't.

285
286 District Attorney Kolb stated that Manager Bradley's question goes to the fundamental basis of
287 funding the repair of Anoka/Washington Judicial Ditch 3 that was presented at the public hearings
288 which was part of the trunk conveyance policy which is ad valorem tax District-wide. He stated
289 that the legislation that is proposed has a potential effective date of January 1, 2020 which is prior
290 to the planned and budgeted implementation of this repair. He stated that he thinks the Board
291 would have to reopen the hearing, re-establish a basis for funding, and go back with a new plan
292 which appears to be what President Preiner is suggesting. He stated that the indefinite
293 postponement can be removed by a majority vote of the Board and placed back on the agenda for
294 consideration in the future.

295
296 Manager Waller stated that he feels President Preiner is speculating that this particular legislation
297 is going to be enacted and it may not. He stated that there has been no committee hearing so it
298 sounds like it is not going to go anywhere at this time.

299
300 District Attorney Kolb stated that the bill has bipartisan authors in both the Senate and the House.
301 He explained that one of the authors is the chair of the Environmental Policy and Natural
302 Resources and Finance Committee, so there is "horsepower" behind the bill and it will remain
303 viable until the end of the biennium.

304
305 Manager Waller reiterated that he felt President Preiner was speculating as to whether or not the
306 project should move forward depending on funding, but the Board has said that the project should
307 move forward. He stated that he believes the project could go forward and if there needs to be a
308 change in how it is funded later, that change can be made closer to the implementation stage.

309 He stated that he does not support the motion for postponement and does not think the funding
310 is that big of an issue.

311
312 Manager Bradley stated the District could ask that the legislation be withdrawn.

313
314 Manager Wagamon stated that he does not want to proceed without the Board knowing how this
315 will be funded.

316
317 Manager Haake stated that you cannot go out and buy a car until you know where the funding is
318 coming from and feels this is a similar situation.

319
320 Manager Waller stated that the Board knows how it will be funded currently and there have been
321 issues in the past where the funding has been changed. He gave examples of Ditches 4 and 15
322 where an extra maintenance cost was added to it which was not the idea when the project began.

323
324 Manager Bradley stated that he hopes the project is not delayed, but feels it is something the
325 Board needs to work its way through.

326
327 President Preiner stated that she would like to set a special meeting time in order to discuss this.

328
329 ***Motion carried 4-1 (Waller opposed).***

330
331 **4. Consider Houston Engineering, Inc. Task Order 2019-008 for RCWD Legal Boundary Technical**
332 **Review.**

333 Administrator Phil Belfiori explained that in the 2019 budget, the Board included a new program to
334 address boundary adjustments in a more systematic manner around the District. He stated that
335 this agenda item is a task order for Houston Engineering to initiate the technical process of
336 confirming the District's hydrologic and associated political boundary, the common boundary with
337 the Sunrise River Water Management Organization (SRWMO), Coon Creek Watershed District
338 (CCWD) and the Mississippi Water Management Organization (MWMO). He noted that the task
339 order does not include any work related to the BWSR boundary adjustment petition process.
340 Staff recommends approval.

341
342 President Preiner asked for details of what areas will be looked at and asked if there was a map.

343
344 District Engineer Otterness pointed out the boundaries that will be reviewed using a map. He
345 stated that this process is very similar to the process that was gone through about 3 years ago
346 where the entire length of the boundary with Washington County was reviewed.

347
348 Manager Haake asked how many acres was covered by this boundary because it seems very large.

District Engineer Otterness stated is the length of the boundary to be reviewed is substantial and is roughly a third of the border of the RCWD. He noted that they will utilize information that they have available at their office and then do field verification if there are questions.

Manager Haake asked if the money that may be captured justifies the expense of doing a boundary review and asked what county the MWMO was part of. She stated that when the District does this, there will be projects within here that need to be done and asked if the District would be getting enough money to be able to ad valorem throughout the whole project.

District Engineer Otterness stated that he doesn't know if there will be a net increase or decrease in parcels assigned to the District as a result of this exercise. He stated that the purpose of this process is to try to serve the residents best by managing those properties that are draining into the District. He stated that there are a few instances where they have already identified an issue with the boundary. He gave examples of properties in Blaine within the District boundary, that were actually draining into the CCWD. He stated that the area of the MWMO the District will be looking at will only be the portion within Anoka County. He stated that there has been discussion about implementing this same process within Ramsey County to essentially complete the boundary within the District all the way through.

District Administrator Belfiori stated that this was vetted and approved by the Board in their 2019 budget and is also incorporated into Chapter 4 of the draft Water Management Plan. He stated that the main purpose of this is to rectify boundaries that were set before there was any digital technology.

Manager Waller state that this is a long-term program that began with the Vadnais Lake Area WMO and worked northward along the east side boundary and this is turning around and coming down to the other end. He stated that he did not think it would make a dramatic difference in the size of the District, but is something that the District should continue to do because it can help resolve local problems.

District Engineer Otterness noted that within the task order, the Lino Lakes portion of Anoka County that borders on Vadnais Lake Area WMO is not included. He noted that this area would make more sense to review when the District looks at the remainder of Ramsey County

Motion by Manager Bradley, seconded by Manager Wagamon, to approve the Houston Engineering request for services with a total cost of \$38,000 as defined in attached HEI memo dated March 29, 2019 and authorize the Board President to execute the document.

President Preiner asked when this would be completed.

District Engineer Otterness stated that he is anticipating completion by the end of the year.

Motion carried 5-0.

5. Consider 2018 District Financial Report and Audit.

Administrator Phil Belfiori stated that on April 1, 2019, the District received the 2018 Financial Report and Audit. He noted that there were no deficiencies identified in internal control that they considered to be a material weakness and no instances of non-compliance. He thanked Treasurer Wagamon for his leadership on this and Theresa Stasica for doing an outstanding job. He stated that this "clean" audit is a testament to her deliberate and professional work. Manager Wagamon stated that he wanted to give kudos to the staff because this is amazing to repeatedly have clean audits.

Motion by Manager Wagamon, seconded by Manager Bradley, to accept and authorize the filing of the Rice Creek Watershed District 2018 Annual Financial Report and Audit. Motion carried 5-0.

6. Consider Revision to RCWD Financial and Accounting Manual-Cash and Investment Policy.

Administrator Phil Belfiori explained that staff would like to update the financial accounting manual, cash and investment policy to include the products of the 4M fund. He stated that once the Water Management Plan is approved, staff will come before the Board with a proposed investment program utilizing more of the 4M Fund financial products for them to consider.

Motion by Manager Bradley, seconded by Manager Haake, to adopt the Revisions to the RCWD Financial and Accounting Manual dated April 10, 2019 with any non-material changes and direct the Administrator to incorporate it into the District's Policy and Procedures Manual. Motion carried 5-0.

7. Consider Check Register dated April 10, 2019, in the amount of \$43,020.25 prepared by Redpath and Company.

Motion by Manager Wagamon, seconded by Manager Haake, to approve check register dated April 10, 2019, in the amount of \$43,020.25, prepared by Redpath and Company. Motion carried 5-0.

ITEMS FOR DISCUSSION AND INFORMATION

1. Engineers Report and Timeline.

No discussion.

2. Managers Update.

President Preiner asked how soon the special meeting could be set up to talk about the proposed legislative bills.

432 Administrator Belfiori stated that he does not have potential dates at this time but suggested that
433 the Board pass along dates that they are available.

434
435 Manager Waller suggested that the agenda and discussion points be set before picking a date for
436 the meeting.

437
438 The Board discussed potential meeting dates and times.

439
440 ***Motion by Manager Haake, seconded by Manager Bradley, to schedule a workshop at the***
441 ***conclusion of the regular Board meeting on April 24, 2019 to be held in whatever room is***
442 ***convenient to the City of Shoreview, in order to have an open discussion about what the***
443 ***proposed legislation in HF 2314 and SF 2372 and the possible effect on the District. Motion***
444 ***carried 5-0.***

445
446 Manager Waller stated that he had attended the legislative water committee meeting. He noted
447 that Jason Mackle, of the DNR was there and made comments that he expected White Bear Lake
448 to be outflowing because the St. Paul Water Authority had stopped pumping and using some wells
449 in the Vadnais Heights area. He gave a brief history of the age of the wells and the pumping.

450
451 Manager Bradley stated that the Bald Eagle Lake Area Association has voted that they would like
452 to proceed with the assumption that there would be a renewal of the water management district
453 and move forward working with the District. He stated that they are having a fundraiser on April
454 11, 2019.

455
456 President Preiner noted that she was at the Capital Region Watershed District for MAWD and
457 congratulated them on their beautiful new facility.

458 459 **ADJOURNMENT**

460 ***Motion by Manager Haake, seconded by Manager Waller, to adjourn the meeting at 10:13 a.m. Motion***
461 ***carried 5-0.***

Draft

RCWD BOARD OF MANAGERS WORKSHOP

Monday, April 15, 2019, 1:00 p.m.

Shoreview City Hall, Grass Lake Room
4600 North Victoria Street, Shoreview, Minnesota

1

2 The Board convened workshop at 1:00 p.m.

3 Attendance: Board members Patricia Preiner, John Waller, Steve Wagamon, Barbara Haake and Mike
4 Bradley.

5 Absent:

6 Staff: Administrator Phil Belfiori, Project Manager Kyle Axtell; Office Manager Theresa Stasica (portion
7 of meeting).

8 Consultants: District Engineer Chris Otterness– Houston Engineering (HEI), Attorney John Kolb-Rinke
9 Noonan.

10 Visitors: Bryan Bear, City of Hugo.

11 **Discussion-Establish Agenda for 4/24/19 special workshop re: proposed HF 2314/SF 2372.**

12 President Preiner stated the reason for the meeting today is to discuss the 4/10/19 Board motion to
13 postpone AWJD3 repair order. President Preiner read a part of the statement: I feel it is appropriate to
14 postpone consideration until we can be sure that our current funding process and budgeting assumptions
15 remain valid. President Preiner felt the matter need to be discussed sooner for informational and detail
16 gathering.

17 Attorney John Kolb distributed to the Board a Rinke Noonan memo: *Implications of House File 2314,*
18 *Senate File 2372 dated 4/15/19 and a copy of the proposed legislation.* Mr. Kolb believed there were two
19 parts to the proposed legislation. Part 1: For projects authorized under this chapter and chapters 103B
20 and 103E that the Rice Creek Watershed District undertakes, a minimum of 90 percent of the money
21 collected in Washington County through special assessments and ad valorem taxes must be spent on
22 projects in Washington County. Part 2: The Rice Creek Watershed District must annually report to the
23 Washington County Board of Commissioners the amount of money the district collected in Washington
24 County through special assessments and ad valorem taxes and the amount spent on projects undertaken
25 in Washington County in the preceding year. In his opinion, Mr. Kolb believed the District already was
26 providing this information through special assessments and ad valorem/tax levy data to Washington
27 County and in detail through the District's Annual Report and their annual budget workshop presentation
28 with the Washington County Board of Commissioners.

29 Mr. Kolb reviewed with the Board his memo and opinion on how the proposed legislation statement of
30 "90 percent of the money collected in Washington County must be spent on projects in Washington
31 County" per Chapter 103B.201-B.253 (Metropolitan Surface Water Management Act), Chapter 103D (The
32 Watershed Law), and Chapter 103E (The Drainage Code) would effect the District's operations, projects
33 and current exercise in writing the watershed management plan.

34 Manager Bradley stated in a month we will know the outcome of the proposed legislation. He believed
35 that the District should move forward with AWJD3 phase 1 repair project by preparing and approving the

36 findings. He believed the right thing to do is to move forward and continue to get the message out that
37 we oppose the legislation, but that the District should continue to work as usual on District operations
38 including the writing of the WMP amendment.

39 The Board discussed with staff and consultants the District's future financial obligations and potential
40 funding scenarios for the AWJD3 repair project.

41 Attorney Kolb stated that at a regular meeting, the Board can bring back the item: "Consider Final Order
42 Directing the Repair of Anoka/Washington Judicial Ditch 3 (Phase 1)" for consideration. Depending on the
43 outcome of the proposed legislation, additional language can be added to the final Order to address
44 funding or if ad valorem funding is unavailable, the District can hold a public hearing to re-open funding
45 for the AWJD3 funding.

46 The Board discussed communications with the partners and potential of the bill's authors to withdraw the
47 legislation.

48 Attorney Kolb stated the Board, at their April 24, 2019 regular meeting, can add an item to consider
49 removing the indefinite postponement of item: "Consider Final Order Directing the Repair of
50 Anoka/Washington Judicial Ditch 3 (Phase 1)". He informed the Board that they can include a date
51 certain for further consideration after the legislative session is over or direct attorney to draft findings to
52 address potential legislation changes. The special workshop scheduled for April 24th following the regular
53 board meeting can be cancelled as there is no longer any business that needs to be discussed.

54 The Board by consensus agreed to add an agenda item to the April 24, 2019 regular meeting, that the
55 indefinite postponement of item: "Consider Final Order Directing the Repair of Anoka/Washington Judicial
56 Ditch 3 (Phase 1)" be considered for removal and that the motion at the Board meeting include language
57 to return the matter for consideration at its June 12, 2019, regular meeting. The Board agreed by
58 consensus to ask Attorney Kolb to include within the AWJD3 final order findings a statement addressing
59 legislative change to the District's current funding authorities if applicable.

60 Attorney Kolb asked District Engineer Otterness if action is taken by the Board for the AWJD3 final order
61 of the repair project at the Board's first meeting in June, would the project be able to remain on schedule.

62 District Engineer Otterness replied yes, but maintaining the project schedule could become more
63 challenging if the order was delayed substantially later.

64 President Preiner thanked Bryan Bear, City of Hugo Administrator, for attending the workshop and asked
65 if he had any comments.

66 Bryan Bear, City of Hugo Administrator, stated that the City Council was concerned by the letter sent from
67 RCWD on April 10, 2019 and feels that the Board should continue the project as discussed at the public
68 hearing. He also mentioned that the topic was not specifically on the agenda for tonight's city council
69 meeting, but may come up.

70 President Preiner stated that the intention of the letter was simply to let the City know that the Board
71 needed to reevaluate its options moving forward in light of the pending legislation.

- 72 The Board by consensus directed staff to cancel the April 24, 2019 workshop following the regular Board
73 meeting.
- 74 The workshop was adjourned at 2:08 p.m.

CONSENT AGENDA

The following items will be acted upon without discussion in accordance with the staff recommendation and associated documentation unless a Manager or another interested person requests opportunity for discussion:

Table of Contents-Permit Applications Requiring Board Action

No.	Applicant	Location	Plan Type	Recommendation
14-018	OP3 Headwaters, LLC	Forest Lake	Land Development	Amendment #2-CAPROC 5 items
18-099	Mounds View Public Schools	Shoreview	Final Site Drainage Plan	CAPROC 9 items
19-023	Dewitt Homes	Mahtomedi	Final Site Drainage Plan	CAPROC 5 items
19-031	Construction Technology Inc.	Columbus	Final Site Drainage Plan	CAPROC 7 items
19-034	City of Fridley	Fridley	Final Site Drainage Plan	CAPROC 3 items

It was moved by Manager _____ and seconded by Manager _____, to approve the consent agenda as outlined in the above Table of Contents in accordance with RCWD District Engineer's Findings and Recommendations, dated April 17 & 18, 2019.

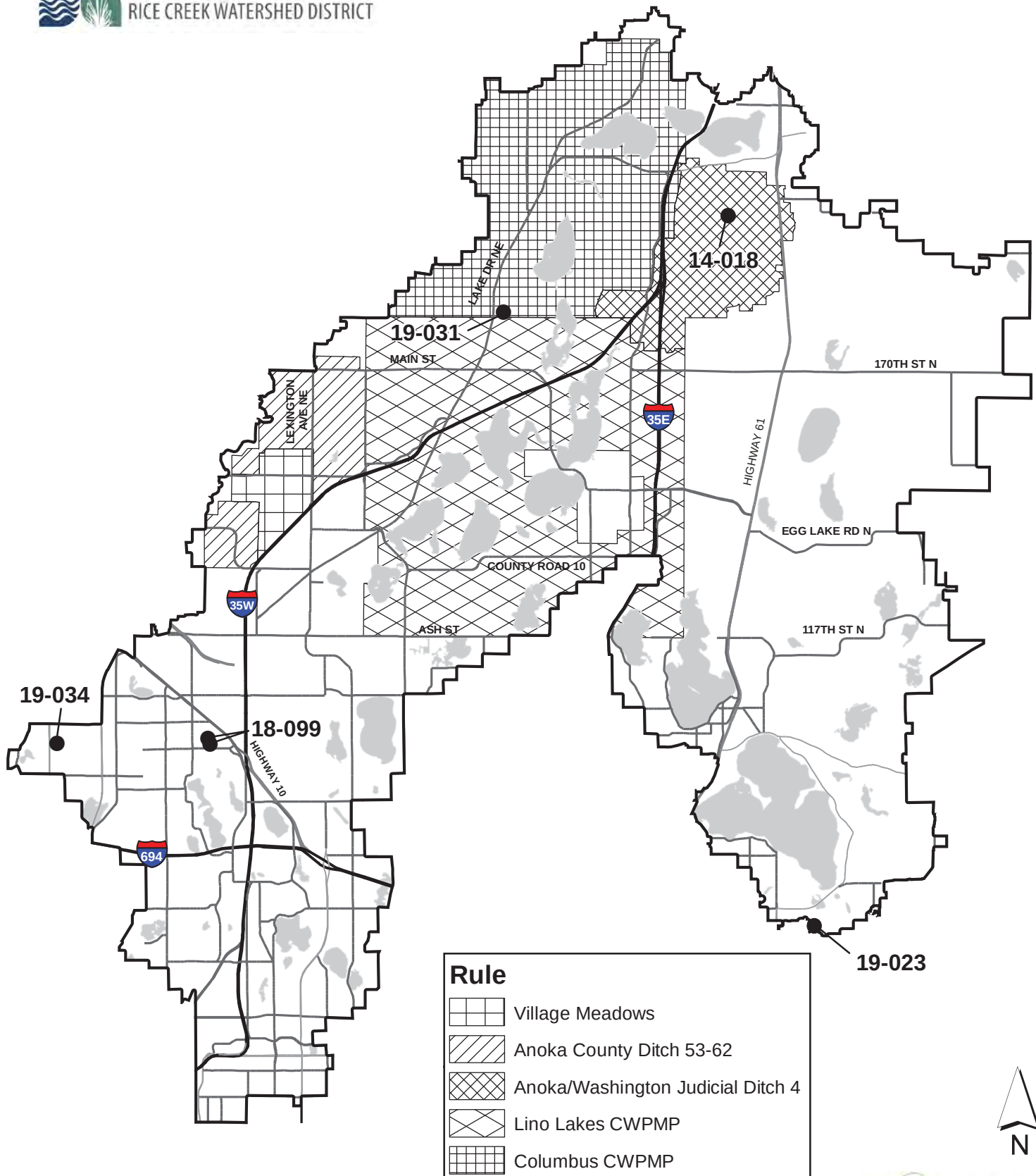
**RICE CREEK WATERSHED DISTRICT
CONSENT AGENDA**

April 24, 2019

It was moved by _____ and seconded by _____
_____ to Approve, Conditionally Approve Pending Receipt
Of Changes, or Deny, the Permit Application noted in the following Table of Contents, in
accordance with the District Engineer's Findings and Recommendations, as contained in
the Engineer's Findings and Recommendations, as contained in the Engineer's Reports
dated April 17 & 18, 2019

TABLE OF CONTENTS

<u>Permit Application Number</u>	<u>Applicant</u>	<u>Page</u>	<u>Recommendation</u>
Permit Location Map		24	
14-018	OP3 Headwaters, LLC	25	CAPROC
18-099	Mounds View Public Schools	33	CAPROC
19-023	DeWitt Homes	39	CAPROC
19-031	Construction Technology Inc	45	CAPROC
19-034	City of Fridley	51	CAPROC





WORKING DOCUMENT: This Engineer's report is a draft or working document of RCWD staff and does not necessarily reflect action by the RCWD Board of Managers.

Permit Application Number:

14-018

Permit Project Name:

Headwaters 9th Addition

Applicant:

OP3 Headwaters, LLC c/o The Excelsior Group
Attn: Paul Thomas
1660 Highway 100 S Suite 400
St. Louis Park, MN 55416
Ph: 952-525-3208
paul.thomas@excelsiorllc.com

Consultant:

Melissa Barrett
Kjolhaug Environmental Services
26105 Wild Rose Lane
Shorewood, MN 55331
Ph: 952-401-8757
Fx: 952-401-8798
melissa@kjolhaugenv.com

Fran Hagen
Westwood Professional Services
7699 Anagram Drive
Eden Prairie, MN 55344
Fx: 952-937-5822
fran.hagen@westwoodps.com

Project Name: Headwaters 9th Addition

Purpose: LD – Land Development; Plan Outlot A, Headwaters 7th into 54 single family residential lots

Site Size: Parcel is 27.27± acres, with 27.27± acres of disturbed area and 11.6± acres of new impervious surface area.

Location: Southwest of the intersection of 200th Street North and Fenway Avenue North, Forest Lake

T-R-S: NE ¼ Section 30, T32N, R21W

District Rule: C, D, E, F - Anoka/Washington Judicial Ditch 4 CWPMP

Recommendations: CAPROC

It is recommended that this Permit Application be given Conditional Approval Pending Receipt of Changes (CAPROC) and outstanding items related to the following items.

Amendment #2 & Permit Re-issuance:

The permit was initially issued on 10-5-2015 and subsequently extended on 3-30-2017. The applicant is requesting a second extension of the permit for unfinished lot work. Since this is the second permit extension, the project was reviewed against current rules, which includes utilizing Atlas 14. The scope of the project has not changed, and all permanent stormwater features have been constructed. The Emergency Overflows (EOF) of both ponds have been confirmed to be compliant per RCWD review on 3/1/2019. All roads have also been constructed other than portions of Falk Court North. The advisory section below remains true regarding the freeboard requirements.

In addition to the permit extension request, a revised Wetland Replacement plan Application was received on 3-13-2019 to amend the wetland mitigation type. The previously approved application included on-site wetland mitigation to meet the requirement. Due to complicating site conditions, the applicant is proposing to meet wetland mitigation requirements through the purchase of wetland bank credits. The applicant is proposing to purchase 4,016 ft² (0.0922 acres) of wetland credit from wetland bank #1409. All text relating to the first amendment has been accepted and is no longer italicized. All new text relating to the second amendment and permit re-issuance has been italicized.

Advisory: The applicant formally requested a two-year permit extension on 3-13-2017 with no changes to the approved plans. Significant project completion has been achieved since permit issuance. Per the applicant's predictions, work is expected to continue into 2019. District staff reviewed the project with updated regulatory floodplain modeling. The regulatory floodplain has changed from 897.47' (at the time of permit issuance) to 898.8' per updated Atlas 14 modeling. With the change in floodplain, some proposed lots are projected to have reduced freeboard between the lowest openings and regulatory floodplain level. At least 1' of freeboard will still be achieved per the approved plans and updated floodplain data. The District is advising the applicant of the change in regulatory floodplain from the previous modeling; staff recommends a consideration of raised freeboard, to meet 2' of separation, for any proposed lots that may be affected.

Amendment: This application was given CAPROC on 6-25-2014, which expired on 6-25-2015. On 7-2-2015 the District received a new permit application for the project. The applicant has indicated that the scope of the project has not changed and only the name will be changed (from 8th to 9th Addition); therefore, the approval of the application is delegated to the District Administrator. All previous changes related to this amendment have been accepted.

Administrative

1. The applicant must remove the Declaration of Restrictions and Covenants for the previous on-site mitigation area.
2. Applicant must provide a "Transaction Form for Withdrawal of Wetland Credits from the Minnesota Wetland Bank", which is signed by the bank user and the bank seller
3. The applicant must provide proof of BWSR debiting wetland bank for the correct amount and type of wetland credit.
4. As a condition of permit issuance under Rule F.6(e)(9), the property owner must revise and file on the deed a declaration in a form approved by the District removing the previously proposed on site mitigation from the WMC buffer and within the final WMC and other wetland buffers approved as part of a permit under this Rule.
5. The applicant must submit a copy of receipt from County Recorder and signed/notarized legal document(s).

Stipulations: The permit will be issued with the following stipulations as conditions of the permit. By accepting the permit, applicant agrees to these stipulations:

1. ~~The applicant must provide an as-built survey of the flood plain mitigation area to the District for verification of compliance with the approved plans. As-built provided which verified compliance.~~
2. ~~An as-built survey of all stormwater BMPs (ponds, rain gardens, trenches, swales, etc.) is to be submitted to the District for verification of compliance with the approved plans before return of the surety. As-built provided which verified compliance.~~
3. ~~The wetland buffer must be indicated by permanent, freestanding markers at the buffer upland edge, with a design and text approved by District staff in writing. After installation, provide the District with a map showing the location of the markers and their GPS location points. Has been provided.~~

Exhibits:

1. Final plan set, dated and received 9-29-2015.
2. Preliminary plan set containing sheets 1-12 of 12, dated 6-6-2014 and received 6-9-2014.
3. Permit application, dated 3-4-2014 and received 3-4-2014.
4. Permit application checklist, undated and received 3-4-2014.

5. Preliminary Stormwater Runoff Calculations, including project narrative, pond volume analysis, HydroCAD modeling for the 2, 10, & 100 year rain events for the existing and proposed conditions, and existing and proposed drainage maps, dated 2-28-2014 and received 3-4-2014.
6. Preliminary Stormwater Runoff Calculations, including project narrative, HydroCAD modeling for the 2, 10, & 100 year rain events for the existing and proposed conditions, 2.5-inch NURP storm, and existing and proposed drainage maps, dated and received 4-25-2014.
7. Geotechnical report, dated 7-11-2005 and received 3-4-2014.
8. Wetland permit application, dated 3-3-2014 and received 3-3-2014.
9. WCA Notice of Application, dated 3-5-2014.
10. Email – Wetland Application Withdrawal, dated 3-24-2014 and received 3-24-2014.
11. Wetland permit application, dated 5-6-2014 and received electronically 5-6-2014, hard copy received 5-7-2014.
12. WCA Notice of Application, dated 5-8-2014.
13. WCA completeness checklist, dated 5-8-2014.
14. Delineation Addendum & Wetland Permit Application Addendum, Headwaters 8th Addition, Forest Lake, MN dated 6-6-2014 and received electronically on 6-6-2014.
15. Wetland response by Kjolhaug Environmental Services dated 6-6-2014 and received 6-9-2014.
16. Permit Application, dated 7-2-2015 and received 7-6-2015.
17. Project narrative, dated 7-2-2015 and received 7-6-2015.
18. *Erosion control contact information, received 9-25-2015.*
19. *NPDES Permit and SWPPP, received 9-25-2015.*
20. *Email from City stating D&U easement provided, received 10-2-2015.*
21. *Recorded WMC easement, received 10-1-2015.*
22. *Recorded WMC buffer declaration, received 10-1-2015.*
23. *Recorded Declaration of Restrictions and Covenants, received 10-1-2015.*
24. *Surety and escrow agreement, received 10-5-2015.*
25. *Revised Wetland permit application dated and received 3-13-2019.*
26. *Notice of Application for Revised Wetland Application dated 3-25-2019.*
27. File 13-091.
28. File 13-146R.

Findings:

1. Description – The project is for the land development of a 27.27± acre parcel into 54 lot residential subdivision, which also involves the construction of new roads, and two stormwater ponds designed to treat runoff from the proposed roads and regionally existing roads (13-091) for the adjacent LILA School (13-092). The site does not contain any existing impervious area. The site's stormwater runoff will continue to flow to the west into a wetland, and then off-site into JD4, and ultimately to the Upper Rice Creek with Peltier Lake being the Resource of Concern. The applicant has submitted an \$11,475 application fee, which corresponds to 11.6± acres of new/redeveloped impervious surface, 27± acres of disturbed area, and floodplain mitigation. *The applicant is applying to eliminate the previously approved on site wetland mitigation and alter the required buffer conditions. The previous mitigation was restoration of an onsite degraded wetland along with native vegetation buffer area; however, the drained dry peat soils and extensive weed seed bank have compromised establishment of both features. The applicant is proposing to meet*

the wetland mitigation requirement through the purchase of wetland bank credits from wetland bank #1409.

2. Stormwater – The applicant is proposing the BMPs as described below for the project:

Proposed BMP Description	Location	2.5-inch NURP Volume AF (acre-feet)	Dead Storage Volume (AF)
North Pond (Reviewed under permit 13-091)	Northwest corner of the project area	4.408±*	8.22±
South Pond	Southwest corner of the project area	0.563±	0.665±

* Includes volume requirement from 13-091 Headwaters 7th and current permit within the contributing drainage area (2.972± AF) and the 13-092 LILA school (1.436± AF).

Soils on site are primarily HSG D sandy lean clays (CL). Thus, infiltration is not considered feasible and the NURP ponds are acceptable to meet the water quality requirement. Per Rule C.6(c)(1), the Water Quality requirement is 2.2-inches over the new/reconstructed area (11.6± acres) for a total requirement of 2.13± acre feet, however the storm water design criteria C.9(d)(2), which requires dead storage from the 2.5-inch storm governs and has been met. Skimming has been provided at the outlet structures. Approximately 97% of the project has been treated. Untreated impervious surface has been minimized to a small portion of the rear roof area (which do not generate TSS), thus additional removal of TSS is not required. The applicant has met all the Water Quality requirements of Rule C.6 and the design criteria of Rule C.9(d).

The North Pond was reviewed and has CAPROC status under permit 13-091. The HydroCAD modeling under 13-091 sized the pond assuming full build out conditions in the contributing drainage area (which included a portion of this project area). The HydroCAD modeling submitted under this permit application is a refinement of the current proposed project area from the previously reviewed calculations and considered the most current, but does not change the previous approval; compliance was demonstrated under both reviews. The site is not within the District's Flood Management Zone.

Drainage Area	2-year (cfs)		10-year (cfs)		100-year (cfs)	
	Existing	Proposed	Existing	Proposed	Existing	Proposed
To wetland	48.29	29.03	103.18	60.34	179.92	104.87

These ponds were developed under the 7-1-2013 District Rules which used TP-40 precipitation values in modeling. The 11-12-2014 District Rules now requires applicants to submit modeling using Atlas 14 precipitation values. The drainage area for the North Pond includes the neighboring 12.33± acre parcel to the east. Modeling of the entire drainage area with Atlas 14 values would be considered an unreasonable burden for the applicant. Analysis conducted by the District Engineer has shown that BMPs designed to be compliant with District rate control rules using TP-40 precipitation values are typically compliant when using Atlas 14 precipitation values, as indicated in a memorandum by HEI dated May 14, 2014 and titled RCWD Rule Implications of Adopting Atlas 14. The District Engineer has also evaluated freeboard requirements and found if the existing emergency overflow elevation of the BMP is 2 feet lower than the low floor/low entry elevation, then the BMP will, in nearly all cases, meet the required 1 foot of freeboard separation. Final grading plans for permit 14-018 indicate an EOF elevations of 896.8 (North Pond) and 898.1 (South Pond) and the current proposed lowest low floor elevation is 900.1. Based on these considerations (the precipitation analysis and an EOF greater than 2 feet lower than the lowest opening) and finding no site conditions to the contrary, permit 14-018 meets peak rate requirements of C.7 and freeboard requirements of C.9.

The project is not located within the Flood Management Zone and the project has met the Rule C.7 rate control requirements.

The project drains to a 6-acre wetland which has been classified as Moderately Susceptible. The wetland elevation is controlled by a culvert under 200th St. N and since the peak rates have been reduced, the bounce and inundation period for this wetland is in compliance with Rule C.8.

The applicant has complied with the freeboard requirements of Rule C.9(g).

3. Wetlands – The proposed development is within the Anoka/Washington Judicial Ditch 4 CWPMP, although JD-4 is not within the property boundary. All ditches within the property are private.

Preliminary information for the wetland delineation was received on 10-17-2013. An on-site TEP visit was held on 11-1-2013 to review wetlands identified within the non-cultivated areas prior to the end of the growing season. An official wetland delineation report was received on 11-25-2013, which included an aerial photo review for the cultivated areas. An additional TEP was held on 12-30-2013, and it was determined that the status of the most westerly area of the parcel is inconclusive, as it wasn't identified as wetland, but was mapped with an organic hydric soil and not historically farmed. It was decided that the scope of the wetland delineation should change, and the applicant would provide a revised map indicating the change in scope of the wetland delineation. The wetland delineation with a reduced project boundary scope, which removed this most westerly parcel of land, was approved on 1-30-2014.

A second wetland delineation for the most westerly parcel of land was included within the wetland permit application package and was received on 5-7-2014. The wetland delineation was noticed to the TEP and the comment period closed on 5-30-2014. A second on-site TEP visit was held on 5-28-14 to review the additional wetland delineation. The TEP commented that the western boundary should be extended to the western Area of Investigation boundary, that the northern boundary should be extended to abut Wetland 1, and that the Area of Investigation should be extended to the east to include the private drainage ditch, as it wasn't included in the previously approved wetland delineation. The applicant has responded to these TEP comments.

The most easterly ditch and adjacent wetlands are a hydrologically manipulated historic wetland complex. The southern portion of the most easterly ditch now exhibits wetland characteristics that were likely not present prior to ditch construction. The TEP observed noticeable elevation changes and a transition from organic soils to mineral soils that further supports that the most southerly end of the eastern ditch was created in upland, the purpose of which was not to create a wetland. Additionally, no wetland signatures are observable on the historic aerial photography within the southerly end of the eastern ditch. For these reasons, the TEP noted that the wetland identified within the southern end of the easterly ditch meets the definition of an "incidental" wetland" and is therefore not within the scope of the Wetland Conservation Act, as described in Mn Rule 8420.0105 Subp. D.

A wetland permit application and a MnRAM functional analysis was received on 5-7-2014 and noticed to the TEP. The applicant has provided alternatives in avoidance and minimization of wetland impact. The applicant has provided documentation for and requested sequencing flexibility on Wetland 3. The applicant has demonstrated that Wetland 3 has been degraded by annual farming practices, and that replacement of it will result in a gain in wetland function and value. The applicant has demonstrated compliance with the sequencing criteria of MN Rule 8420.0520.

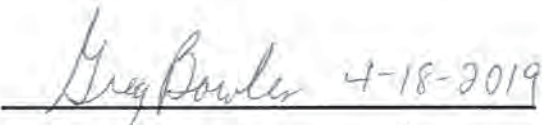
The applicant proposes 2,008 SF of wetland impact to a severely degraded, farmed wetland. Mitigation obligations for the project total 4,016 SF (replacement ratio is 2:1 for a severely degraded wetland outside of the WMC). The applicant, *in the 2019 revised wetland replacement plan*, will mitigate through *wetland credits from Moen Wetland Bank 1409. This application was noticed consistent with WCA requirements; the comment period closed, and all comments have been addressed.*

The final WMC is applied to the site and will include the buffers and the large wetland complex on the west side of the site. Within the final WMC, a small strip of land adjacent to the west of the ditch is hydrologically altered by the ditch, and did not meet wetland criteria. This area is to be included within the final WMC but due to the narrow width, no buffer seeding / management will take place, and instead the WMC buffer will be maintained on the south side of the entire wetland complex. The entire WMC will be placed under conservation easement.

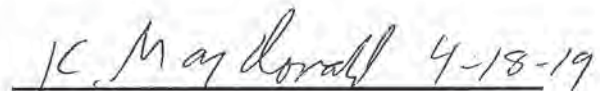
A 2019 revised vegetation management plan has been provided for the buffers as well as the WMC.

4. Floodplain – The District considers the regulatory floodplain elevation of the site to be ~~897.47~~ 898.80 (NAVD 88). The project is ~~proposing~~ *proposed* approximately 178,137± ft³ of floodplain fill (based on the TP-40 elevation of 897.47) which ~~will be~~ *was* mitigated with 188,136± ft³ of floodplain storage. This storage ~~will be~~ *was* provided between the NWL elevation and the regulatory floodplain elevation of the two proposed stormwater ponds. The applicant ~~must~~ *has* provided as-built plans of the floodplain fill areas and the mitigation areas ~~in order to demonstrate demonstrating~~ that an adequate amount of mitigation has been provided *and complied with Rule E requirements*.
 5. Erosion Control – Proposed erosion control methods include silt fence, and a rock construction entrance. Disturbed areas will be mulched and seeded, or sodded. This plan complies with the RCWD design criteria for erosion control plans. An NPDES permit is required for the project. The information listed under the Erosion and Sedimentation Control Recommendations needs to be submitted. Otherwise, the project complies with RCWD Rule D requirements.
- Erosion Control Contact:
Paul Thomas
See contact info above
NPDES Permit # C00038146
6. Documenting Easements and Maintenance Obligations – ~~Applicant must provide draft drainage and flowage easements (if required by the City), a draft maintenance declaration for review, a draft easement over the Wetland Management Corridor, a draft declaration in a form approved by the District establishing a vegetated buffer and receipt showing recordation once approved. Easements have been provided. Applicant must update the WMC as indicated in Recommendation 4 above and provide a receipt of recordation.~~
 7. Previous Permit Information – District files 13-091 and 13-146R contain information about the wetland application and the Headwater's 7th Addition permit application. Permit 13-092 is for the adjacent school project.

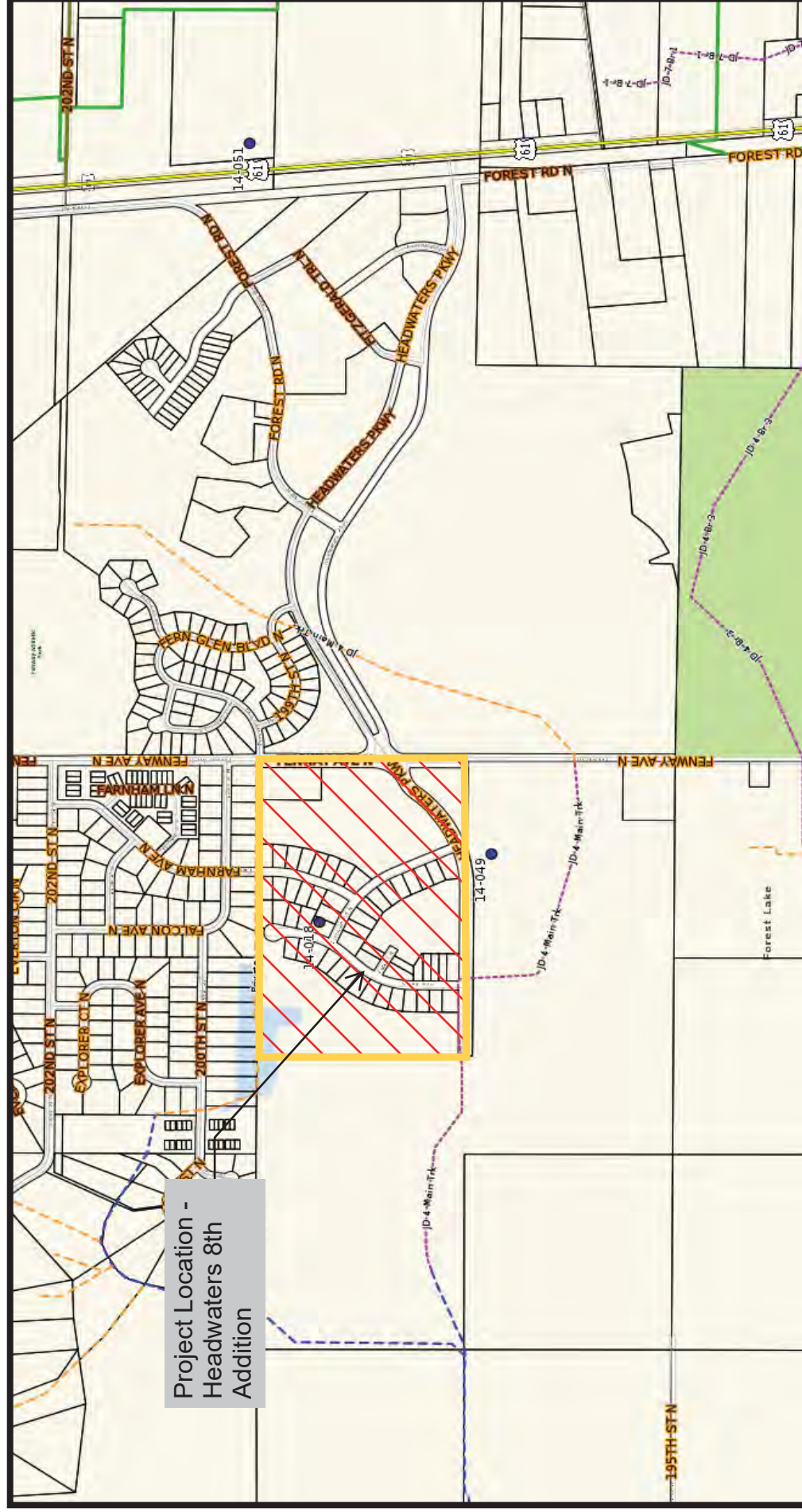
I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the laws of the state of Minnesota.

 4-18-2019

Greg Bowles, MN Reg. No 41929

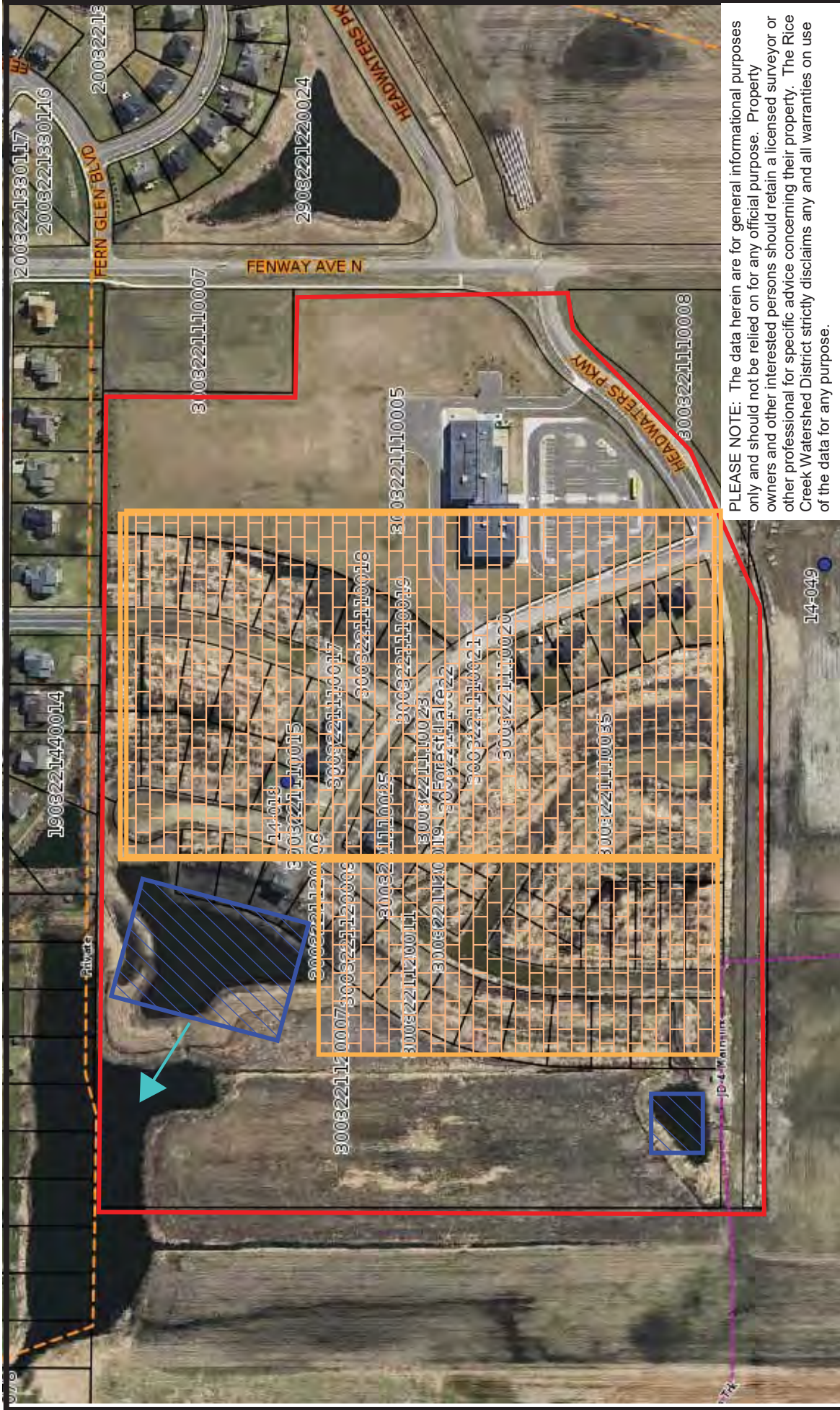
 4-18-19

Katherine MacDonald, Mn Reg. No 44590



Legend

-  District Boundary
-  Project Location
-  Public Waterway
-  Public Ditch - Open Channel
-  Public Ditch - Stormsewer
-  Public Ditch - Municipal
-  Public Ditch - Tile
-  Private Ditch
-  Private Natural Waterway



PLEASE NOTE: The data herein are for general informational purposes only and should not be relied on for any official purpose. Property owners and other interested persons should retain a licensed surveyor or other professional for specific advice concerning their property. The Rice Creek Watershed District strictly disclaims any and all warranties on use of the data for any purpose.

Legend

- Project Location
- Proposed NURP Ponds
- Water Flow
- Proposed Housing Development





WORKING DOCUMENT: This Engineer's report is a draft or working document of RCWD staff and does not necessarily reflect action by the RCWD Board of Managers

Permit Application Number:

18-099

Permit Applicant Name:

Edgewood Middle School

Applicant:

Mounds View Public Schools
Attn: Carole Nielsen, Chris Paquette
1425 Paul Kirkwold Drive
Arden Hills, MN 55112
Ph: 651-621-6090
Fx: 651-266-7250
carole.nielsen@moundsvIEWSschools.org
chris.paquette@moundsvIEWSschools.org

Permitting Contact:

Anderson-Johnson Associates, Inc.
Attn: Mike Tierney
7575 Golden Valley Road, Suite 200
Minneapolis, MN 55427
Ph: 763-544-7129
mike@ajainc.net
dave@ajainc.net

Wold Architects & Engineers
Attn: Nick Marcucci
322 Minnesota Street
St. Paul, MN 55101
Ph: 651-227-7773
nmarcucci@woldae.com

Project Name: Edgewood Middle School

Purpose: FSD – Final Site Drainage; Building additions and parking improvements to existing middle school campus

Site Size: 34.5± acre parcel / 7.0 ± acres of disturbed area; existing and proposed impervious areas are 6.977 ± acres and 8.882 ± acres, respectively

Location: 5100 Edgewood Drive, Shoreview

T-R-S: SW ¼, Section 8, T30N, R23W

District Rule: C, D

Recommendations: CAPROC

It is recommended that this Permit Application be given Conditional Approval Pending Receipt of Changes (CAPROC) and outstanding items related to the following items:

Rule C - Stormwater

1. Applicant must label EOFs for the underground systems on final plans.
2. Either change the outflow pipe of UGS N from 12-inch to 6-inch (to match the HydroCAD) on the final plans or resubmit the HydroCAD model to show that the rate control requirements are met with the 12-inch pipe.

Rule D – Erosion and Sediment Control

3. Submit the following information per Rule D.4:
 - (h) Provide documentation that an NPDES Permit has been applied for and submitted to the Minnesota Pollution Control Agency (MPCA).
 - (i) A Storm Water Pollution Prevention Plan for projects that require an NPDES Permit.

Administrative

4. Submit the permit application with the signature of the successful bidder to the District.
5. Send one final, signed 11x17 sized plan set to the District, and e-mail a full sized pdf copy to both the District and the District Engineer. Include a list of changes that have been made since approval by the RCWD Board.
6. Submit a copy of the plat or easements establishing drainage or flowage over stormwater management facilities, stormwater conveyances, ponds, wetlands, on-site floodplain up to the 100-year flood elevation, or any other hydrologic feature (if easements are required by the City of Mounds View).
7. The applicant must memorialize the responsibility for maintenance of stormwater facilities (including the revised existing infiltration basin) in a document executed by the property owner in a form acceptable to the District and recorded on the deed. Alternatively, a public permittee may meet the perpetual maintenance obligation by executing a programmatic or project-specific maintenance agreement with the District. A draft document should be submitted to the District for consideration prior to execution. (The agreement process requires submittal of the final original signed agreement to the District. If the applicant needs an original of the signed agreement, then two endorsed final agreements should be submitted.)
8. The applicant must provide an attested copy of the signed and notarized easements (if required) from the County Recorder. Applicant may wish to contact the County Recorder to determine recordation requirements prior to recordation.
9. The applicant or contractor must provide a construction schedule for the underground system (or communicate when the schedule will be provided). See Stipulation 2.

Stipulations: The permit will be issued with the following stipulations as conditions of the permit. By accepting the permit, applicant agrees to these stipulations:

1. An as-built survey of all stormwater BMPs (ponds, rain gardens, trenches, swales, etc.) is to be submitted to the District for verification of compliance with the approved plans.
2. RCWD inspector must be notified prior to installation of underground system.

Exhibits:

1. Revised plan set containing 8 sheets dated 12-14-2018 and received 12-21-2018.
2. Permit application, dated and received 10-16-2018.
3. Stormwater Calculations, dated and received 10-15-2018, containing narrative, drainage maps, HydroCAD report for the 2-year, 10-year, and 100-year rainfall events for proposed and existing conditions, boring logs (dated 4/30-5/4, 2018) and geotechnical report (dated 11-16-2001), wetland delineation report (last revised 9-20-2018).

4. Revised Stormwater Calculations, revised and received 11-19-2018, containing narrative, drainage maps, HydroCAD report for the 2-year, 10-year, and 100-year rainfall events for proposed and existing conditions, boring logs (dated 4/30-5/4, 2018) and geotechnical report (dated 11-16-2001), wetland delineation report (last revised 9-20-2018).
5. Revised Stormwater Calculations, revised and received 12-21-2018, containing narrative, drainage maps, HydroCAD report for the 2-year, 10-year, and 100-year rainfall events for proposed and existing conditions, boring logs (dated 4/30-5/4, 2018) and geotechnical report (dated 11-16-2001), wetland delineation report (last revised 9-20-2018).
6. Response memorandum, dated and received 11-19-2018.
7. Wetland bounce and inundation calculations, dated and received 4-4-2019, including email narrative and HydroCAD model.

Findings:

1. Description – The project proposes three building additions and bus and parking improvements at the 34.5± acre Edgewood Middle School in Mounds View. The impervious area will increase by 1.905± acres, from 6.977± acres to 8.882± acres with an additional 2.186± acres of impervious disturbance. The project will disturb 7.0± acres overall. Water from the site drains to the south east to an existing region basin which discharges to Rice Creek and ultimately Long Lake, the resource of concern. An application fee is not charged to a public entity.
2. Stormwater – The applicant is proposing the BMPs as described below for the project:

Proposed BMP Description	Location	Pretreatment:	Volume provided (CF)	Impervious area capacity (Acres)*	Impervious area treated (Acres)	EOF
Underground infiltration system (UGS N)	North of building	Isolator ROW	9,278	2.356	1.990	**
Underground filtration system (UGS E)	North of track/east of building	Isolator ROW	13,547	1.696	1.143	**
Surface filtration basin	East of UGS E	Sump in CB 12	20,753	2.599	1.379	884.0
Existing surface infiltration basin (west side of school)		Existing volume = 1,485 CF		Proposed volume = 1,986 CF		

* Volume provided (CF) / ((1.1-inches / TP factor) x 3630)

** Must be labeled per Recommendation 1

Soils on site are primarily a mix of HSG A/B poorly graded sand with silt (SP-SM) and silt (SM). However fill, lenses of HSG C sandy silt (ML), plus a high water table make infiltration infeasible at the south portion of the site. Adequate pretreatment has been provided for all BMPs. All BMPs are expected to drawdown within 48-hours. The seasonal high water elevation below the underground infiltration system is estimated at elevation 885, providing three feet from the bottom of the basin (elevation 895.5). A liner has been placed to provide separation from the water table for both filtration features. Adequate sand cover has been provided over the draitile of the filtration system. The project is located in a DSWMA area but outside of the emergency response

area. The project requires treatment for total of $4.091\pm$ acres of new and reconstructed impervious area. The applicant has treated $4.512\pm$ acres of impervious surface. Additional TSS removal is not required. Additionally, the applicant is impacting an existing surface infiltration basin previously permitted under 02-005, but has replaced the storage, thus maintaining the previous permit requirement. The applicant has met all the Water Quality requirements of Rule C.6 and the respective design criteria of Rule C.9(a and c).

Drainage Area	2-year (cfs)		10-year (cfs)		100-year (cfs)	
	Existing	Proposed	Existing	Proposed	Existing	Proposed
To northwest (P2)	2.0	1.8	3.5	2.9	7.5	5.6
To south (E4) (E3)	6.9	5.6	12.8	10.6	31.2	23.7
To wetland (E1)	10.9	5.7	27.0	17.5	77.8	57.8
Totals*	17.2	12.0	38.2	28.8	103.9	83.0
80% of existing	13.8		30.6		83.1	

*Difference due to time of concentration

The project is located within the Flood Management Zone. The submitted information indicates that the project does not increase peak runoff rates in compliance with District Rule C.7, however the calculations will need to be amended per the comments listed in the Rule C – Stormwater section above.

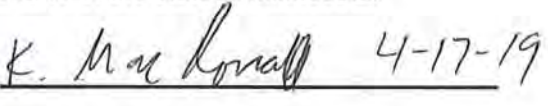
The applicant has complied with the freeboard requirements of Rule C.9(g) and the bounce and inundation requirements for a highly susceptible wetland by submitting a HydroCAD model which documents that under existing conditions the roof drainage from the building discharges to the wetland.

3. Wetlands – Wetlands were delineated under review file 18-119R with a boundary decision, which remains valid, issued on 10-29-2018. The applicant is not proposing any wetland impacts.
4. Floodplain – The regulatory floodplain on site is 876.4 (NAVD 88). The project will not impact the floodplain.
5. Erosion Control – Proposed erosion control methods include silt fence, rock construction entrances, inlet protection, sediment control logs, and rip rap. An NPDES permit is required for the project. The information listed under the Erosion and Sedimentation Control Recommendations needs to be submitted. Otherwise, the project complies with RCWD Rule D requirements.
6. Drainage Systems – There are no drainage systems on or adjacent to the property, thus Rules G and I are not applicable.
7. Documenting Easements and Maintenance Obligations – Applicant must execute an agreement with the RCWD for the maintenance of the stormwater facilities to ensure proper functioning and a receipt showing recordation the drainage and flowage easements (if required).
8. Previous Permit Information – Previous projects at the school site were permitted under 81-017, 00-052, 02-005, and 13-084. Wetlands were delineated under review file 18-119R.

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the laws of the state of Minnesota.

 4-17-19

Greg Bowles
MN Reg. No 41929

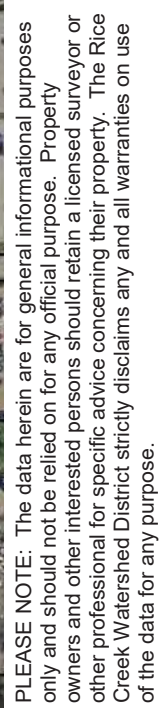
 4-17-19

Katherine MacDonald
MN Reg. No 44590



- Public Ditch - Open Channel
Public Ditch - Stormsewer
Public Ditch - Municipal
Public Ditch - Tile
Private Ditch
Private Natural Waterway





Legend

 Proposed Building Addition



WORKING DOCUMENT: This Engineer's report is a draft or working document of RCWD staff and does not necessarily reflect action by the RCWD Board of Managers.

Permit Application Number:

19-023

Permit Applicant Name:

Cedarleaf Point 2nd Addition

Applicant/Landowner:

Dewitt Homes
Attn: Paul Dewitt
590 Cedarleaf Point
Mahtomedi, MN
Ph: 612-812-2020
Fx:
paul@dewitthomes.net

Permit Contact:

Plowe Engineering, Inc
Attn: Ali Abughazleh
6776 Lake Drive Suite #110
Lino Lakes, MN 55014
Ph: 651-361-8210
Fx: 651-361-8701
ali@plowe.com

Project Name: Cedarleaf Point 2nd Addition

Purpose: FSD- Final Site Drainage; residential development with 3 residential lots, a road, and a stormwater infiltration pond

Site Size: 1.91± acre parcel / 1.68 ± acres of disturbed area; existing and proposed impervious area is 0.20 ± acres and 0.52 ± acres, respectively

Location: 927 Arcwood Rd, Mahtomedi

T-R-S: NE ¼, Section 31, T30N, R21W

District Rule: C, D

Recommendations: CAPROC

It is recommended that this Permit Application be given Conditional Approval Pending Receipt of Changes (CAPROC) and outstanding items related to the following items.

Rule D – Erosion and Sediment Control

1. Submit the following information per Rule D.4:

- (c) Name, address and phone number of party responsible for maintenance of all erosion and sediment control measures.
- (h) Provide documentation that an NPDES Permit has been applied for and submitted to the Minnesota Pollution Control Agency (MPCA).
- (i) A Storm Water Pollution Prevention Plan for projects that require an NPDES Permit.

Administrative

- 2. Send one final, signed 11x17 sized plan set to the District, and e-mail a full-sized pdf copy to both the District and the District Engineer. Include a list of changes that have been made since approval by the RCWD Board.
- 3. The applicant must submit a Draft Declaration for Maintenance of Stormwater Management Facilities acceptable to the District for proposed onsite stormwater management and pretreatment features.

4. The applicant must provide an attested copy of any and all signed and notarized legal document(s) from the County Recorder. Applicant may wish to contact the County Recorder to determine recordation requirements prior to recordation.
5. The applicant must submit a cash surety of \$3,100 along with an original executed escrow agreement acceptable to the District. If the applicant desires an original copy for their records, then two original signed escrow agreements should be submitted. The surety is based on \$1,500 for 1.68 acres of disturbance and \$1,600 for 3,224 CF of storm water treatment.

Stipulations: The permit will be issued with the following stipulations as conditions of the permit. By accepting the permit, applicant agrees to these stipulations:

1. An as-built survey of all stormwater BMPs (ponds, rain gardens, trenches, swales, etc.) is to be submitted to the District for verification of compliance with the approved plans before return of the surety.

Exhibits:

1. Updated preliminary utility plan and storm sewer plan (Sheets C3 and C4.2) dated 4-3-2019 and received 4-3-2019.
2. Updated grading, drainage, and erosion control plan (Sheet C2) dated 3-28-2019 and received 3-28-2019.
3. Plan set containing 10 sheets dated 1-25-2019 and received 3-1-2019.
4. Tree replacement plans containing 1 sheet dated 2-12-2019 and received 3-1-2019
5. Permit application, dated 3-5-2019 and received 3-8-2019.
6. Revised Stormwater Calculations, dated 3-20-2019 and received 3-20-2019, containing narrative, drainage maps, HydroCAD report for the 2-year, 10-year, and 100-year rainfall events for proposed and existing conditions. Original calculation dated 3-1-2019 and received 3-1-2019.
7. Updated proposed HydroCAD report dated 3-26-2019 and received 3-28-2019.
8. Updated proposed HydroCAD report dated 3-26-2019 and received 4-2-2019.
9. Geotechnical Report dated 1-18-2019 and received 3-1-2019.
10. Email chain with Valley Branch Watershed District, last response dated 4-12-2019.
11. Review files 17-117R and 19-027R.

Findings:

1. Description – The project is located at 927 Arcwood Rd in Mahtomedi. The project will remove an existing house to construct a street extension, three new homes, and utilities. The site is 1.91 acres, and the proposed project will disturb 1.68 acres. Existing impervious area is 0.20 acres and proposed impervious area is 0.52 acres. Under existing conditions, approximately one third of the site drains to the west directly to Echo Lake. The remainder of the site drains to the east to a storm sewer and then through several wetlands to Washington Lake. Under proposed conditions, the majority of the site will drain to Echo Lake, either directly, or through the proposed bio-filtration BMP. A small region southeast of the BMP continues to direct runoff toward Washington Lake. Washington Lake is the resource of concern in the Rice Creek Watershed District, while Echo Lake is in the Valley Branch Watershed District (VBWD). The ordinary high water level of Echo Lake is 996.3. The applicant has submitted a \$1,100 application fee which the district engineer concurs with, which corresponds to 0.52 acres of new/redeveloped impervious surface and 1.68 acres of land disturbance.

2. Stormwater – The applicant is proposing the BMP as described below for the project:

Proposed BMP Description	Location	Pretreatment	Volume provided	EOF
Bio-filtration basin	Eastern property line	Grass strip	7,629± cubic feet below the outlet	1004.0 ft

Soils on site are primarily silty sand (HSG C) soils. Thus, infiltration is not considered feasible and bio-filtration is acceptable to meet the water quality requirement. Per Rule C.6(c)(1), the Water Quality requirement is 1.69-inches over the new/reconstructed area (0.52± acres) for a total requirement of 3,224± cubic feet. Adequate pre-treatment has been provided. Drawdown is expected within 48-hours. 18-inches of sand has been provided above the drain tile. The seasonal high water table was not found down to an elevation of 994.6, which provides adequate separation from the bio-filtration basin. The applicant has treated 93% of the project area, which either drains to the BMP, or meets the requirements of C.6(f). The remaining area is roof water that does not meet the C.6(f) requirements but does not require TSS removal. The applicant has met all the Water Quality requirements of Rule C.6 and the design criteria of Rule C.9(c).

Drainage Area	2-year (cfs)		10-year (cfs)		100-year (cfs)	
	Existing	Proposed	Existing	Proposed	Existing	Proposed
To Echo Lake	0.8	0.8	1.7	1.5	3.9	3.4
East Off Site	1.1	0.1	2.3	0.1	5.5	3.1
Totals	1.9	0.9	4.0	1.6	9.4	6.5

The project is not located within the Flood Management Zone. The submitted information indicates that the project does not increase peak runoff rates in compliance with District Rule C.7. The VBWD was contacted and did not indicate any adverse impacts in the response on 3-6-2019.

The project complies with the freeboard requirements of Rule C.9(g) for the bio-filtration basin. Based on the 2015-2025 Valley Branch Watershed Management Plan, the 100-year elevation of Echo Lake is 997.6. The lowest basement floor elevation is 1003.5 which meets the required freeboard criteria for regional flood elevation.

3. Wetlands – There are no wetlands located within the project area.
4. Floodplain – The site is not in a regulatory floodplain.
5. Erosion Control – Proposed erosion control methods include silt fence, rock construction entrances, inlet protection, and rip rap. An NPDES permit is required for the project. The information listed under the Erosion and Sedimentation Control Recommendations needs to be submitted. Otherwise, the project complies with RCWD Rule D requirements. Echo Lake is impaired for nutrients.
6. Bridges and Culvert Crossing/Drainage Systems – There are no bridges, culvert crossings, or drainage systems on site.
7. Documenting Easements and Maintenance Obligations – Applicant must provide a draft maintenance declaration for approval, and a receipt showing recordation of the approved maintenance declaration and the drainage and flowage easements
8. Previous Permit Information – No previous permit information was found for this site.

I assisted in the preparation of this report under the supervision of the District Engineer.

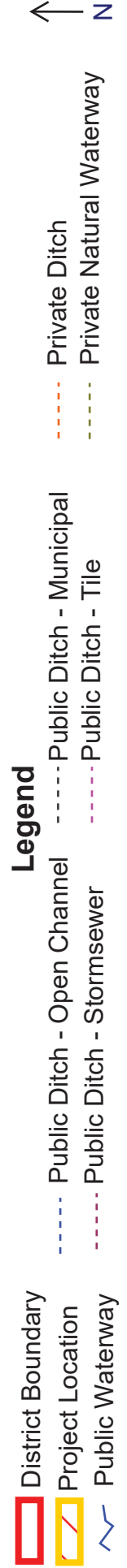
Destin Spellman 4-17-19

Destin Spellman, EIT

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the laws of the state of Minnesota.

K. MacDonald 4-17-19

Katherine MacDonald, Mn Reg. No 44590





- Legend**
-  Project Location
 -  Proposed Road
 -  Proposed Filtration Basin
 -  Water Flow
 -  Proposed Homes





WORKING DOCUMENT: This Engineer's report is a draft or working document of RCWD staff and does not necessarily reflect action by the RCWD Board of Managers.

Permit Application Number:

19-031

Permit Applicant Name:

Garage Solution Condominiums II – Phase 2

Applicant/Landowner:

Construction Technology, Inc.
Attn: Joseph R. Bazey
150 Portland Ave #601
Minneapolis, MN 55401
Ph: 612-581-1591
joe@mancavesmn.com

Permit Contact:

LHB
Attn: Jordan Cabak
701 Washington Ave N Suite 200
Minneapolis, MN 55401
Ph: 612-752-6948
jordan.cabak@lhbcorp.com

Project Name: Garage Solution Condominiums II – Phase 2

Purpose: FSD – Final Site Drainage; The project is 4 additional Garage Condo Buildings to expand the previously developed site.

Site Size: 21.08± acre parcel / 4.28 ± acres of disturbed area; existing and proposed impervious area is 0.23 ± acres and 2.17 ± acres, respectively

Location: 13345 Lake Dr NE, Columbus

T-R-S: SE ¼, Section 33, T32N, R22W

District Rule: C, D

Recommendations: CAPROC

It is recommended that this Permit Application be given Conditional Approval Pending Receipt of Changes (CAPROC) and outstanding items related to the following items.

Rule C – Stormwater

1. All BMPs must have an outlet control structure that controls the 2-year, 10-year, and 100-year frequency events. An EOF could be defined as a structure if there was a permanent feature, such as a weir, concrete flume, or channel armoring.

Rule D – Erosion and Sediment Control

2. Submit the following information per Rule D.4:
 - (a) Name, address and phone number of party responsible for maintenance of all erosion and sediment control measures.
 - (b) Provide documentation that an NPDES Permit has been applied for and submitted to the Minnesota Pollution Control Agency (MPCA).

Administrative

3. Send one final, signed 11x17 sized plan set to the District, and e-mail a full-sized pdf copy to both the District and the District Engineer. Include a list of changes that have been made since approval by the RCWD Board.

4. Submit a copy of the plat or easements establishing drainage or flowage over stormwater management facilities, stormwater conveyances, ponds, wetlands, on-site floodplain up to the 100-year flood elevation, or any other hydrologic feature (if easements are required by the City of Columbus).
5. The applicant must submit a Draft Declaration for Maintenance of Stormwater Management Facilities acceptable to the District for proposed onsite stormwater management and pretreatment features.
6. The applicant must provide an attested copy of any and all signed and notarized legal document(s) from the County Recorder. Applicant may wish to contact the County Recorder to determine recordation requirements prior to recordation.
7. The applicant must submit a cash surety of \$6,800 along with an original executed escrow agreement acceptable to the District. If the applicant desires an original copy for their records, then two original signed escrow agreements should be submitted. The applicant must provide the first \$5000 in the form of a check and has the option of providing the remainder of the surety amount in the form of a check or a Performance Bond or Letter of Credit. The surety is based on \$2,500 for 4.28 acres of disturbance and \$4,300 for 8,665 CF of storm water ponds.

Stipulations: The permit will be issued with the following stipulations as conditions of the permit. By accepting the permit, applicant agrees to these stipulations:

1. An as-built survey of all stormwater BMPs (ponds, rain gardens, trenches, swales, etc.) is to be submitted to the District for verification of compliance with the approved plans before return of the surety.

Exhibits:

1. Updated Plan set containing 8 sheets dated 4-4-2019 and received 4-4-2019.
2. Permit application with adjacent landowner's signature, dated 4-15-2019 and received 4-16-2019.
3. Updated stormwater report, dated 4-4-2019 and received 4-4-2019, containing narrative, drainage maps, HydroCAD report for the 2-year, 10-year, and 100-year rainfall events for proposed and existing conditions, a Stormwater Operations and Maintenance plan, and soil borings.
4. Applicant narrative response to insufficient items in ER, dated 4-4-2019 and received 4-4-2019.
5. Plan sheet exhibit showing new ownership lines, dated 3-27-2019 and received 4-5-2019.
6. Permit application, dated 3-12-2019 and received 3-15-2019.
7. Permit application checklist, no date, received 3-15-2019.
8. Stormwater Calculations, dated 3-14-2019 and received 3-15-2019, containing narrative, drainage maps, HydroCAD report for the 2-year, 10-year, and 100-year rainfall events for proposed and existing conditions, a Stormwater Operations and Maintenance plan, and soil borings.
9. Review file 17-066R

Findings:

1. Description – The project proposes to construct four 12,000 SF buildings with an access drive of concrete and permeable pavers in the City of Columbus. The project will remove the 0.23± acres of existing impervious area and create 2.17± acres of post developed and impervious area. The project will disturb 4.28 acres overall. Water from the project will drain either directly or through permeable pavers to a proposed infiltration basin on the northern edge of the property, or directly to an infiltration basin on the southern edge of the project site and then to the east through a wetland complex to

Rondeau Lake Resource of Concern. The applicant has submitted a \$2,250 application fee, which corresponds to 1-2.5 acres of new/redeveloped impervious surface and 2.5-10 acres of land disturbance.

2. Stormwater – The applicant is proposing the BMPs as described below for the project:

Proposed BMP Description	Location	Pretreatment	Volume provided	EOF
North infiltration basin	Northern property line	Rip rap and grass swale	18,990± cubic feet below the outlet	907
Permeable Pavers	Between north and south sets of buildings	NA	4,990±	NA
South infiltration basin	Southern line of project limits	Grass swale	1,749±	908

Soils on site are a mix of poorly graded sands (SP) and silty sands (SM) (HSG A/B) soils. Thus, infiltration is considered feasible. Per Rule C.6(c)(1), the Water Quality requirement is 1.1-inches over the post developed impervious area (2.17± acres) for a total requirement of 8,665± cubic feet. Adequate pre-treatment has been provided. Drawdown is expected within 48-hours using an appropriate rate of 0.45 inches per hour. The seasonal high-water table is estimated at elevation 900, which provides a minimum of three feet of separation. The project is not located within a DWSM area. The applicant has treated 100% of the project area. Additional TSS removal is not required. The applicant has met all the Water Quality requirements of Rule C.6 and the design criteria of Rule C.9(a).

Drainage Area	2-year (cfs)		10-year (cfs)		100-year (cfs)	
	Existing	Proposed	Existing	Proposed	Existing	Proposed
Totals	3.01	2.58	7.58	4.9	21.17	10.18

The project is not located within the Flood Management Zone. The submitted information indicates that the project does not increase peak runoff rates in compliance with District Rule C.7.

The applicant has complied with the freeboard requirements of Rule C.9(g).

3. Wetlands – The project is located in Zone 1 of the Columbus CWPMP and zoned Commercial/Industrial. There are no wetlands located within the project area and no CWPMP requirements.
4. Floodplain – The site is not in a regulatory floodplain.
5. Erosion Control – Proposed erosion control methods include silt fence, rock construction entrances, and rip rap. An NPDES permit is required for the project. The information listed under the Erosion and Sedimentation Control Recommendations needs to be submitted. Otherwise, the project complies with RCWD Rule D requirements.
6. Bridges and Culvert Crossing/Drainage Systems – There are no drainage systems on or adjacent to the property.
7. Documenting Easements and Maintenance Obligations – Applicant must provide a draft maintenance declaration for approval, and a receipt showing recordation of the approved maintenance declaration and the drainage and flowage easements (if required).

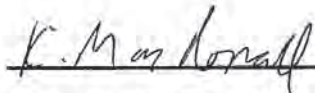
8. Previous Permit Information – Permit #94-002 was found for the site, which subdivided the property. Permits 07-099, Columbus Storage Condos, and 17-046, Garage Solution Condominiums II, were constructed by the same applicant on properties to the west.

I assisted in the preparation of this report under the supervision of the District Engineer.

 4-17-2019

Mark Christenson, EIT

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the laws of the state of Minnesota.

 4-17-19

Katherine MacDonald, Mn Reg. No 44590

Project Location -
Garage Solutions
Condominiums
Phase 2



Legend

-  District Boundary
-  Project Location
-  Public Waterway

-  Public Ditch - Open Channel
-  Public Ditch - Stormsewer
-  Public Ditch - Municipal
-  Public Ditch - Tile

-  Private Ditch
-  Private Natural Waterway





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Legend

-  Project Location
-  Proposed Infiltration Basin
-  Water Flow
-  Proposed Storage Building





WORKING DOCUMENT: This Engineer's report is a draft or working document of RCWD staff and does not necessarily reflect action by the RCWD Board of Managers.

Permit Application Number:

19-034

Permit Applicant Name:

Townhomes at Locke Park

Applicant/Landowner:

City of Fridley
Attn: Paul Bolin
7071 University Avenue NE
Fridley, MN 55304
Ph: 763-572-3591
Paul.bolin@fridleymn.gov

Permit Contact:

Carlson McCain, Inc.
Attn: Brian Krystofiak
3890 Pheasant Ridge Drive
Blaine, MN 55449
Ph: 763-489-7900
bkrystofiak@carlsonmccain.com

Other:

Lennar
Attn: Josh Metzger
16305 36th Avenue N, Suite 600
Plymouth, MN 55446
Ph: 612-360-9881
josh.metzger@lennar.com

Project Name: Townhomes at Locke Park

Purpose: FSD – Final Site Drainage; residential townhome development, grading, streets, and utilities.

Site Size: 8.57± acre parcels / 8.57± acres of disturbed area

Location: Southeast of 71st Ave. NE and University Ave. (south and east of city buildings), Fridley

T-R-S: SW ¼, Section 11, T30N, R24W

District Rule: C, D

Recommendations: CAPROC

It is recommended that this Permit Application be given Conditional Approval Pending Receipt of Changes (CAPROC) and outstanding items related to the following items.

Rule D – Erosion and Sediment Control

1. Submit the following information per Rule D.4:

- (c) Name, address and phone number of party responsible for maintenance of all erosion and sediment control measures.
- (h) Provide documentation that an NPDES Permit has been applied for and submitted to the Minnesota Pollution Control Agency (MPCA).
- (i) A Storm Water Pollution Prevention Plan.

Administrative

- 2. Send one final, signed 11x17 sized plan set to the District, and e-mail a full-sized pdf copy to both the District and the District Engineer. Include a list of changes that have been made since approval by the RCWD Board.

- Applicant, or authorized representative of applicant, must submit a signed statement that applicant or another party reported to the MPCA and the Minnesota Department of Health: (a) the indicated subsurface contamination, and (b) the disturbance proposed for the site, as it concerns the contamination. The statement must include a copy of the notification unless it was not in writing, in which case the statement is to describe the form and circumstances of the notification. Attachments to the notification should not be submitted unless the District requests.

Stipulations: The permit will be issued with the following stipulations as conditions of the permit. By accepting the permit, applicant agrees to these stipulations:

- Applicant must promptly transmit a copy of any response received from either state agency to the District pursuant to Recommendation 3 above, for the District's informational purposes.

Exhibits:

- Plan set containing 6 sheets dated 2-15-2019 and received 3-18-2019.
- As-built records of NURP ponds, not dated and received 4-5-2019.
- Permit application, dated 3-4-2019 and received 3-18-2019.
- Stormwater Calculations, dated 3-18-2019 and received 3-18-2019, containing narrative and drainage maps.

Findings:

- Description – The project is contained within 2 parcels owned by the City of Fridley totaling 8.57 acres located at Locke Park Pointe in the City of Fridley. The project is within an area governed by a Comprehensive Stormwater Management Plan (CSMP) will increase impervious area by 4.50 acres and disturb 8.57 acres overall. The proposed development consists of housing construction and paving of access roads and driveways, which will utilize the remaining capacity of the NURP ponds previously approved under permit 17-019 for treatment. The existing NURP ponds drain to an existing storm sewer which outlets to Rice Creek and eventually Locke Lake, the resource of concern. The applicant has submitted a \$3,750 application fee, which corresponds to 2.5-5 acres of new/redeveloped impervious surface and 2.5-10 acres of land disturbance.

The proposed project is located within a CSMP that was adopted by the board on May 10, 2017 along with resolution #2017-12.

- Stormwater – The applicant is utilizing the BMPs as described below for the project:

Proposed BMP Description	Location	As-built Volume	Total Volume Used
NURP Pond 1	Northwest of Project Area	0.584 acre-ft	0.059 acre-ft
NURP Pond 2	North of Project Area	3.016 acre-ft	0.825 acre-ft
NURP Pond 3	Northeast of Project Area	2.672 acre-ft	2.148 acre-ft
Total		6.272 acre-ft	3.0312 acre-ft

The accepted CSMP has determined that infiltration is not considered feasible due to confining layers of HSG D soil and high ground water level. While the submitted geotechnical report shows layers of HSG A/B, poorly graded sands (SP) and silty sand (SM), these layers contain confining lenses of

HSG D soils, primarily sandy lean clays (CL). The confining layers also create a perched water table ranging from 4.5 to 14 feet below the surface. Lastly contamination has been reported onsite. Thus, infiltration is not considered feasible and the existing stormwater ponds are acceptable to meet the water quality requirement. Per Rule C.6(c)(1), the Water Quality requirement is 2.2-inches over the new/reconstructed area for the NURP pond, however the NURP criteria of 2.5-inches governs. The proposed development will add 196,020 sq. ft. (4.50 acres) of impervious surfaces. The as-built CSMP volume is 6.272 AF for the fully developed project. The total used including the proposed development is 3.0312 acre-feet. The project results in approximately 100% of the new surface being treated. The applicant has treated the maximum amount practicable. The stormwater BMPs were built to plan as indicated in the provided as-built survey of permit 17-019. Therefore, the Water Quality requirements of Rule C.6 are satisfied.

The project is located within the Flood Management Zone. The applicant has not submitted any hydrologic modeling. However, the drainage areas have not changed, and the project was approved with 16.852± acres of impervious surface draining to the three NURP ponds. The total impervious area to the ponds, including this permit is 13.464 acres. Thus, the runoff rates will be less than the approved rates which included the flood management zone reduction to 80% of existing conditions in compliance with C.7. This permit is the last area to be developed within the CSMP.

The project is in compliance with the freeboard requirements of Rule C.9(g).

The accepted CSMP cited by the applicant has reported the presence of contamination on the project site. The District and its Engineer have not independently reviewed the data or information relating to contamination and have not independently evaluated the risk associated with introducing storm water into the soil matrix. Due to the documented presence or likelihood of contamination, and pursuant to Rules C.6(d)(2) and C.9(a)(4), infiltration BMPs are not required to meet the sequencing requirements. The applicant is responsible to confer with any agency with authority over site contamination and/or reuse, and otherwise to ensure that site storm water management conforms to sound design practices (including those documented in the MPCA's *Minnesota Stormwater Manual*) and all legal requirements.

3. Wetlands – No wetland impacts for this project. (Wetland Impacts have previously been approved under permit application 17-019.)
4. Floodplain – The site is not in a regulatory floodplain.
5. Erosion Control – Proposed erosion control methods includes silt fence. An NPDES permit is required for the project. The information listed under the Erosion and Sedimentation Control Recommendations needs to be submitted. Otherwise, the project complies with RCWD Rule D requirements.
6. Bridges and Culvert Crossing/Drainage Systems – There are no drainage systems on the property.
7. Documenting Easements and Maintenance Obligations – The applicant is not proposing any BMPs thus no maintenance and easements are required. All BMPs were previously approved.
8. Previous Permit Information – A CSMP was prepared under file number 17-023. The wetland delineation can be found under file 16-143R. Additional permit information includes 17-019, 18-053, 18-055, 18-064, and 18-065.

I assisted in the preparation of this report under the supervision of the District Engineer.

Ben Jore 4-17-19

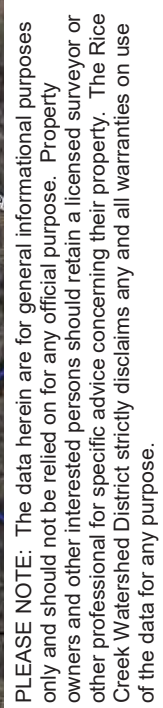
Ben Jore, EIT

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the laws of the state of Minnesota.

K. MacDonald 4-17-19

Katherine MacDonald, Mn Reg. No 44590





Legend

- | Project Location | Existing NURP Ponds | Water Flow | Proposed Housing Development |
|---|---|---|---|
|  |  |  |  |

ITEMS REQUIRING BOARD ACTION

1. Consider Grant Application to DNR Flood Hazard Mitigation Program for Ramsey County Ditch 2 3 5. (Kyle Axtell)

MEMORANDUM

Rice Creek Watershed District

Date: April 17, 2019
To: RCWD Board of Managers
From: Kyle Axtell, Water Resource Specialist
Subject: RCD 2, 3 & 5 Basic Water Management Petition
Submittal of Grant Application to DNR Flood Hazard Mitigation Program

Background /Discussion:

On March 22, 2019, District staff met with its project partners (the Cities of New Brighton, Roseville and Saint Anthony) to discuss progress and receive input on Phase 2 of the petition process. One topic for discussion during that meeting was the petitioned project's readiness for submittal of a grant application to the Minnesota DNR's Flood Hazard Mitigation Program. RCWD Administrator Phil Belfiori had engaged in conversation recently with DNR staff on the matter and was advised to apply to the program. Projects of this scale are presented directly to the State legislature as part of a bonding request, which is done every biennium. DNR has advised that an application would need to be submitted by late April or early May in order to be considered for this cycle's bonding request.

Upon discussion with its partners, a decision was made to proceed with the application, pending RCWD Board approval. The District's project engineer, Houston Engineering, Inc., and staff have prepared a draft application that is expected to be robust enough to be considered complete by DNR, yet flexible enough to allow for future modification and refinement as progress is made on Phases 2 and 3 of the RCD 2, 3 & 5 Basic Water Management Petition.

The application sets a total estimated project cost of \$20,000,000 (expected to be multiple phases and also subject to change) which is reflective of the total cost provided in the draft 2020 RCWD Watershed Management Plan. The grant request is for \$10,000,000, or 50%. Through discussions with DNR staff, RCWD staff understands that this figure is intended to be a placeholder for now and can be refined in the future as the desired scope of the project comes into greater focus.

The application process requires that the RCWD Board adopt a resolution supporting the application and authorizing the Administrator to submit it and sign documents as may be required.

Please Note: Submittal of this application does not bind the RCWD into undertaking any of the proposed projects.

Recommendation: RCWD staff recommends that the Board adopt Resolution 2019-14, directing the Administrator to submit the application to DNR and execute documents as may be required.

Proposed Motion: Manager _____ moves to offer resolution 2019-14, with any non-material changes, and its adoption, seconded by Manager _____.

Attachments: Draft Resolution 2019-14
DNR Flood Damage Reduction Program Fact Sheet (March 2011)
Draft DNR FHM Grant Application

RESOLUTION 2019-14

**RICE CREEK WATERSHED DISTRICT
BOARD OF MANAGERS**

**AUTHORIZING SUBMITTAL OF A FLOOD DAMAGE REDUCTION
HAZARD MITIGATION GRANT APPLICATION
FOR BASIC WATER MANAGEMENT PROJECT 2013-01**

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

WHEREAS on August 28, 2013, by Resolution 2013-23, the Watershed District Board of Managers accepted a petition from the Cities of New Brighton and Saint Anthony to develop a comprehensive and integrated strategy for stormwater management, flood damage reduction, and water quality enhancement within the Ramsey County Ditches 2, 3 and 5 subwatershed that implements a series of project components to achieve reasonable stormwater management and flood damage reduction objectives, and the Board of Managers initiated the project, assigning Project Number 2013-01, and appointed Houston Engineering as the project engineer to make surveys, maps, analyses and reports for the project as necessary and consistent with the project phasing, coordination and implementation proposals contained within the Petition.

WHEREAS staff members from the Cities of New Brighton, Roseville and Saint Anthony have participated in the petitioned project's Phase 1 process, resulting in completion of a Phase 1 report, dated June 10, 2014, identifying areas within the subwatershed of Ramsey County Ditches 2, 3 and 5 where project components could be developed and implemented to provide both local and regional stormwater management and flood damage reduction benefit.

WHEREAS on June 11, 2014, by Resolution 2014-20, the Rice Creek Watershed District (RCWD) Board of Managers approved the amended joint petition of the Cities of New Brighton, Roseville and Saint Anthony for Basic Water Management Project 2013-01, amending project 2013-01 to allow implementation of Mirror Lake and Hansen Park project components without delay; to allow proceeding to project phases 2 & 3 concurrently, with the inclusion of project components within the sub-watershed of Ramsey County Ditch 5; and to allow the addition of the City of Roseville as an additional petitioner for the Basic Water Management Project, as if a party to the original petition.

WHEREAS the Minnesota Department of Natural Resources (DNR) operates a Flood Damage Reduction Grant Assistance Program and offers Hazard Mitigation Grants to eligible, prioritized projects.

THEREFORE, BE IT RESOLVED that the Rice Creek Watershed District Board of Managers hereby authorizes the District Administrator to submit the attached grant application to the DNR Flood Damage Reduction Hazard Mitigation Grant Program and to execute any application documents as may be required, on advice of counsel.

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

	Yea	Nay	Absent	Abstain
WALLER	☐	☐	☐	☐
HAAKE	☐	☐	☐	☐
BRADLEY	☐	☐	☐	☐
WAGAMON	☐	☐	☐	☐
PREINER	☐	☐	☐	☐

Upon vote, the President declared the Resolution _____.

Michael J. Bradley, Secretary

Dated: April 24, 2019

* * * * *

I, Michael Bradley, Secretary of the Rice 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 transcript thereof.

IN TESTIMONY WHEREOF, I have hereunto set my hand this 24th day of April, 2019.

Michael J. Bradley, Secretary

Flood Damage Reduction Grant Assistance Program



Eligibility Criteria for Grants*

Eligible projects. The following project types are eligible for FDR grants:

- structural acquisition in the 100-year floodplain
- levees, ring dikes, and flood walls
- elevating existing structures
- flood warning systems
- public education
- flood insurance studies
- floodplain mapping
- comprehensive watershed plans
- flood storage easements
- cost share on federal projects

Eligible local government units. The following local units of government are eligible to apply for grants independent of a Presidential Disaster Declaration:

- cities and towns
- counties
- watershed districts and watershed management organizations
- lake improvement districts
- soil and water conservation districts
- joint powers organizations composed of the above units

*Individuals are not eligible applicants. Individual property owners should work through their local units of government for consideration of grant funding.

DNR Contact Information

FDR Program Coordinator
DNR Ecological and Water Resources
500 Lafayette Road
St. Paul, MN 55155-4032
Telephone: (651) 259-5691
Fax: (651) 296-0445

Area hydrologists listed on the DNR Ecological and Water Resources website:
<http://mndnr.gov/waters>

How Does the Flood Damage Reduction Grant Assistance Program Help Minnesotans?

Program purpose

The Flood Damage Reduction Grant Assistance Program (FDR) helps reduce damages due to flooding in rural and urban areas.

FDR was established by the 1987 Minnesota Legislature to provide technical and financial assistance to local government units for reducing the risk and extent of flood damages. Under this program, the state makes cost-share grants for up to 50 percent of the cost of flood mitigation projects. The Minnesota Department of Natural Resources (DNR) commissioner may also make grants to local units of government to conduct studies. These studies determine the most feasible, practical, and effective methods and programs for reducing the risk of damage due to flooding. The Division of Ecological and Water Resources coordinates this program for the DNR.

Classes and uses of grants

Currently two classes of grants are available. Small grants are for projects with a total cost of less than or equal to \$300,000 (state share less than \$150,000). Small grants are made directly by the DNR from funds appropriated by the legislature. Large grants are for projects with a total cost greater than \$300,000 (state share greater than \$150,000). Grant applications are received and prioritized by the DNR. Grants with state share exceeding \$150,000 are presented to the governor and the legislature for consideration in a capital bonding bill.

In addition to partnering directly with local units of government, FDR grants can be used to leverage financial and technical assistance from other agencies. DNR Ecological and Water Resources and local units of government have partnered with the U.S. Army Corps of Engineers and Natural Resources Conservation Service on federal flood control projects. After a disaster, FDR funds can also be used to leverage acquisition and hazard mitigation funding from the Federal Emergency Management Agency (FEMA) through the Division of Homeland Security & Emergency Management of the Minnesota Department of Public Safety.

Breaking the flood damage cycle

Flooding can have disastrous effects on people's lives and their community. Participation in the FDR program helps communities break the cycle of damage and repair and it is extremely cost effective. For example, the flood control project in Oslo, Minnesota, was built at a total cost of \$2 million (in mid-1980's dollars), including \$100,000 in local funds. Through 2009, this project has averted damages totaling over \$50 million. The FDR program reduces communities' future flood risk.

How can you receive FDR assistance?

If you have incurred flood damage, contact your local unit of government for assistance. The local unit of government will contact the FDR Program Coordinator in St. Paul or your Area Hydrologist in your region to discuss project needs and eligibility for assistance. FDR application forms and a workbook for your local unit of government are available on the DNR Ecological and Water Resources website (<http://mndnr.gov/waters>), as well as a list of FDR projects across the state.

Grant Application Form



*Prepared For
Local Government*



MN DNR WATERS



FLOOD DAMAGE REDUCTION PROGRAMS HAZARD MITIGATION GRANT APPLICATION

Application Date: 04/24/2019

Local Unit of Government Applicant: Rice Creek Watershed District

Authorized Agent: Phil Belfiori, Administrator

Address: 4325 Pheasant Ridge Drive NE #611 Blaine, MN 55449 US
Number & Street City/State Zip code County

Phone No: (763) 398-3071 Fax No: () Cell Phone: ()

E-mail address: pbelfiori@ricecreek.org

Contact person (if different from authorized agent): _____

Address: _____
Number & Street City/State Zip code County

Phone No: () Fax No: () Cell Phone: ()

E-mail address: _____

Project Funding Breakout

Total Estimated Project Cost	\$20,000,000
Amount Requested From DNR Waters	\$10,000,000
Amount from other state agencies	\$0
Total share of all local government sources	\$10,000,000
Estimated in-kind match	\$0
Federal share	\$0
Private share	\$0

Check the following types of flood damage reduction activities included in project along with a quantity (if applicable) and cost or percentage of total project costs.

	Activity	Quantity		Cost or Percentage
	Acquisition		Number of Homes	
	Levee		Miles	
	Levee Improvement		Lineal Feet	
	Floodwall		Lineal Feet	
	Ring Dike		Number of Ring Dikes	
	Ring Dike Improvement		Number of Ring Dikes	
	Flood Storage Easement		Acres	
X	Impoundment	Up to 7	Acre Feet	60%
	Impoundment Improvement			
	Flood Warning System			
X	Feasibility Study			0.5%
	Flood Insurance Study			
	Floodplain Mapping			
	Geographic Information System			
X	Hydrology / Hydraulic Study			0.5%
X	Other Stormwater Conveyance Improvements	Up to 6	Lineal Feet	39%

Project Narrative

(Please attach resolutions authorizing application and signature, a map of the site, highlighting area(s) damaged and the location of the proposed project.)

I. a.) Briefly describe and itemize the damage(s):

High-intensity rainfall in an urbanized watershed tributary to Long Lake frequently affects property and infrastructure in the cities of New Brighton, Roseville and St. Anthony. Stormwater runoff overwhelms the aged conveyance system, leading to extensive flooding. The primary outlets for this stormwater runoff, a trio of public drainage systems, were designed and installed over 100 years ago to serve agricultural production by removing excess water during small to medium-sized precipitation events. Urbanization that occurred prior to modern stormwater management requirements accelerated runoff flows and volume, without providing conveyance and storage to manage hydrologic changes. Increases in rainfall depths and event durations over time has further challenged the conveyance system leading to more frequent damages in the watershed. Damages have occurred to individual properties and structures, local government infrastructure, natural resources, and major transportation corridors.

Through a series of coordinated flood mitigation projects, the project partners (which include the Rice Creek Watershed District and the Cities of New Brighton, Roseville, and St. Anthony) intend to increase resiliency of the public infrastructure serving local and regional interests to reduce the occurrences and severity of flood damages.

Local concerns

Street flooding (e.g., Old Highway 8 underpass at railroad, Cleveland Avenue, County Road C2)

Personal property damage (e.g., Garden View Apartments – garage and parking lot flooding)

Residential and commercial structures (e.g. Mirror Lake Townhomes, Lakeside Homes)

Regional concerns

Long Lake – elevated water levels for extended duration; inundation of numerous homes

Rice Creek – stream stability concerns caused by high peak flows

Interstate 35W near CR D – both lanes of the freeway are within the 100-year floodplain

b.) Describe the repetitive nature of the flooding:

A significant rainfall occurred on July 16, 2011, where approximately 5-inches of rainfall occurred over a 2.5-hour period. The flood damages observed following the event provide a good indication of the widespread nature of damages. A report prepared by the RCWD in conjunction with the cities of New Brighton, Roseville and St. Anthony identified approximately 20 separate locations that had high flood levels both during this rainfall event and other prior events, most of which led to property damage or disruption to infrastructure. Hydrologic modeling of the watershed has identified that these areas are subject to recurring flood risk based on estimated runoff depths and rates for various design events.

Project Narrative

II. Describe the proposed project and its objective:

(Please include project location, a list of funding sources, how local funding will be obtained and identify implementing parties and their roles.)

The project is located in the subwatershed of Ramsey County Ditches 2, 3, & 5 within the Cities of New Brighton, Roseville, & St. Anthony. This subwatershed straddles Interstate Highways 694 and 35W, draining north into Long Lake and eventually Rice Creek. The project partners are currently analyzing a suite of project alternatives that seek to solve these known reoccurring flood damage issues. The final analysis report will identify a series of projects (and their cost estimates) that work together in concert to alleviate flood damages.

A Basic Water Management petition submitted by the Cities to the RCWD has made available a number of funding sources for the project components. These potential funding sources include, but are not limited to, ad valorem (district-wide) funding through the RCWD, water management district charges, municipal property taxes or stormwater utility fees, Board of Water and Soil Resources Clean Water Fund grants, and a State of Minnesota Flood Damage Reduction grant.

Implementation will be completed by the project partners (RCWD & Cities). The RCWD, as the applicant and fiscal agent, will coordinate project activities. It is envisioned that the flood mitigation plan under development will recommend multiple conveyance and storage projects. The role of each project partner will likely vary project-by-project depending on the location, what existing local infrastructure is involved and project size.

III. a.) Summarize the alternative flood mitigation measures that were considered to achieve the desired benefits.

As mentioned above, a wide spectrum of project types and locations are currently being considered and analyzed. The alternatives being considered have been developed through a collaborative process with the project partners.

Aside from the flood mitigation planning process currently in-progress, several past efforts have been completed to help alleviate reoccurring flood damages. RCWD's stormwater management rule requires that post-redevelopment runoff rates within the RCD 2, 3 & 5 subwatershed cannot exceed 80% of existing conditions. This requirement was implemented to lessen the coincident of peak flows arriving from multiple conveyances to the downstream tributary area (particularly Long Lake). Two significant projects were also recently completed to create additional floodplain storage. The projects, on Mirror Lake in St. Anthony and in Hansen Park in New Brighton, have added a substantial amount of storage to the stormwater conveyance system. Furthermore, the communities have implemented isolated measures to alleviate localized flooding concerns.

Project Narrative

b.) Is the proposed project the least environmentally damaging alternative that is feasible and prudent? Why?

The specific make up of projects has not yet been defined nor has final design been completed. Through the development of the flood mitigation plan, the least damaging feasible and effective solutions will be recommended. Furthermore, compliance with RCWD's rules will dictate that the least damaging alternative be selected.

(If project requires a mandatory environmental review)

c.) Has an environmental review been completed for the proposed project? If not, is an environmental review part of the application proposal?

The project as currently conceptualized does not require a mandatory environmental review.

IV. Describe and itemize the costs (including environmental and natural resource costs) associated with the project:

(include a budget/cost schedule. If the project will be completed in phases, please include a phasing schedule for the project.)

Environmental costs do not need to be quantified in terms in money.

While specific projects have not been selected, they are envisioned to include combinations of excavation, piping, channel repair or construction, outlet control structures, emergency overflows, earthen embankments, engineering and design, surveying, construction administration, and material disposal. Through previous and ongoing planning efforts, a total project cost of approximately \$20,000,000 is anticipated. A phased implementation process is envisioned but has not yet been developed. Flood mitigation planning efforts are anticipated to be completed in early 2020. Construction of the project will likely occur over several phases over the next 10 years, potentially beginning as early as 2021. Environmental mitigation will be completed if necessary, but requirements have not yet been estimated.

Project Narrative

V. Describe and itemize the benefits (including environmental and natural resource costs) associated with this project:

(Please describe the anticipated results of this project.)

Environmental benefits do not need to be quantified in terms of money.

Flood Damages – Criteria have been established for relevant flood damage locations. Flood damage criteria are based upon structure and infrastructure elevations. Flood damage benefits include the reduction of frequency and magnitude of damages to buildings, stormwater and street infrastructure, and other property.

Safety – The frequency and magnitude of flood related safety risks will be reduced (for instance a reduction in the frequency of flood overtopping of Interstate 35W).

Water Quality – Through the management of flood volumes, a reduction in downstream peak flows and therefore velocities are anticipated leading to lower potential for erosion and scour potential. Furthermore, the flood mitigation projects will incorporate water quality measures to manage the amount of sediment and nutrients delivered to downstream resources.

Habitat – Projects will also be designed, when appropriate, to incorporate wildlife habitat improvement features, as has been done at Mirror Lake and Hansen Park previously.

Stormwater Management – A decrease in maintenance costs for the municipal and regional conveyance system is anticipated. These costs include open channel, culvert, and stormsewer repairs necessitated by erosion and deposition from high flows and velocities.

VI. List opportunities for public involvement and describe public response to the proposed project:

Through the MS 103D petition process, a public hearing will be held to present findings and gather public comments. Partner cities will also individually consider the findings and provide concurrence at public meetings during the flood mitigation planning process.

Prior to implementation, various public information meetings during project design and pre-construction will be held to review project components and impacts to residents. Past regional water management projects in RCWD have followed an informal public engagement process and have been well received by the public.

It is envisioned that further coordination will occur with entities such as road authorities and park boards where appropriate to collaborate on incorporation of additional benefits into the flood mitigation projects.

Project Narrative

a.) Describe partners (if any) and their role in this project.

Cities of New Brighton, Roseville and St. Anthony – Petitioned the RCWD to initiate a Basic Water Management Project under MS 103D. The cities' role in the execution of projects funded by a Flood Damage Reduction grant will continue by providing funding, coordination, and potentially project management of project components. The exact role of each city will vary by project location and type. The Cities are also landowners in several project locations, including road right-of-way.

Road Authorities – As the road authority of several roadways intersecting the tributary watershed, it is likely that some flood mitigation projects will require coordination with Ramsey County and MnDOT.

Several projects will likely involve access through, or work on, private property. Coordination will occur to ensure that landowners are engaged throughout the process and are aware of project scope and timelines.

VII. Flood Insurance: Do the local government units within your jurisdiction participate in the National Flood Insurance Program?

Yes

City of Roseville – 270599

City of New Brighton – 270380

City of St. Anthony – 270716

Ramsey County – 27053C

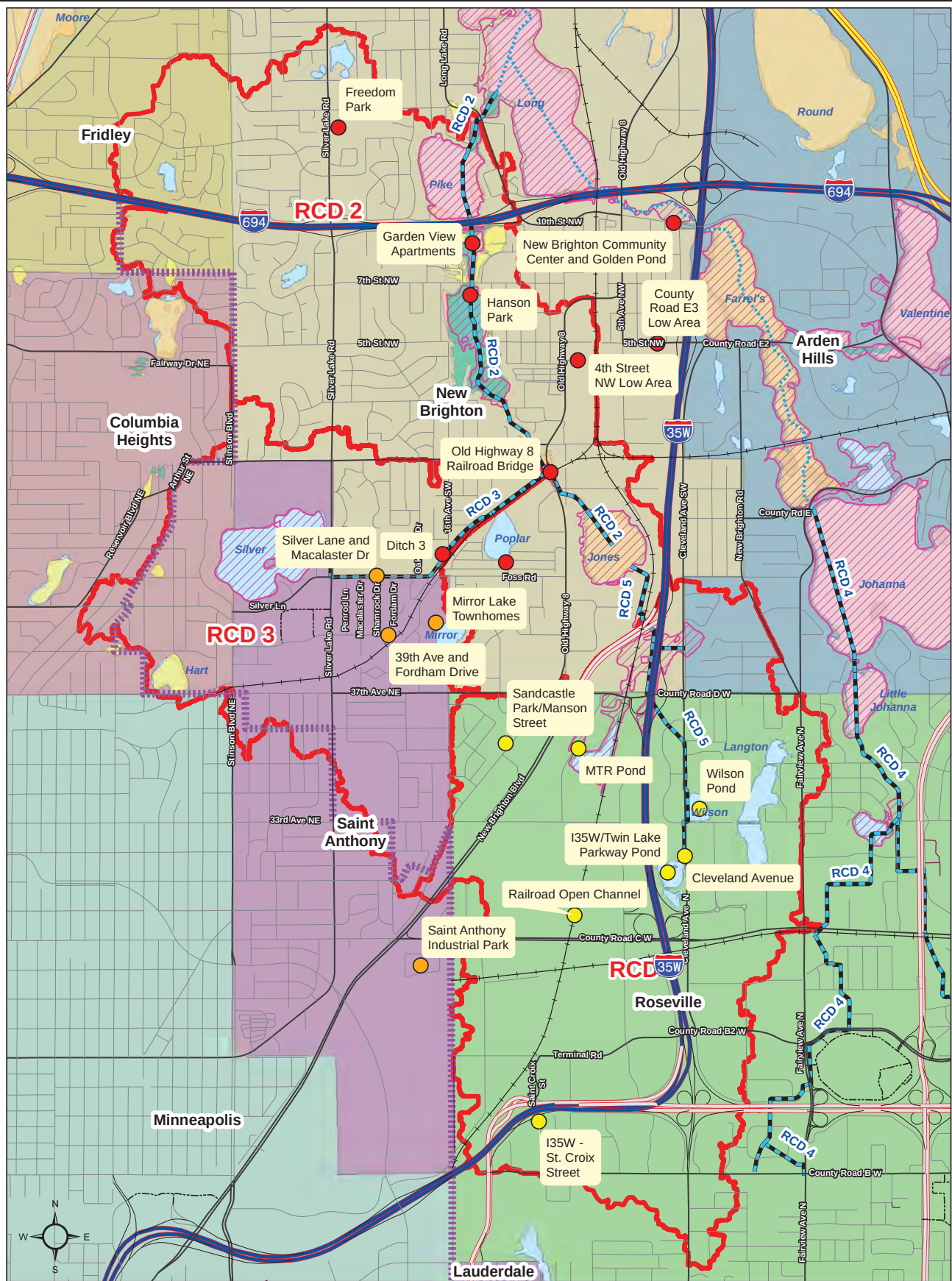
VIII. Zoning Ordinances: Is your local government unit administering a state approved shoreland ordinance and flood plain ordinance?

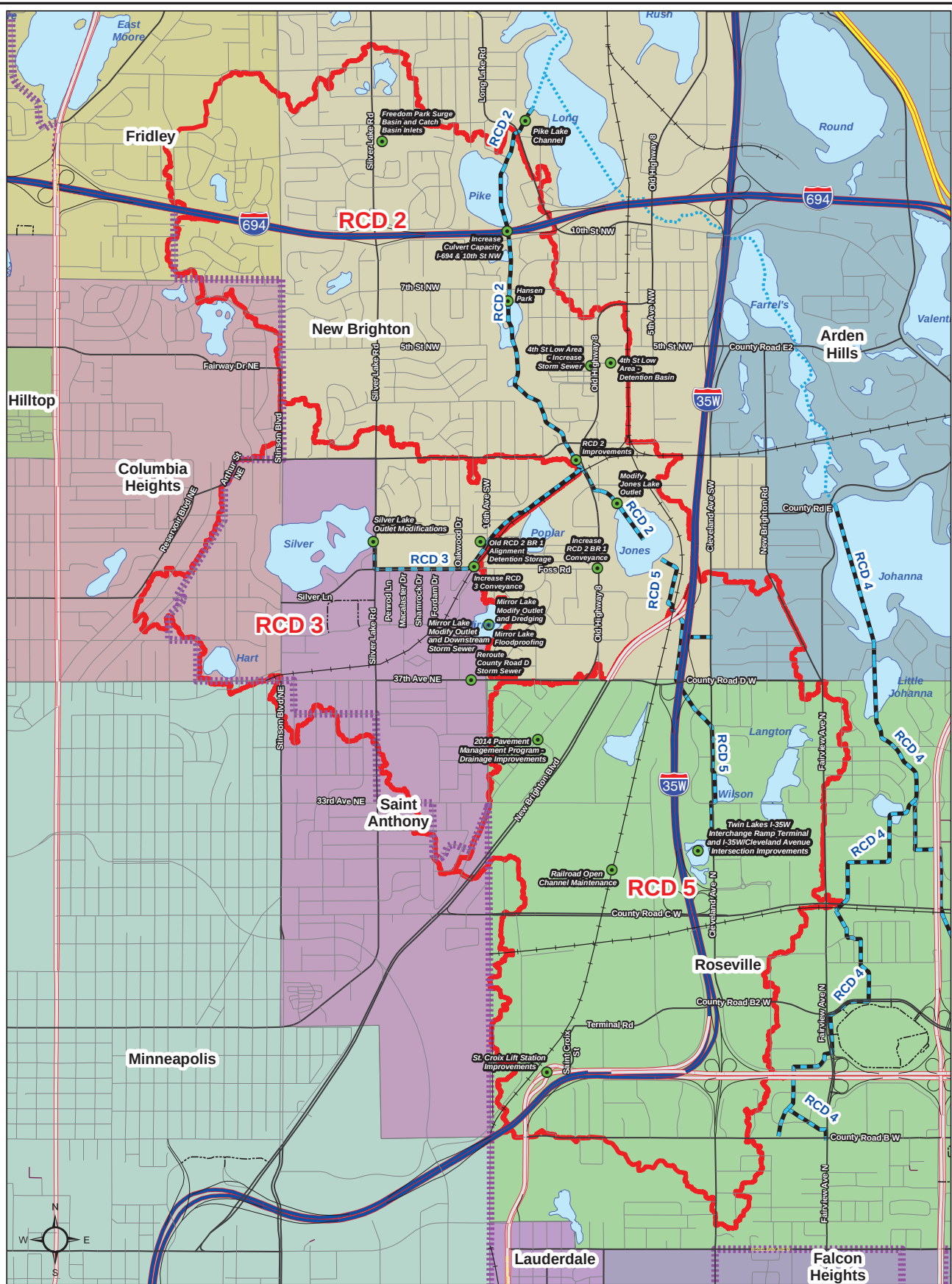
The RCWD does not administer the state approved shoreland or floodplain ordinances. The Cities of New Brighton, Roseville and Saint Anthony all administer a state approved floodplain ordinance. The Cities of New Brighton and Roseville also administer a state approved shoreland ordinance.

IX. Is this proposed study, plan, or project identified in a comprehensive local water plan prepared under M.S. Chapter 110B or 112 or M.S. 473.875-473.883?

Yes. The Cities of St. Anthony Village, New Brighton, and Roseville have each referenced this project in their comprehensive local water plans, approved by the RCWD in 2018 and 2019.

The RCWD has the project identified in its current Watershed Management Plan, and will be describing the project in greater detail in its update to the Plan for the time period 2020 to 2029.





0 2,500 5,000
Feet

Date Saved: 6/9/2014 3:08:56 PM

- Approximate Project Locations
- Public Ditch
- Public Watercourse
- RCWD Legal Boundary
- RCWD 2, 3, and 5 Drainage Areas
- MN DNR Public Waters Inventory

Figure 6: Project Locations

Scale: AS SHOWN	Drawn by: SMW	Checked by:	Project No.: 5555-221	Date: 5/28/2014	Sheet: 1 of 1
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Maple Grove
P: 763.493.4522
F: 763.493.5572

ITEMS REQUIRING BOARD ACTION

2. Consider Motion Related to the Repair of
Anoka/Washington Judicial Ditch 3 -Phase 1.
(Phil Belfiori/John Kolb)

MEMORANDUM

Rice Creek Watershed District

Date: April 17, 2019
To: RCWD Board of Managers
From: Phil Belfiori
Subject: Consideration of Findings and Order for Repair (Phase 1) of AWJD 3

At its regular meeting on April 10, 2019, the Board voted to indefinitely postpone consideration of Findings and an Order for the repair of AWJD 3 (Resolution 2019-11). The postponement was adopted so that the Board could consider the potential impact of HF 2314/SF 2372 on the basis of funding presented at the repair hearing for AWJD 3 and the Board's ability to execute the repair under its current budgeting assumptions. The postponement also allowed the Board to determine conditions upon which the repair could be ordered without impact from the proposed bills.

The Board has determined that ordering the repair after the close of the current legislative session, provided HF 2314/SF 2372 are not passed into law, will allow the repair to proceed on time (planned construction in 2020) and without risk to the current funding basis. For that reason, the Board reached a consensus at the April 15, 2019 special workshop meeting that the indefinite postponement be considered for removal at the April 24, 2019 regular meeting and that the motion at the Board meeting include language to return the matter for consideration at its June 12, 2019, regular meeting. Upon further discussion at the April 15, 2019 special workshop, the Board reached consensus the motion also include instructions to the Board's attorney to include in the findings a statement addressing legislative change to the District's current funding authorities.

Based on the Board's consensus discussion at April 15, 2019 special workshop, see below the proposed motion for the Board's consideration:

[MANAGER] Ms. President, I move that the indefinite postponement of consideration of Resolution 2019-11 be removed and that consideration of Resolution 2019-11 be set for the Board's regular meeting on June 12, 2019. Further, that the Board's attorney be directed to revise Resolution 2019-11 to include a statement addressing legislative change to the District's current funding authorities.

[MANAGER] Ms. President, I second the motion.

ITEMS REQUIRING BOARD ACTION

3. Consider Policy Revision Related to Delegation by Administrator for WCA No Loss Decisions. (Phil Belfiori/John Kolb)

MEMORANDUM
Rice Creek Watershed District

To: Board of Managers
From: Phil Belfiori, Administrator
Subject: Revised WCA Delegation Resolution

Date: April 17, 2019

Background/Discussion: An August 25, 2004, the Board adopted Resolution 04-10, and on February 25, 2009, the Board adopted Resolution 2009-07, both delegating to the RCWD Administrator the authority under the Wetland Conservation Act (WCA) to make exemption, no-loss, wetland boundary and wetland type determinations, and by Resolution 2009-07, delegating to the Administrator further authority for certain replacement plan determinations. This delegation is similar to that given for permit applications under the RCWD's regulatory program.

Unlike the delegation give under the regulatory program, however, neither Resolution 04-10 nor 2009-07 explicitly state the Administrator's option to bring matters of significant technical, policy or legal matters to the Board for consideration and decision. Both the administrator and staff believe that under WCA there may be applications that can be handled more effectively by an evidentiary hearing before the Board of Managers (i.e., rather than having a staff decision followed by appeal to the Board for an evidentiary hearing on appeal of the staff decision).

The proposed Resolution modifies and supersedes the prior delegations, updates certain terms and statutory references and includes an option for the Administrator to refer significant technical, policy or legal matters to the Board for consideration and decision. The Resolution gives the Board discretion, upon consideration of the referral, to accept or decline the referral.

District staff recommends that the Board adopt the resolution in order to provide an explicit referral option to the administrator and Board and to make the WCA delegation consistent with the regulatory program delegation which allows the Administrator to bring items directly to the Board or review and decision.

Recommendation: Staff recommends that the Board of Managers consider and approve the resolution as presented.

RESOLUTION 2019-13

**RICE CREEK WATERSHED DISTRICT
BOARD OF MANAGERS**

**RESOLUTION DELEGATING AUTHORITY FOR EXEMPTION, NO-LOSS, WETLAND BOUNDARY
AND WETLAND TYPE DETERMINATIONS, AND FOR CERTAIN REPLACEMENT PLAN
AMENDMENTS, UNDER THE MINNESOTA WETLAND CONSERVATION ACT**

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

WHEREAS, the Rice Creek Watershed District (RCWD) Board of Managers acts as the Local Government Unit (LGU) responsible for implementing the Minnesota Wetland Conservation Act (WCA), Minnesota Statutes §§103G.222 et seq., and, as the LGU, makes decisions under the WCA including exemption, no-loss, wetland boundary, wetland type and replacement plan determinations; and

WHEREAS, Minnesota Rules part 8420.0200, subpart 2.C., allows the LGU to delegate WCA decision-making authority to staff according to procedures it establishes, provided that it allows for appeal that includes a public hearing before appointed or elected officials; and

WHEREAS, RCWD staff, with the assistance of the RCWD engineer, is knowledgeable in all matters relating to implementation of the WCA and the delegation of decision-making authority to staff, in most cases, would provide for a more timely and efficient process; and

WHEREAS, on August 25, 2004, the Board adopted Resolution 2004-10, and on February 25, 2009, the Board adopted Resolution 2009-07, both delegating to the RCWD Administrator the authority to make exemption, no-loss, wetland boundary and wetland type determinations, and by Resolution 2009-07, delegating to the Administrator further authority for certain replacement plan determinations; and

WHEREAS, neither Resolution 2004-10 nor 2009-07 explicitly provided the Administrator to refer significant technical, policy or legal matters to the Board, at the Board's discretion, for consideration and decision; and

WHEREAS, the Board desires to give the Administrator the option to refer such applications to the Board for consideration and decision.

THEREFORE, BE IT RESOLVED, that the Board hereby affirms its prior delegations under Resolutions 2004-10 and 2009-07 as articulated herein: the RCWD Administrator shall have the authority to make exemption, no-loss, wetland boundary and wetland type determinations under and according to the requirements of the WCA, including but not limited to the authority

to request the assistance of the Technical Evaluation Panel as the WCA provides; and, the RCWD Administrator shall have the authority to make replacement plan determinations meeting the following criteria:

- Amendments to Board-approved replacement plans adjusting wetland replacement design (layouts, alignments, dimensions and footprint) provided replacement requirements are met.
- Amendments to Board-approved replacement plans reflecting changes to wetland impact (layouts, alignments, dimensions and footprint) provided that there is no increase in wetland impact or change to type of wetland impacted; and

FURTHER, that the Administrator will exercise the delegated authority in the same manner and according to the same terms, including requirements of public notice, opportunity for comment and consideration of TEP recommendations, as would the Board; and

FURTHER, that an appeal of the Administrator's decision will be afforded as follows:

- Any person or party authorized to appeal an exemption, no-loss, wetland boundary, wetland type or replacement plan determination under the WCA may, within 30 days of receipt of the Administrator's determination, submit to the Administrator a written appeal asking that the matter be heard by the RCWD Board.
- On receipt of an appeal, the Administrator will schedule the matter to be heard by the Board at its next regular meeting or the meeting thereafter and provide at least 7 days' written notice of the hearing to all parties required to receive notice of the Administrator's determination.
- The Board will consider the matter on the basis of the record compiled before the Administrator and an opportunity for all interested persons, including RCWD staff and engineer, to address the Board at the regular meeting.
- The Board's decision will be made within 30 days of the filing of appeal, unless an extension is agreed to in accordance with WCA rules, and will replace the decision of the Administrator and may be appealed as the WCA provides for appeal of an LGU decision; and

FURTHER, that the Board retains all other authority for replacement plan, except as stated here in and wetland banking decisions; and

FURTHER, that the Administrator may request referral of significant technical, policy or legal matters to the Board for consideration and decision. The Board may, in its discretion accept the referral. A decision of the Board may be appealed as the WCA provides for appeal of an LGU decision; and

FINALLY, this Resolution shall supersede Resolutions 04-10 and 2009-07.

The question was on the adoption of the Resolution and there were __ yeas and __ nays as follows:

	<u>Yea</u>	<u>Nay</u>	<u>Absent</u>	<u>Abstain</u>
WALLER	☐	☐	☐	☐
HAAKE	☐	☐	☐	☐
BRADLEY	☐	☐	☐	☐
WAGAMON	☐	☐	☐	☐
PREINER	☐	☐	☐	☐

Upon vote, the President declared the Resolution _____.

Michael Bradley, Secretary

Dated: April 24, 2019

* * * * *

I, Michael Bradley, Secretary of the Rice 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 transcript thereof.

IN TESTIMONY WHEREOF, I hereunto set my hand this 24th day of April, 2019.

Michael Bradley, Secretary

ITEMS REQUIRING BOARD ACTION

4. Consider RCWD Annual Report. (Beth Carreño)

MEMORANDUM
Rice Creek Watershed District

To: Board of Managers
From: Beth Carreño
Subject: 2018 District Annual Report

Date: April 17, 2019

Background / Discussion

Pursuant to Minnesota Rules Chapter 8410.0150, please find attached for Board consideration the 2018 RCWD Annual Report. The District is required to submit an annual activity report to the Board of Water and Soil Resources within 120 of the end of the Districts fiscal year. The content of this annual activity report includes an assessment of the previous year's annual work plan, a projected work plan for the next year, and several other administrative criteria.

Content for the 2018 plan has been completed as a draft for Board review. Final formatting including additional photos and photo acknowledgements, page assignments for the table of contents, and a final review will be completed before final submittal to BWSR.

Proposed Motion

Motion by Manager _____ to approve the 2018 Annual Report with any necessary formatting and non-material changes and authorize submission to the Board of Water and Soil Resources.



Rice Creek Watershed District

2018 Annual Report

4325 Pheasant Ridge Drive NE, #611
Blaine, Minnesota 55449
(763) 398-3070 | www.ricecreek.org
Contact: Phil Belfiori, Administrator

Photo Acknowledgements



Kyle Axtell

Pages

Samantha Berger

Pages

Terrence Chastan-Davis

Page

Matt Kocian

Pages

Ed Nater

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Catherine Nester

Pages

Tom Schmidt

Pages

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Financial Report

Budget, Expenditures & Revenue

Based on Audit

Expenditures/Programs	2018 Budget	2018 Expenditures	2019 Budget
General Administration	\$ 416,037	\$ 394,416	\$ 436,630
Programs			
Environmental Education	136,006	128,948	154,467
Information Mgmt/Technology	117,016	94,942	224,275
Water Resource Restoration	3,415,259	2,598,670	2,015,238
Regulatory	1,023,928	1,158,003	1,338,155
Ditch & Creek Maintenance	912,659	547,023	1,556,214
Lake & Stream Mgmt/Monitoring	1,334,145	950,873	1,420,050
District Facilities	200,000	29,222	200,000
Total Program Expenses	7,555,051	5,902,097	7,345,030

Revenue	General Fund	509 Planning Special Revenue Fund	Total Governmental Funds 2018
General Property Taxes	250,000	3,941,380	4,191,380
Revenue from 509 Fund	150,646		150,646
Special Assessments		298,616	298,616
Intergovernmental	117	862,176	862,293
Market Value Homestead Credit			
Grants & Reimbursements			0
Permits		199,722	199,722
Investment Income	27,711	92,458	120,169
Miscellaneous	1,310	93,140	94,450
Total Revenues	429,784	5,487,492	5,917,276

2018 Board of Managers & Advisory Committee

Patricia Preiner, President
Email: p1954r@aol.com
County: Anoka
Term Expires: January 2020

Barbara Haake, First Vice President
Email: trubador2@msn.com
County: Ramsey
Term Expires: January 2020

John Waller, Second Vice President
Email: john.waller@att.net
County: Washington
Term Expires: January 2019

Mike Bradley, Secretary
Email: bradleymj3@gmail.com
County: Ramsey
Term Expires: January 2018

Steve Wagamon, Treasurer
Email: stevenpwags@gmail.com
County: Anoka
Term Expires: January 2019

Citizen Advisory Committee:

Raj Alexander (appointed October 2018)

Dave Anderson

John Bartunek (through June 2018)

Gary Krejcarek

Wayne LeBlanc

Bridget Osborn

Douglas Ramseth

Bob Rosenquist

Jeff Severseike

Mary Jo Truchon

Marcie Weinandt

Staff & Consultants

2018 RCWD Staff

Phil Belfiori – Administrator
Kyle Axtell - Water Resource Specialist/Program Manager
Samantha Berger - District Technician / Permit Reviewer
Beth Carreño – Communications and Outreach Coordinator
Terrance Chastan-Davis - District Inspector
Patrick Hughes - Office/Regulatory Assistant
Matthew Kocian - Lake & Stream Specialist
Catherine Nester – District Technician/Inspector
Ashlee Ricci – District Technical Assistant
Lauren Sampedro – District Technician
Tom Schmidt - Public Drainage Inspector
Theresa Stasica - Office Manager
Nick Tomczik - Permit Coordinator/Wetland Specialist

2019 RCWD Staff

Phil Belfiori – Administrator
Kyle Axtell – Project Manager
Samantha Berger – District Technician / Permit Reviewer (through February 2019)
Beth Carreño – Communications & Outreach Coordinator
Terrance Chastan-Davis – Technician / Inspector
Marcus Green – Watershed Technician / Water Resource Specialist (began April 2019)
Patrick Hughes - Regulatory Assistant
Matthew Kocian - Lake & Stream Specialist
Catherine Nester – Technician/Inspector
Ashlee Ricci – Technical Assistant
Lauren Sampedro – Technician / Water Resource Specialist & Inspector
Tom Schmidt - Public Drainage Inspector
Theresa Stasica - Office Manager
Nick Tomczik - Permit Coordinator/Wetland Specialist
Kelsey White – Watershed Technician / Water Resource Specialist (began April 2019)

Legal, Professional and Technical Consulting Services

In 2016, the RCWD solicited statements of interest for legal, technical, and accounting professional services. Following solicitation, the RCWD selected Smith Partners for legal counsel, Rinke – Noonan for legal counsel related to drainage, Redpath and Company for accounting, and Houston Engineering. The District also certified thirteen other engineering firms to be part of an engineering pool for the same period of time. These agreements will continue through December 31, 2018.

Legal Counsel

Smith Partners
Louis N. Smith, Charles B. Holtman
400 Second Avenue S., Suite 1200
Minneapolis, MN 55401
Phone: 612-344-1400

Rinke Noonan
John Kolb
Suite 300, US Bank Plaza
PO Box 1497
St. Cloud, MN 56302
Phone: 320-251-6700

Consulting Engineers & Other Services

Houston Engineering
Chris Otterness, P.E.
6901 E Fish Lake Rd
Maple Grove, MN 55369
Phone: 763-493-4522

Redpath & Company - Accounting & Auditing
Mark Gibbs
4810 White Bear Parkway
White Bear Lake, MN 55110
Phone: 651-426-7000

Introduction & Map of RCWD

The Minnesota Board of Water and Soil Resources (BWSR) established the Rice Creek Watershed District (RCWD) at the request of citizens, county boards, and cities on January 18, 1972. The purpose of the RCWD is to conserve and restore the water resources of the District for the beneficial use of current and future generations. A Board of Managers appointed by the commissioners of Anoka, Ramsey, and Washington Counties governs the RCWD. Public board meetings are held on the second and fourth Wednesdays of each month at the Shoreview City Hall.

Watershed districts are local, special-purpose units of government that work to solve and prevent water-related problems. The boundaries of each district follow those of the watershed and consist of land in which all water flows into one outlet such as Rice Creek. Natural resources such as water are managed on a watershed basis because water knows no political boundaries and therefore coordination across city and in some cases state lines is important for successful resource conservation and management.

The RCWD is approximately 185 square miles of urban and rural land in Anoka, Hennepin, Ramsey, and Washington Counties. Portions of the District can be found in the following municipalities: Arden Hills, Birchwood Village, Blaine, Centerville, Circle Pines, Columbia Heights, Columbus, Dellwood, Falcon Heights, Forest Lake, Fridley, Grant, Hugo, Lauderdale, Lexington, Lino Lakes, Mahtomedi, May Township, Mounds View, New Brighton, Roseville, Saint Anthony, Scandia, Shoreview, Spring Lake Park, White Bear Lake, White Bear Township and Willernie.

The Rice Creek Watershed District:

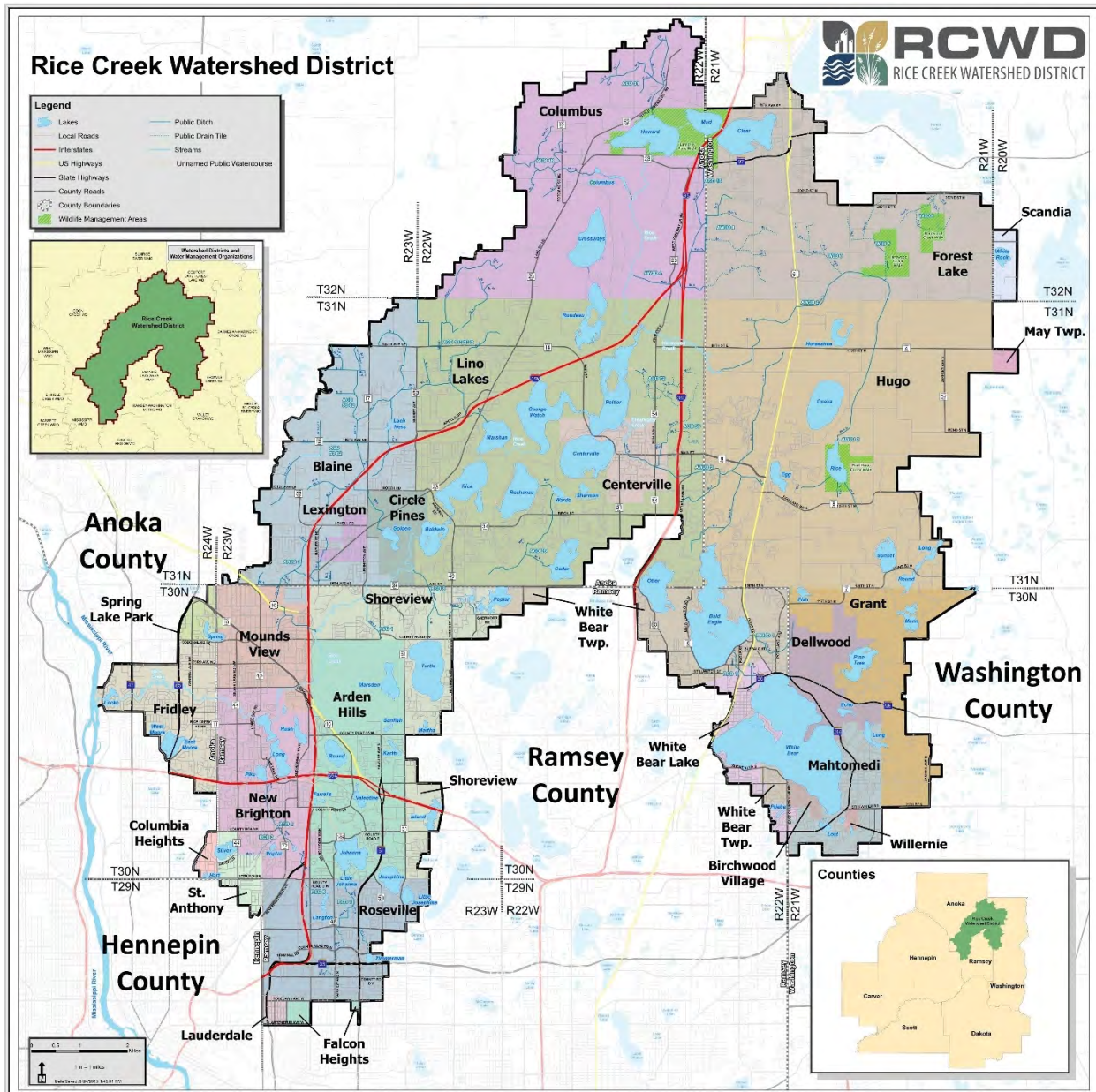
- Manages lakes, streams, groundwater, and wetlands
- Monitors water quality
- Promotes best management practices to improve water quality
- Maintains public drainage systems
- Inventories natural resources
- Issues permits and inspects construction sites
- Administers the Wetland Conservation Act (WCA)
- Educates residents about the watershed and how they can help
- Helps municipalities fulfill Clean Water Act mandates

The RCWD has demonstrated leadership in effectively managing water resources throughout Anoka, Hennepin, Ramsey, and Washington Counties. The District board and staff work together to adapt management priorities and practices to meet the needs of our constituents through the following activities:

1. Demonstrating world class problem-solving in our everyday work and planning;
2. Identifying impairments and improving water quality throughout the RCWD
3. Partnering with RCWD residents in all conservation efforts;
4. Operating in a way that is fiscally responsible and accountable to District residents
5. Making decisions with the RCWD as a whole in mind

Rice Creek Watershed District Map

The map below depicts the boundaries of the Rice Creek Watershed District. The headwaters of the District are located in Clear Lake, Hardwood Creek, and Clearwater Creek. Water then flows through the Rice Creek Chain of Lakes and empties into the Mississippi River.



2018 at a Glance

Capital Projects & Program Summary

2018 Water Quality, Reuse, and Drainage Projects

- Oasis Pond Iron Enhanced Sand Filter Project: Continued implementation of this innovative iron enhanced sand filter project in collaboration with the City of Roseville. Project partially funded through Clean Water Fund.
- Development the RCWD 10 years Watershed Management Plan: Continued drafting this comprehensive document which identified RCWD project and program priorities for the next ten years.
- Washington Judicial Ditch 2 Branch 1 and 2 Repair Project- Began project implementation of this public drainage system repair for agricultural and future municipal stormwater drainage.
- Forest Lake High School Stormwater Reuse Partnership Project: Completed implement this innovative reuse project at the Forest Lake High School athletic fields in partnership with Forest Lake Area Schools and the City of Forest Lake. Project partially funded through Clean Water Fund.
- Continued implementation of the RCD 2 3 5 basic water management project: Development of a comprehensive subwatershed assessment in collaboration with the Cities of St. Anthony, New Brighton and Roseville.
- Anoka County Ditch 53-62 Branch 2 Repair: Completed construction to repair this public drainage system to provide agricultural drainage and future municipal stormwater drainage.
- Hanson Park Project: Completed project implementation and construction of this regional flood control and water quality improvement project to protect Long Lake and portions of the southwest region of the RCWD. Project partially funded through Clean Water Fund /Target Watershed Demonstration Grant program.
- Mirror Pond Project: Completed project implementation and construction of this regional flood control and water quality improvement project to protect Long Lake and portions of the southwest region of the RCWD. Project partially funded through Clean Water Fund /Target Watershed Demonstration Grant program.
- Middle Rice Creek Restoration: Completed project implementation and construction of this stream restoration BMPs located at the former TCAAP site in Arden Hills. Project partially funded through Clean Water Fund /Target Watershed Demonstration Grant program.
- Carp Management: Continued project implementation and construction of the Long Lake watershed carp management project. Project partially funded through Clean Water Fund /Target Watershed Demonstration Grant program.
- Water's Edge Stormwater Reuse Partnership Project Phases 1 and 2: Continued partnership to fund construction and implementation of the City of Hugo's innovative

reuse project to reduce groundwater used for irrigation and protect downstream surface waters.

- Urban Stormwater Cost Share projects – Integrated the BWSR Watershed Based Pilot Study Funding with the RCWD Urban Stormwater Cost Share program to maximize funding for cost-share with city and county partners to further incentivize regional stormwater reuse projects, flood control projects and water quality projects.
- Water Quality Cost - Share: Provided funding through the three conservation districts with territory within the Rice Creek Watershed District to provide technical and financial assistance to private landowners to implement water quality restoration and/or protection projects.
- Implementation of the Anoka Chain of Lakes TMDL projects- Continued to pursue competitive grant opportunities to implement water quality BMPs with local partners including the potential for continued implementation of the Peltier Lake Drawdown project.
- Continued implementation of targeted Water Quality /TMDL implementation projects.
- Continued partnership with the City of Hugo for conducting minor maintenance on Washington County JD 2.
- Bald Eagle Lake TMDL Implementation: Continued project maintenance and monitoring of Bald Eagle Lake Stormwater Reuse/Phosphorus Reduction Project located at Oneka Ridge Golf Course in City of Hugo.
- Judicial Ditch 4 Repair and Browns Preserve Wetland Bank: Continued management of wetland restoration within former Houle WMA.
- Rice Creek Commons Green Infrastructure and Stormwater Reuse Feasibility Study: Completed this collaborative study with Ramsey County and City of Arden Hills on this large redeveloping parcel located adjacent to Rice Creek.

Additional Collaborative Efforts

- Continued RCWD city /county partnership meetings which include participation from the majority of cities and three counties. These events are to discuss partnerships and get input from our city and county partners.
- Entered into a cooperative agreement with DNR to provide modeling support related to FEMA floodplain program.
- Worked with Browns Creek Watershed District (BCWD) and BWSR to correct the RCWD /BCWD joint boundary.
- Continued to pursue partnership with city partners to identify the most productive sites within the RCWD for reduction of groundwater for irrigation. This resulted in several partnership-based projects with cities partially funded through the RCWD Urban Stormwater Remediation Cost Share program.
- Continued partnership with the City of Hugo for conducting minor maintenance on Washington County JD 2.

- Collaborated with City of Hugo on continued maintenance and project evaluation of the Bald Eagle Lake Stormwater Reuse/Phosphorus Reduction Project located at Oneka Ridge Golf Course.
- Continued partnership with City of New Brighton, St. Anthony, Roseville and Ramsey County on follow-up maintenance work for the Hanson Park Project and Mirror Pond Projects.
- Participated in Washington County Water Consortium meetings and activities.
- Coordinated education activities with East Metro Water Resource Education Program.
- Participated in the development of an Anoka County education and outreach collaborative.
- Coordinated education activities with Anoka County education and outreach collaborative.
- Cooperated with Anoka and Washington Conservation Districts to monitor lake levels and reference wetlands.
- Participated on the Anoka County Water Resource Task Force.
- Participated in educational efforts at county fairs and RCWD community events.
- Worked with local communities on MS4 Management Plans.
- Participated on the Watershed Partners and Blue Thumb Steering Committee.

2018 RCWD Programs

- Ditch and Stream Maintenance: Program to carry-out the District's responsibility for inspection and maintenance of 120 miles of public drainage system.
- Southeast White Bear Lake Drainage Area Subwatershed Plan- Developed this study in collaboration with Washington Conservation District and the cities located within this drainage area to identify high priority stormwater reuse and water quality management projects.
- Review of Local Water Plans- RCWD staff initiated a program to review 28 city local water plans for communities located within the boundary of the RCWD; this program will continue into 2019.
- Water Quantity, Flood Control and Water Quality Permit Program – This regulatory program addresses stormwater quantity and quality from new developments and re-development projects along with the administration of the Wetland Conservation Act in 25 of the District's 28 cities & towns.
- Lake & Stream Management: Program includes monitoring, development of lake management plans, invasive species control, and support of volunteer Stream and Wetland Monitoring Program.
- Water Education and Outreach Program: Provides support for the Master Water Steward program, the RCWD City /County partnership meeting series, and general outreach to cities and landowners.
- Drainage System Repair Reports: Program to systematically review, assess, and repair the 120+ miles of public drainage systems in the District.

- Environmental Education: Continued efforts to provide workshops supporting water resource issues such as Winter Road Maintenance and various landcare programs.
- District Facility Repair, Operations and Maintenance: Program to maintain and operate the 20 district-owned water quality treatment projects, lake level control structures, and conservation easements.

Proposed 2019 Water Quality, Reuse, and Drainage Projects

- Anoka Washington 3Repair: Develop design plans and project permitting for construction of this public drainage system repair to provide agricultural and future municipal stormwater drainage.
- Oasis Pond Iron Enhanced Sand Filter Project: Continue implementation of this innovative Iron Enhanced Sand Filter Project in collaboration with City of Roseville. Project partially funded through Clean Water Fund.
- Continue development the RCWD 10 Year Watershed Management Plan: Complete drafting this comprehensive document which identified RCWD project and program priorities for the next ten years.
- Anoka County Ditch 53-62 Main Trunk: Begin development of the repair report for this public drainage system
- Continued implementation of the RCD 2 3 5 basic water management project: Development of a comprehensive subwatershed assessment in collaboration with the Cities of St. Anthony, New Brighton and Roseville.
- Washington Judicial Ditch 2 Branch 1 and 2 Repair Project- Continue project implementation of this public drainage system repair for agricultural and future municipal stormwater drainage.
- Continued coordination with city and county partners to evaluate high priority stormwater reuse for irrigation sites consistent with the RCWD stormwater reuse assessment methodology study.
- Lower Rice Creek Restoration Project: Implementation of stream restoration BMPs in the City of Fridley along Rice Creek. Project partially funded through Clean Water Fund
- RCD 11 Iron Enhanced Sand Filter Project: Implementation of this innovative Iron Enhanced Sand Filter Project in collaboration with White Bear Township. Project partially funded through Clean Water Fund.
- Implementation of the Anoka Chain of Lakes TMDL Projects: Continue to pursue competitive grant opportunities to implement water quality BMPs with local partners including the potential for continued implementation of the Peltier Lake Drawdown project.
- Carp Management: Continue implementation of the district-wide carp management program and the Long Lake watershed carp management project.
- Urban Stormwater Cost Share projects – Continue funding the cost-share for city and county partners to further incentivize regional stormwater reuse projects, flood control projects, and water quality projects.

- Water Quality Cost - Share: Continue project funding to provide technical and financial assistance for landowners to implement water quality restoration and/or protection projects (in partnership with the three conservation districts with territory within the Rice Creek Watershed District).
- Continue implementation of targeted Water Quality /TMDL implementation projects.
- Continue partnership with the City of Hugo to conduct minor maintenance on Washington County JD 2.
- Continue to work with the DNR to provide modeling support related to FEMA floodplain program.
- Continue implementation of the RCWD Boundary correction program.

Education, Outreach & Communication

Goal: Use education and outreach tools as an integral element within the many aspects of the operation of the District to credibly convey data and information, thereby increasing knowledge, awareness and the capacity for decision-making among the constituents of the District.

2018 ACTIVITIES

Communicating with broad audiences about RCWD priorities, activities, projects, and data is critical to the fulfillment of the District's mission. Outreach is focused to assist with the implementation of Best Management Practices (BMPs) that benefit surface water quality, address water quantity issues, and reduce reliance on groundwater for non-essential use (e.g., lawn irrigation). The RCWD also intends to seek opportunities that promote personal responsibility in protecting water resources which can result in improved District resources and a more engaged community.

Blue Thumb – Planting for Clean Water®

The Blue Thumb – Planting for Clean Water® program (www.blue-thumb.org) helps residents improve water quality by providing the resources and support needed to plant beautiful native gardens, raingardens, and shoreline stabilizations.

The RCWD started the Blue Thumb program in 2006 to help residents and municipalities achieve water quality goals and meet Clean Water Act mandates. The program was transferred to Metro Blooms in 2015 and finalized in 2017. Blue Thumb remains one of the primary education and outreach tools used by the District to engage residents in activities that reduce stormwater runoff. The Blue Thumb website, displays, and brochures are used by staff regularly to educate residents at local and statewide events.

The RCWD Communications and Outreach Coordinator serves on the Blue Thumb Steering Committee. As a member of the steering committee, RCWD staff assists with implementation of projects, expansion of partners, and strategic planning for the long-term success of the program.

Blue Thumb and Rice Creek Watershed District successfully participated in the State Fair, Landscape Revival, and a newly developed Healthy Soils workshop in 2018. Additional programming included resilient lawncare, turf alternatives, and raingarden maintenance workshops. Metro Blooms and the Blue Thumb steering committee continued to work on improving partner communication, strategic planning, developing social media ads and memes as well as supporting print materials. The website, Pledge to Plant campaign, and new

professional development and networking opportunities were offered to current and prospective partners.



Example of RCWD social media post using Blue Thumb materials and a Blue Thumb marketing piece

Metro Watershed Partners

The RCWD is a member of the Metro Watershed Partners, a coalition of more than 70 public, private, and non-profit organizations in the Twin Cities metropolitan area. Through collaborative educational outreach, the partners promote a public understanding that inspires people to take action to protect and improve their local water resources. Since 1997, the partners have cooperated through education projects, networking, and resource-sharing.

The coalition coordinates the website www.cleanwater.org including features stories and blog posts, images, and resources to engage Minnesotans around the “clean water” message. This continues the coalition’s path of moving away from purchased media towards strategies focused on measurable behavior change. This also communicates a single message to residents in the Twin Cities area.

The Metro Watershed Partners developed the metro-wide Adopt A Drain program in 2018 and began promoting the program at the 2018 MN State Fair. The program expanded its efforts in 2019.

Communications

RCWD uses electronic, hardcopy, and social media communications to engage the public and meet (and exceed) legal requirements for communication. This includes distributing public notices, utilizing electronic e-newsletters, distributing press releases and/or writing columns about RCWD program and projects, and representing the RCWD at community events by hosting a booth or speaking to residents.

RCWD hosted a City-County Partner meetings in February and August 2018. These meetings are a critical method to keeping positive communication and relationships between our numerous city and county partners, updating on current initiatives, and getting feedback for future efforts. The 2018 meetings also served as the Technical Advisory Committee meetings

for the watershed management planning process. These partner meetings will continue in 2019.

Master Water Stewards Program

The Master Water Stewards Program was created to provide training and support for community members to help solve water resource problems in partnership with local experts and agencies. Modeled after the Master Gardener Program, Master Water Stewards learn about environmental policy, stormwater management, hydrology, environmental decision-making, and more. They also commit to completing a capstone project targeting a water quality issue in their community. Ongoing education and volunteering is required in subsequent years to maintain ones' certification.

RCWD staff recruited four community members to participate in the program in 2016. RCWD staff worked closely with the Stewards to plan and implement a capstone project comprised of an education and outreach campaign and a project designed to reduce stormwater runoff. Three collaborative projects began in 2016 and were completed in 2017 (two participants are working together on their project). The projects engage partners throughout the watershed district and include a church, county conservation districts, a school, multiple cities, a township, and members of the public.

Four additional Master Water Steward candidates were recruited in fall 2017. They began participating in the program coursework in October 2017 with a watershed tour. RCWD staff provided assistance in their selection of capstone projects. Those projects will begin in 2018 and may continue into 2019.

The Master Water Stewards Program is an opportunity to build capacity in RCWD communities to help the District and residents achieve their clean water goals. The RCWD will recruit a new class of Master Water Stewards to begin in the fall of 2018.

Stormdrain Marking

The stormdrain marking program reinforces the simple, yet important concept that "every curb is a shoreline." This program saw changes in 2018 to reflect partner needs and prepare for the metro-wide Adopt A Drain program. Partners requested traditional stenciling for stormdrains and resources were developed for neighborhood distribution when groups were completing stenciling activities. These materials promote Adopt A Drain and other water management choices.

Forest Lake Area High School

The District is working with FLAS high school teachers and other partners of the stormwater reuse project. The Forest Lake project includes a specific education deliverable to develop lessons around the concept of stormwater reuse for irrigation. RCWD staff will continue to assist the Forest Lake school district to develop these lessons and will also work with other

partners (including DNR and other watershed districts) to ensure that the lessons are duplicable (or easily modified) for other areas and meet a high educational standard.

Other Activities

RCWD provides funding support to the East Metro Water Resources Education Program (EMWREP) to build outreach capacity in Washington County and the Anoka County education and outreach collaborative to build outreach capacity in Anoka County. RCWD staff hosted numerous raingarden maintenance, turf alternative, resilient landcare, winter maintenance, and healthy soils workshops during 2018. A Level II Winter Salting Workshop and a Level I Winter Salting Workshop for streets and road maintenance were offered in partnership with Fortin Consulting, Inc during 2018. The District utilized a number of resources from Metro Watershed Partners to promote and educate on smart salting practices and sponsored Freshwater Society's Road Salt Symposium.

Workshop locations were selected in partnership with local communities. RCWD provided funding, planning, and implementation support for a Nonpoint Education for Municipal Officials (NEMO) workshop for elected officials and other decision makers / influencers in Forest Lake in September 2018.

Staff presented at or facilitated a number of homeowner association, lake association, and public meetings. District volunteers represented RCWD at Wargo Nature Center's Earth Day activities and other events throughout the watershed district. Staff participated in Metro Communicators CONNECT, Metro Watershed Partners, and Blue Thumb professional development programs.

2019 WORK PLAN

Education, Outreach, and Communication

This program includes a variety of education, outreach, and communication activities including drafting content for the annual report, website, newsletters, press releases and articles for city newsletters as well as other media outlets. Staff also frequently speak at or attend community events to share information about RCWD programs and projects as well as coordinate meetings and workshops for city staff and maintenance professionals to achieve water quality goals.

Participation in key partnerships such as the East Metro Water Education Partnership and Anoka education and outreach collaborative, Metro Watershed Partners, Metro Communicators CONNECT, and NEMO increases the depth and breadth of our work. The Communications and Outreach Coordinator will serve on the steering committee for the May 2019 Water Summit scheduled in St. Paul. This event is coordinated by the Freshwater Society. RCWD staff will continue to seek partnerships and collaborate whenever possible.

The District will continue to host City – County Partner meetings in 2019. Staff will also implement targeted educational opportunities for the partners (stormwater reuse for irrigation, winter maintenance, etc).

MailChimp will continue to be used to increase the efficiency and effectiveness of electronic communications with a variety of audiences.

RCWD Projects

Education, outreach, and communications plans are being established for the Hansen Park, Forest Lake (Stormwater Reuse), Long Lake Targeted Watershed Demonstration, Peltier, Bald Eagle Lake and other District projects. Each plan will be tailored to meet the needs of the community as well as to effectively share project benefits and plans with residents. Examples of this work may include developing signage and brochures, project tours, and significant coordination with partners to accomplish any one of these goals.

Additional projects in 2019 will include supporting Master Water Stewards as they implement capstone projects, working with partners to educate about the Stormwater Reuse for Irrigation Assessment Tool and Local Water Plans, and collaborating with RCWD staff to target outreach efforts to support the District's grant programs.

Blue Thumb – Planting for Clean Water

RCWD will remain an active participant in and supporter of the Blue Thumb program in 2019. District staff will participate on the Steering Committee as well as to monitor progress made towards the goals established in the Blue Thumb license and transfer agreement. Additionally, Blue Thumb materials and displays continue to be an important part of the District's outreach program.

Winter Roads Maintenance Workshop

RCWD will host two winter salting workshops in the fall of 2019 in partnership with Fortin Consulting, Inc. RCWD will also look for opportunities to promote and educate on smart salting practices including the sponsorship of Freshwater Society's Road Salt Symposium.

Evaluation

Evaluation of the overall and individual programs is through a combination of qualitative and quantitative markers. Each project or activity has its own markers that include meeting stated project goals and objectives; following strategies; number served; meeting stated contractual requirements; and fulfilling the defined outcome. Qualitative data comes from survey forms and feedback; engagement at City – County Partner meetings; and community engagement in programs.

Additional evaluation of programs and development of evaluation strategies are taking place during the process of updating the RCWD's Watershed Management Plan.

Stream Management

Goal: Healthy and vibrant streams that support wildlife and function to transport water while minimizing flooding.

2018 ACTIVITIES

Strategies

- Establish monitoring sites in strategic stream locations throughout the District and gather data from those sites in the most efficient way possible.
 - Data is used to monitor the long-term changes in flow and water quality and to provide the basis for evaluating improvement projects
- Monitor morphology of all streams in the District and use this information to develop restoration plans and evaluate completed restorations
- Restore stream stability and ecologic function to meet TMDL goals
- Collect data to support regional studies and programs including the MPCA's Metro Area Chloride Project and the Upper Mississippi River Bacteria TMDL

Stream Monitoring

The RCWD monitored water quality and/or quantity (continuous flow monitoring) at 15 stream sites in 2018. The District also cost-shared with the U.S. Geological Survey to collect real-time flow on Rice Creek.

Stream Health Evaluation Project (SHEP)

RCWD partners with Friends of the Mississippi River (FMR) and the MPCA to implement the Stream Health Evaluation Project (SHEP). The SHEP team consists of 30 volunteers who monitor area streams and collect macroinvertebrate data that can be used to evaluate overall stream health. This project, led by FMR, trains volunteers to systematically collect and identify benthic macroinvertebrates. The data is then shared with decision-makers to help inform discussions about stream health and water quality.

Sites on Rice, Hardwood, and Clearwater Creeks are chosen for their locations upstream or downstream of significant natural resource impacts such as ditch maintenance, new suburban development, and stream restoration projects. This allows volunteers to identify and track trends in the ecological health of the stream as land use changes and management/restoration

projects are implemented in the watershed. A final report summarizes the monitoring results once data is collected and quality-assured.

Middle Rice Creek Restoration

Middle Rice Creek extends from Lino Lakes to New Brighton. It was straightened in the early 1900's. This modification created an unstable channel with poor habitat. Middle Rice Creek is listed as impaired for biota. In 2016, the RCWD initiated a stream restoration project to restore stream meanders, stabilize stream banks and bed, and improve habitat. This project was fully completed in 2018. To evaluate success, several pre-project monitoring efforts were implemented including geomorphic surveys and a suspended- and bedload sediment monitoring partnership with the U.S. Geological Survey. This analysis will be conducted in 2019.



SHEP Volunteers in the Field



Middle Rice Creek Restoration Efforts (left)

Lower Rice Creek Restoration Feasibility

RCWD monitoring efforts on Lower Rice Creek indicate the channel is unstable and contributing excess sediment to downstream resources. In 2016, the RCWD initiated a feasibility study to identify opportunities for stream restoration, flood control, and habitat improvement. A final report was completed in 2018. The report identified priority stabilization areas, probable construction costs, and sediment reduction estimates. The report provided the basis for a

successful Clean Water Fund grant application in 2018; the RCWS was awarded \$568,000 to stabilize 11 high-priority streambanks.



Typical streambank erosion in Lower Rice Creek

2019 WORK PLAN

Lake and Stream Management and Monitoring - Surface Water Quality Monitoring Program

The Surface Water Quality Monitoring Program is guided through the Monitoring Program Plan and executed by the Lake and Stream Specialist. The District has a stream and lake monitoring network that continues to be refined to make it more pertinent to current water-quality concerns. Other monitoring supported by the District includes the Citizen Assisted Monitoring Program (CAMP) with ten lakes enrolled. Counties continue to be an important partner for lake water quality and water level monitoring with support and coordination from the District. The MN DNR works closely with the District for lake vegetation and fisheries management and stream-channel restoration. In 2019, the District will enter into inter-agency agreements with the Washington and Anoka Conservation Districts to conduct lake level and reference wetland monitoring and with Ramsey County to conduct water quality monitoring on ten lakes.

Lake and Stream Management Program

The Lake and Stream Management Program is focused on using the monitoring information, completed TMDL studies, and other diagnostic studies to select and implement a range of projects, programs, and activities to maintain, restore, and/or enhance the conditions of lakes and streams within the District. To date, the following TMDL studies have been completed and approved: Bald Eagle Lake Nutrient TMDL, Golden Lake Nutrient TMDL, Silver Lake Nutrient TMDL, Hardwood Creek Biota TMDL, Anoka Chain of Lakes nutrient TMDL, Peltier/Centerville Lakes nutrient TMDL, and the Southwest Urban Lakes TMDL.

Evaluation

Evaluation of the program is primarily through quantitative markers. Each project or activity has its own defined monitoring and project outcomes and markers that include meeting stated project goals and objectives; following strategies; numbers associated with times tested and

results of testing; meeting stated contractual requirements; and fulfilling the defined outcome. The ultimate evaluation tool is the improvement of the water resource from pre-project status.

Additional evaluation of programs and development of evaluation strategies are taking place during the process of updating the RCWD's Watershed Management Plan.

Lake Management

Goal: Manage lake systems for their ecological and community value, in a manner consistent with user expectations and technically achievable goals.

2018 ACTIVITIES

Strategies

The Rice Creek Watershed District works with lake associations toward restoration and conservation goals. In 2018, the RCWD worked with Bald Eagle, Clear, Peltier, Centerville,, Reshanau, Silver, Johanna, Little Johanna, and Josephine Lake associations on a variety of water quality projects including shoreline restoration, diagnostic studies, aquatic plant surveys, aquatic invasive plant control, carp management, and monitoring following an alum treatment (Bald Eagle).

Total Maximum Daily Load (TMDL)

Instead of counting calories for lakes' diets, we measure "Total Maximum Daily Loads," or TMDLs. A "Total Maximum Daily Load" is the total amount of a pollutant, in pounds, that a given water body can assimilate and still meet its designated use. The "designated use" of each water body must first be identified.

- Is it a source for drinking water?
- Is it used for recreation such as swimming?
- Does it supply agriculture or industry?
- Does it provide significant habitat for fish and other aquatic life?

After a lake's designated use is identified, the water must be tested for pollutants. If it fails to meet the minimum standards for its designated uses, pollution sources must be identified. Steps are taken to limit pollutants entering a lake so that it becomes suitable for the identified uses.

TMDLs for the Anoka County Chain of Lakes and Peltier / Centerville

Funding for these TMDLs was split between the District (Anoka Chain of Lakes TMDL) and the MPCA (Peltier/Centerville TMDL). These TMDLs were initiated in late 2007; they were finalized and approved in 2013. In 2016, the Peltier TMDL provided the impetus for the Peltier Lake Drawdown Project. A winter water level drawdown was proposed to compact loose lake sediment, reduce invasive curlyleaf pondweed, and improve water clarity. A 2-foot winter water level drawdown was achieved during the winter of 2017/2018. Extensive pre- and post-project monitoring data suggested mixed results: curlyleaf pondweed distribution and density were down, but overall phosphorus and chlorophyll-a levels were not significantly different from past years. There was some evidence that algae blooms were not intense; these data were corroborated by landowner observations, who felt the project made a positive difference.

TMDL Golden Lake

This TMDL was completed in 2009 and approved by the MPCA and EPA. The Anoka Conservation District, working with the City of Blaine and the RCWD, received a 2014 Clean Water Fund grant for an iron-enhanced sand filter retrofit project in the Golden Lake watershed. Project design began in 2014, and construction was completed in 2015. Monitoring of this project has continued through 2018. Data indicated significant reductions in phosphorus at the filter outlet. The RCWD has also partnered with the City of Circle Pines and Anoka Conservation District to construct another iron-enhanced sand filter where Lake Drive crosses ACD 53-62. Construction of this project began in 2018.

TMDL Bald Eagle Lake

The Bald Eagle Lake TMDL study was started in 2007 and was funded entirely by the RCWD. The final report for this study was completed in 2010; final approval was given in May of 2012. The Bald Eagle Lake Restoration Project began in 2014. Monitoring of the efforts completed through the Bald Eagle Lake Restoration Project was ongoing in 2018. Monitoring data for Bald Eagle Lake suggests significant improvements in water quality following the alum treatment. Beginning in 2014 and continuing through 2018, Bald Eagle Lake met state phosphorus standards for the first time since 1980 when data was first collected.

The RCWD applied for and was awarded a \$392,000 BWSR Clean Water Fund grant in 2018 for the future construction of an iron-enhanced sand filter along RCD11 in White Bear Township. RCD11 conveys urban runoff from the U.S. Hwy 61 corridor in downtown White Bear Lake to Bald Eagle Lake in addition to other localized runoff from residential areas within the subwatershed. Monitoring data has indicated that runoff from RCD11 carries the highest concentration of nutrients to Bald Eagle Lake. This project will build upon the successes of and lessons learned from other iron-enhanced sand filters constructed at Hansen Park and Oasis Pond.

Southwest Urban Lake Management Planning

Although not technically a TMDL, this “TMDL-like” study was developed by the RCWD to assess and improve the water quality of the lakes within fully developed watersheds. The project was conceptually defined in early 2007 and initiated after receiving numerous complaints and concerns from properties adjacent to the urban lakes. Much of the data assessment, lake sediment data collection, and preliminary BMP strategy development were done in 2007 with additional lake water quality data collection, model development and management approach development completed in 2008.

The RCWD completed construction of its iron-enhanced sand filter at Oasis Pond in late 2018, using a \$280,000 BWSR Clean Water Fund grant. Operation of the system full-time will begin in 2019 and the system will be turned over to the City of Roseville.

The Southwest Urban Lakes Management Plan has provided the basis for many water quality improvements projects. Through 2018, a minimum of 18 projects, ranging from small raingardens to regional stormwater retrofit projects, have come from this plan.

Long Lake Targeted Watershed Demonstration Program

In 2014, the District was awarded a \$3,000,000 Clean Water Fund grant from BWSR's Targeted Watershed Demonstration Program to help implement a series of projects aimed at improving water quality in New Brighton's Long Lake by reducing total phosphorus and sediment loading. The four primary projects being implemented through this program include:

1. A stream restoration and re-meandering project on Middle Rice Creek within the former Twin Cities Army Ammunition Plant
2. Development of a carp management plan for Long Lake and its connected waters (including implementation of that carp management plan)
3. A water quality and flood control project within Hansen Park in New Brighton
4. A water quality and flood control project within Mirror Lake in Saint Anthony

2018 saw significant advancements on all aspects of the program, including substantial or total completion of the three construction projects:

- Phase 2 of the Middle Rice Creek Restoration Project was completed.
 - Restored meanders were brought on-line in the early-spring of 2018
 - All projects components, including erosion control, native shrub and grass plantings, and site restoration, was completed in early-summer 2018.
- Significant research has been completed on common carp migration and population dynamics in Long Lake and the Rice Creek Chain of Lakes system.
 - In 2018, the RCWD partnered with the U of M to continue testing a new and innovative electric barrier and guidance system. Final results from testing indicate very high efficacy. 90-100% of migratory carp were blocked from accessing spawning areas, and approximately 74% of migrating carp were guided into a trap.
 - Seasonal migration tracking and population estimates continued.
 - In 2019, the electric barrier and guidance system will be used to remove large numbers of migrating adult carp from Rice Creek (goal is 50-60% of population).
 - The Long Lake / Lino Chain of Lakes Carp Management Plan was finalized and approved in 2018.

- Construction on the Hansen Park Comprehensive Water Management Project was substantially completed in 2018. The iron-enhanced sand filter began operations in the summer. Some modifications to the system are planned for 2019 after a partial season of operation. The flood management components of the project all operated as intended, resulting in significantly reduced storm flooding downstream on RCD2. The City of Saint Anthony, working with the RCWD, completed the Mirror Lake Improvement Project in 2018.



A final grant report was submitted to BWSR in January 2019.

Aquatic Invasive Species Management

The RCWD provided funding and plant surveys to support management of invasive plants on Bald Eagle, Reshanau, Josephine, Silver and Clear Lakes. The Curlyleaf pondweed is a non-native, invasive aquatic plant with an unusual lifecycle which contributes to internal phosphorus loading in lakes.

Lake Monitoring

In 2018, the District entered into inter-agency agreements with the Washington and Anoka Conservation Districts and Ramsey County to conduct lake level, water quality, and reference wetland monitoring. The RCWD staff were responsible for monitoring water quality on ten lakes. This monitoring will enable the RCWD to verify effectiveness with the Resource Management Plan (RMP) and rule provisions and adapt our rules and tactics accordingly.

The District completed aquatic plant surveys in cooperation with lake associations on Bald Eagle, Reshanau, Peltier, Long, and Clear Lakes.

Citizen Assisted Monitoring Program (CAMP)

The RCWD continued to support citizen lake monitoring through the CAMP program in 2018. The CAMP program is run by Metropolitan Council with financial support from the RCWD. Eleven lakes were monitored by CAMP volunteers. They collected data on nutrients (phosphorus and nitrogen) as well as chlorophyll-a and transparency.

2019 WORK PLAN

Southwest Urban Lakes Implementation

This capital improvement program addresses the degraded water quality of lakes located within the southwest portion of the District. This program is generally identified within the Lake Management Plans contained within the report titled, “Southwest Urban Lakes Study” dated April 2009. The Southwest Urban Lakes Study assessed the water quality of 24 lakes in the southwest portion of the District particularly in relation to state water quality standards. It resulted in the development of management action plans for each lake. The intent of each management action plan is to provide the District a prioritized list of projects for further investigation. More than 200 potential retrofit BMPs are identified in the management action plans. Further feasibility assessments are needed for most projects before the District proceeds with any particular project. The District intends to make some minor modifications to the Oasis Pond Iron-Enhanced Sand Filter Project and bring the system online full-time in 2019, when it will be turned over to the City of Roseville for operations and maintenance.

Long Lake Targeted Watershed Demonstration Program

Construction is complete on the Middle Rice Creek and Mirror Pond projects and substantially complete on Hansen Park. Remaining work at Hansen Park in 2019 is limited to some minor modifications to the iron-enhanced sand filter system, adjustments and finish work on the park trails and vegetation management. Research, development, and equipment testing continued for the fourth project: carp management. A new electric barrier carp barrier was used to direct migrating carp into a mock trap. Results from testing in 2018 indicate that the majority (~80%) of migrating carp were directed into the trap. The barrier was also effective at stopping upstream movement, which is important for preventing reproduction. Data collected between 2014 and 2018 were used to craft a Long Lake / Lino Chain of Lake Carp Management Plan. The Plan will guide carp management activities on the system in future years.



Iron-Enhanced Sand Filters under construction at Hansen Park

Evaluation

As with Stream Management, evaluation of the program is primarily through quantitative markers. Each project or activity has its own defined monitoring and project outcomes and markers that include meeting stated project goals and objectives; following strategies; numbers associated with times tested and results of testing; meeting stated contractual requirements; and fulfilling the defined outcome. The ultimate evaluation tool is the improvement of the water resource from pre-project status.

Additional evaluation of programs and development of evaluation strategies are taking place during the process of updating the RCWD's Watershed Management Plan.

Regulatory Program

Goal: Effective regulatory program that fosters sound land use and water resource management in communication with land use authorities throughout the District.

2018 ACTIVITIES

Strategies

- Ensure that permits are processed in a timely and professional manner
 - The District utilizes a database with automated reminders of application status
- Work with cities to ensure that the RCWD rules are well-understood by city staff through RCWD partnership meetings and direct communications with municipalities and shared applicants.
- Ensure the District's permit program and responsibilities as the WCA Local Governmental Unit (LGU) are applied fairly and uniformly throughout the District
- Continue review of old files, eliminate duplicative information, and further develop the archival system to make files more accessible and use less office space
 - The District reviews old files as inquiries and applications come into the office
- Ensure permit holders and municipalities are using and encouraging proper erosion control measures at development sites through regular site inspections
- Foster productive professional relationships with other regulating entities and promote unified messages that encourage successful projects
 - District staff routinely communicate with municipal staff as well as other state and federal staff on issues and projects
- Provide best project value to citizens by expending local efforts in coordinated regulation of MNDOT design build approach to projects

Permit Application Review Actions

Permit application review is undertaken by a team of engineers, attorneys, and RCWD staff. Houston Engineering is the district engineer, and the district's legal counsel includes the two law firms of Smith Partners and Rinke Noonan. The District provides dedicated regulatory staff serving the public throughout the entire regulatory process: from pre-application discussion, effective application review, site inspections, and the maintenance of stormwater facilities.

The RCWD encourages early discussion on project compliance with district regulation. This is especially important when applicants and their consultants are responding to the nuances of the rules. At times, district files contain important information on past projects and/or studies, such as regional stormwater facilities or Comprehensive Stormwater Management Plans (CSMP), that can be made available for consideration. Early project coordination also serves to address areas of regulation that benefit from additional explanation, such as the Comprehensive Wetland Protection and Management Plan (CWMPMP) and its relationship with

WCA in certain areas of the District. In addition, the District has numerous guidance documents and worksheets to assist applicants and consultants in designing their projects to meet district rules. The District continually updates these documents, and they are available on the website.

The permit application review schedule is designed to allow for ongoing communication with the applicant and their team to “fine tune” materials and demonstrate compliance with the rules. Most permit applications require the RCWD Board’s consideration at the second monthly board meeting although some regulatory actions have been delegated to the Administrator. District staff and engineers continue to identify regulatory areas needing clarification through guidance documents and/or additional revision of the regulations.

RCWD is actively improving communication with applicants and their consultants. In the upcoming year, the District plans to improve the website, simplify language for permit application status updates, update guidance documents, and encourage more pre-application meetings. Staff will continue to identify processes and activities that can be improved.

Inspection

The RCWD is geographically subdivided into inspection areas served by separate staff with multiple duties (not including the City of Hugo and the City of Circle Pines who have permitting authority for RCWD Rules C, D, E and F—see map below). The inspection department is equivalent to 2.5 full time staff members. The RCWD continues to contract with the Ramsey Conservation District (RCD) for inspection services within a portion of the District. This relationship continues to substantially contribute to the RCWD’s overall inspection activity.

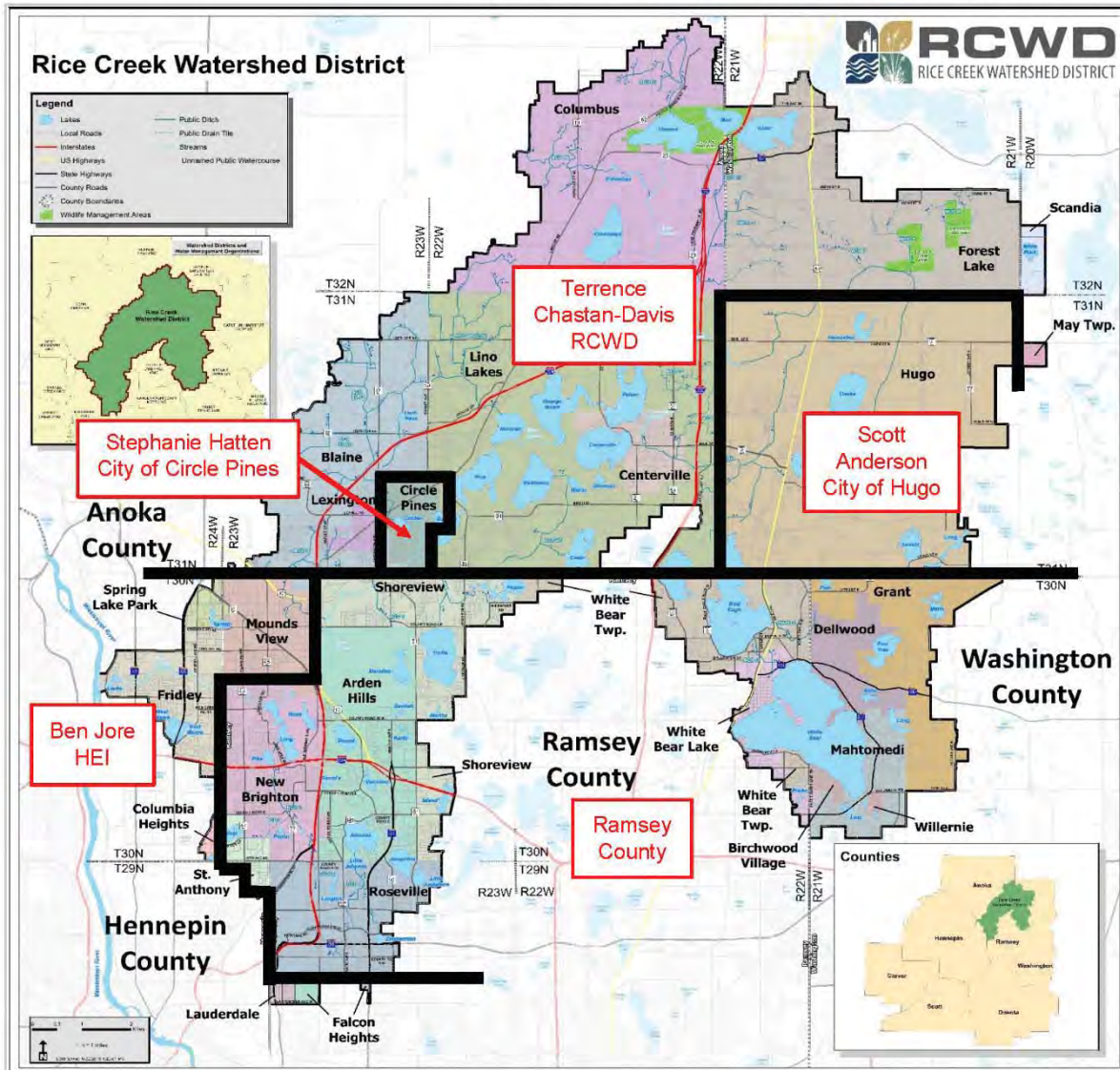
Rice Creek Watershed District

Inspector Area Map

August 24, 2018

Inspector Contact Information

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Terrence (RCWD)		Ben (HEI)		Ramsey County		Scott (City of Hugo)	Stephanie (City of Circle Pines/WSB)
Blaine	Lino Lakes	Columbia Heights	Arden Hills	Roseville		Hugo	Circle Pines
Centerville	May Twp	Falcon Heights	Birchwood Village	Shoreview			
Columbus	Scandia	Fridley	Dellwood	St. Anthony			
Forest Lake		Lauderdale	Grant	White Bear Lake			
Lexington		Mounds View	Mahtomedi	White Bear Twp			
		Spring Lake Park	New Brighton	Willernie			

The RCWD conducts two types of regular permit inspections: routine and close-out. Non-routine inspections relating to complaints or work without a permit are also conducted as needed. Inspections are necessary to ensure compliance with the RCWD rules. Routine inspections most frequently include ensuring the proper use of sediment and erosion control BMPs at active residential, commercial, and industrial development sites. RCWD also conducts regular inspections to confirm compliance of stormwater management features, wetlands, and floodplains.



Above photo: Erosion and sediment control in a ditch bottom/driveway culvert

Ongoing relationships between RCWD inspectors and on-site personnel are a key factor in site compliance. Also, significant cost savings can be realized when deficiencies are identified during the construction process rather than after construction is complete.



Above photo: Inlet protection in need of maintenance



Above photo: Erosion control blanket with hydroseeding

Closeout inspections are performed when a project has been completed. Closeout inspections seek to verify that the project has been built per the RCWD-approved plan, final stabilization/vegetation has been established, and all temporary BMPs have been removed. Close-out inspections typically lead to permit closure and the return of any surety held for the permit.



Above photo: Constructed permeable pavers in parking lot



Above photo: Leftover silt fence needing to be removed following final stabilization

The RCWD inspectors continue to maintain a regular presence on active construction sites while balancing the need to resolve older, inactive permits. The goal in 2018 was to inspect each active construction site at a frequency of once per month and to prioritize inspections based on a variety of factors. Higher priority sites include sites that are larger than one acre and sites discharging to a special or impaired water. Other factors can be considered when determining a site is high priority. Inspectors continue to put forth a thorough effort towards meeting this

goal. A new goal established in 2018 was to make contact with the permittee at least once per year for inactive or stabilized sites with remaining permit requirements.

Permanent Stormwater Management BMP Monitoring and Assessment

In 2018, the RCWD continued to assess the functionality of the ever-growing number of permanent stormwater management BMPs using an inquiry-based or as-needed approach. For example, a formal maintenance inspection may be appropriate if the RCWD receives a maintenance-related complaint or a proposal for utilization of excess treatment volume in an existing BMP as part of a new permit application. The District also receives occasional requests for confirmation of compliance with maintenance requirements during property transactions. This may warrant a maintenance inspection. RCWD will continue to perform formal maintenance inspections on an as-needed basis in 2019.

In 2018, BMP inspection guides and reference materials were added to the website for use by those responsible for maintaining BMPs. RCWD maintenance agreements typically include a requirement that an annual report documenting inspection dates and associated actions will be submitted to the RCWD within 30 days of the anniversary of permit issuance; however, very few are received. While this is problematic regarding the maintenance agreement language, with the ever-growing number of permanent stormwater BMPs, the current level of staffing would likely be insufficient to review & file all the reports and follow-up on identified issues. To promote awareness of the required maintenance obligations, RCWD inspectors remind permit holders of perpetual maintenance requirements for permanent stormwater BMPs at the time of permit closure.

2018 Permit Activity

Year	2017	2018
Review Files (WCA-only decisions, complaint files, and other site reviews)	244	191
Permit Applications	130	127
General Permits Issued	106	113
Variances Issued	3	6
Enforcement Actions Taken	0	0
Construction sites inspected	231	239
Notices of violation (including all inspection reports issued containing at least one non-compliant item, including minor compliance issues)	208	152
Total inspections	837	841
Stop work orders (10-day notice)	14	3
Frequency at which construction site inspections are conducted	Weekly	Weekly
Permits closed	117	106
Previously permitted sites inspected for permanent Stormwater BMP maintenance	3	0
Board Orders	1	0

2019 WORK PLAN

Managing excess runoff is necessary to prevent areas from flooding, reduce erosion, and address water quality problems. District rules and the permit review program are the primary methods used to achieve this goal. However, the District understands this is not the only strategy to meet the goal and continually considers a multi-faceted approach for potential projects.

Excess runoff management broadly includes managing peak runoff rates, runoff volume, floodplain capacity, lake water levels, flooding, and the consequences of excess runoff including erosion and sedimentation. While the effective management of excess runoff reduces the need for public expenditures to construct large and more expensive stormwater management facilities, the District recognizes large projects are a likely need to manage stormwater in a developed and developing landscape.

Erosion and sedimentation are addressed, at least in part, by the ongoing inspection of active construction sites. Excess runoff is generally managed on a day-to-day basis through implementation and enforcement of district rules, the review and approval of Local Water Management Plans within the district, and by providing technical data, support, and information. This overall strategy will continue in 2019.

In 2018, the District continued to implement an efficient regulatory program based on the previous year's areas for potential improvement. The District had surveyed several consultants that routinely work with applicants in preparation, development and securing a district permit. The survey results along with internal discussion between permit team staff and the district's own consulting engineer resulted in several areas for improvement. The District immediately implemented practices intended to improve efficiency and improve productive communication. This included:

- Clarity on the availability of pre-application meetings
- Increased visibility of common application issues to decrease occurrences
- Changing communication and language to focus on message and next steps
- Increased use of phone calls in coordination with formal email communications
- Increased transparency of options for landowner authorization of projects
- Utilization of quick "insufficients" to describe major application issues needing attention

A number of other areas are slated for changes which require a larger effort and are slated for the coming year 2019. These include:

- Database improvements for application management
- Illustrate to regulatory team and potentially applicants the various steps in obtaining a permit
 - "Life of a permit"
- Revise certain rules to reduce variance applications as well as for greater clarity and simplicity

- Upload a publicly viewable GIS layer on the District's website
- Increase readability of website regarding permit issues
- Continue to hold annual/semi-annual RCWD and consulting engineer permit team training seminar

Permit Review Program

The purpose of the Permit Application Review Program is to implement district rules through the receipt and review of applications for permit issuance and the subsequent inspection and enforcement of permit terms and stipulations. In 2018, the District received 127 Permit applications; 113 of these have been issued permits. Permit application review will continue in 2019.

This program includes an annual audit of the City of Hugo and the City of Circle Pines, both of which have assumed administrative delegation of District Rules C, D, E, and F. This annual review will continue in 2019. The purpose of the audit is to ensure that district rules are being consistently implemented by the cities.

Evaluation

The District measures the success of permit review by the issuance of permits and the closure of permits. For any applications that remain incomplete, applicants are contacted by District staff to ensure thorough communication of required materials needed for a complete application. District inspectors review permits to ensure that they are meeting the permit obligations.

Additional evaluation of programs and development of evaluation strategies are taking place during the process of updating the RCWD's Watershed Management Plan.

Land & Water Conservation

Goal: Capitalize on opportunities to enhance water quality, reduce runoff volume, and flood damages, and enhance ecological resources by using open space and greenways.

2018 ACTIVITIES

The RCWD utilized an innovative method for dealing with the seemingly incompatible objectives of protecting wetlands and improving water quality while providing viable options for land development and agricultural drainage.

This method was originally termed Resource Management Plans (RMPs). These plans were predicated on a position that public drainage could not be maintained to the as-built condition without an unmanageable cost to the District and benefitted parties. That position was coupled with Comprehensive Wetland Protection and Management Plans (CWPMs) under the Wetland Conservation Act (WCA) and sophisticated computer models to predict the quantity and quality of water pre- and post-development. The approach resulted in concern from benefitted parties on their drainage rights and periodic concern for the special stormwater provisions of district regulations. Therefore, the District considered an alternative approach.

The District took a different and measured approach to public drainage management (which included securing a BWSR grant). This approach included accessing the public record and functionality to adopt the As Constructed and Subsequently Improved Condition (ACSIC) of the drainage system. With the foundation of the historic drainage capacity in place, the District systematically reviews segments of the system to consider maintenance to the ACSIC. The potential wetland impacts are considered in the regulatory environment and alternatives evaluated; this includes less environmentally damaging public drainage alignments. The District has returned many segments of the public drainage system to ACSIC through this approach.

The adoption of the different CWPMs as a subcomponent of the RMPs occurred over a period; each adoption was subject to the independent concerns and political will of the subject municipalities. Many of the CWPMs and their implementing rules included slightly varying standards creating an administrative challenge and confusion within the regulated community. In 2013, the District consolidated the CWPM's implementation rules into a single rule, with unified terms and standards for wetland protection consistent among the CWPMs. The overall RMP concept remains in place and continues to be used to guide District resource decisions.

The District's regulations were also amended in 2013 to eliminate the unique stormwater position for "RMP" portions of the district in favor of a single district wide standard. The stormwater treatment requirements have been fulfilled under the customary eligible stormwater treatment actions. The stormwater volume bank model was removed in the 2013 rule adjustments. The current rule includes provisions for municipalities and road authorities to

develop Comprehensive Stormwater Management Plans (CSMP). These plans, developed in close coordination with the District, provide stormwater planning opportunities for unique geographic areas. Generally, the plans are a stormwater framework for future development/redevelopment, balancing what can be unique water quality and rate control requirements for future regulatory implementation. Overall, the new approaches amend the District approach under the RMP title while maintaining other benefits of the RMP approach.

The approach maintains the CWPMP outcome of a wetland management corridor; incentivizing a corridor establishment and a synergy that would otherwise be lost to disconnected wetland replacement. The CWPMPs include an intensive resource inventory and processes to protect the unique resource while consolidating lower quality resources into larger habitat blocks that also increases their resource value. The intended result is development occurs without wetland impact; however, when there is impact, further defined habitat is shaped and protected under regulation buffer and easement requirements.

The CWPMPs are valuable for balancing the District's multiple obligations including their roles as the Wetland Conservation Act Local Governmental Unit and as the drainage authority. The development of the CWPMPs included participation and comment from the Army Corp of Engineers; expending efforts for the plans and implementing rules to be in alignment with Army Corp of Engineers wetland regulations (regulatory uniformity). These efforts continue as the Lino Lakes CWPMP has been proposed to the Army Corp of Engineers for recognition as a Special Area Management Plan (SAMP). This effort has been underway by Lino Lakes for several years with no adoption of the SAMP by the agency. However, for all CWPMPs, the Army Corp of Engineers has communicated an effort to consider the unique local planning in review of wetland manipulation under the Clean Water Act (CWA) 404 permitting process.

The following is a list (map also provided) of the adopted CWPMPs:

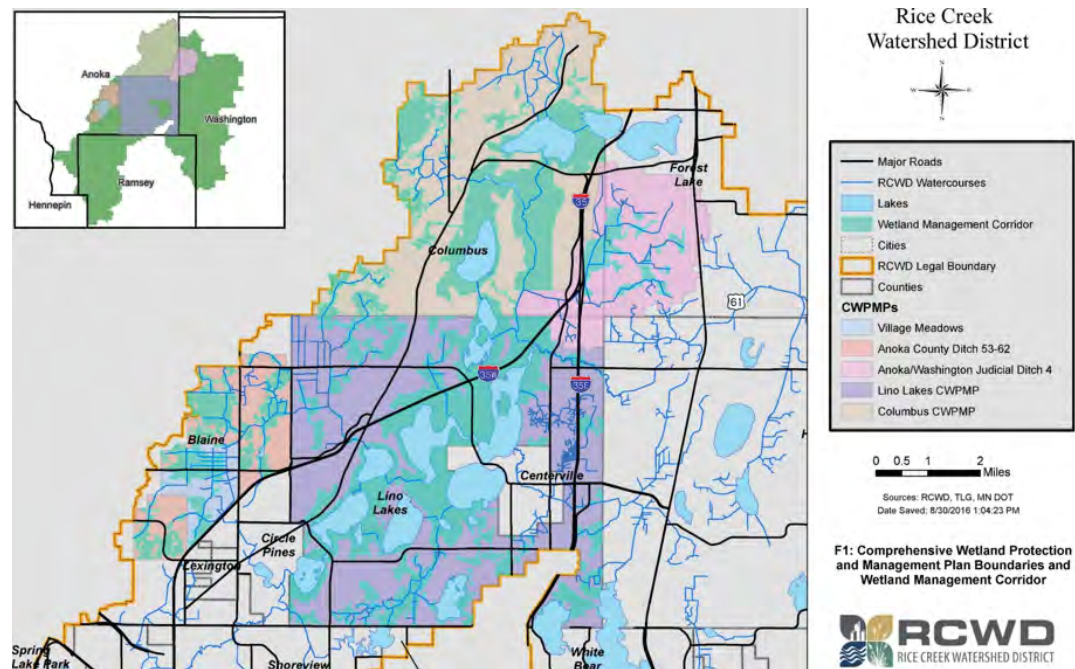
Village Meadows

Anoka County Ditch (ACD 53-62) CWPMP

Anoka-Washington Judicial Ditch 4 (JD4) CWPMP

Lino Lakes CWPMP

Columbus CWPMP



The District continues to administer the CWPMP under the permit program. This has resulted in the assembly of the wetland areas with buffers under protective easements to the District. There have been a number of development projects that had difficulty or demonstrated hardship providing the required WMC buffer. This resulted in variance situations. These variance requests were generally approved by the District. In these cases, the deficient buffer was found to be a hardship and the area was not subject to stormwater runoff, and so water quality, erosion and similar factors were not a paramount concern requiring buffer.

This year again the District received a number of variance requests to the wetland rule's buffer requirement. The applicants were unable to meet the required buffer width or average area being confined between the proposed development and the existing wetland; the irregular boundary of the wetlands as opposed to development's typically straight and rectangular arrangements exasperates the situation. The District in receiving multiple variance requests to the same section of rule has begun investigating the rule content and administration.

The District successfully completed restoration of a large peat wetland complex (more than 100 acres) within the Wetland Preservation Zone called Brown's Preserve. The project included

rerouting a portion of the main trunk of JD 4 around the large wetland complex to substantially reduce the nutrient load to the wetland basin itself while restoring drainage function through the reroute of the drainage ditch location. In 2018, the District continued adaptive management of the site's wetland vegetation and increased vegetative diversity and overall quality.

The District began to explore the need and possible establishment of a second wetland bank. The District identified a substantial need for the establishment of a wetland bank and a (likely) future need of wetland credits to achieve overall district water management goals. This spurred the exploration of potential wetland bank sites and included the release of a "request for interest" to the public for landowners potentially interested in partnering with the District to develop a wetland bank. The District also considered other "known" sites under district ownership as well as several "known" sites with potential for wetland banks.

Recent permit applications in Lino Lakes, specifically the vicinity of Interstate 35E and Anoka County Ditch 55 & 72, uncovered complications between development goals (i.e. zoning density) and the stormwater outlet capacity for the area. The city's comprehensive plan has the area slated for development; this would result in significant stormwater runoff. However, the area's limited outlet is largely dependent on an agricultural tile portion of the public drainage system. It was not intended for the capacity necessary for development. Because of the current outlet size, development on one parcel adversely impacts the neighboring downstream parcels. The models indicate the limited outlet results in downstream parcels storing stormwater on the landscape: flooding. The city has developed a CSMP proposal to increase the outlet capacity while maintaining water quality and rate control and submitted application for the new outlet at the end of 2018. There has been continued communication regarding the issue and application as the city worked with landowners on the overall effort.

District Wide Model

The District worked with Houston Engineering to further develop a comprehensive hydrologic model of the district's landscape. The resultant data is essential for planning and anticipating (potential) future stormwater quality, rate, and capacity conditions. The district model is updated annually to incorporate new information regarding culvert elevations and similar input parameters. The District continues to update the model into different modeling software so that it has greater availability to the watershed community for use. The District routinely shares the model under license agreement. In 2018, the District worked with MnDNR in updated modeling for multiple areas in the District. The MnDNR had received grant funds from FEMA in their efforts for coordination with local agencies in updating the flood elevation information available in the metro area. The District continues to make the model available to interested parties as well as the inclusion of new information to expand and increase the accuracy of the model. The District will continue to advance the model and use the results in planning for future stormwater conditions. It is anticipated that the model's use will continue to increase.

2019 WORK PLAN

RCWD will continue to balance its role of protecting wetlands and improving water quality with the needs of land development and agricultural drainage. Staff will continue to work with communities and landowners to identify tools and opportunities while maneuvering within the regulatory landscape. The District will also continue to explore the establishment of a second wetland bank.

Evaluation

Evaluation of the program is through a combination of qualitative and quantitative markers. Qualitative data comes from feedback and community engagement. While more challenging to measure, it is a driving force in the District's approach to find solutions to difficult conservation and land use concerns.

Evaluation of the program through quantitative markers is somewhat easier. Each project or activity has its own markers that include meeting stated project goals and objectives; following strategies; number served; meeting stated contractual or regulatory requirements; and fulfilling the defined outcome.

Additional evaluation of programs and development of evaluation strategies are taking place during the process of updating the RCWD's Watershed Management Plan.

Urban Stormwater Remediation Program

Goal: Protect and enhance water resources by providing financial assistance to help municipalities and other entities incorporate water quality management practices into redevelopment, roadway, and storm sewer improvements.

2018 ACTIVITIES

The District continued implementation of its Urban Stormwater Remediation Cost-Share Program in 2018. Approximately \$390,000 was available to assist cities, counties, school districts, libraries and other public and private entities with implementation of stormwater management projects. Nine projects were funded through this program. Due to overwhelming response and quality applications, the RCWD Board decided to fund an additional two projects through other areas of the RCWD's budget. In total, eleven projects were funded, totaling \$466,000 in assistance to local partners.

- The City of Fridley received \$47,500 towards road reconstruction project that reduced the amount of impervious surface overall and infiltrated 100% of the runoff from the project area, eliminating runoff to Lower Rice Creek.
- The City of Roseville received \$45,000 towards a stormwater reuse irrigation system proposed at Evergreen Park. The project also incorporates a filtration system that will treat runoff bypassing the collection cistern. This project will conserve groundwater resources and reduce runoff volume and pollutant loads to Ramsey County Ditch 4 and Little Lake Johanna.
- The City of New Brighton received \$47,5000 to develop a stormwater reuse irrigation system at Lions Park, conserving groundwater resources and reducing the runoff volume and pollutant loads to Long Lake.
- The City of Columbia Heights received \$33,745 to complete a reconstruction of an old stormwater pond at the Silver Lake Boat Launch and add a large biofiltration feature to provide additional water quality treatment to runoff from Stinson Avenue.
- The City of Shoreview received \$47,500 to develop a stormwater reuse irrigation system at Rice Creek Fields, conserving groundwater resources and reducing the runoff volume and pollutant loads to Middle Rice Creek and Long Lake.
- The City of Lino Lakes received two project grants:
 - o \$39,500 to construct a biofiltration basin that will treat residential stormwater runoff prior to discharging to Centerville Lake, reducing the sediment and nutrient load to the lake.

- o \$47,500 to assist with a sanitary sewer extension project along West Shadow Lake Drive on the west side of Reshanau Lake. This project will, in time, eliminate the last remaining septic systems directly adjacent to a lake within the urbanized area of the RCWD. Indirect phosphorus loads to the lake coming from 62 existing septic systems on this side of the lake will be drastically reduced.
- The City of Mahtomedi received two project grants:
 - o \$47,500 for the expansion of an existing wet pond and creation of a biofiltration basin at Glendale Park, providing additional water quality treatment for runoff to White Bear Lake. This project also provides some local flood relief.
 - o \$47,500 for the addition of sump catch basins and a swirl separator to the storm sewer in the City's Historic District along White Bear Lake.

These projects will both reduce sediment and nutrient loading to White Bear Lake from stormwater runoff.

- White Bear Township received \$35,000 to address improvements to two storm sewer outfalls to Bald Eagle Lake. SAFL Baffles and sump catch basins are to be added and the outlets will be stabilized to prevent future scour and erosion. This project will reduce the sediment and nutrient loads to the lake.
- Minnesota Commercial Railway received \$27,716 to complete stabilization of an embankment at the rail bridge over Rice Creek in New Brighton, just upstream of Long Lake, reducing the sediment load to the lake.

2019 WORK PLAN

The RCWD will make approximately \$300,000 available in cost-share funding in 2019, in addition to \$413,336 being made available through this program from the RCWD's allocation from BWSR's Watershed-Based Funding Pilot Program (WBFPP). Funding from the WBFPP is restricted to the counties from which the funding is generated (Anoka - \$223,786, Ramsey - \$110,790, Washington - \$78,760). These funds will assist cities, counties, school districts, libraries and other public and private entities with implementation of stormwater management projects. This is consistent with the goals and objectives outlined in the Watershed Management Plan and as part of continued efforts to protect and enhance water resources.

Funding will be available for projects that provide stormwater quality treatment and/or runoff volume or peak runoff rate control. *Project funding will not be available for treatment required as part of a RCWD permit and should not be a part of a new development project.* Projects proposed in conjunction with municipal street reconstruction projects or other site redevelopment projects are encouraged. WBFPP funds may also be used for water quality improvement feasibility studies. Additional priority will be given to applications involving stormwater reuse irrigation projects in the 2019 funding cycle.

Evaluation

Evaluation of the program is through a combination of qualitative and quantitative markers. Qualitative data comes from feedback and community engagement. While more challenging to measure, it plays a significant role in the District's approach to finding solutions and identifying priorities for projects and funding when assisting community partners and residents.

Evaluation of the program through quantitative markers is easier. District staff are able to measure the number of applicants, objectives and project targets, and successful completion of grant-supported projects and activities. As with our internal projects targeting water quality or flood control, each selected project or activity has its own markers that include meeting stated project goals and objectives; following strategies; number served; meeting stated contractual or regulatory requirements; and fulfilling the defined outcome. The ultimate evaluation tool is the improvement of the water resource from pre-project status.

Additional evaluation of programs and development of evaluation strategies are taking place during the process of updating the RCWD's Watershed Management Plan.

RCWD's Water Quality Grant Program

Goal: Establish financial partnerships with private or public landowners aimed at implementing targeted small-scale water quality improvement projects.

2018 ACTIVITIES

The majority of land within the RCWD is privately owned. Financial partnerships with private landowners are increasingly essential for the installation of projects that improve water quality in the district. The RCWD dedicates funds each year to its Water Quality Grant Program aimed at implementing smaller-scale water quality improvement projects in accordance with the District's grant policy. Each year, the District reviews the program with the Citizen Advisory Committee and Board of Managers.

For the 2018 season, the District made the following revisions to the Water Quality Grant Program to better serve landowners, while improving water quality:

- 1. Updated program material dates for 2018**
- 2. Added clarifying language to the program's guidelines on minimum buffer widths for vegetative buffers**
- 3. Increased the program's contract amendment amount to \$750**
 - a. Amendments at \$750 or less can be approved by the District Administrator, which eliminates the need to bring small contract amendments to the Board of Managers
- 4. Updated the District's internal database and GIS map to track grant projects**
 - a. This database and mapping update will allow the District to track projects since the creation of the Water Quality Grant Program. This will help the District prioritize project locations, show overall project pollutant load reductions, help evaluate the program, and determine which areas of the District may need more outreach on the program

The Anoka and Washington Conservation Districts and Ramsey County Parks & Recreation Soil and Water Conservation Division continue to assist the RCWD with the Water Quality Grant Program by providing technical assistance for landowners who are interested in installing water quality improvement projects. In total 13 projects were approved for funding through the program. This is less than the 16 projects that were approved in 2017, however one of the 13 projects involved the installation of multiple bmps. In 2018, five curb cut raingardens were installed as part of a partnership with the City of White Bear Lake. The District and the City coordinated on installing curb cut raingardens in conjunction with the City's street reconstruction projects, which are above and beyond the District's permit requirements and thus eligible for the District's Water Quality Grant Program.

In 2018 the District received a high number of shoreline and streambank stabilization grant applications. Out of the 13 projects that were approved for funding, 10 were for shoreline or streambank stabilization, 2 were for raingardens, and one was for a swale restoration. The total approved project implementation funding was approximately \$87,583 in 2018.

The District began a Mini Grant program in 2017 to incentivize plantings for clean water on the landscape level. Mini grants are reimbursement funding of up to \$500 for eligible projects. Initially the District allocated \$5,000 to the program. The goal of the program is to encourage practices at any scale and engage all landowners in the watershed. Due to the program's high demand in 2017, the District increased the available funding in 2018 to \$10,000. In 2018 all \$10,000 was spent on various types of projects including native plantings, small buffers, rain barrels, invasive species removal, and stormwater pond and wetland education efforts. Funding will be maintained at \$10,000 for 2019.

2019 WORK PLAN

Approximately \$175,000 will be available for project implementation in 2019; this includes some carry-over funding from 2018. Water Quality Grant Program funding is available for a variety of activities related to improving water quality, reducing runoff volume, and enhancing ecological resources. Funding is available for installing a raingarden, stabilizing an eroding lakeshore or streambank, restoring a wetland, and implementing agricultural clean water projects. Additional innovative practices may also be considered. This program is operated through technical service agreements with the Anoka and Washington Conservation Districts and Ramsey County Parks & Recreation Soil and Water Conservation Division. The District Technician will continue to be responsible for administering this grant program.

Staff will continue to work with conservation staff and the District's Master Water Stewards to actively target projects with high pollutant reduction benefits and outreach opportunities. Staff will plan on utilizing completed Subwatershed Assessment reports to target potential Master Water Steward and Water Quality Grant program projects.

Outreach to the District's agricultural and rural landowners did not occur in 2018. Staff will begin working with the District's partners to develop targeted outreach approaches and methods for reaching out to landowners in the more rural parts of District in 2019 to expand the quantity and type of projects funded through the program.

The Mini Grant Program will continue in 2019 with an allocation of \$10,000.

Evaluation

As with the Urban Stormwater Remediation Program, evaluation of the program is through a combination of qualitative and quantitative markers. Qualitative data comes from feedback and community engagement. While more challenging to measure, it plays a significant role in the District's approach to finding solutions and identifying priorities for projects and funding when assisting community partners and residents.

Quantitatively, District staff can measure the number of applicants, objectives and project targets, and successful completion of grant-supported projects and activities. As with our internal projects that target water quality or flood control, each selected project or activity has its own markers that include meeting stated project goals and objectives; following strategies; number of constituents served; meeting stated contractual or regulatory requirements; and fulfilling the defined outcome. The ultimate evaluation tool is the improvement of the water resource from pre-project status. The program is evaluated annually with the Citizen Advisory Committee and the Board of Managers.

Additional evaluation of programs and development of evaluation strategies are taking place during the process of updating the RCWD's Watershed Management Plan.





Two curb cut raingardens in White Bear Lake; part of the City's street reconstruction projects



City of Centerville Lake Trailside Park Shoreline Restoration

Groundwater Management

Goal: Incorporate groundwater considerations into the decision-making process with mindfulness of the interconnectedness of water and water-dependent natural resources.

2018 ACTIVITIES

The RCWD continued to work with cities and counties to develop and refine groundwater management plans to ensure groundwater conservation. Vulnerable areas that have been identified in municipal Wellhead Protection Plans (WHPPs) are also considered during the permit review process when examining the feasibility of using infiltration to achieve required stormwater management goals. Conversely, the RCWD works to ensure that infiltration is not strictly banned from use in these areas without information to support the restriction of infiltration practices.

As part of an on-going review process with new and/or updated Local Water Management Plans, the RCWD worked with municipalities to ensure that groundwater protection is a component of each plan. RCWD requires that groundwater protection and stormwater management conflicts be addressed in local water plans, if such conflicts are present. These can include Drinking Water Supply Management Area (DWSMA) vulnerability areas or areas with a high groundwater table.

Bald Eagle Lake Watershed Stormwater Reuse/Phosphorus Reduction Project

2018 marked the third full year of operation for the stormwater reuse irrigation project at the Oneka Ridge Golf Course. While phosphorus load reductions remained below project goals in 2018, RCWD staff are working with the Oneka Ridge Golf Course staff to improve usage patterns and move toward meeting phosphorus goals in 2019.

Other Stormwater Reuse Projects around the RCWD

The RCWD entered into partnerships in 2018 for several other reuse irrigation projects, all focused not only on surface water quality improvement, but also reducing the use of groundwater resources for non-essential irrigation uses. Reuse irrigation projects are either in planning or construction phases in the Cities of New Brighton, Shoreview, Hugo and Roseville.

Groundwater Planning & Management Activities

RCWD staff continued discussions relating to possible stormwater reuse partnership opportunities in 2018. The RCWD also continues to participate as requested in coordination activities related to implementing county and municipal groundwater plans and projects.

2019 WORK PLAN

The RCWD will continue to work with municipalities to ensure that groundwater protection and conservation are components of new/updated local water plans. The District will review the identification of groundwater sensitive and groundwater dependent natural resource areas,

groundwater discharge and recharge areas, and potential land use areas affecting groundwater in local water plans. Additionally, the District will ensure communities include a groundwater protection component consistent with the county groundwater management plan, if applicable. RCWD encourages communities to consider stormwater reuse opportunities when developing their local water plan implementation and capital improvement programs. RCWD will continue its collaborative efforts with other units of government on groundwater protection efforts and projects.

Bald Eagle Lake Watershed Stormwater Re-use/Phosphorus Reduction Project

The RCWD will continue to monitor pumping rates and water quality through 2019 to assess the project's effectiveness and improve operational efficiency. The Oneka Ridge Golf Course is responsible for day-to-day operation and maintenance of the project. RCWD staff will be working with Oneka Ridge Golf Course staff to improve operational patterns and increase phosphorus removal in 2019.

Other Stormwater Reuse Projects around the RCWD

The RCWD looks forward to the completion of several reuse irrigation projects by its partners in 2019 and beyond. Financial involvement by the District in these types of projects is expected to be a continued focus of the Board of Managers in the coming years.

Evaluation

Evaluation of the program is through a combination of qualitative and quantitative markers. Each component has its own markers that include meeting stated project goals and objectives; following strategies; number served or projects implemented; meeting stated contractual requirements; and fulfilling the defined outcome. Through the local water planning process, each plan will be evaluated against criteria that includes groundwater management. Qualitative data comes from survey forms and feedback and engagement in workshops, meetings, and programs. The ultimate evaluation tool is the improvement of the water resource and conservation of groundwater from pre-implementation status.

Additional evaluation of programs and development of evaluation strategies are taking place during the process of updating the RCWD's Watershed Management Plan.

Wetland Management

Goal: Manage wetlands in a manner, which improves diversity and ecological integrity on a District-wide basis, consistent with the Wetland Conservation Act adopted Comprehensive Wetland Protection and Management Plans and local opportunities for preservation, enhancement, and restoration, while balancing multiple resource issues.

2018 ACTIVITIES

Strategies

The RCWD is the Local Government Unit (LGU) and administers the Wetland Conservation Act (WCA) and local wetland regulations known as Comprehensive Wetland Protection and Management Plans (CWPMPs). The District:

- Utilizes the WCA Technical Evaluation Panel (TEP) in the discussion of wetland issues and review of wetland applications;
- Notices the TEP as required but also consults with the TEP on wetland applications in the administration of CWPMPs;
- Monitors reference wetlands to determine hydrologic regimes under a variety of circumstances and uses data to refine wetland investigation and management in other areas; and
- Restores degraded wetlands in areas determined as high public value that is the Wetland Management Corridor (WMC) based on CWPMPs.

The RCWD contains 27,500 acres of wetland. These areas are protected and regulated by the WCA. The RCWD has undertaken significant efforts to conserve the highest quality wetlands and enhance the wetland resource throughout the District. This effort includes administration of WCA, a local wetland rule based on CWPMPs under WCA which incentivizes the protection of high quality wetland areas.

The goal of these plans is to maintain and improve the quality, quantity, and biological diversity of wetland resources within the RCWD through the prioritization of existing wetlands and the strategic selection of replacement sites.

The purpose of developing a plan is

- To provide a watershed and ecosystem-based framework for making wetland impact and replacement decisions that meet state standards and locally identified goals
- To support the sustainability or improvement of wetland resources in the watershed

The CWPMPs are a significant factor in the District's response to anticipated future development by identifying resource corridors in which to promote the restoration, preservation, and addition of wetlands as a cohesive unit. These plans are discussed in-depth in the Land and Water Conservation section found earlier in this report. The work plan and evaluation are also included in Land and Water Conservation Section.

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Drainage Systems & Creek Maintenance

Goal: Manage and operate the public drainage system consistent with state statutes and to manage and use waterways in a manner that recognizes the origin of the system (e.g., constructed vs. natural), the interconnectedness of resources, and present and future conveyance needs.

2018 ACTIVITIES

Strategies

- Inspections and maintenance projects completed in 2018:
 - Sixteen Level One inspections
 - Two Two Inspections
 - One Level Three Inspection
 - Sixteen maintenance projects completed on seven different systems
- The District received a Clean Water Fund grant in 2014 to develop a drainage system database which allows for more detailed technical and financial tracking as well as mobile data entry and retrieval
 - Continue implementing this database and developing a detailed drainage system inspection process ensure more effective and timely maintenance
- Repair reports/memos were completed for:
 - Anoka County Ditch #53-62, Branch #2
 - Anoka-Washington Judicial Ditch #3, Phase #1
- Repair projects started or completed on:
Washington Judicial Ditch #2, Branches #1 and #2



Washington County Judicial Ditch (JD) 2 Maintenance Program

This program was developed in accordance with the Memorandum of Understanding between the RCWD and the City of Hugo allowing the city to assume the responsibility for maintenance of JD 2 with costs to be reimbursed by the RCWD up to \$40,000 annually. An extension of this program was signed at the end of 2016 and runs through 2021. Maintenance work was not completed for 2018 but a larger project is planned for 2019 using roll over funds.

Public Drainage System Inspection, Maintenance, and Repair Program

The purpose of this program is to inspect, maintain, and repair the public drainage systems within the RCWD. The responses to requests for maintenance and the preparation of an annual inspection report are completed through this program. This program includes completing technical analyses and related activities associated with maintenance requests, the completion of repair reports, and repair of the drainage system. RCWD purchased an amphibious machine

(Mobitrac) to more efficiently complete repairs/maintenance in environmentally sensitive areas.

2018 WORK PLAN

Public Drainage System Inspection, Maintenance, and Repair Program

The purpose of this program is to inspect, maintain, and repair the public drainage systems within the RCWD. The responses to requests for maintenance and petitions in addition to the preparation of an annual inspection report are completed through this program.

Repair Reports

The District plans to complete a repair report for selected branches of Anoka Couthy Ditch #53-62, Main Trunk in 2019. Repair projects have also been initiated for Washington Judicial Ditch 2 Branches 1 and 2 as approved by the Board. This work is anticipated to be completed 2019. The historical review of RCD 2,3, & 5 is also anticipated for 2019. Repair reports are part of the RCWD's continuing effort to refurbish the District's aging drainage system to meet the demands of the twenty-first century.

Inspection and Maintenance Program

The District plans to inspect those systems identified in the adopted Public Drainage Inspection plan in 2018. Several maintenance projects are planned based on these inspections with additional projects to be completed on an as requested/needed basis.

Evaluation

Evaluation of the program is through a combination of qualitative and quantitative markers. Qualitative data comes from feedback and community engagement. While more challenging to measure, it plays a significant role in the District's approach to prioritizing projects and funding in the Drainage System and Creek Maintenance program.



The Mobitrac

District staff can evaluate or measure the program quantitatively by the number of miles maintained or improved. As with our internal projects targeting water quality or flood control, each selected project or activity has its own markers that include meeting stated project goals and objectives; following strategies; number served; meeting stated contractual or regulatory requirements; and fulfilling the defined outcome. The ultimate evaluation tool is the improvement of the water resource from pre-project status. Additional evaluation of programs and development of evaluation strategies are taking place during the process of updating the RCWD's Watershed Management Plan.

District Facilities Operations and Maintenance Program

Goal: Construct, maintain, and operate facilities owned or operated by the District in accordance with their resource management purposes and gauge their effectiveness over time.

2018 ACTIVITIES

Strategies

Water resource management facilities such as water level control structures, water quality treatment facilities, and fish barriers are owned and operated by the District. The RCWD also holds easements on, and is responsible for, the operation and maintenance of the Walls/Taylor Wetland Bank as well as other properties owned by the District. The Public Drainage Inspector is responsible for the inspection, maintenance, repair, and operation of these facilities. Minor repairs of berms and spillways within the Walls/Taylor Wetland Bank were completed in 2017.

The District Facilities Maintenance Program, established by the Board of Managers, addresses the need to maintain and repair facilities owned and operated by the District which are not public drainage systems. Many of these facilities were constructed during the late 1980s as a part of the Long Lake Chain of Lakes Clean Lakes Project. Important aspects of this program include conducting an inventory of facilities and providing documentation which will become part of a long-term record, assessing work that has been done and what repairs are needed, and developing operating plans and procedures. In 2017, major maintenance was performed on the Hall's Marsh Outlet to replace failed pipes, and new facilities were constructed at Hansen Park in New Brighton including an iron-enhanced sand filter and sediment basin.

Efforts in this section manage:

- District-owned facilities subject to Municipal Separate Storm Sewer System (MS4) program requirements consistent with permit conditions and facilitate data sharing among public entities within the District, subject to MS4 program requirements
- District-owned facilities in accordance with the original design purposes
 - Purposes are periodically reviewed, and operations modified in consideration of current resource management objectives
- District-owned properties and easements in accordance with prescribed management plans.

2019 WORK PLAN

District Facilities Inspection, Maintenance, and Repair Program

Through this program, staff will continue to inspect, maintain, and repair facilities, easements, and properties owned and operated by the District. A record of the inspection of RCWD facilities is created yearly. The District Engineer is currently undertaking creation of a formal inventory and management plan covering each district facility.

The E2 Wetland Outlet Weir is scheduled for major repair in conjunction with a planned MnDOT project on 35W (originally designated for 2018 but pushed back due to design delays).

Evaluation

As with the Drainage Systems and Creek Maintenance, evaluation of the program is through a combination of qualitative and quantitative markers. Qualitative data comes from feedback and community engagement. It plays a significant role in the District's approach to prioritizing projects and funding in the Drainage System and Creek Maintenance program.

District staff evaluate or measure the program quantitatively by the number facilities that require and are inspected, maintained, and repaired. This information is recorded and reported to the Board of Managers annually. Ultimately the program is evaluated by the working condition of district facilities.



Photo at above: E2 Wetland Weir (09/2018)

Photo Right: Lake Josephine outlet (05/2018)

Additional evaluation of programs and development of evaluation strategies are taking place during the process of updating the RCWD's Watershed Management Plan.



Information Management

Goal: RCWD information systems will enable staff and landowners to access data to enhance conservation efforts.

2018 ACTIVITIES

Strategies

- Maintain effective computer network capabilities
- Develop, maintain, and enhance information management system(s) for recording natural resource data gathered by the RCWD in databases accessible to staff and partners
- Maintain and refine an archival system for RCWD files

Actions:

- Continued effective information management program working with the vendor, Computer Revolution
- Continued to organize, update, prioritize, and close out historic permit files
- Continued to maintain and update the District's permit and inspection databases
- Continued to maintain and update the District's online mapping systems for recording, editing, and managing hydrologic, ditch, and permit/review file information
- Continued to maintain and update the public drainage system inspection plan and database

Website

The goal of the RCWD website is to provide information about district programs, projects, and educational initiatives in a way that is easily accessible to the public. Website features include staff and board contact information, project details and photos, an events calendar, the District's current rules and guidance documents for permittees, and the Ditch Portal which provides comprehensive data and records about our public drainage systems, and much more.

Laserfiche (Digital Document Storage)

Laserfiche is a document management system which serves as the centralized location for the District's official records. All documents relating to permit applications and inspections as well as other regulatory activities are stored in Laserfiche. Storing records in a digital format allows staff and the District's consulting engineer to access the most up-to-date information with relative ease. It also saves the District money because file storage can be costly.

PermitViewer (GIS) and Database

PermitViewer is a web-based interactive map used by RCWD staff to identify project locations associated with new permit applications and review files. Additional information available in PermitViewer includes aerial photography, land use data, hydrography data, soils data, Rule boundaries, LiDAR contours, District-wide hydraulic and hydrologic model information, etc. The goal is to ensure that these databases will encompass long-lasting, accessible data that is and will continue to be an important asset as the District grows. The Database is a subset of PermitViewer that allows district staff to enter relevant permitting information and track the status of permits and review files. From this information, staff is able to generate a variety of reports that include engineer's reports for permits, Wetland Conservation Act Notices, and inspection reports.

In 2018, the District continued the process of updating the permitting database to better serve the needs of the District's non-traditional permits. This included Design Build permits and permit assignments, which are a subset of a traditional permits. This change allowed staff to track and generate reports under these permits.

In addition, the intern for 2018 worked on updating the status of grants to the newly added grant tracking system to ensure that the database was up-to-date. By having this function within the current database staff are better informed on projects completed by the District and how they might interact with future projects or permits. Lastly, the program allows us to track the maintenance of these features for years to come.

2019 WORK PLAN

The RCWD continues to modernize and utilize the permit database as a centralized location for permit tracking information. The permit and inspection databases streamline the communication process with permit holders and contractors.

Staff will continue to manage the data storage, processing, and distribution of information to create efficiencies and promote data-sharing between cities, developers, and citizens within the District. Staff will begin working with Laserfiche consultants to streamline and increase the ease of filing. The public drainage system inspection database will continue to house the district facilities inspections.

In addition, staff is continuing the process of determining how it can make information within the District's "PermitViewer" available to the public. This would include providing information on the District floodplain, the location of public and private ditch systems, wetland locations, and other items. The District recognizes that this tool could be very useful to our partners, constituents, and permit applicants.

Evaluation

The program will be evaluated through the implementation of the following:

- Increase the volume and accuracy of the information contained in the permit and inspection databases to allow for more efficient regulatory program delivery
- Increase the use of the drainage system and district facilities inspection database to effectively prioritize and target ditch maintenance activities
- Increase distribution and use of the District-wide hydraulic and hydrologic model information to City and County partners for use in local water planning process
- Refining permit-related materials to be filed and stored in Laserfiche

Additional evaluation of programs and development of evaluation strategies are taking place during the process of updating the RCWD's Watershed Management Plan.

Local Water Plan Adoption

Goal: Assist communities in writing local water plans and comprehensive plans to be consistent with State statutes and District requirements in a manner that effectively integrates land use and water resources management.

2018 Activities

Communities within RCWD began updating their local water management plans in 2017-2018 to meet the Comprehensive Plan deadline of December 31, 2018. RCWD revised its staggered local water plan submittal deadlines for communities in 2017 based on communities' input. RCWD created staggered submittal deadlines to aid in the District's timely review of local water plans from 28 communities.

Local Water Plan Deadlines for Communities within RCWD

<u>March 31, 2017</u>	<u>August 31, 2017</u>	<u>January 31, 2018</u>	<u>July 31, 2018</u>
Birchwood Village	White Bear Lake	Forest Lake	Shoreview
Mahtomedi	Roseville	Lauderdale	White Bear Township
Willernie	New Brighton	Lexington	Columbus
	Falcon Heights	Fridley	Blaine
	Columbia Heights	Arden Hills	Spring Lake Park
	St. Anthony	Scandia	Centerville
	Hugo	Circle Pines	Mounds View
	Dellwood	Lino Lakes	May Township
		Grant	

RCWD completed several activities in 2018 to provide communities assistance with their local water planning efforts. RCWD scheduled individual meetings with communities prior to their submittal deadline to discuss required and recommended elements for their local water plans. RCWD had meetings with 8 communities in 2018 and one watershed district to discuss local water plans. The District coordinated its local water plan reviews with some of the adjacent watershed districts on the statutory requirements to ensure watershed districts' interpretations of some of the requirements were consistent on specific plans. The District also held two community partner meetings in February and August of 2018 which included a reminder to cities and community partners about local water planning requirements, submittal deadlines, and RCWD resources available to communities. The meetings also emphasized the importance of communities' CIP tables for grant funding and the District's 2020 Watershed Management Plan update.

Progress of RCWD's 2018 Goal

1. Receive and approve local water plans from all 28 cities

RCWD did not meet this goal given that the agreed upon local water planning submittal deadlines were not adhered to by some communities. Some of the cities also received Comprehensive Plan deadline extensions from the Metropolitan Council and delayed the submittal of their plans. In 2018 RCWD received 22 draft 2040 Comprehensive Plan drafts from cities and counties, over 40 local water plan drafts from communities for formal review, some of which were second or third drafts from the same community, and four local water plan drafts for preliminary review. In total, RCWD received local water plan drafts from 20 out of 28 communities. RCWD achieved this progress through regular meetings and communication with cities, timely reviews of draft plans, and by sending 17 upcoming and/or missed deadline reminder letters to communities.

In 2018, the District approved 13 community's local water plans, out of 28 communities. The remaining communities' plan reviews and approval will continue in 2019.

2019 Work Plan

The RCWD will continue to regularly assist cities with local water planning until the 2040 Comprehensive Planning cycle is completed. The District will meet with communities as needed to discuss plan requirements and to assist with local water planning efforts. RCWD will continue to encourage communities to submit preliminary plan sections to assist with the District's timely review of plans. After the District receives local water plan comment letters from the Metropolitan Council, the District will continue working to complete its reviews prior to its 60-day deadlines. This allows communities more time for plan revisions. As needed, the District will also meet with communities throughout the year or communicate by phone to discuss RCWD's formal comments on local water plans, which will allow for more efficient plan revisions and will reduce the number of comment letters and plan revision drafts.

Evaluation

RCWD's 2019 goal is the same as its goal from 2018, which is to receive and approve local water plans from all 28 cities. This goal is completely dependent on communities' plan progress. To meet this goal, the District will complete the following steps:

1. Call or email communities to check on the status of their local water plans and if communities need assistance or resources from RCWD
2. Finish reviewing local water plans and submit plan comments to communities and Met. Council prior to RCWD's final 60-day review deadlines
3. Check in with communities if need assistance with plan revisions or need clarification on RCWD plan comments
4. Complete a review of second or subsequent local water plan drafts as soon as communities submit the drafts to RCWD to speed up the review process and increase the likelihood of meeting RCWD's Board meeting schedule if drafts are ready for approval

5. Schedule a meeting or phone call with communities if local water plan revisions to address RCWD comments still do not meet statutory/RCWD-specific requirements
6. Recommend local water plans for RCWD Board approval when plans meet statutory and RCWD-specific requirements

The District will measure success through the completion of these 2019 workplan tasks. RCWD will evaluate plans against statutory and RCWD plan criteria. The most critical measurable outcome will be the number of communities with RCWD Board-approved local water plans. The District will also measure success through feedback from communities on the local water planning process and what communities wish or need from RCWD for future plan updates.

Additional evaluation of programs and development of evaluation strategies are taking place during the process of updating the RCWD's Watershed Management Plan.

ITEMS REQUIRING BOARD ACTION

5. Consider Curlyleaf Pondweed Cost-Share on Bald Eagle, Silver, Reshanau, and Centerville Lakes. (Matt Kocian)

MEMORANDUM

Rice Creek Watershed District

To: RCWD Board of Managers **Date:** April 11, 2019
From: Matt Kocian, Lake and Stream Spec.
Subject: Curlyleaf pondweed cost-share on Bald Eagle, Silver, Reshanau, and Centerville Lakes

Background / Discussion

Curlyleaf pondweed (*Potamogeton crispus*) is a non-native, invasive aquatic plant found in many Twin Cities Metro Area lakes. Curlyleaf has a very unusual life cycle; unlike native aquatic plants, which grow early-summer through late-fall, curlyleaf *begins* growing late in autumn. It survives under the ice during the winter and grows rapidly after ice-out, often creating dense mats of vegetation. Around mid-summer the plant dies and decomposes, releasing phosphorus into the water column. The phosphorus contributes to algae growth, thereby negatively impacting overall water quality. Additionally, the void in aquatic plants created by the mid-summer decline in curlyleaf further exacerbates algae blooms by exposing nutrient-rich lake sediments to resuspension, and by reducing habitat for algae-eating zooplankton. For this reason, the RCWD has actively managed curlyleaf using aquatic herbicides. Permanent control (i.e. complete removal or extirpation) is not possible. However, annual herbicide treatments are effective at reducing the impacts of curlyleaf pondweed.



The purpose of managing curlyleaf pondweed is 1) to improve water clarity, via the mechanisms described above, and 2) to promote the growth of healthy, native lake plants. Although the herbicide used to control curlyleaf is not selective, it is applied during the early-spring when only curlyleaf is growing. Therefore, only curlyleaf is affected; native plants are not harmed.

Managing curlyleaf pondweed is consistent with RCWD's Aquatic Invasive Species Policy, as well as RCWD's goals for protecting and improving water quality. The RCWD has partnered with lake associations for over 15 years to reduce abundance of curlyleaf pondweed using aquatic herbicides. Lakes that have been managed for curlyleaf pondweed for many years (i.e. Bald Eagle and Reshanau) show a clear decline in curlyleaf density, resulting in declining treatment sizes and decreasing costs.

The table below provides costs for curlyleaf pondweed management. On Bald Eagle Lake, 50% of the cost is shared by lake residents via that Bald Eagle Lake Water Management District. On Reshanau, Silver, and Centerville Lakes, 50% of the cost is shared by lake residents via reimbursement agreements.

MEMORANDUM

Rice Creek Watershed District

BALD EAGLE LAKE									
Funding Source	2005-2009*	2010-2012*	2013	2014	2015	2016	2017	2018	~2019
RCWD	\$18,500	\$6,813	\$10,299	\$12,204	\$1,991	\$2,620	\$7,088	\$5,568	\$6,000
Bald Eagle Water Management Dist.	\$18,500	\$6,813	\$10,299	\$12,204	\$1,991	\$2,620	\$7,088	\$5,568	\$6,000
DNR Grant	n/a	\$27,017	\$6,250	\$6,250	\$9,200	\$4,999	\$0	\$0	\$0
Total Cost	\$37,000	\$40,643	\$26,848	\$30,658	\$13,182	\$10,238	\$14,176	\$11,136	\$12,000
Acres Treated	92	150	62	92	92	14	29	20	50
RESHANAU LAKE									
Funding Source	2005-2009*	2010	2011	2012	2013-2015*	2016	2017	2018	~2019
RCWD	\$17,500	no	\$9,000	\$2,700	\$4,003	\$743	\$1,469	no	\$6,000
Reshanau Lake Cooperators	\$17,500	treatment	\$9,000	\$2,700	\$3,197	\$743	\$1,469	treatment	\$6,000
DNR Grant	\$0		\$0	\$7,200	\$4,800	\$4,300	\$0	\$0	\$0
Total Cost	\$35,000	\$0	\$18,000	\$12,600	\$11,999	\$5,785	\$2,938	\$0	\$12,000
Acres Treated	282	0	48	48	48	10	9	0	48
SILVER LAKE									
Funding Source	2017	2018	~2019				*	Average	
RCWD	2,733	no	\$2,250				~	Estimated / Proposed	
Silver Lake Cooperators	2,733	treatment	\$2,250						
Total Cost	\$5,465	\$0	\$4,500						
Acres Treated	9	0	9						
CENTERVILLE LAKE									
Funding Source	~2019								
RCWD	\$5,000								
Silver Lake Cooperators	\$5,000								
Total Cost	\$10,000								
Acres Treated	35								

Costs for Curlyleaf Pondweed Treatments on Bald Eagle, Reshanau, Silver, and Centerville Lakes.

MEMORANDUM

Rice Creek Watershed District

Notes on cost:

- Quotes for curlyleaf pondweed treatment services are solicited from at least two vendors each year.
- The RCWD will pay total costs upfront and be reimbursed by lake cooperators on Reshanau, Centerville, and Silver Lakes.
- The RCWD cost for all treatments (after cooperator reimbursement) will not exceed \$19,250. This cost is budgeted and covered through RCWD's Water Quality Grant Program.
- The estimated 2019 costs shown above represent the worst-case scenario (i.e. maximum treatment acres).
- The actual 2019 costs will depend on early-season curlyleaf pondweed surveys.
- Consistent with the RCWD Aquatic Invasive Species Policy, only large (> 1 acre), dense, and monotypic areas of curlyleaf pondweed are managed.
- As in 2018, if curlyleaf pondweed is not found in sufficiently large and dense patches, treatment will not occur.

An example cost-share agreement between the District and a lake group is enclosed.

Recommendation

Staff recommend that the Board approve RCWD involvement in 2019 curlyleaf pondweed treatments on Bald Eagle, Reshanau, Silver, and Centerville Lakes.

1. Approve entering into agreements with lake cooperators for cost sharing on curlyleaf pondweed treatments

Proposed Motion: Manager _____ moves to authorize the Administrator to enter into agreements with Reshanau, Centerville, and Silver Lake Cooperators to cost-share on curlyleaf pondweed treatments.

2. Approve entering into professional services contract for chemical treatment of Reshanau, Bald Eagle, Centerville, and Silver Lakes.

Proposed Motion: Manager _____ moves to authorize the Administrator to enter into professional services agreements with Lake Management, Inc. for chemical treatment of curlyleaf pondweed on Reshanau, Bald Eagle, Centerville, and Silver Lakes, with the total contract cost not to exceed \$38,500.

ITEMS REQUIRING BOARD ACTION

6. Consider Amendment to City of Blaine Water Tower Agreement. (Nick Tomczik)

MEMORANDUM
Rice Creek Watershed District

To: Board of Managers **Date:** April 16, 2019
From: Nick Tomczik
Subject: Blaine Water Tower Site Compliance Agreement Adjustment

Background/Discussion:

In June of 2018 Blaine entered into an agreement with the District to resolve regulatory administration and compliance issues for the Blaine water tower site at 12260 Lexington. Blaine staff recently approached the District seeking to amend the agreement's compliance date of November 27, 2020 to September 30, 2021.

The executed agreement's compliance date clause is written as follows: "Blaine will achieve compliance for existing Property improvements as a part of its permit for a water treatment facility on the Property or by November 27, 2020, whichever earlier. If it must address compliance for existing improvements independently of its water treatment facility in order to meet this deadline, it will do so." So, the agreement is written to potentially resolve regulatory administration and compliance issues independent of the proposed water treatment plant.

The Board was apprised of Blaine's request at the April 8th Board workshop. The new date proposed by Blaine is based on a constructability report from their design engineer indicating the current date increased project costs. The board's general consensus was to hear the date revision request at the April 24th board meeting.

Recommendation

Staff recommends that the Board authorize the District Administrator to sign the first amendment to the agreement.

Proposed Motion: Manager _____ moves to authorize the District Administrator to sign the compliance agreement, with any further non-substantive changes and on advice of counsel.

Attachments:

First Amendment to Agreement

FIRST AMENDMENT to AGREEMENT

City of Blaine and Rice Creek Watershed District

1. On June 8, 2018, the City of Blaine and the Rice Creek Watershed District entered into an agreement to resolve regulatory administration and compliance issues with respect to a parcel of land owned by Blaine, about 10 acres in size, with address 12260 Lexington Avenue NE, Blaine ("Agreement").
2. Paragraph 2 of the Agreement requires that Blaine achieve compliance for existing improvements on the property "as part of its permit for a water treatment facility on the Property or by November 27, 2020, whichever earlier." Although the Agreement requires that Blaine address compliance in advance of water treatment facility construction if necessary to meet this deadline, the deadline was based on the benefit to Blaine of performing compliance activities in conjunction with construction.
3. Blaine's design engineer has indicated circumstances that require a longer construction schedule than anticipated. The District is willing to extend the compliance deadline so that, in this instance, Blaine may continue to align its compliance activity with construction.
4. Therefore, the date of November 27, 2020, in paragraph 2 of the Agreement is amended to September 30, 2021.
5. All other terms of paragraph 2, and of the Agreement, remain in full force and effect.

CITY of BLAINE

Clark Arneson, City Manager

Date:

RICE CREEK WATERSHED DISTRICT

Phil Belfiori, District Administrator

Date:

ITEMS REQUIRING BOARD ACTION

7. Consider Tierney quote for installation of equipment in conference room related to remote meeting participation and authorizing development of policy for remote meeting participation. (Catherine Nester)

MEMORANDUM
Rice Creek Watershed District

To: Board of Managers **Date:** April 24, 2019
From: Catherine Nester, District Technician/Inspector
Subject: Consideration of Tierney Brothers Quote for Remote Meeting Participation

Background/Discussion

At the April 8, 2019 Board workshop, the Board agreed to move forward with Quote #145466; A – Large Conference Room in the amount of \$7,163.57 (“Quote A”) and Quote #145520; C – Remote Locations in the amount of \$295.97 (“Quote C”) from Tierney Brothers Quote #21379 dated April 3, 2019.

Recommendation

Based on Board Consensus at two recent workshop meetings, staff recommend that the Board authorize 1) the acceptance of Tierney Brothers Quotes A & C as attached and 2) staff to work with legal counsel to develop a policy for remote participation for Board consideration at a later meeting.

Proposed motion: Manager _____ moves to approve Tierney Brothers Quotes A & C dated April 3, 2019 and 2) authorize staff to work with legal counsel to develop a policy for remote participation for Board consideration at a later meeting.

Attached:
Tierney Quote dated April 3, 2019.

Wednesday, April 03, 2019

Rice Creek Watershed District

Proposal for Audio-Visual Service

RE: Large Conference Room

Opportunity Number: 21379

Scope of Integration Services

Summary of Work to be completed by Tierney Brothers, Inc. at **4325 Pheasant Ridge Drive N.E. Suite #611, Blaine, MN 55449.**

(Please initial if address is correct or provide correct address. _____)

Tierney has provide three different quotes for the addition of web conferencing to meet the needs of the Rice Creek Watershed District to allow for remote participation during meetings.

The quotes have been tailored to provide the ability for the remote participants to see and hear all of the people that may be speaking in the designated room and for the people in the room to see and hear the remote participants.

The quotes have been designed to make the system as easy to use as possible to minimize set-up time and to work on the owner's software based video conferencing platform. The solutions have also been designed to work with multiple software based platforms (such as Skype for Business, WebEx, Zoom, Go to Meeting, etc.) so the owner does not need to change out equipment should the District change the preferred platform in the future.

Quote Number: 145466; A – Large Conference Room

For the purpose of this quote, the existing wall mounted 65" Visio display will remain in the room. A new HD Pan tilt Zoom (PTZ) camera will be installed on a new wall mount either above or below the display (depending on the best field of view). The new camera has a very wide viewing cone (90 degrees) to allow the remote participant to see even the people seated in the chairs along the wall when the camera is zoomed to its shortest throw.

A new wall plate will be installed next to the existing HDMI wall plate. The new wall plate will have an RJ45 connection (for the included USB2.0 over CAT cable extender) and a mini 3-pin XLR (for the DC power to the camera), and a grommet hole. This will

allow the camera to be connected to the owner's PC that is in the room on the cart near the corner of the wall.

For the audio portion of the quote, two new microphones will be installed below the drop tile ceiling. These microphones each have multiple elements which will provide the pick-up needed for all of the people seated in the room. Two new ceiling speakers will be installed to provide for uniform listening and the ability to hear the remote participants.

The cabling from the speakers and microphones will run through the grommet in the new wall plate and connected to a new processor located next to the owner's PC. The output from the processor will be connected to the owner's PC via USB.

The owner's PC will be configured to select the new camera and microphones for use during the owner configured video conference call.

The control of the microphone level and audio level in the room during these calls will be done through the owner's PC and software application.

The control of the PTZ functions of the camera will be done using the included hand held remote.

Quote Number: 145513; B – Council Chambers

For this quote, Tierney shall provide and install a new device in the Control Room (or at the Dais dependent on where the owner's dedicated PC will be located) that will convert the video signal from the owner's existing cameras and the audio from the existing audio system to USB so the owner can use their computer for an owner configured software based video call (such as Skype for Business, WebEx, Zoom, Go to Meeting, etc).

The new device shall accommodate both analog video signals and digital video (should the owner upgrade the camera system in the future).

Tierney will configure the system so the far side person can view the camera feed as designated by the owner. This camera feed may be the same as what is being sent to the cable company or the owner can designate one of the cameras in the room to be used for the remote viewing (in addition to its current functionality). Tierney shall also configure the audio feed so the remote viewer can hear what is being said in the room.

The owner will need to provide a dedicated PC (if one is not already in the room) which must be available as a source to the system so the people in the room can see the remote participant.

The control of the camera view will be done using the existing controls that are in the Control Room. The Control Room will also configure the microphone level that will be going to the new device which in turns sends the audio and video to the owner's PC via USB.

Quote Number: 145520; C – Remote Locations

This quote is for Tierney to provide a single HD Webcam and personal Speakerphone for the remote person to use during an owner configured conference such as Skype for Business, WebEx, Zoom, Go to Meeting, etc.

The webcam has been chosen as it has an enhanced processor to work great in low light or bright sunshine (which may an issue for the person at the Florida location).

The remote person simply places the webcam on top of their laptop or PC display and places the speaker phone on top of their desk surface. Both devices are connected into the owner's computer/laptop via USB. After the computer/laptop recognizes the devices, the owner then can use them for the conference call.

We appreciate the opportunity to present this proposal. If you have any questions, please do not hesitate to contact us at your convenience at 612-331-5500. Our fax number is 612-331-3424.

Proposal Prepared By:
Sales Representative - Heidi Harvey
Systems Engineer - Gary Mansfeldt

Please initial to acknowledge and authorize the Scope of Integration Services presented here. _____



Quote

#145466

1771 Energy Park Drive, Suite 100, St. Paul, MN 55108
 (612) 331-5500 | (800) 933-7337 | Fax (612) 331-3424
 www.tierneybrothers.com

4/3/2019

Bill To
 Rice Creek Watershed District
 4325 Pheasant Ridge Drive N.E.
 Suite #611
 Blaine MN 55449

Ship To
 Phil Belfiori
 Rice Creek Watershed District
 4325 Pheasant Ridge Drive N.E.
 Suite #611
 Blaine MN 55449

Memo:
 A - Large Conference Room

Expires	Sales Rep	Contract	Terms
7/2/2019	209 Heidi Harvey	MNS-CPV 152129	Net 30

Qty	Item	MFG	Price	Ext. Price	Cost	Ext Cost	Markup %	Category
	A - Large Conference Room							
	-----Video Equipment-----							
	Owner Furnished Product - Existing 65" Vizio Flat Panel Display Already mounted to the wall							
1	960-001184 Logitech PTZ Pro 2 PTZ Pro 2 - Video Camera - 30 Frames per second	Logitech	\$682.95	\$682.95	\$604.38	\$604.38	13%	Video Conferencing
1	535-2000-232 Thin Profile Wall Mount Camera Bracket	Vaddio	\$116.06	\$116.06	\$102.70	\$102.70	13%	Audio-Visual Furniture
1	1C280A-R2 USB 2.0 CAT5 Extender R2	Black Box	\$348.34	\$348.34	\$308.26	\$308.26	13%	Broadcast Video and Production
	-----Audio Equipment-----							
1	999-8640-000 EasyTALK USB Audio Bundle - System C, Includes: One EasyUSB Mixer/Amp, Two white EasyMic Ceiling MicPODs with integrated Echo Canceling, Two white Bose DS-16 Ceiling Speakers with Tile Support Braces and Plenum Back Cans.	Vaddio	\$2,008.52	\$2,008.52	\$1,777.45	\$1,777.45	13%	Audio Products
	-----Other Equipment and Services-----							
1	PCG1940EPCL Panelcrafters precision manufactured bulk wire plate with 1 inch grommet hole w/Logo	Liberty	\$11.12	\$11.12	\$9.84	\$9.84	13%	Video Products





Quote

#145466

1771 Energy Park Drive, Suite 100, St. Paul, MN 55108
 (612) 331-5500 | (800) 933-7337 | Fax (612) 331-3424
 www.tierneybrothers.com

4/3/2019

Qty	Item	MFG	Price	Ext. Price	Cost	Ext Cost	Markup %	Category
1	Integration Item TIERNE-WQ559104, 1-Gang Wall Plate with RJ45, 3-pin mini XLR, Grommet - White	Liberty	\$55.45	\$55.45	\$49.07	\$49.07	13%	Video Products
150	24-4P-PL6-EN-BLK Plenum CAT6 1000ft reel	Liberty	\$0.31	\$46.50	\$0.269	\$40.35	15%	Cabling
150	18-2C-P-WHT White Commercial grade general purpose 18 AWG 2 conductor plenum cable	Liberty	\$0.13	\$19.50	\$0.115	\$17.25	13%	Cabling
1	CAT6-10PROBLK Pro AV/IT CAT6 Heavy Duty Snagless Patch Cable - Black 10ft	Comprehensive	\$15.06	\$15.06	\$13.32	\$13.32	13%	Cabling
1	Minnesota State Contract - Associated Hardware		\$500.00	\$500.00				
3	Minnesota State Contract - Design / Engineering Professional/Technical Design Service; Engineering and Design Design Fee Credit - pricing includes a \$1,500 design credit		\$120.00	\$360.00				
6	Minnesota State Contract - Project Management		\$90.00	\$540.00				
2	Minnesota State Contract - In-House Installation		\$90.00	\$180.00				
11	Minnesota State Contract - On-Site Installation		\$90.00	\$990.00				
4	Minnesota State Contract - Programming and Configuration Professional/Technical Design Service; Programming and Configuration		\$120.00	\$480.00				
1	Minnesota State Contract - Maintenance / Service (90 Day) Tierney Brothers 90 Day Standard Warranty		\$55.00	\$55.00				
1	Minnesota State Contract - Maintenance / Service (1 Year) Maintenance / Service; Premium Warranty Plan - Coverage for one year with preventative maintenance.		\$660.00	\$660.00				



145466

2 of 3



Quote

#145466

1771 Energy Park Drive, Suite 100, St. Paul, MN 55108
(612) 331-5500 | (800) 933-7337 | Fax (612) 331-3424
www.tierneybrothers.com

4/3/2019

Qty	Item	MFG	Price	Ext. Price	Cost	Ext Cost	Markup %	Category
	If tax has not been included on this proposal, pricing does not include Minnesota General Sales Tax under Minnesota Statutes Chapter 297A Section 70 "Exemptions for Governments and Nonprofit Groups." Please inform us if this project will be used for taxable purposes. If tax has been included on this proposal, we do not have a tax exempt form on file for your account. Please provide a completed Form ST3, Certificate of Exemption if applicable.							

Subtotal \$7,068.50

Tax (0%) \$0.00

Shipping Cost \$95.07

Total \$7,163.57

To accept this quotation, sign here : _____

Please reference this quote number on your purchase order.

Please inspect product upon delivery. State of Minnesota Contract Return Policy will apply.

Standard Times for Delivery from Receipt of PO*:

- Stocked Product Equipment Only Sales - Three to Five Business Days
- Non-Stocked Product Equipment Only Sales - Ten to 14 Business Days
- Integration Projects - Two to Eight Weeks

*All days include time in transit and assume product is not on back order with the manufacturer.



145466



Quote

#145520

4/3/2019

1771 Energy Park Drive, Suite 100, St. Paul, MN 55108
(612) 331-5500 | (800) 933-7337 | Fax (612) 331-3424
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Memo:
C - Remote Locations

Expires	Sales Rep	Contract	Terms
7/2/2019	209 Heidi Harvey		Net 30

Qty	Item	MFG	Price	Ext. Price	Cost	Ext Cost	Markup %	Category
	C - Remote Locations							
	-----Video Equipment-----							
1	960-001105 Logitech BRIO Webcam - 90 fps - USB 3.0 4096 x 2160 Video - Auto-focus - 5x Digital Zoom - Microphone - Notebook	Logitech	\$171.64	\$171.64	\$151.89	\$151.89	13%	Video Conferencing
	-----Audio Equipment-----							
1	Integration Item 910159001 CHAT 50 Personal USB speakerphone; Includes CHAT 50 USB 20, Cable Quick-Start Guide	ClearOne	\$105.93	\$105.93	\$93.74	\$93.74	13%	Video Conferencing
If tax has not been included on this proposal, pricing does not include Minnesota General Sales Tax under Minnesota Statutes Chapter 297A Section 70 "Exemptions for Governments and Nonprofit Groups." Please inform us if this project will be used for taxable purposes.								
If tax has been included on this proposal, we do not have a tax exempt form on file for your account. Please provide a completed Form ST3, Certificate of Exemption if applicable.								

Subtotal	\$277.57
Tax (0%)	\$0.00
Shipping Cost	\$18.40
Total	\$295.97





1771 Energy Park Drive, Suite 100, St. Paul, MN 55108
(612) 331-5500 | (800) 933-7337 | Fax (612) 331-3424
www.tierneybrothers.com

Quote

#145520

4/3/2019

To accept this quotation, sign here : _____

Please reference this quote number on your purchase order.

Please inspect product upon delivery. State of Minnesota Contract Return Policy will apply.

Standard Times for Delivery from Receipt of PO*:

- Stocked Product Equipment Only Sales - Three to Five Business Days
- Non-Stocked Product Equipment Only Sales - Ten to 14 Business Days
- Integration Projects - Two to Eight Weeks

*All days include time in transit and assume product is not on back order with the manufacturer.



145520



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800.933.7337 | info@tierneybras.com

Responsibilities and Conditions

Client Responsibilities

Contract a licensed electrician to provide high voltage power connections. The system design will determine if optimum placement of outlets is best achieved before or after the installation of the AV equipment. The assigned Project Manager will communicate the specific to you during the project planning. Tierney Brothers recommends that each projector, TV, plasma, LCD, etc. have a dedicated quad electrical outlet.

Provide Tierney Brothers with any existing system design specifications, diagrams, room drawings or other materials that would facilitate completion of the proposed Scope of Integration Services.

All necessary ceiling tile work involved in the installation, unless an alternative has been indicated in the Scope of Integration Services in this proposal.

Prepare, replace, repair or modify any structural or cosmetic changes that Tierney Brothers has made or needs to make. This includes, but is not limited to, ceiling grids, floor tiles, walls and pre-existing equipment. This does not include repair for accidental damage caused by Tierney Brothers.

Confirm area is ready for installation when scheduled. This includes but is not limited to the room being vacated, physical conditions confirmed and owner furnished equipment (OFE) available. If the area is not prepared for installation when scheduled or the client has not notified Tierney Brothers five business days in advance of any schedule change or installation cancellation, there will be a \$350.00 charge. Rescheduling of the installation will be set for a later date as determined by Tierney Brothers.

TBI will not be responsible for the condition and functionality of any existing OFE during the installation process. This includes de-install and reinstall of OFE. Should existing equipment fail or not work properly with our system design, the customer will have the option of sourcing a TBI approved replacement part or TBI will offer a billable replacement alternative. If OFE malfunction causes delays in the installation timeframe, additional billable labor charges may apply.

Clients purchasing SMART product are responsible for loading all SMART software on the applicable computers and connection of these computers to the SMARTboard prior to any scheduled training sessions.

Complete Customer Configuration Worksheets as requested by Tierney Brothers within five business days. This information is required to properly integrate the new equipment with your existing IT infrastructure.

TBI requires access to customer's computer and network at the time of installation to be able to complete installation and testing of the designed system. Return visits to test equipment and functionality may result in additional charges.

TBI's initial estimates assume all work may be completed using standard ladders. If a lift is required, additional charges will be incurred and presented as part of a change request.

For U of M Installations only: University of Minnesota customers are responsible for contacting their Facilities Management Department to coordinate conduit installation for all A/V wire and cable installations.

Please initial to acknowledge and authorize the Responsibilities and Conditions presented here. _____

Tierney Brothers Responsibilities (Upon Authorization)

Proceed with ordering the specified equipment and preparing a schedule for completion of the proposed services.

Conduct pre-installation site visit (if necessary) involving the main site contact, site facilities representatives and a Tierney Brothers' project manager or a qualified alternate.

Review scope, terms and conditions of the installation with the client at the pre-installation site visit. This will include, but is not limited to electrical, construction and cosmetic responsibilities.

Basic system training, separate from Professional Development, is included in this proposal. This training will be scheduled and completed by a Tierney Brothers' representative at the end of the project installation.

If Professional Development is part of this proposal, sessions must be scheduled within six months of install completion.

Clients purchasing SMARTboards: After the installation of the SMARTboard is complete, the SMARTboard USB connection will be tested using the Tierney Brothers installer's laptop. After system functionality is confirmed, the USB connection will be hooked into the client's computer if it is present in the space.

For safety reasons, Tierney Brothers will not modify/cut the trays on existing white boards or chalk boards. A solution for mounting over the existing board will be proposed. Any modifications to the existing board would need to be made by the customer prior to the arrival for Tierney Brothers' installation personnel.

Scheduling

Installations are typically scheduled six to eight weeks from receipt of the customer's purchase order. Custom ordered product may increase the time needed to complete the proposed services.

Standard service and support is limited to Monday through Friday, 8:00 AM to 5:00 PM central standard time, excluding national holidays. Expanded service hours may be available for an additional charge if determined necessary.

This schedule assumes no delays or obstacles will be encountered in gaining access for the installation.

Site Conditions

Tierney Brothers cannot enter into work in or otherwise disturb any areas containing asbestos.

Tierney Brothers recommends that each Projector, TV, Plasma, LCD, etc. have a duplex receptacle fed off of a dedicated 20 amp circuit available for use. Systems containing multiple racks of amplifiers or other equipment may require additional circuits.



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Proposal Terms

Accounting Terms

For installations scheduled to take 30 days or less from the first day on site to the last, Tierney Brothers will invoice the total project in full upon substantial completion. Tierney Brothers reserves the right to bill progressively for installations which are scheduled to take more than 30 days on site. The balance is due Net 30 days from the installation completion date, with 2% interest added to unpaid balance.

Sales Taxes

All applicable sales tax amounts will be charged on the sale of goods or services according to each governing law and remitted to the proper taxing authority. If your organization is tax exempt, please complete an exemption certificate and return to Tierney Brothers.

Proposal Changes

If additional products or services are requested prior to receipt of your signed purchase order or quote proposal, Tierney Brothers will provide an updated quote proposal, including a revised scope. If additional products or services are requested after receipt of your signed purchase order or quote proposal, Tierney Brothers will provide a change request quote with the requested equipment and scope to detail the requested changes for your approval.

Upon receipt of your signed purchase order or quote proposal, Tierney Brothers will proceed with the authorized services and invoice in accordance with the purchase order or quote proposal. Verbal agreements will not be processed until confirmation, in writing, has been received.

There may be a 20% to 30% restocking fee plus freight charges for those items ordered which have to be returned to the manufacturer due to customer request or by change of order. Custom order products and certain product lines not typically carried by Tierney Brothers may not be returned.

NOTICE CONFIDENTIAL INFORMATION - The information in this proposal is proprietary and strictly confidential. It is intended solely for the use of the named parties. If the reader of this proposal is not the intended recipient or the employee or agent responsible to deliver it to the intended recipient, any dissemination, distribution, copying or other use of the information contained in this document is strictly prohibited. If this has been received in error, please notify the responsible party immediately and then delete this proposal from all data storage devices and destroy all hard copies.

Video recording of a Tierney Brothers SMART Certified Trainer or Professional Development session, and copying or distribution of any printed material supplied by Tierney Brothers Inc., is protected content under copyright licensing and can be used only with express permission from Tierney Brothers, Inc. Any video or digital content created during a training session can be used only within the organization paying for such services and cannot be shared online or distributed in any manner.

This quotation is valid for a period of 90 days.

Please initial to acknowledge and authorize the Proposal Terms presented here. _____

Other Terms

Installation Warranty

See specific warranty coverage program outlined in this proposal.

Repair or replacement service for TBI installed consumer grade monitors/displays are subject to manufacturer warranty and service. TBI does offer de-install/re-install assistance for vendor warranty repair or replacement at an additional charge.

Programming Warranty

The programming warranty is 90 days, starting at the commission of the system. Changes or fixes to the system after this time will be billable at our standard service call rates."

Labor Classifications and Assumptions

Unless mutually agreed upon in writing prior to executing this agreement, it is the understanding of both parties that Union and/or Prevailing Wage regulations, specifically those contained in 40 U.S.C. 276a-5, or MN Stat § 177.41-177.44, do not apply to the work to be performed under this contract.

Unless travel charges are specified, this proposal assumes Tierney Brothers, Inc. has local certified, licensed and insured technicians available to complete the integration services. In the event, the job site is located in a geographical area where this does not apply or a specific installation time is requested for which this personnel is not available, additional charges may apply.

All hours for installation are assumed to be between 8am and 5pm (normal business hours) unless specified in this proposal. Request for work outside of normal business hours will be subject to the following increased hourly labor rates:

- Second Shift (3:00pm to 10:00pm) will be billed at one and a half times our standard labor rate.
- Weekend or Holiday hours will be billed at two times our standard labor rate.

Requests for installations outside our normal business hours are subject to approval by the Director of Post Sales Integration.



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800.933.7337 | info@tierneybros.com

***Tierney Brothers Premium Warranty Program
Designed for:
Rice Creek Watershed District***

Terms and Conditions

Tierney Brothers, Inc. warrants the installation you have purchased from Tierney Brothers, Inc. from defects in materials and workmanship, under normal use, during the One Year Premium Warranty period. Normal use is defined as operating the system within its designed specifications. Included in the One Year Premium Warranty the customer will receive:

- Unlimited Phone Support
- On-site service
- Discounts on Lamps and Accessories
- Preventative Maintenance Check

Preventative Maintenance Check will be completed toward the end of the one year warranty period. The warranty period commences on the date of customer signoff, at the completion of the install by Tierney Brothers, Inc.

During the warranty period, Tierney Brothers, Inc. will first work to resolve any problems by troubleshooting over the phone. If Tierney Brothers, Inc. Support Specialists determine that the issue cannot be resolved over the phone, a Technician will be dispatched to your location(s) within 24 hours (if necessary) of the original call (Monday through Friday 8:00am – 5:00pm, excluding national holidays). Customers outside of a 150 mile radius of Tierney Brothers, Inc. are subject to mileage and trip charges. If service is required after the One Year Premium Warranty period has expired, the customer will be billed at Tierney Brothers, Inc. current labor rates. If the customer has purchased a Tierney Brothers, Inc. Extended Maintenance Agreement, that will commence at the end of the One Year Premium Warranty. If you would like additional information regarding Tierney Brothers, Inc. Extended Maintenance Agreements, please contact your Tierney Brothers, Inc. Sales Representative at 612-331-5500.

Obtaining Warranty Service

To obtain warranty service, please use your custom support portal (support.tierneybrothers.com) and contact us via chat, phone, or email: <https://support.tierneybrothers.com/>

Click here for a short video explaining how to log in to your support portal your first time:

<http://content.iwplatform.com/players/TpGSX21s-kaM9q1Ga.html>

If you have any questions, please email support@tierneybrothers.com or call us at 800-933-7337. You can also call our advanced support line, 855-612-7762.

Obtaining Your Preventative Maintenance Check

Tierney Brothers, Inc. will send out an email 60 days prior to one year warranty expiration requesting the customer go to www.tierneybrothers.com to schedule their preventative maintenance check. Customers can also call into our Support Specialist at 612-331-5500 or by email at techservice@tierneybrothers.com to schedule a Preventative Maintenance Check. Customer may call to schedule Preventative Maintenance Check prior to the 60 day period if they require it done at an earlier date. Preventative Maintenance Checks are done Monday through Friday 8:00am – 5:00pm. Customer is responsible for providing access for up to 2 hours per room for Preventative Maintenance Check. If Customer doesn't schedule their preventative maintenance check before one year warranty has expired, the Preventative Maintenance Check will be void.

Limitations of coverage

The following items are excluded from coverage under the warranty:

- a. Equipment that has been removed or reinstalled in a different location
- b. Damage or other equipment failure due to causes beyond our control including, but not limited to, operator negligence, the failure to maintain the equipment according to the owner's manual instructions, abuse, vandalism, theft, fire, flood, wind, freezing, power failure, inadequate power supply, acts of war or acts of God.
- c. Any utilization of equipment that is inconsistent with either the design of the equipment or the way the manufacturer intended the equipment to be used.
- d. Premium Warranty covers all hardware related failures. Network or software related failures are not covered under Tierney Brothers, Inc. Premium Warranty.
- e. Operational or mechanical failure which is not reported prior to expiration of this contract.
- f. Equipment where the serial plate attached to the equipment is removed, defaced or made illegible.



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Tierney Brothers Premium Warranty Program
Designed for:
Rice Creek Watershed District

- g. Damage resulting from unauthorized repair, software virus, improper electrical wiring and connections.
- h. Existing Owner Furnished equipment.
- i. Lift and Scaffolding rental is not included.

This maintenance contract refers to:
Large Conference Room
21379

I have read, understand and agree to the above terms and conditions per the plan elected.

Authorized Signature: _____

Date: _____



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800.933.7337 | info@tierneybros.com

Rice Creek Watershed District
Large Conference Room
21379

Proposal Summary

Please Initial to Accept or Decline
Please Acknowledge All Proposals
Accept Decline

A - Large Conference Room

Proposal Total: \$ 7,163.57 _____

B - Council Chambers

Proposal Total: \$ 6,847.41 _____

C - Remote Locations

Proposal Total: \$ 295.97 _____

Multi Room Design Fee

\$ 1,500.00 *Preapproved

Project Total: \$ 15,806.95

Design Fee Credit \$ (1,500.00)

Project Total with Design Fee Credit \$ 14,306.95 *Proposal total if all quotes and options are accepted

The undersigned authorizes Tierney Brothers to proceed in accordance with the proposal including options elected and agrees as a representative of the client to be responsible for payment.

By signing below, the client has read and understands the scope of services and agrees to the client responsibilities and conditions.

Client's Name: _____

Authorized Signature: _____

Client Email Address: _____

Date: _____

ITEMS REQUIRING BOARD ACTION

8. Consider City of Forest Lake Local Water Plan. (Lauren Sampedro)

MEMORANDUM

Rice Creek Watershed District

Date: April 17, 2019
To: RCWD Board of Managers
From: Lauren Sampedro, District Technician
Through: Phil Belfiori, Administrator
Subject: Consider Approval of Forest Lake Local Water Management Plan

BACKGROUND

On January 8, 2019 the Rice Creek Watershed District (RCWD or the District) received the City of Forest Lake's Local Water Management Plan (Plan) for its formal review, comment, and approval. In its review of the Plan on February 28, 2019 the District provided several comments to the City. The comments were made based on local plan requirements in RCWD's 2010 Watershed Management Plan and Minnesota Rules 8410 and Minnesota Statute 103B.235. The Metropolitan Council completed its review of the Plan and concluded that it is generally consistent with the Council's Water Resources Policy Plan, but also provided comments on the plan. The City submitted a revised plan on April 3, 2019 for the District to review and the District provided a few minor comments to the City. RCWD staff find the City has adequately addressed all RCWD comments in a revised plan received April 15, 2019.

The City's Plan is now consistent with the District's 2010 Watershed Management Plan and clearly acknowledges RCWD's regulatory role in implementing its rules and administering the Wetland Conservation Act within the City. The City will also maintain or reduce the five existing intercommunity flow rates into Columbus and Hugo through administration of the City's ordinances and development of regional flood controls.

The City identified a few water resource issues within the City which include water quantity and water quality issues. There is flooding between Highway 61 and 190th Street North and limited discharge capacities and surface flooding on the main trunk and branches 3 and 4 of Washington Judicial Ditch 4 (JD 4). The capacity issues at JD 4 are heightened due to continued future development in the area. The City also drains to several impaired waters including Clear Lake, Hardwood Creek, and White Rock Lake, and the City is involved in the Peltier and Centerville Lake TMDL and the Upper Mississippi River Bacteria TMDL. To address the water quantity issues the City is proactively planning a regional ponding location at the City's Community Center, and the City will continue working with RCWD to complete drainage improvements and monitor the flooding at 190th Street. The City will also continue working with the RCWD on a JD 4 Watershed Analysis and Development Plan to identify improvements to address the JD 4 capacity issues, which is included in the City's CIP table. The City will partner with RCWD on the JD 4 improvements that result from the analysis, such as a regional pond. The JD 4 improvements will also help address the Peltier and Centerville Lake TMDL goals. Additionally, the City has several planned stormwater reuse projects in its CIP table that will benefit the Peltier and Centerville Lake TMDL and improve the water quality of Clear Lake including stormwater reuse projects at a LILA School, Everton Townhomes, and at the City Center. The City will also implement its Enhanced Street Sweeping Plan, which was a partnership with RCWD and Comfort Lake-Forest Lake Watershed District.

RECOMMENDATION

Based on staff review of the Draft Plan along with the changes made to reflect the District's comments, the Plan has been determined to be consistent with the District's Watershed Management Plan and associated Rules. Staff recommends that the Board of Managers approve the City of Forest Lake's Local Water Management Plan as submitted to the District on April 15, 2019.

MEMORANDUM

Rice Creek Watershed District

Proposed action: Manager _____ moves to offer resolution 2019-11 and its adoption, seconded by Manager _____.

Attachments: Draft Resolution 2019-11
Relevant Sections of the Forest Lake Local Water Management Plan including:

- Executive Summary
- Identified Issues
- CIP Table

RESOLUTION 2019-11

**RICE CREEK WATERSHED DISTRICT
BOARD OF MANAGERS**

**RESOLUTION TO APPROVE
FOREST LAKE LOCAL WATER MANAGEMENT PLAN**

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

WHEREAS on June 9, 2010, the RCWD adopted a new Watershed Management Plan (WMP) under Minnesota Statutes 103B.231, which details the existing physical environment, land use and development in the watershed and establishes a plan to manage water resources and regulate water resource use to improve water quality, prevent flooding and otherwise achieve the goals of Minnesota Statutes Chapters 103B and 103D;

WHEREAS the WMP incorporates the Rules adopted by the RCWD to improve water quality, prevent flooding and otherwise achieve the goals of Minnesota Statutes Chapters 103B and 103D;

WHEREAS on January 8, 2019 the City of Forest Lake (City) submitted an update to its local water management plan under Minnesota Statutes 103B.235 for formal RCWD review and approval;

WHEREAS the Metropolitan Council received a copy of the local plan and provided comments on that plan to the RCWD in accordance with Minnesota Statutes 103B.235, and the RCWD finds that the City has adequately addressed those comments;

WHEREAS the RCWD has determined that the local plan, as revised and submitted on April 15, 2019, meets the requirements for approval set forth in the WMP, except that the local plan does not provide for the adoption of official controls or implementation of inspection and administrative procedures necessary to insure that the full regulatory standards of the RCWD are met, as required by the WMP in order for the City to assume sole regulatory authority;

WHEREAS the City does not wish to assume sole regulatory authority but, instead, wishes to authorize the RCWD to continue to require permits for the use and development of land, and otherwise exercise its regulatory authority within the City, within the meaning of Minnesota Statutes 103B.211, subd. 1(a)(3); and

WHEREAS the RCWD's approval of the local plan rests on the City's agreement that the RCWD will continue to exercise its present regulatory authority; and

WHEREAS the RCWD and the City understand that the RCWD would deem a future withdrawal of the City's authorization without an RCWD determination that the City's official Controls meet WMP standards to constitute a failure to adopt the implementation program of the local plan as specified in Minnesota Statutes 103B.211, subdivision 1(a)(3)(i); and

WHEREAS the RCWD and the City recognize and agree that the City at a later time may amend its plan in order to assume sole regulatory authority, subject to RCWD approval;

THEREFORE, BE IT RESOLVED that the RCWD Board of Managers hereby approves the City of Forest Lake's local water management plan, as submitted on April 15, 2019.

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

	<u>Yea</u>	<u>Nay</u>	<u>Absent</u>	<u>Abstain</u>
WALLER	☐	☐	☐	☐
HAAKE	☐	☐	☐	☐
BRADLEY	☐	☐	☐	☐
WAGAMON	☐	☐	☐	☐
PREINER	☐	☐	☐	☐

Upon vote, the Chair declared the Resolution _____.

Michael Bradley, Secretary

Dated: April 24, 2019

* * * * *

I, Michael Bradley, Secretary of the Rice 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 transcript thereof.

IN TESTIMONY WHEREOF, I hereunto set my hand this 24th day of April 2019.

Michael Bradley, Secretary

1. EXECUTIVE SUMMARY

The City of Forest Lake Local Water Management Plan (LWMP) serves as a comprehensive planning document to guide the City in conserving, protecting and managing its surface and groundwater resources. This document represents the 2018 update which follows updates made by the local regulatory watershed districts to their plans and aligns with the 10-year Comprehensive Plan update cycle.

The content of the LWMP is in large part determined by Minnesota Statute 103B and Rules 8410. Specifically, statute 103B.235 states:

After the watershed plan is approved and adopted, or amended, pursuant to section 103B.231, the local government units having land use planning and regulatory responsibility for territory within the watershed shall prepare or cause to be prepared a local water management plan, capital improvement program, and official controls as necessary to bring local water management into conformance with the watershed plan

Minnesota Rules 8410 is more specific about the content of the local plans. According to the rules, these plans shall include the following:

- Table of Contents
- Purpose
- Executive Summary
- Land and Water Resource Inventory
- Establishment of Goals and Policies
- Relation of Goals and Policies to Local, Regional, State and Federal Plans, Goals and Programs
- Assessment of Problems
- Corrective Actions
- Financial Considerations
- Implementation Priorities
- Amendment Procedures
- Implementation Program
- Appendix

The sections of this report directly reference several of the items listed above. The other items, though they do not form actual section headings, are nonetheless covered within this report.

It is not the intent of the City to pursue gaining local regulatory authority at this time. However, the City reserves the right to gain local regulatory control and assume permitting authority.

5. SYSTEM ASSESSMENT

5.1 OVERVIEW

The assessment of the City of Forest Lake surface water system includes both water quality and quantity. The assessment is an identification of strengths and weaknesses that have developed over time in the system. The assessment will be followed up by an appropriate allocation of resources based on prioritization of activities (see Section 6, Implementation). The City of Forest Lake will continue to work with RCWD and CLFLWD for opportunities to partner on improvement projects. Partnerships include analyses, feasibility studies, cost share, education, etc. Future projects are prioritized using a number of factors including condition of the receiving water, assessment of water quality and TMDL studies, MS4 priorities, and alignment with City projects and funding opportunities.

5.2 ASSESSMENT OF PROBLEMS

5.2.1 Rice Creek Watershed

The Rice Creek Watershed District occupies approximately 50% of the area in the City of Forest Lake. In addition to Rice Creek, the primary surface waters in the watershed include Clear Lake, Mud Lake, Hardwood Creek, and several large wetlands.

A. Water Quantity Assessment

In the interest of providing proactive stormwater quantity (and quality) solutions, the City has planned regional ponding locations at two future sites, the 1st Avenue and Broadway redevelopment site and the Community Center site. This proactive approach to stormwater management is an attempt to minimize the need to correct difficult nuisance flooding problems, such as the SE corner of the intersection between Highway 61 and 190th Street North (190th Area). This area is considered to have “nuisance” flooding in that no loss of life or property has been realized, and the potential for those losses is very low.

The 190th Area has experienced springtime flooding for many years in the past. One particular property owner loses overland access to his property during springtime due to flooding of his driveway. This area is a concern for the City and the RCWD, both of which have monitored this area for the past several years. In the summer of 2003, the RCWD refurbished Branch 2 of Judicial Ditch #7, which serves the area of concern. As part of that project, a surface inlet was added to the tile line in an effort to address the springtime flooding issues in the area. The area will continue to be monitored by both entities into the future. If the addition of the surface inlet to JD 7 is determined to be inadequate for minimizing flooding in the area, additional measures to reduce flooding may be implemented in the future.

The City continues to actively develop south of Headwaters Parkway near Fenway Avenue. The area is referred to as the Headwaters development. Development is likely to continue to progress to the south into tributary watersheds to Judicial Ditch (JD) 4. Specifically, the Main Trunk, Branch 3 and Branch 4 of JD 4 currently have limited discharge capacities and experience surface flooding. As development continues in this area, regional pond must be considered to ensure that flooding is not further perpetuated downstream. RCWD has identified this area as amongst its highest priorities for regional flood control. The City will develop a plan for regional pond, reserve greenway corridors and establish drainage and utility easements for long term maintenance that will be implemented as development continues. The City and RCWD will follow 103E Ditch Regulations to ensure that appropriate segments of ditch are abandoned, realigned or altered according to state statute.

Judicial Ditch 4, including the Main Branch, Branch #3 and Branch #4 are currently experiencing capacity issues largely due to upstream development, sediment accumulation, overgrown

vegetation and/or tile breakage. As development continues in this area, regional pond and greenway reserve will be imperative to regional flood protection and should be considered in detail prior to the onset of development.

B. Water Quality Assessment

The quality of the water flowing into a waterbody is the most important single factor influencing the quality of that waterbody and its ability to support recreational and aesthetic uses. In general, lakes with excellent water quality usually have a comparatively significant inflow of high quality groundwater. While most high quality lakes also receive surface runoff from their watershed, the volume and/or quality of the surface runoff is not enough to overwhelm the influence of the high quality groundwater.

Phosphorus is often used as a barometer of lake water quality. High levels of phosphorus often lead to blooms of algae and other aquatic plants during most or all of the summer recreation season. These blooms negatively impact the aesthetics of the waterbody because of the poor water clarity and floating scums they cause. Decomposition of the algae can also create offensive smells that further compromise the appeal of the lake.

The Metropolitan Council has prepared a lake quality report card for the Metro Area based on average total phosphorus concentrations and other data for the May through September recreation season for 119 Metro Area lakes. The report card provides an easy to understand measure of lake quality which can be compared with actual data. Table 5 lists the report card letter grade, phosphorus concentrations, chlorophyll-a concentrations, and water clarity. Total phosphorus is measured because it is typically the limiting nutrient for plant growth, chlorophyll-a is a measure of algae abundance, and a Secchi disk is used to measure the general clarity of the water.

Table 5: Metropolitan Council Lake Quality Report Card.

Grade	Interpretation	Total Phosphorus Concentration [TP] (ppb)	Chlorophyll-a Concentration (ppb)	Secchi Depth (meters)
A	Excellent	< 23	< 10	> 3.0
B	Good	23 - 32	10 - 20	3.0 - 2.2
C	Fair	32 - 68	20 - 48	2.2 - 1.2
D	Poor	68 - 152	48 - 77	1.2 - 0.7
F	Very Poor	> 152	> 77	< 0.7

Lakes receiving an "A" are deemed exceptional compared to other area lakes and have no recreation use impairment. Lakes with a "B" grade have very good water quality and only modest recreational use impairment, while lakes receiving a "C" are considered to have average water quality for the region and are somewhat impaired for recreational use. "D" grade lakes have poor water quality and lakes receiving an "F" grade have extremely poor quality compared with other area lakes and do not support recreational use.⁹

Table 6 lists the letter grades for the lakes located within the Rice Creek Watershed District and the City of Forest Lake.

Table 6: Water Quality Data for Lakes Located within the RCWD.

Lake*	Mean [TP]** (ppb)	Mean [Chlorophyll-a]** (ppb)	Mean Secchi Disk Reading** (m)	Met. Council Grade (A-F)
Clear	43	14	1.9	B-
Mud	31	8	1.1	B+

⁹ Metropolitan Council, 2015 Study of the Water Quality of 164 Metropolitan Area Lakes

- * Lakes included in the Minnesota Pollution Control Association's (MPCA) Lake Water Quality Assessment Program.
- ** Summertime Average

Both lakes located within the RCWD have above average water quality. As their drainage areas continue to develop, the water quality standards of the City should continue to be implemented to help ensure that the lakes' quality is preserved. The City of Forest Lake will continue to collaborate with RCWD to develop water quality practices as development occurs and retroactively treat runoff from otherwise untreated drainage areas.

The Clear Lake Diagnostic Study prepared by RCWD identified key pollutant inflow points. The Study also identified locations for best management practices to reduce the total phosphorus loading by 140 pounds per year. The City and RCWD have partnered to construct the City Center Water Quality Project and Forest Lake High School Stormwater Capture and Reuse for Irrigation Project to bring Clear Lake closer to its goal. The High School Reuse project captures stormwater from roof and parking lot areas and, in conjunction with additional BMPs and storage areas on site, is treated via ultraviolet light and pumped into the irrigation system. The project irrigates approximately 12 acres and will result in a groundwater savings of 4.1 million gallons per year.

The RCWD also proactively pursues projects to improve the overall water quality of the Rice Creek and other waterbodies within its jurisdiction. For example, the District completed the Hardwood Creek Impaired Biota (Fish) and Dissolved Oxygen TMDL Implementation Plan (July 2009).

5.2.2 Comfort Lake-Forest Lake Watershed

The Comfort Lake-Forest Lake Watershed District occupies approximately 50% of the area in the City of Forest Lake. In addition to Forest Lake, the primary surface waters in the watershed include Cranberry Lake, Elwell Lake, Higgins Lake, Shields Lake, Keewahtin Lake, Twin Lake, Sunrise River, and several large wetlands.

A. Water Quantity Assessment

The Shields Lake tributary area is an area of concern in regards to flooding within the City and the CLFLWD. Two areas are located within the tributary area of Shields Lake and adjacent to the Forest Hills Golf Course that experience drainage problems, Heath Avenue Court North and the Green Valley development. These areas are considered to have only "nuisance" flooding, similar to the 190th area in the RCWD.

Heath Avenue Court North experiences "nuisance" flooding during medium to large storm events. A portion of the Forest Hills Golf Course currently drains between two lots located on the cul-de-sac. The City storm sewer in that area was retrofitted in the past in an attempt to accommodate flows from the golf course. The modified City storm sewer adequately conveys small storm events, but was not designed to convey runoff generated on the golf course from the medium to large storm events. The golf course has committed to reducing peak flows from their property to the City storm sewer system through the construction of storm water detention basins. These basins do not currently exist, but should be constructed in the near future.

The 208th St N and 209th St N neighborhood experiences routine flooding from an excess quantity of runoff and undersized infrastructure. This area was included in water quality planning and hydraulic modeling associated with the CLFLWD Shields Lake diagnostic work. The City has met with residents and CLFLWD to analyze the impacts of the flow diversion planned with the Forest Hills Golf Course stormwater capture and reuse project scheduled for construction in 2018-2019. Upon completion of the project, the flooding concerned will be readdressed. For this

reason, the 208th St N neighborhood improvements have not been included in the Capital Improvement Plan.

Following the construction of the golf course ponds, this area will continue to be monitored by the City for flooding problems. Should flooding issues in the area persist, additional measures on the golf course may be necessary or the City may need to design and reconstruct the storm water conveyance system in the cul-de-sac.

The Green Valley development is similar in that it is located downstream of an area that generates large peak flows. Large culverts are used throughout the site to convey stormwater under driveways. Several wetlands are located adjacent to the development and are merely a couple feet of elevation difference than the roads through the development. The low roads offer little room for water surface “bounce” during storm events, resulting in overtopping of the roads and high peak flows during relatively small storm events. The City is currently studying alternatives to reduce peak flows through the Green Valley development.

B. Water Quality Assessment

The Metropolitan Council’s lake quality report card was used to determine a letter grade corresponding to each lake’s capacity for recreational use within the City and the CLFLWD. Details on the lake quality report card, and general water quality information have been summarized in Section 5.2.1.2, above. Table 7 lists the letter grades for the lakes located within the CLFLWD and the City of Forest Lake.

Table 7: Water Quality Data for Lakes Located within the CLFLWD.

Lake*	Mean [TP]** (ppb)	Mean [Chlorophyll-a]** (ppb)	Mean Secchi Disk Reading** (m)	Met. Council Grade (A-F)
Forest	35	15	1.8	C+
Shields	239	50.7	0.9	D-
Keewahin	15	3.0	4.5	A

* Lakes included in the Minnesota Pollution Control Association's (MPCA) Lake Water Quality Assessment Program (2015).

** 5-Year Mean (2011 – 2017), Summertime Average

The quality of Forest Lake is comparable to the average lake quality in the Metro Area. As Forest Lake’s drainage area continues to develop, the water quality standards of the City should continue to be implemented to help ensure that the lakes’ quality is preserved. Areas in the City that currently discharge directly to the lake should be retrofitted to provide water quality treatment prior to discharge to the lake. Septic systems adjacent to lakes can also promote water quality degradation. When possible, septic systems should be taken off-line and sewage should be collected and treated at a centralized treatment plant. These actions can help to prevent sedimentation and nutrient enrichment of the lake, preventing degradation and possibly increasing the quality of the lake over time.

The Metropolitan Council determined from its monitoring results that lakes with “D” and “F” grades are typically small and shallow. Shields Lake is relative small at 26 acres, but is relatively deep for its size at 27 feet. Shields Lake is small for the size of its drainage area, which is a likely contributor to its low grade. The existing land use may also be a contributor to the low grade of Shields Lake. Within Shields Lake drainage boundary is low density residential, golf course, with the majority of the area being used for agricultural purposes. Given the high total phosphorus concentration of the lake, it’s likely that one, or a combination of, the listed land uses is contributing high concentrations of phosphorus to the lake. Pretreatment ponds would benefit the lake, though the reduction of phosphorus use within the drainage area would likely result in the highest benefit to the lake in the near future.

Keewahtin Lake is an example of a lake with exceptional recreational value, scoring off the chart for all three of the Metropolitan Council's water quality criteria. Keewahtin Lake likely maintains its high quality through a high rate of exchange with groundwater, and relatively low impact from its drainage area.

CLFLWD has identified goals for in-lake water quality and phosphorus load reductions including the percent municipal portion of the lake drainage area. Table 8 is summary of the water bodies in the City of Forest Lake and CLFLWD. The City will continue to work with CLFLWD to prioritize water quality projects that help achieve these goals.

Table 8: Goals for In-Lake Water Quality and Phosphorus Load Reductions (provided by CLFLWD).

Lake	Forest Lake Portion of Drainage Area	10-Year In-Lake TP Goal	20-Year In-Lake TP Goal		
		In-Lake Concentration (µg/l)	In-Lake Concentration (µg/l)	Max. Load to Lake (lb/yr)	Total Load Reduction Needed (lb/yr)
Birch	7%	60	60	471	451
School	10%	50	40	452	476
Little Comfort	13%	40	40	577	678
Shields	100%	100	60	195	911
Keewahtin	38%	20	20	69	0
Forest Lake	93%	<40	<40	3312	153
Comfort	36%	40	40	2339	127

5.3 IMPAIRED WATER BODIES

As part of the federal Clean Water Act, the State of Minnesota is required to adopt water quality standards to protect lakes, streams, and wetlands from pollution. These standards identify how much bacteria, nutrients and other pollutants can be present and still have the water body meet its designated uses such as fishing and swimming. If a water body does not meet one or more of these standards it is identified as "impaired".

The Minnesota Pollution Control Agency (MPCA) administers this program in which the State of Minnesota is required to identify and restore impaired waters.

To meet this requirement, the MPCA has developed a three step program in which:

- A. Assesses all waters of the state to determine if they meet water quality
- B. Lists all waters that do not meet standards
- C. Conducts studies to establish pollution reduction measures to restore the water bodies.

Once these steps are completed, each water body will have a pollutant reduction goal defined as a TMDL, or Total Maximum Daily Load, which represents the maximum amount of a pollutant a water body can receive and still meet water quality standards. The City will work with RCWD, CLFLWD and Washington County to develop actions, policies and projects to meet waste load allocations. For instance, the will implement the City-wide Enhanced Street Sweeping Plan in 2019.

The City of Forest Lake has three lakes and two streams within its boundaries which have been identified as impaired waters, as listed below in Table 9 (see also Figure SW-10).

Forest Lake was found to be impaired due to the detected levels of mercury and PCB in fish tissues. Clear Lake was also listed as impaired for mercury levels. A State-wide TMDL was

approved in 2007 to address mercury reduction through a reduction in emissions incidental to mining and energy activities.

Shields Lake has been identified as having a nutrient/eutrophication impairment and was one of the six impaired lakes examined in “Six Lakes Total Maximum Daily Load Study” TMDL completed by the CLFLWD. This TMDL also addresses Moody, Bone, School, Little Comfort and Comfort Lakes. In this report, each lake is assessed for phosphorus reductions necessary to meet water quality standards. The full report is available at the Comfort Lake-Forest Lake Watershed District website <http://www.clflwd.org/>.

Clear Lake and Hardwood Creek both discharge to the Rice Creek and are upstream of 28 waterbodies within the watershed with impairments. Aside from the Statewide Mercury TMDL, TMDL studies are underway for nine of these impaired waters. Clear Lake discharges through Mud Lake to Howard Lake, which was impaired for phosphorus and delisted in 2014. Hardwood Creek discharges to Peltier and Centerville Lake, which are impaired for phosphorus/mercury and phosphorus, respectively; both lakes have approved TMDLs. The City will work with its project partners to develop projects in the JD4 watershed that will improve discharges leaving the City of Forest Lake into the lake systems. The City will also begin implementation of the City-wide Enhanced Street Sweeping Plan in 2019. In addition, a small portion of the City of Forest Lake is in the watershed which drains to White Rock Lake in Scandia. This lake has been found to be impaired for nutrients and biological indicators.

CLFLWD was awarded a BWSR Clean Water Fund grant in 2016 for the Shields Lake Stormwater Harvest and Irrigation Reuse System and Alum Treatment project. Shields Lake has been identified as the single largest pollutant contributor to Forest Lake. The project will impound water from a tributary to Shields Lake for irrigation reuse at the Forest Hills Golf Club, reducing watershed phosphorus loads to Shields Lake by 94 pounds per year. Additionally, the irrigation reuse system will supply the golf club with up to 26 million gallons of water per year, greatly reducing the demand for pumping from deep, regionally significant aquifer. A whole-lake alum treatment will also be applied to Shields Lake. The irrigation reuse system coupled with the alum treatment are expected to reduce phosphorus loads such that Shields Lake achieves a clear water state, which will reduce phosphorus loads to Forest Lake by up to 250 pounds per year.

All MS4 communities within the RCWD must address the Upper Mississippi River Bacteria TMDL. The City of Forest Lake has included provisions in their City Code for reductions in bacteria including its illicit discharge detection and elimination plan.

Table 9: Forest Lake Impaired Waters.

Lake/Stream	Impairment	TMDL Administrator	TMDL Approved
Clear Lake	Mercury	State of MN	Yes
Forest Lake	Mercury	State of MN	Yes
Forest Lake	PCB	State of MN	No
Hardwood Creek	DO, Biota	RCWD	Yes
Howard Lake	Nutrients	Delisted	
Judicial Ditch #2	Chlorides	State of MN	Yes
Lake St. Croix	Nutrients	State of MN	Yes
Little Comfort Lake	Nutrients	State of MN	Yes
Peltier and Centerville Lakes	Mercury, Nutrients	State of MN	Yes
Shields Lake	Nutrients	CLFLWD	Yes
Six Lakes TMDL ¹	Nutrients	CLFLWD	Yes
Sunrise River, South Branch	DO	State of MN	No
Upper Mississippi River	Bacteria	State of MN	Yes
White Rock Lake	Nutrients	State of MN	No

¹ Comfort Lake, Bone Lake, Shields Lake, Moody Lake, School Lake, Little Comfort Lake

5.4 INTERCOMMUNITY FLOWS AND HYDRAULIC MODELING

RCWD and CLFLWD have developed regional hydraulic modeling in Forest Lake. The City has adopted these models by reference. During City street projects, regional drainage analyses and other applications, the City develops additional modeling detail that is used to supplement the watershed districts' regional modeling. As needed, these models are combined and shared amongst the project partners. Updated models for RCWD and CLFLWD are contained in the respective district Watershed Management Plan. The City of Forest Lake, RCWD and CLFLWD have entered into interagency agreements for digital file sharing, including updated geospatial and hydraulic modeling as needed.

Figure SW-12 displays the regional watershed areas modeled by the respective watershed districts. Figure SW-13 displays the City's storm sewer and ponding system. Appendix G contains modeling output from the respective watershed districts.

Forest Lake receives discharge from the City of Hugo along the southern municipal boundary through the JD 2 system. Otherwise, Forest Lake resides at the top of two major watersheds. The City of Forest Lake discharges into Columbus, Hugo and Wyoming through open ditch conveyances. The City of Forest Lake will continue to administer stormwater management rules and develop regional flood controls to ensure that flooding conditions are not perpetuated in adjacent communities. Table 10 summarizes the discharges into adjacent communities.

Table 18: Summary of Future Stormwater Projects.

Project	Improvement Cost Estimate ¹ (thousands of dollars)		Approximate Project Timeline	Funding Source
	Low	High		
190th Street North Drainage Improvements	100	150	2020+	RCWD/City
Heath Avenue Court North Drainage Improvements	50	100	2020+	CLFLWD/City
Green Valley Estates Drainage Improvements	100	300	Unknown	City
Implement the TH61 WQ and Aesthetics Plan	400	900	Ongoing	MnDOT/County/City/RCWD/CLFLWD
Castlewood Golf Course Parking Lot	20	30	2019+	CLFLWD/BWSR/City
Implement Enhanced Street Sweeping Plan	15	50	Ongoing	CLFLWD/RCWD/City/BWSR
Forest Road Water Quality Structure (South)	80	150	2020	City/BWSR/RCWD
Stormwater Pond Assessment	70	110	2018	City
City Center Stormwater Reuse Project	100	300	Unknown	RCWD/City
Comprehensive Hydraulic and Water Quality Modeling	50	120	Ongoing	City
Everton Townhome Stormwater Reuse	250	750	Unknown	RCWD/BWSR/City
LELA School Stormwater Reuse	250	750	Unknown	RCWD/City/Private
Judicial Ditch 4 Watershed Analysis and Development Planning	15	30	2018-2019	RCWD/City
Forest Lake Dead End Streets	TBD		2019+	CLFLWD/City
Shields Lake Water Quality Improvements	TBD		2018	CLFLWD/City
Judicial Ditch 4 Drainage Improvements	TBD		2020+	RCWD/City
Public & Private Drainage Ditch Maintenance	TBD		Ongoing	City/RCWD/CLFLWD
Total	1485	3710		

¹ Cost estimates include only stormwater related improvements and are subject to change. Costs will be analyzed annually as project timelines are realized.

6.7 FINANCING

In 2008, the City of Forest Lake implemented a stormwater utility to fund the increasing costs of stormwater management within the City. In 2012, this utility was increased to fund a full-time position on City Staff and capital improvements to the stormwater system. These efforts were taken to stabilize the funding of the stormwater management program and general maintenance associated with stormwater facilities. The total cost of the City of Forest Lake's stormwater drainage system includes financing the maintenance of the system as well as construction of future improvements and enhancements. Future adjustments may be needed to accommodate anticipated drainage improvements.

In addition to the utility, the City will also pursue cooperating projects with local watersheds for cost sharing, such as the 2012 "TH 61 Aesthetics and Water Quality Improvements and Planning

ITEMS REQUIRING BOARD ACTION

9. Consider City of Fridley Local Water Plan. (Lauren Sampedro)

MEMORANDUM

Rice Creek Watershed District

Date: April 17, 2019
To: RCWD Board of Managers
From: Lauren Sampedro, District Technician
Through: Phil Belfiori, Administrator
Subject: Consider Approval of Fridley Local Water Management Plan

BACKGROUND

On December 21, 2018 the Rice Creek Watershed District (RCWD or the District) received the City of Fridley's Local Water Management Plan (Plan) for its review, comment, and approval. In its review of the Plan on February 13, 2019 the District provided several comments to the City. The comments were made based on local plan requirements in RCWD's 2010 Watershed Management Plan and Minnesota Rules 8410 and Minnesota Statute 103B.235. The Metropolitan Council completed its review of the Plan on January 10, 2019 and concluded that it is generally consistent with the Council's Water Resources Policy Plan, but also provided comments on the plan. The City submitted a revised plan on March 22, 2019 for the District to review and the District provided a few additional comments. RCWD staff find the City has adequately addressed all comments in a revised plan received April 11, 2019.

The City's Plan is now consistent with the District's 2010 Watershed Management Plan and clearly acknowledges RCWD's regulatory role in implementing its Rules and administering the Wetland Conservation Act within the City.

The City identified several water resources issues within the RCWD boundary, such as flooding, water quality issues, and the City is fully developed with insufficient stormwater management. There is currently flooding at several locations in the City including around Norton Creek and Moore Lake. The City also drains to several impaired waters such as East Moore Lake, Pike Lake, and Rice Creek, and the City is listed as a regulated MS4 on the Southwest Urban Lakes TMDL and the Upper Mississippi River Bacteria TMDL. To address the flooding issues the City is planning to work with RCWD on Norton Creek improvements. The District recently approved cost-share assistance for a Norton Creek Watershed Study to begin identifying potential Norton Creek improvement opportunities that will mitigate flooding and provide water quality treatment. The City is also interested in partnering with RCWD on reducing flooding around Moore Lake through Moore Lake Park water quality improvements and West Moore Lake outlet control improvements, which are included in the City's CIP table. To address the water quality and stormwater management issues, the City would like to work with RCWD on implementation of water quality and quantity improvements in conjunction with future street reconstruction projects, such as the implementation of projects identified in RCWD's Southwest Urban Lakes Phase II Study. The City is also specifically interested in working with RCWD to reduce pavement and provide water quality improvements along 69th Avenue and evaluate opportunities to install regional stormwater treatment and best management practices in the City's public spaces and right-of-ways.

RECOMMENDATION

Based on staff review of the Draft Plan along with the changes made to reflect the District's comments, the Plan has been determined to be consistent with the District's Watershed Management Plan and associated Rules. Staff recommends that the Board of Managers approve the City of Fridley's Local Water Management Plan as submitted to the District on April 11, 2019.

Proposed action: Manager _____ moves to offer resolution 2019-12 and its adoption, seconded by Manager _____.

MEMORANDUM
Rice Creek Watershed District

Attachments: Draft Resolution 2019-12
Relevant Sections of the Fridley Local Water Management Plan including:

- Executive Summary
- Identified Issues
- CIP Table

RESOLUTION 2019-12

**RICE CREEK WATERSHED DISTRICT
BOARD OF MANAGERS**

**RESOLUTION TO APPROVE
FRIDLEY LOCAL WATER MANAGEMENT PLAN**

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

WHEREAS on June 9, 2010, the RCWD adopted a new Watershed Management Plan (WMP) under Minnesota Statutes 103B.231, which details the existing physical environment, land use and development in the watershed and establishes a plan to manage water resources and regulate water resource use to improve water quality, prevent flooding and otherwise achieve the goals of Minnesota Statutes Chapters 103B and 103D;

WHEREAS the WMP incorporates the Rules adopted by the RCWD to improve water quality, prevent flooding and otherwise achieve the goals of Minnesota Statutes Chapters 103B and 103D;

WHEREAS on December 21, 2018 the City of Fridley (City) submitted an update to its local water management plan under Minnesota Statutes 103B.235 for formal RCWD review and approval;

WHEREAS the Metropolitan Council received a copy of the local plan and provided comments on that plan to the RCWD in accordance with Minnesota Statutes 103B.235, and the RCWD finds that the City has adequately addressed those comments;

WHEREAS the RCWD has determined that the local plan, as revised and submitted on April 11, 2019, meets the requirements for approval set forth in the WMP, except that the local plan does not provide for the adoption of official controls or implementation of inspection and administrative procedures necessary to insure that the full regulatory standards of the RCWD are met, as required by the WMP in order for the City to assume sole regulatory authority;

WHEREAS the City does not wish to assume sole regulatory authority but, instead, wishes to authorize the RCWD to continue to require permits for the use and development of land, and otherwise exercise its regulatory authority within the City, within the meaning of Minnesota Statutes 103B.211, subd. 1(a)(3); and

WHEREAS the RCWD's approval of the local plan rests on the City's agreement that the RCWD will continue to exercise its present regulatory authority; and

WHEREAS the RCWD and the City understand that the RCWD would deem a future withdrawal of the City's authorization without an RCWD determination that the City's official Controls meet WMP standards to constitute a failure to adopt the implementation program of the local plan as specified in Minnesota Statutes 103B.211, subdivision 1(a)(3)(i); and

WHEREAS the RCWD and the City recognize and agree that the City at a later time may amend its plan in order to assume sole regulatory authority, subject to RCWD approval;

THEREFORE, BE IT RESOLVED that the RCWD Board of Managers hereby approves the City of Fridley's local water management plan, as submitted on April 11, 2019.

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

	<u>Yea</u>	<u>Nay</u>	<u>Absent</u>	<u>Abstain</u>
WALLER	☐	☐	☐	☐
HAAKE	☐	☐	☐	☐
BRADLEY	☐	☐	☐	☐
WAGAMON	☐	☐	☐	☐
PREINER	☐	☐	☐	☐

Upon vote, the Chair declared the Resolution _____.

Michael Bradley, Secretary

Dated: April 24, 2019

* * * * *

I, Michael Bradley, Secretary of the Rice 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 transcript thereof.

IN TESTIMONY WHEREOF, I hereunto set my hand this 24th day of April 2019.

Michael Bradley, Secretary

1.0 EXECUTIVE SUMMARY

This Local Water Management Plan (the Plan, the Water Plan) serves as a comprehensive planning document to guide the City of Fridley in the management of its water resources. The purposes of this plan, as stated in Minnesota Statute 103B.201, are to:

- Protect, preserve, and use natural surface and groundwater storage and retention systems;
- Minimize public capital expenditures needed to correct flooding and water quality problems;
- Identify and plan for means to effectively protect and improve surface and groundwater quality;
- Establish more uniform local policies and official controls for surface and groundwater management;
- Prevent erosion of soil into surface water systems;
- Promote groundwater recharge;
- Protect and enhance fish and wildlife habitat and water recreational facilities; and
- Secure the other benefits associated with the proper management of surface and groundwater.

This plan builds off of the previous Local Surface Water Management Plan approved in 2001 and included in Chapter 12 of the 2030 Comprehensive Plan. It is intended to meet the content requirements of Minnesota Statute 103B.235 and Minnesota Rules 8410, the Coon Creek Watershed District (CCWD), the Mississippi Watershed Management Organization (MWMO), and the Rice Creek Watershed District (RCWD). The goals and policies of this plan are also designed to meet the requirements of the City's Municipal Separate Storm Sewer System (MS4) permit and the associated Stormwater Pollution Prevention Plan (SWPPP) issued to the City of Fridley by the Minnesota Pollution Control Agency (MPCA) under the National Pollution Discharge Elimination System (NPDES) permit process.

The Plan is divided into the following sections:

Section 1.0 Executive Summary

Section 2.0 Introduction

Section 3.0 Community Setting presents detailed information about the City's physical and built environment including topography, land use, surface water, groundwater, soils, and recreational areas.

Section 4.0 Goals and Objectives outlines the City's goals and objectives for its water resources for this planning cycle.

Section 5.0 Issues and Corrective Actions presents the current water resource issues that must be addressed in order to achieve its water resource goals and objectives.

Section 6.0 Implementation Plan describes how the City will implement the corrective actions required to address its water resource issues.

Section 7.0 References lists the reports, studies, plans, etc. referenced in this document

Appendices:

Appendix A Figures

Appendix B City of Fridley Wetlands Inventory

Appendix C MS4 SWPPP Application for Reauthorization

Appendix D City of Fridley Codes Related to Water Resources

Appendix E MWMO Standards

Appendix F Implementation Plan

1.1 Summary of Community Setting

Section 3.0 provides background information relevant to the City of Fridley's current water resource management. The City of Fridley (population 27,500) is located in Anoka County and covers approximately 10.2 square miles. Fridley is bordered by the Mississippi River to the west, the cities of Coon Rapids, Spring Lake Park, and Blaine to the north, the cities of Mounds View and New Brighton to the East, and the cities of Columbia Heights and Minneapolis to the south. The three largest land use categories in the City are Single Family Residential (29.9%), Right-of-Way (19.6%) and Industrial (19%); 1.6% of the City is currently classified as vacant.

1.1.1 Water Resource Management Responsibilities and Related Agreements

As a downstream community, the City receives stormwater runoff from all of its neighboring communities except for the City of Minneapolis. In general, surface water in Fridley drains westward through the City via the stormsewer system, Springbrook Creek (County Ditch #17), Oak Glen Creek, Stonybrook Creek, and Rice Creek toward the Mississippi River.

Fridley is located within three watershed organizations: Coon Creek Watershed District (CCWD), Mississippi Watershed Management Organization (MWMO), and Rice Creek Watershed District (RCWD). The City of Fridley has entered into a joint cooperation agreement for the creation of the MWMO with the City of Columbia Heights, the City of Hilltop, the City of Lauderdale, the City of Minneapolis, the City of Saint Paul, the City of St. Anthony Village, and the Minneapolis Park and Recreation Board. Refer to the MWMO for a copy of this agreement. The City of Fridley also coordinates the management of shared water resources with neighboring communities to maintain offsite rates and discharge volumes. Additionally, the City has informal arrangements with partner organizations such as Stevenson Elementary to assist with the maintenance of stormwater best management practices (BMPs). Assistance with maintenance of partner BMPs is dependent on the availability of City resources, partner need, and priority of BMP.

The City of Fridley is responsible for construction, maintenance, and operation of the City's

stormwater management system (i.e., catch basins, pipes, ponds, and treatment devices). Anoka County and the Minnesota Department of Transportation (MnDOT) also operate their own stormwater management systems within the city in order to manage drainage within their right-of-ways. Springbrook Creek (County Ditch #17) is the only County Ditch in Fridley and is managed by the Coon Creek Watershed District. Additionally, the Board of Water and Soil Resources (BWSR), MnDOT, the Minnesota Department of Health (MDH), the Minnesota Pollution Control Agency (MPCA), and the Minnesota Department of Natural Resources (MnDNR) oversee the City's water resources in varying capacities.

1.2 Summary of Goals and Objectives

Section 4 outlines the City's water resource goals and objectives for this planning cycle. The following goals have been identified by the City:

Goal #1: All of Fridley's surface waters can be enjoyed to their highest intended use.

Goal #2: Fridley properties and infrastructure are not impacted by flooding.

Goal #3: Wildlife habitat and habitat connectivity are enhanced alongside sustainable, equitable use of public water and public water accesses for recreational purposes.

Goal #4: The quantity and quality of the City of Fridley's groundwater resources are protected.

Goal #5: Fridley residents and businesses are aware of Fridley's water resources and engaged in their protection.

Goal #6: The City is resilient against the impacts of climate change, including the increased frequency of heavy rainfall events.

1.3 Summary of Issues Assessment

Section 5 identifies the issues that are currently preventing the City from reaching its stated goals and objectives. The primary issues in the City are:

- Some Fridley waterbodies are impaired for different uses
- Some Fridley waterbodies are vulnerable to chloride impairment
- Fridley is fully developed and some areas have insufficient stormwater management systems
- Stormwater management systems must be maintained to be effective
- The City does not have comprehensive monitoring data
- Certain areas of Fridley are prone to flooding
- Some shorelines in Fridley are experiencing erosion
- Certain areas of Fridley are vulnerable to groundwater contamination or are otherwise not suitable for infiltration, the preferred stormwater management practice

- A variety of educational strategies are necessary to reach Fridley residents and businesses
- Climate change is expected to disrupt normal weather patterns

[1.4 Summary of Implementation Plan](#)

Section 6 presents the implementation program for the City. Appendix F includes the City's Implementation Plan designed to address the issues described in this plan. This list will be updated annually in consultation with watershed organization partners.

5.0 ISSUES ASSESSMENT

The City of Fridley has identified the following existing issues that must be addressed in order to achieve the City's water resource management goals outlined in Section 4.0. A map of the areas referenced in this section can be found in Appendix A, Figure 18.

5.1 Existing Issues:

Goal #1: All of Fridley's surface waters can be enjoyed to their highest intended use.

Issue 1.1: The following waterbodies have been listed as impaired on the Minnesota Pollution Control Agency's 2018 Draft Impaired Water's List. Total Maximum Daily Loads (TMDLs) has been developed to address some of these impairments. Additional waterbodies may be at risk for impairment from upstream sources or contaminants of emerging concern.

Table 5. MPCA's 2018 Draft Impaired Waters

Waterbody	Impairment (Stressor)	Approved TMDL (Yes/No)
Mississippi River	Aquatic Consumption (PCB in fish tissue)	No
	Aquatic Life (Nutrients)	No
	Aquatic Recreation (Fecal coliform)	No
	Mercury in fish tissue	Yes; statewide TMDL
Rice Creek	Aquatic Life (Aquatic Macroinvertebrate bioassessment)	No
	Aquatic Life (Fishes bioassessment)	No
	Aquatic Recreation (<i>E. coli</i>)	Yes; Upper Mississippi River Bacteria TMDL
East Moore Lake	Aquatic Recreation (Nutrients)	Yes; Southwest Urban Lakes TMDL
Springbrook Creek	Aquatic Life (Aquatic Macroinvertebrate bioassessment)	Yes; Coon Creek Watershed District WRAPS
	Aquatic Recreation (<i>E. coli</i>)	Yes; Upper Mississippi River Bacteria TMDL
Pike Lake ¹	Aquatic Recreation (Nutrients)	Yes; Southwest Urban Lakes TMDL

¹Pike Lake is located in New Brighton, but receives runoff from Fridley

Action 1.1.A The City, in coordination with partner agencies, will install stormwater best management practices during future capital investment projects and complete standalone water quality and quantity improvement projects.

Action 1.1.B The City will implement good housekeeping practices as described in the City's SWPPP.

Action 1.1.C The City will require pre- and post-construction stormwater controls as part of land alteration permits; the City will update Chapter 208 to include MWMO regulatory standards within the MWMO (see Appendix E); the City will continue to rely on CCWD and RCWD to implement their regulatory standards within their jurisdictions and require proof of any applicable permit under City Code Chapter 208.

Action 1.1.D The City will provide education to residents and businesses on how they can improve water quality.

Action 1.1.E The City will enforce City Code Chapter 204 and maintain an effective spill response plan to prevent and respond to illicit discharges.

Issue 1.2 The Twin Cities Metropolitan Area Chloride TMDL identifies Springbrook Creek as highly vulnerable to chloride impairment; other waterbodies may be vulnerable to chloride impairment due to stormwater runoff.

Action 1.2.A The City will maintain Smart Salting Level 2 certification from the MPCA.

Action 1.2.B All snow plow drivers will receive Smart Salting Level 1 certification from the MPCA.

Action 1.2.C The City will monitor salt use and adjust equipment and operations to decrease chloride application while maintaining safe winter driving conditions.

Action 1.2.D The City will work with its partners to educate residents and businesses on proper salt application.

Issue 1.3 The City of Fridley is fully developed and many properties and roads were constructed with high levels of impervious surface and insufficient stormwater management systems. Furthermore, areas with a high concentration of small properties and residential properties continue to be exempt from current stormwater management regulations.

Action 1.3.A See Corrective Action 1.1.A.

Action 1.3.B The City will evaluate opportunities to install regional treatment systems and stormwater best management practices in public spaces and right-of-ways in areas in areas

identified in H&H modeling and sub-watershed assessments as suitable for providing regional treatment, dependent on availability of land and financial feasibility.

Action 1.3.C The City will integrate water quality and water quantity improvements into road reconstruction projects and evaluate the opportunity to decrease road widths, install vegetation, and implement stormwater best management practices where appropriate during road reconstruction projects. The opportunities will be incorporated into any “Living Streets” policies.

Action 1.3.D See Corrective Action 1.1.C.

Action 1.3.E The City will evaluate incentivizing voluntary installation of stormwater best management practices and in the City through the stormwater utility fee and other measures; The City will evaluate strategies for achieving de-pavement through ordinance, the stormwater utility fee, incentives, or other measures.

Action 1.3.F The City will continue to implement the residential rain garden program.

Issue 1.4 Stormwater best management practices that are installed by public and private entities must be maintained in order to provide water quality benefits.

Action 1.4.A The City will continue to use the SWAMP program to prioritize maintenance of City-owned stormwater BMPs and inspection of private stormwater BMPs as well as evaluate sediment levels in waterbodies.

Action 1.4.B The City will remove sediment from City-owned stormwater BMPs identified by the SWAMP program.

Action 1.4.C The City will implement enforcement procedures in coordination with its watershed partners to ensure that approved pre- and post-construction controls are functioning and privately held maintenance agreements are followed.

Issue 1.5 Comprehensive monitoring data is needed to establish baselines, prioritize projects, and track progress toward meeting TMDL goals

Action 1.5.A The City will support watershed partners in establishment of baseline monitoring stations and data collection.

Action 1.5.B The City will provide project-specific monitoring where needed.

Goal #2: Fridley properties and infrastructure are not impacted by flooding.

Issue 2.1 Certain areas of the City have experienced flooding or are at-risk for flooding.

Action 2.1.A See Corrective Action 1.1.A

Action 2.1.B The City will replace undersized stormwater systems as opportunities arise and funding allows.

Action 2.1.C The City will partner with watershed organizations to perform comprehensive H &H modeling of the City and its floodplains and drainage areas.

Goal #3: Wildlife habitat and habitat connectivity is enhanced alongside sustainable, equitable use of public water and public water accesses for recreational purposes.

Issue 3.1 Shorelands of waterbodies have been developed and do not provide suitable wildlife habitat.

Action 3.1.A The City will encourage property owners along shoreland properties to plant natively vegetated buffers through targeted education.

Action 3.1.B The City will analyze City parks for suitable areas for no-mow grass or native perennial plantings and install natively vegetated buffers along waterbodies in City-owned parks.

Action 3.1.C The City will partner with appropriate agencies to remove invasive species that may negatively impact water quality.

Action 3.1.D The City will update the Critical Area overlay ordinance for consistency with updated MRCCA rules and to promote establishment of native vegetation.

Issue 3.2 The City has received reports of incidents of slope shifting, also known as mass wasting, along small portions of the Mississippi River. The City has also observed instances of erosion along other waterbodies

Action 3.2.A The City will partner with Watershed Districts to monitor erosion along Mississippi River.

Action 3.2.B The City will partner with Watershed Districts to repair erosion along waterbodies.

Goal #4: The quantity and quality of the City of Fridley's groundwater resources are protected.

Issue 4.1 The majority of the City is located within a Drinking Water Surface Management Area (DWSMA), which necessitates increased land use controls to protect groundwater-based drinking supplies from contamination. Potential wells and contaminants within the DWSMA were identified in the City's Wellhead Protection Plan. While the City generally promotes infiltration as a stormwater best management practice, it should be noted that this may not be appropriate on all sites.

Action 4.1.A The City will follow the Minnesota Department of Health's guidelines for stormwater management in Drinking Water Surface Management Areas.

Action 4.1.B The City will adopt the Minnesota Stormwater Manual by reference in Chapter 208.

Action 4.1.C The City will partner with Anoka County to continue the well sealing program.

Action 4.1.D The City will continue to participate in the Anoka County Municipal Wellhead Protection Group and coordinate with neighboring communities included within Fridley's DWSMA regarding wellhead protection.

Issue 4.2 Fridley's groundwater is also its drinking water supply. Unsustainable water use could deplete groundwater supply levels.

Action 4.2.A The City will update the Fridley City Code to promote water efficient landscaping.

Action 4.2.B The City will promote stormwater reuse and allow for internal building water re-use as permitted in the building code.

Action 4.2.C The City will provide rebates or incentives for installing water efficient appliances and Smart Irrigation when available.

Goal #5: Fridley residents and businesses are aware of Fridley's water resources and engaged in their protection.

Issue 5.1 The City of Fridley completes its education and outreach through the City's bi-monthly newsletter, social media, Springbrook Nature Center, and at community events. Audience numbers can be found in the City's MS4 reports. Common topics include illicit discharge prevention, lawn care, and Smart Salting. A variety of educational and outreach strategies are needed to increase awareness of Fridley's water resources and support positive behavior change.

Action 5.1.A The City will partner with watershed partners to continue existing educational activities and evaluate new outreach tactics to equitably engage all citizens.

Action 5.1.C See Corrective Action 1.3.E

Action 5.1.B See Corrective Action 3.1.A

Goal #6: The City will be resilient against the impacts of climate change, including the increased frequency of heavy rainfall events.

Issue 6.1 The increased frequency and intensity of large rain storms associated with climate change may require additional capacity to manage, store, and treat stormwater. In order to most accurately size stormwater management infrastructure for increased levels of precipitation, the City utilizes the National Oceanic and Atmospheric Administration's (NOAA) Atlas 14 precipitation data as its design

standard, since Atlas 14 estimations have a higher level of confidence than previous standards. The City also encourages increased stormwater treatment capacity through the capital investment projects and public-private projects described elsewhere in this Plan.

The City must also prepare for the potential impacts of drought which could affect the City's drinking water supply. The City's water conservation and protection initiatives are described in the Wellhead Protection Plan and Water Supply Plan.

Action 6.1.A The City will adjust design standards based on evolving climate data and best practices.

Action 6.1.B The City will update and enact the City of Fridley's Emergency Operations Plan to address impacts from climate change and extreme weather events.

Action 6.1.C The City will evaluate the installation of monitoring devices within stormwater infrastructure to better predict and respond to flooding during severe weather events.

Action 6.1.D The City will evaluate Fridley's codes every three years to identify opportunities to increase resiliency, greening and promote low-impact development.

5.2 Potential Issues

In the future, the City is anticipating that the following new issues will arise and need to be addressed:

Future Issue 1.0 Legacy chloride contamination may negatively impact water quality.

Action 1.1 The City will focus on preventing chloride contamination by implementing Smart Salting Best Management Practices

Future Issue 2.0 Chemicals of Emerging Concern may impact water quality and contaminate stormwater pond sediments

Action 2.1 The City will partner with watershed districts and other appropriate agencies to monitor for Chemicals of Emerging Concern

Action 2.2 The City will utilize the SWAMP program to manage and budget for the proper disposal of stormwater pond sediments

Future Issue 3.0 Unpredicted impacts of climate change may alter weather events and cause damage to infrastructure

Action 3.1 The City will continue to utilize the most relevant modeling data when reviewing and designing stormwater infrastructure.

Action 3.2 The City will evaluate the opportunity to integrate “Smart” infrastructure into the stormsewer system where feasible.

5.3 Policies

The following are the City’s policies when implementing the above corrective actions:

1. Work in partnership with other agencies to achieve efficiencies and achieve higher levels of water quality treatment.
2. Streamline processes and promote consistency to minimize public and private expenditures and allow for innovation.
3. Look for opportunities to integrate GreenStep Cities Best Practices, greening, habitat improvements, stormwater reuse, and other co-benefits in both public and private development.
4. Promote low-impact design, through comprehensive site planning, shared parking facilities, and other strategies to reduce impervious surface.
5. Utilize regional treatment to address issues where on-site detention is not feasible or appropriate.
6. Encourage groundwater recharge where feasible and appropriate.
7. Utilize the Development Review Committee, comprised of staff from multiple departments, to review redevelopment projects for improvements to stormwater treatment.

The following list was developed to identify and prioritize feasibility analyses and projects that would benefit Fridley's water quantity and quality for inclusion within the City's long term planning efforts, Capital Investment Program, and external grant applications. This list is not exclusive; additional projects, can be found in other reports including the Southwest Urban Lakes Study Phase 1 report, the Coon Creek, Watershed District WRAPs, and the Watershed Management Plans of the City's Watershed partners. This list is to be reviewed and updated annually in consultation with Watershed partners.

	Project Description	Action Number(s)	Potential Partners	Benefit (S=Safety, R=Regulatory, C=Cost-Effectiveness, L=Increased Level of Service)	Feasibility Study Needed	Proposed Cost By Year[\$Thousands]*										
						2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	10-Year Total Cost Estimate
						829	1,366	915	1,866	634	1,031	1,060	1,291	764	951	10,707
	Watershed Management and BMP Implementation															
0	BMPs Construction water quality and quantity improvement projects during future reconstruction projects or a stand alone projects															
1	CCWD TMDL Projects: Construct water quality and quantity improvements during future reconstruction projects or complete stand alone projects to address Springbrook Creek Total Phosphorus and <i>E.coli</i> / TMDLs	1.1.A; 1.3.B; 2.1.A	CCWD (technical assistance, financial assistance, educational assistance), DNR (financial assistance), Met Council (financial assistance), ACD (financial assistance, technical assistance, educational assistance), MPCA (financial assistance), other agencies (financial assistance)	R	X			200						100		300

2	Springbrook Nature Center Channel Flood Reduction: Construct a channel improvement to improve flood resistance of properties upstream (e.g. Springbrook Apartments).	1.1.A; 2.1.A	CCWD (technical assistance)	S, L	X	30													30
3	Riverview Terrace Flood Protection: Construct a hard surface trail on the west side of Riverview Terrace from 79th Way to Kimball Street a grade such that it could be used to support temporary augmented flood protection in extreme River flooding events	1.1.A; 2.1.A	CCWD (technical assistance); DNR (financial assistance); other partners (financial assistance for trail)	S, L			100												100
4	Apex Pond Retrofit: Expand pond capacity and improve water quality treatment and flood response	1.1.A; 2.1.A	CCWD (technical assistance; financial assistance)	S, R	X			40											40
5	Springbrook Creek Conveyance Improvements: Improve flood resistance of properties in area between East River Road and BNSF railroad by reconstruction of culverts and channel improvements.	1.1.A; 2.1.A	CCWD (technical assistance; financial assistance; education and outreach)	S, L			20												20
6	Springbrook Railroad Culvert Modifications: If feasible, modify culvert under BNSF railroad to maintain capacity currently limited by sedimentation.	1.1.A; 2.1.A	CCWD (technical assistance; financial assistance); BNSF Railroad	S, L	Y			10											10
7	Springbrook Nature Center Pond Sediment Removal: remove accumulated sediment from main ponds at Springbrook Nature Center located upstream of Weir C	1.1.A; 2.1.A	CCWD (technical assistance; financial assistance; education and outreach); DNR	R, L												400			400
8	Springbrook Nature Center 83rd Avenue Conveyance Improvements: Improve/maintain 83rd Avenue Channel to Springbrook pond system.	1.1.A; 2.1.A	CCWD (technical assistance; financial assistance)	S, L	X											50			50

9	Northtown Drainage Improvements: Work in collaboration with the Cities of Blaine and Spring Lake Park to implement a stormwater management solution at Northtown Mall that will reduce peak flows and improve water quality incoming to Springbrook Nature Center	1.1.A; 2.1.A	CCWD (technical assistance; financial assistance; project management); City of Spring Lake Park; City of Blaine (financial assistance)	R, C, L	X													150		250
10	Craig Park Drainage Improvements: In conjunction with Fridley Recreation, establish stormwater storage and control at Craigbrook Park	1.1.A; 2.1.A	CCWD (technical assistance; financial assistance; education and outreach)	R, C, L	X			50												50
11	Stonybrook Creek Flood Improvements: Improve the conveyance of Stonybrook Creek and alleviate flooding in the vicinity of Beech Street and 78th Avenue Northeast	1.1.A; 2.1.A	CCWD (technical assistance; financial assistance); anoka County Highway Department (financial assistance)	S			150													150
12	Stonybrook Creek Upstream Improvements: work with City of Spring Lake Park and CCWD to reduce and control peak flows crossing University Ave	1.1.A; 2.1.A	CCWD (technical assistance; financial assistance); Spring Lake Park (financial assistance)	S, L	X			20												20
13	Oak Glen Creek West Drainage Improvements: rehabilitate drainage along the BNSF right of way between two properties located north of 73rd Avenue and improve drainage along Commerce Lane	1.1.A; 2.1.A	CCWD (technical assistance; financial assistance); local businesses (financial assistance; easements)	S, L			210	80	50											340
14	Oak Glen Creek Commerce Lane Improvements: reduce peak flows and improve water quality between Commerce Lane and University Avenue	1.1.A; 2.1.A	CCWD (technical assistance; financial assistance)	R, C, L	X											100				100

26	RCWD TMDL WQ Projects: Construct water quality and quantity improvements during future reconstruction projects or complete stand alone projects to address Upper Mississippi TMDL for <i>E. Coli</i> and impairment of Rice Creek for Aquatic Life and Aquatic Recreation including, but not limited to, projects listed in the Southwest Urban Lakes Report Locke Lake Management Action Plan.	1.1.A; 1.3.C; 2.1.A; 2.1.B	RCWD (technical assistance, financial assistance, educational assistance), DNR (financial assistance), Met Council (financial assistance), ACD (financial assistance, technical assistance, educational assistance), MPCA (financial assistance), other agencies (financial assistance)	R, C, L	X									100					100	
27	Moore Lake WQ Projects: Construct water quality and quantity improvements during future reconstruction projects or complete stand alone projects to address Southwest Urban Lakes TMDL for nutrients and impairment for Aquatic Life including, but not limited to, projects listed in the <i>Southwest Urban Lakes Report Moore Lake Management Action Plan</i>	1.1.A; 2.1.A	RCWD (technical assistance, financial assistance, educational assistance), DNR (financial assistance), Met Council (financial assistance), ACD (financial assistance, technical assistance, educational assistance), MPCA (financial assistance), other agencies (financial assistance)	R, C, L	X									250					250	500

28	Locke Lake WQ Projects: Construct water quality and quantity improvements during future reconstruction projects or complete stand alone projects to addressSouthwest Urban Lakes TMDL for phosphorus and impairment for Aquatic Recreation and Aquatic Life including, but not limited to, projects listed in the <i>Southwest Urban Lakes Report Pike Lake Management Action Plan</i>	1.1.A; 2.1.A	RCWD (technical assistance, financial assistance, educational assistance), DNR (financial assistance), Met Council (financial assistance), ACD (financial assistance, technical assistance, educational assistance), MPCA (financial assistance), other agencies (financial assistance)	R, C, L	X														200				200	
29	Locke Lake dredging: This project would remove sediment from Locke Lake, an impoundment along Rice Creek. The project would include a preliminary bathymetric survey to determine proper timing for sediment removal	1.1.A; 1.1.B; 2.1.A	RCWD (technical assistance, financial assistance); DNR (permitting)	C, L															100				100	
30	Locke Lake dam upgrade: Update dam to allow for automated monitoring and control, general repairs	2.1.A	RCWD (technical assistance, financial assistance); DNR (permitting)	S, L															35				200	235

31	Mississippi Stormwater Pumping Station Rehabilitation Project: Rehabilitate and reconstruct the City's stormwater pumping station located near the underpass at Mississippi Street and the BNSF railroad. Potential for stormwater reuse and water quality improvements would be evaluated and included if feasible as a part of this project	1.1.A; 2.1.A	RCWD (technical assistance, financial assistance);BNSF Railroad (technical assistance, financial assistance; Anoka County (technical assistance, financial assistance)	S, C																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								</
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35	Norton Creek Improvements: Reduce peak flows, improve water quality a, and reduce erosion along Norton creek north of the Minnesota commercial railroad crossing and at 73rd between Highway 65 and Central; reduce flows from east and north entering the conveyance system	1.1.A; 2.1.A	RCWD (technical assistance, financial assistance, project management); Railroad; Private Property Owners	S, R, C, L	X							900						900
36	69th Avenue Water Quality Improvements: Reduce pavement and provide water quality improvements along 69th Avenue from Central Avenue to the eastern city limits	1.1.A; 2.1.A	RCWD (technical assistance, financial assistance, education and outreach)	R, L								120						120
37	Shamrock Lane Stormwater Pond Optimization: Evaluate storage of the Shamrock Lane pond in attempt to optimize both area of treatment and efficiency	1.1.A; 2.1.A	RCWD (technical assistance, financial assistance, education and outreach)	R, L	X								50					50
38	BNSF Drainage Improvements near 61st Avenue: Provide storage and mitigate flows from BNSF property onto streets (Alden Way) and private property (Sylvan Hills) north of 61 st Avenue	1.1.A; 2.1.A	MWMO (technical assistance; financial assistance); BNSF Railroad	S, L									50					50
39	Sylvan Park Stormwater Drainage Improvements: Evaluate opportunity for stormwater storage and treatment at Sylvan Park at Rainbow Drive and Jupiter Road	1.1.A; 2.1.A	MWMO (technical assistance, financial assistance, education and outreach)	S, R, L	X											20		20

44	Moore Lake Park Water Quality Improvements: Install BMPs identified in the Moore Lake Park Master Plan, including reducing pervious surface and treatment of reconfigured main parking lot runoff, reestablishing a wetland that accepts discharge from the north parking lot, installation of native vegetation buffer, and treatment of the inlet channel flow into the lake at the south end of the main parking lot	1.1.A; 2.1.A	RCWD (technical assistance, financial and outreach)	C, L	X											190								190
45	Mississippi Street Water Quality Improvements: Install a detention or retention system on private property south of Mississippi Street and approximately 600' east of Central Avenue. A preliminary analysis has been performed	1.1.A; 2.1.A	RCWD (technical assistance, financial and outreach); Private Property Owners	R, L	X											300								300
46	Rice Creek Road Wetland Restoration: Restore a historic wetland north of Rice Creek Road and east of Central Avenue	1.1.A; 2.1.A	RCWD (technical assistance, financial and outreach); private property owners	R, L	X											100								100
47	Harris Pond Optimization: Analyze improvements to Harris Pond, a constructed impoundment, to optimize its effectiveness and improve the quality of the water discharging from the Pond	1.1.A; 2.1.A	RCWD (technical assistance, financial and outreach); Private Property Owners	R, L	X											130								130

48	BASFU Retrofit: Retrofit the Biologically Activated Stormwater Filtration Unit that was designed and installed near Pierce Drive south of Lynde Avenue in the 1980s. The project may include upgrading the existing stormwater pond adjacent to the BASFU as well. A preliminary analysis is complete and under evaluation	1.1.A; 2.1.A	RCWD (technical assistance, financial assistance, education and outreach)	R, L	X												200						200
49	Danube Pond Sediment Removal: Replenish storage in a series of stormwater wetlands in the vicinity of the Danube Roads. An initial project was completed in 2015, a second project is being permitted	1.1.A; 2.1.A	RCWD (technical assistance)	R, L													20						20
50	2018 Road Reconstruction Project: Improvements to stormwater drainage system along 69th Avenue and near the new Civic Campus	1.1.A; 2.1.A	RCWD (technical assistance, financial assistance, education and outreach)	R, C, L													60						60
51	2022 Road Reconstruction Project: Improvements to stormwater drainage system within Black Forest, Sound Innsbruck and Marian Hills neighborhoods	1.1.A; 2.1.A	RCWD (technical assistance, financial assistance, education and outreach); MWMO (technical assistance, financial assistance, education and outreach);	R, C, L																			65
52	2028 Road Reconstruction Project: Improvements to stormwater drainage system within Brookview Creekridge, and Oak Grove neighborhoods	1.1.A; 2.1.A	RCWD (technical assistance, financial assistance, education and outreach)	R, C, L																			75
																							75

60	Regional Treatment: The City will evaluate opportunities to install regional treatment systems and stormwater best management practices in public spaces and right-of-ways in areas in areas identified in H&H modeling and sub-watrshed assessments as suitable for providing regional treatment, dependent on availability of land and financial feasibility.	1.3.B	Watershed Districts (technical assistance, financial assistance, educational assistance); Private Property Owners (financial assistance, easements)	R, C, L	X																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						</
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78	Salt Usage: The City will monitor salt use and adjust equipment and operations to decrease chloride application while maintaining safe winter driving conditions.	1.2.C; Future 1.1	MPCA; Watershed Districts (financial assistance, educational assistance)	R		120		20	20	20	20	20	20	20	200
79	Training: Provide staff annual training on illicit discharge inspection; provide all new relevant staff training on salt application and fertilizer use	1.1.B; 1.2.A; 1.2.B	Watershed Districts (technical assistance)	R, C, L		4	4	4	4	4	4	4	4	4	40
80	Street Sweeping: Sweep streets twice annually, clear inlets as needed	1.1.B		R, C, L		280	50	50	50	240	50	50	50	50	920
81	Inspections 20% of stormwater ponds and MS4 outfalls each year; annually inspect all pollution control devices and exposed stock piles	1.1.B		R, C, L		4	4	4	4	4	4	4	4	4	40
82	Illicit Discharge: Maintain and submit annual inspection reports, maintenance records, and other documentation in conformance with NPDES permit	1.1.B	Watershed Districts (technical assistance)	R, C, L		6	6	6	6	6	6	6	6	6	60
83	Enforcement: Develop and coordinate enforcement procedures in coordination with watershed districts to ensure that privately held maintenance agreements are followed	1.4.C	Watershed Districts (technical assistance)	R, C, L		5	5	5	5	5	5	5	5	5	50

Education and Outreach

84	Education: Continue water resource and stormwater education program	1.1.D; 1.3.E; 5.1.A	Watershed Districts (educational assistance)	R, C, L		5	5	5	5	5	5	5	5	5	50
85	Targeted Education: Encourage property owners along shoreland properties to plant natively vegetated buffers through targeted education	3.1.A	Watershed Districts (educational assistance; technical assistance, financial assistance); ACD (technical assistance)	R, C, L		2		2							10

86	Salt Usage: The City will work with its partners to educate residents and businesses on proper salt application.	1.2.D	Watershed Districts (educational assistance); ACD (educational assistance)	R, C, L	2		2		2		2		2		10
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Programmatic Response

87	Stormwater Utility Fee: Evaluate the stormwater utility fee annually to ensure ability to maintain stormwater management infrastructure ; Evaluate feasibility of incentivizing installation of stormwater BMPs through utility fees	1.3.E	MWMO (technical assistance), Watershed Districts (educational assistance; financial assistance)	C, L		20									20
88	Water Conservation: Allow for internal building water re-use as permitted in the building code.	4.2.B	Watershed Districts (educational assistance; technical assistance); Met Council (technical assistance)	L			5								5
89	Water Conservation: Provide rebates or incentives for installing water efficient appliances, smart irrigation, and stormwater reuse when feasible	4.2.C	Met Council (technical assistance)	L	10				10					10	30
90	Wellhead Protection: Partner with Anoka County to continue well sealing program	4.1.C	Anoka County (technical assistance, financial assistance)	S, R, L	4	4	4	4	4	4	4	4	4	4	40
91	WHP Group: Participate in the Anoka County Municipal Wellhead Protection Group and coordinate with neighboring communities included within Fridley's DWSMA regarding wellhead protection.	4.1.D	Anoka County (program management)	S, R, L	2	2	2	2	2	2	2	2	2	2	20

92	Regulation: Require pre- and post- construction stormwater controls as part of land alteration permits.	1.1.C	Watershed Districts (educational assistance)	R, L		2					2					2		6
93	Regulation: Update Chapter 208 of City Code to include MWMO Standards, include MIDS, reference the Minnesota Stormwater Manual by reference, and integrate the Minnesota Department of Health's guidelines for stormwater management in Drinking Water Surface Management Areas	1.1.C; 4.1.A; 4.1.B	MWMO	R, L		10					4					4		18
94	Regulation: Continue to rely on CCWD and RCWD to implement their regulatory standard within their jurisdictions, with coordinated additions from City Chapter 208.	1.1.C	CCWD; RCWD	R, L		2												2
95	Regulation: Review codes related to water planning every three years to determine adequacy	6.1.C	Watershed Districts (technical assistance)	R		4				4							4	16
96	Regulation: Update the Critical Area overlay ordinance for consistency with updated MRCCA rules and to promote establishment of native vegetation	3.1.D	DNR (technical assistance)	R					4							4		12
97	Regulation: Update the City Code to promote water-efficient landscaping	4.1.C	Watershed Districts (technical assistance)	L					2								2	6
98	Emergency Action: The City will update and enact the City of Fridley's Emergency Operations Plan to address impacts from climate change and extreme weather events.	6.1.B	DNR (technical assistance)	S, R, L					4							4		12

99	Floodplain Management: The City will update and enact the City of Fridley's Floodplain Ordinance to address impacts from climate change and extreme weather events.	6.1.B	DNR (technical assistance); Watershed Districts (technical assistance)	S, R, L			2				2				2			6
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* Cost estimates are preliminary and subject to review and revision as more information becomes available.

ITEMS REQUIRING BOARD ACTION

10. Consider Check Register dated April 24, 2019, in the amount of \$296,400.00 prepared by Redpath and Company.

Rice Creek Watershed District
Check Register
April 11, 2019 - April 24, 2019
To Be Approved at the April 24, 2019 Board Meeting

Check #	Date	Payee	Description		
22867	04/24/19	City of St. Anthony	Construction Expense	\$2,471.88	Issued 4/10/19
22868	04/24/19	Allstream	Telecommunications	817.88	
22869	04/24/19	Kyle Axtell	Employee Reimbursement	48.14	
22870	04/24/19	Beisswenger's Do It Best	Supplies-Field	135.60	
22871	04/24/19	Philip Belfiori	Employee Reimbursement	173.80	
22872	04/24/19	Blaine Associates, Inc.	Rent	6,444.40	
22873	04/24/19	Michael J. Bradley	Manager Per Diem/Expense	476.64	
22874	04/24/19	Carp Solutions	Professional Services	12,394.20	
22875	04/24/19	Elizabeth H. Carreno	Employee Reimbursement	543.15	
22876	04/24/19	Terrence Chastan-Davis	Employee Reimbursement	40.37	
22877	04/24/19	City of Shoreview	Training & Education	100.00	
22878	04/24/19	Computer Revolution	Professional Services	1,389.50	
22879	04/24/19	Delta Dental	Employee Benefits	1,009.90	
22880	04/24/19	Dem-Con Companies, LLC	Permit Fee Refund	210.00	
22881	04/24/19	Green Lights Recycling, Inc.	Contracted/Professional Services	311.46	
22882	04/24/19	HealthPartners	Employee Benefits	10,270.99	
22883	04/24/19	Holiday Credit	Vehicle Expense	595.83	
22884	04/24/19	Home Depot	Supplies-Field	140.67	
22885	04/24/19	Houston Engineering, Inc.	March Engineering Expense	127,464.20	
22886	04/24/19	Hubbard Electric, Inc.	Construction Expense	20,949.90	
22887	04/24/19	Instrumental Research, Inc.	Lab Expense	1,404.00	
22888	04/24/19	Iron Mountain	Professional Services	120.21	
22889	04/24/19	Matthew J. Kocian	Employee Reimbursement	16.24	
22890V	04/24/19	VOID	VOID	-	
22891	04/24/19	Catherine Nester	Employee Reimbursement	33.58	
22892	04/24/19	Office Depot	Office Supplies	739.38	
22893	04/24/19	Out Back Nursery, Inc.	Construction Expense	3,270.00	
22894	04/24/19	Premium Waters, Inc.	Meeting Supplies	72.19	
22895	04/24/19	Press Publications	Legal Notices	42.30	
22896	04/24/19	Patricia Preiner	Manager Per Diem/Expense	754.20	
22897	04/24/19	Ramsey County	Contracted Services	13,736.54	
22898	04/24/19	Redpath & Company, LTD	March Accounting	2,119.31	
22899	04/24/19	Ashlee M. Ricci	Employee Reimbursement	53.43	
22900	04/24/19	Rinke Noonan	March Legal Fees	6,313.50	
22901	04/24/19	Scandia Trucking & Excavating	Contracted Services	2,678.00	
22902	04/24/19	Doug Setley	Professional Services	225.00	
22903	04/24/19	Smith Partners	March Legal Fees	11,107.83	
22904	04/24/19	Theresa M. Stasica	Employee Reimbursement	27.84	
22905	04/24/19	St. Paul Pioneer Press	Legal Notices	790.60	
22906	04/24/19	Timesavers, Inc.	Professional Services	692.25	
22907	04/24/19	Nicholas A. Tomczik	Employee Reimbursement	206.31	
22908	04/24/19	US Geological Survey	Contracted Services	5,559.00	
22909	04/24/19	Verizon Wireless	Cell Phone Expense	672.24	
22910	04/24/19	Steven P. Wagamon	Manager Per Diem/Expense	479.38	
22911	04/24/19	Washington Conservation District	Contracted Services	1,912.86	
22912	04/24/19	We Can Help Outdoor Services, Inc.	Contracted Services	4,800.00	
22913	04/24/19	Wenck Associates, Inc.	March Engineering Expense	4,257.70	
22914	04/24/19	Met Life	Employee Benefits	787.61	

Rice Creek Watershed District
Check Register
April 11, 2019 - April 24, 2019
To Be Approved at the April 24, 2019 Board Meeting

Check #	Date	Payee	Description	
10992	04/24/19	17435A-1755, LLC	Surety Release - #10-045	1,500.00
10993	04/24/19	Galleon, LLC	Surety Release - #16-099	1,300.00
10994	04/24/19	Lake Real Estate Management, LLC	Surety Release - #17-028	2,900.00
Dir.Dep.	04/30/19	April 30th Direct Deposits	April 30th Direct Deposits	22,402.06
Dir.Dep.	04/30/19	John Waller	Manager Per Diem/Expense	681.83
EFT	04/24/19	Internal Revenue Service	04/24 Federal Withholding	229.48
EFT	04/24/19	Minnesota Dept. of Revenue	04/24 State Withholding	3.90
EFT	04/24/19	Card Services	March/April Credit Card	1,626.18
EFT	04/30/19	Internal Revenue Service	04/30 Federal Withholding	8,014.99
EFT	04/30/19	Minnesota Dept. of Revenue	04/30 State Withholding	1,438.88
EFT	04/30/19	Empower Retirement	04/30 Deferred Compensation	1,751.00
EFT	04/30/19	Empower Retirement	04/30 Health Care Savings Plan	797.38
EFT	04/30/19	PERA	04/30 PERA	4,894.29
Total				<u>\$296,400.00</u>

Rice Creek Watershed District Budget Status Report
Administrative & Program Budget
Fiscal Year 2019
4/30/2019

Combined General & Administrative	Budget Item	Account Number	Original Budget	Budget Adjustment	Current Month Expenses	Year-to-Date Expenses	Current Budget Balance	Percent of Budget
Manager	Per diems	4000	\$15,000.00	-	\$2,100.00	\$5,700.00	\$9,300.00	38.00%
	Manager expenses	4010	4,500.00	-	500.54	1,712.26	2,787.74	38.05%
Committees	Committee/Bd Mtg. Exp.	4800	-	-	-	-	-	-
Employees	Staff salary/taxes/benefits	4100-4140	182,569.00	-	16,026.09	63,697.84	118,871.16	34.89%
	District training & education	4265	5,439.00	-	100.00	500.00	4,939.00	9.19%
	Employee expenses	4320-4321	1,683.00	-	65.54	172.42	1,510.58	10.24%
Administration/ Office	Office/Meeting/Software	4200-4205	3,272.00	-	288.46	691.61	2,580.39	21.14%
	Printing	4208	525.00	-	-	-	525.00	0.00%
	Rent/Office	4210	18,146.00	-	1,442.26	5,769.04	12,376.96	31.79%
	Telecommunications	4240	4,624.00	-	408.65	1,202.28	3,421.72	26.00%
	Dues	4245	9,490.00	-	-	7,500.00	1,990.00	79.03%
	Publications	4250	210.00	-	-	-	210.00	0.00%
	Insurance	4270	5,785.00	-	-	6,444.65	(659.65)	111.40%
	Postage	4280	1,155.00	-	-	-	1,155.00	0.00%
	Legal Notices	4290	10,000.00	-	-	-	10,000.00	0.00%
	Office Equipment/Lease	4635	3,142.00	-	55.95	556.92	2,585.08	17.73%
	Bank Charges	4910	-	-	-	17.00	(17.00)	-
	Sub-Total-Administration:		265,540.00	-	20,987.49	93,964.02	171,575.98	35.39%
Consultants	Auditor/Accounting	4330	70,929.00	-	2,119.31	17,321.83	53,607.17	24.42%
	Legal	4410	30,161.00	-	4,846.94	8,666.84	21,494.16	28.74%
	Consultants/Professional Serv.	4420	10,000.00	-	917.25	2,111.75	7,888.25	21.12%
	Engineering-General	4500	60,000.00	-	3,400.00	10,200.00	49,800.00	17.00%
	Sub-Total-Consultants:		171,090.00	-	11,283.50	38,300.42	132,789.58	22.39%
TOTAL			\$436,630.00	-	\$32,270.99	\$132,264.44	\$304,365.56	30.29%

Rice Creek Watershed District Budget Status Report
Administrative & Program Budget
Fiscal Year 2019
4/30/2019

Revenue/Expenditures By Project	2019 Budget	2019 Year to date Revenue	2019 Current Month Expense	2019 Year to date Expense	Current Budget Balance	Percent of Budget
10 - General and Administrative	\$436,630.00	\$152,496.73	\$32,270.99	\$132,264.44	\$304,365.56	30.29%
30 - Environmental Education	154,468.00	51,831.55	8,369.94	42,299.04	112,168.96	27.38%
35 - Information Management	224,275.00	75,634.63	5,268.26	36,448.24	187,826.76	16.25%
60 - Restoration Projects	2,015,238.00	765,940.51	26,757.26	225,467.89	1,789,770.11	11.19%
70 - Regulatory	1,338,155.00	423,639.25	120,753.70	365,094.60	973,060.40	27.28%
80 - Ditch & Creek Maintenance	1,556,214.00	522,189.10	48,710.96	173,836.01	1,382,377.99	11.17%
90 - Lake & Stream Management	1,420,050.00	321,263.13	82,423.72	170,359.70	1,249,690.30	12.00%
95 - District Facilities	200,000.00	67,184.81	9,483.30	18,263.27	181,736.73	9.13%
Total District Revenue/Expenditures	\$7,345,030.00	\$2,380,179.71	\$334,038.13	\$1,164,033.19	\$6,180,996.81	15.85%

Current Fund Balances:

Fund:	Fund Balance @ 12/31/2018	2019 Fund Balance Transfers	2019 Year to date Revenue	2019 Current Month Expense	2019 Year to date Expense	Fund Balance @ 4/30/2019
10 - General Fund	\$159,106.42	-	\$152,496.73	\$32,270.99	\$132,264.44	\$179,338.71
30 - Environmental Education	99,457.00	-	51,831.55	8,369.94	42,299.04	108,989.51
35 - Information Management	157,520.00	-	75,634.63	5,268.26	36,448.24	196,706.39
60 - Restoration Projects	3,105,470.00	-	765,940.51	26,757.26	225,467.89	3,645,942.62
70 - Regulatory	474,285.00	-	423,639.25	120,753.70	365,094.60	532,829.65
80 - Ditch & Creek Maintenance	479,117.00	-	522,189.10	48,710.96	173,836.01	827,470.09
90 - Lake & Stream Management	2,766,918.00	-	321,263.13	82,423.72	170,359.70	2,917,821.43
95 - District Facilities	964,959.00	-	67,184.81	9,483.30	18,263.27	1,013,880.54
Total District Fund Balance:	\$8,206,832.42	-	\$2,380,179.71	\$334,038.13	\$1,164,033.19	\$9,422,978.94

Rice Creek Watershed District
Statement of Revenue and Expenditures - General Fund - 10
For the One Month and Four Months Ending April 30, 2019
No Assurance Is Provided On These Financial Statements

	Current Month	Year to Date	Annual Budget	Over/(Under) Budget
<u>GENERAL FUND</u>				
Revenues				
General Property Tax	\$ 34,606.17	\$ 138,424.68	415,724.00	(277,299.32)
Interest Revenue	0.00	2,495.00	4,580.00	(2,085.00)
Investment Interest-Surety	0.00	10,169.55	16,326.00	(6,156.45)
Miscellaneous Revenue	0.00	1,407.50	0.00	1,407.50
Total Revenues	34,606.17	152,496.73	436,630.00	(284,133.27)
Expenses				
Manager Per Diem	2,100.00	5,700.00	15,000.00	(9,300.00)
Manager Expense	0.00	336.50	2,000.00	(1,663.50)
Manager Travel	500.54	1,375.76	2,500.00	(1,124.24)
Wages-General	11,064.08	44,256.31	0.00	44,256.31
Compensated Absences	0.00	0.00	132,008.00	(132,008.00)
Benefits	2,376.70	9,257.26	18,864.00	(9,606.74)
PERA Expense	829.80	3,319.23	9,901.00	(6,581.77)
HSA Contributions	797.38	3,239.02	9,697.00	(6,457.98)
Payroll Taxes	958.13	3,626.02	10,099.00	(6,472.98)
Payroll Taxes-Unemployment	0.00	0.00	2,000.00	(2,000.00)
Office Supplies	216.27	456.92	2,022.00	(1,565.08)
Supplies-Field	0.00	0.00	250.00	(250.00)
Meeting Supplies/Expense	72.19	234.69	1,000.00	(765.31)
Printing	0.00	0.00	525.00	(525.00)
Rent	1,442.26	5,769.04	18,146.00	(12,376.96)
Telecommunications	408.65	1,202.28	4,624.00	(3,421.72)
Dues	0.00	7,500.00	9,490.00	(1,990.00)
Publications	0.00	0.00	210.00	(210.00)
Training & Education	100.00	500.00	5,439.00	(4,939.00)
Insurance & Bonds	0.00	6,444.65	5,785.00	659.65
Postage	0.00	0.00	1,155.00	(1,155.00)
Legal Notices-General	0.00	0.00	10,000.00	(10,000.00)
Staff Travel	65.54	172.42	1,683.00	(1,510.58)
Audit & Accounting	2,119.31	17,321.83	70,929.00	(53,607.17)
Professional Services-General	917.25	2,111.75	10,000.00	(7,888.25)
Legal Fees-General	4,846.94	8,666.84	30,161.00	(21,494.16)
Engineering-General	3,400.00	10,200.00	60,000.00	(49,800.00)
Equipment-General	0.00	0.00	1,000.00	(1,000.00)
Equipment Lease	55.95	556.92	2,142.00	(1,585.08)
Bank Charges	0.00	17.00	0.00	17.00
Total Expenses	32,270.99	132,264.44	436,630.00	(304,365.56)
Total Revenues Over/(Under) Expenditures - General Fund	2,335.18	20,232.29	0.00	20,232.29
Total Revenue Over/(Under) Expenditure	\$ 2,335.18	20,232.29	0.00	20,232.29

Substantially all disclosures required by generally accepted accounting principles are not included.

Rice Creek Watershed District
Statement of Revenue and Expenditures - Environmental Education - 30
For the One Month and Four Months Ending April 30, 2019
No Assurance Is Provided On These Financial Statements

	Current Month	Year to Date	Annual Budget	Over/(Under) Budget
<u>ENVIRONMENTAL EDUCATION MANAGEMENT - 30-00</u>				
Revenues				
General Property Tax	\$ 9,128.92	\$ 36,515.68	109,547.00	(73,031.32)
Interest Income	0.00	882.51	0.00	882.51
Investment Income	0.00	0.00	1,620.00	(1,620.00)
Total Revenues	9,128.92	37,398.19	111,167.00	(73,768.81)
Expenses				
Wages-Environmental	5,235.44	20,941.76	62,825.00	(41,883.24)
Benefits-Environmental	565.02	2,534.92	15,339.00	(12,804.08)
PERA-Environmental	392.66	1,570.64	4,712.00	(3,141.36)
Payroll Taxes-Environmental	345.55	1,382.22	4,806.00	(3,423.78)
Office Supplies	90.74	179.95	867.00	(687.05)
Printing	0.00	0.00	225.00	(225.00)
Rent	605.13	2,420.52	7,777.00	(5,356.48)
Telecommunications	140.39	411.10	1,982.00	(1,570.90)
Publications	0.00	0.00	90.00	(90.00)
Training & Education	0.00	0.00	2,331.00	(2,331.00)
Insurance and Bonds	0.00	2,664.13	2,479.00	185.13
Postage	0.00	0.00	495.00	(495.00)
Staff Travel	92.80	394.98	721.00	(326.02)
Professional Services	0.00	0.00	2,500.00	(2,500.00)
Legal Fees	0.00	0.00	600.00	(600.00)
Engineering-Environ.	0.00	0.00	1,500.00	(1,500.00)
Equipment-Environmental	0.00	0.00	1,000.00	(1,000.00)
Equipment-Lease	23.47	233.65	918.00	(684.35)
Total Expenses	7,491.20	32,733.87	111,167.00	(78,433.13)
Total Revenues Over/(Under)				
Expenditures - Environmental Education	1,637.72	4,664.32	0.00	4,664.32
<u>WATER EDUCATION & OUTREACH - 30-02</u>				
Revenues				
General Property Tax	1,941.67	7,766.68	23,300.00	(15,533.32)
Total Revenues	1,941.67	7,766.68	23,300.00	(15,533.32)
Expenses				
Office Supplies	110.71	110.71	0.00	110.71
Meeting Supplies/Expense	0.00	19.86	1,000.00	(980.14)
Printing	0.00	313.77	3,000.00	(2,686.23)
Training & Education	672.37	710.37	15,300.00	(14,589.63)
Contracted Services	0.00	0.00	4,000.00	(4,000.00)
Total expenses	783.08	1,154.71	23,300.00	(22,145.29)
Total Revenues Over/(Under)				
Expenditures - Water Educ. & Outreach	1,158.59	6,611.97	0.00	6,611.97

Substantially all disclosures required by generally accepted accounting principles are not included.

Rice Creek Watershed District
Statement of Revenue and Expenditures - Environmental Education - 30
For the One Month and Four Months Ending April 30, 2019
No Assurance Is Provided On These Financial Statements

	Current Month	Year to Date	Annual Budget	Over/(Under) Budget
<u>OUTREACH PARTNERSHIP - 30-04</u>				
Revenues				
General Property Tax	1,666.67	6,666.68	20,000.00	(13,333.32)
Total Revenues	1,666.67	6,666.68	20,000.00	(13,333.32)
Expenses				
Meeting Supplies	50.31	191.51	500.00	(308.49)
Training & Education	45.35	5,718.95	8,000.00	(2,281.05)
Contracted Services	0.00	2,500.00	11,500.00	(9,000.00)
Total expenses	95.66	8,410.46	20,000.00	(11,589.54)
Total Revenues Over/(Under)				
Expenditures - Outreach	1,571.01	(1,743.78)	0.00	(1,743.78)
Total Revenue Over/(Under) Expenditure	\$ 4,367.32	\$ 9,532.51	0.00	9,532.51

Rice Creek Watershed District
Statement of Revenue and Expenditures - Information & Technology Management - 35
For the One Month and Four Months Ending April 30, 2019
No Assurance Is Provided On These Financial Statements

	Current Month	Year to Date	Annual Budget	Over/(Under) Budget
<u>INFORMATION MANAGEMENT - 35-00</u>				
Revenues				
General Property Tax	\$ 7,526.92	\$ 30,107.68	90,323.00	(60,215.32)
Interest Revenue	0.00	1,281.29	2,352.00	(1,070.71)
Miscellaneous Income	0.00	378.98	0.00	378.98
Total Revenues	7,526.92	31,767.95	92,675.00	(60,907.05)
Expenses				
Wages-Information Mgmt.	2,822.58	12,710.29	33,472.00	(20,761.71)
Benefits-Information Mgmt.	83.85	361.00	4,896.00	(4,535.00)
PERA-Information Mgmt.	211.69	852.30	2,510.00	(1,657.70)
Payroll Taxes-Information Mgmt	211.19	850.39	2,561.00	(1,710.61)
Office Supplies	11.50	22.80	96.00	(73.20)
Computer Software	0.00	701.58	1,800.00	(1,098.42)
Printing	0.00	0.00	25.00	(25.00)
Rent	76.69	306.76	864.00	(557.24)
Telecommunications	17.79	52.10	220.00	(167.90)
Publications	0.00	0.00	10.00	(10.00)
Training & Education	0.00	0.00	259.00	(259.00)
Insurance and Bonds	0.00	337.63	275.00	62.63
Postage	0.00	0.00	55.00	(55.00)
Staff Travel	0.00	0.00	80.00	(80.00)
Vehicle Expense	0.00	0.00	26,900.00	(26,900.00)
Professional Services	1,389.50	6,427.40	0.00	6,427.40
Engineering	0.00	6,626.75	0.00	6,626.75
Equipment-Computer	0.00	0.00	17,548.00	(17,548.00)
Equipment-Information	0.00	0.00	1,000.00	(1,000.00)
Equipment Lease	2.97	29.59	104.00	(74.41)
Total Expenses	4,827.76	29,278.59	92,675.00	(63,396.41)
Total Revenues Over/(Under) Expenditures - Information Management	2,699.16	2,489.36	0.00	2,489.36
<u>INFORMATION MANAGEMENT - 35-05</u>				
Revenues				
General Property Tax	10,966.67	43,866.68	131,600.00	(87,733.32)
Total Revenues	10,966.67	43,866.68	131,600.00	(87,733.32)
Expenses				
Legal Fees	0.00	5,902.15	10,000.00	(4,097.85)
Engineering	440.50	1,267.50	121,600.00	(120,332.50)
Total expenses	440.50	7,169.65	131,600.00	(124,430.35)
Total Revenues Over/(Under) Expenditures - Information Mgmt.	10,526.17	36,697.03	0.00	36,697.03
Total Revenue Over/(Under) Expenditure	\$ 13,225.33	\$ 39,186.39	0.00	39,186.39

Substantially all disclosures required by generally accepted accounting principles are not included.

Rice Creek Watershed District
Statement of Revenue and Expenditures - Restoration Projects - 60
For the One Month and Four Months Ending April 30, 2019
No Assurance Is Provided On These Financial Statements

	Current Month	Year to Date	Annual Budget	Over/(Under) Budget
<u>RESTORATION PROJECT MANAGEMENT - 60-00</u>				
Revenues				
General Property Tax	\$ 7,829.92	\$ 31,319.68	93,959.00	(62,639.32)
Interest Revenue	0.00	11,515.18	21,138.00	(9,622.82)
Total Revenues	7,829.92	42,834.86	115,097.00	(72,262.14)
Expenses				
Wages-Restoration Projects	9,343.58	37,374.34	109,153.00	(71,778.66)
Benefits-Restoration Projects	554.61	2,228.88	14,372.00	(12,143.12)
PERA-Restoration Projects	700.76	2,803.05	8,153.00	(5,349.95)
Payroll Taxes-Restoration	685.76	2,743.03	8,350.00	(5,606.97)
Office Supplies	65.32	224.45	770.00	(545.55)
Printing	0.00	0.00	200.00	(200.00)
Rent	435.64	1,742.56	6,913.00	(5,170.44)
Telecommunications	157.66	465.96	1,762.00	(1,296.04)
Publications	0.00	0.00	80.00	(80.00)
Training & Education	0.00	1,000.00	2,072.00	(1,072.00)
Insurance and Bonds	0.00	1,917.95	2,204.00	(286.05)
Postage	0.00	0.00	440.00	(440.00)
Staff Travel	48.14	135.72	641.00	(505.28)
Vehciel Expense	381.00	381.00	8,437.00	(8,056.00)
Professional Services	302.08	1,802.08	15,000.00	(13,197.92)
Education & Communication	0.00	0.00	2,500.00	(2,500.00)
Legal Fees	0.00	0.00	1,000.00	(1,000.00)
Engineering	0.00	0.00	6,039.00	(6,039.00)
Equipment	0.00	0.00	500.00	(500.00)
Equipment Lease	16.90	168.22	816.00	(647.78)
Total Expenses	12,691.45	52,987.24	189,402.00	(136,414.76)
Total Revenues Over/(Under)				
Expenditures - Restoration Management	(4,861.53)	(10,152.38)	(74,305.00)	64,152.62
<u>RICE CREEK MEANDER RESTORATION - 60-03</u>				
Revenues				
General Property Tax	8,259.67	33,038.68	99,116.00	(66,077.32)
Grant-Middle Rice Creek	284,052.00	284,052.00	0.00	284,052.00
Total Revenues	292,311.67	317,090.68	99,116.00	217,974.68
Expenses				
Legal Fees	0.00	0.00	10,000.00	(10,000.00)
Engineering-Rice Creek Meander	0.00	0.00	120,000.00	(120,000.00)
Construction-Rice Crk. Meander	0.00	0.00	47,500.00	(47,500.00)
Total expenses	0.00	0.00	177,500.00	(177,500.00)
Total Revenues Over/(Under)				
Expenditures - Rice Creek Meander	292,311.67	317,090.68	(78,384.00)	395,474.68

Substantially all disclosures required by generally accepted accounting principles are not included.

Rice Creek Watershed District
Statement of Revenue and Expenditures - Restoration Projects - 60
For the One Month and Four Months Ending April 30, 2019
No Assurance Is Provided On These Financial Statements

	Current Month	Year to Date	Annual Budget	Over/(Under) Budget
<u>STORMWATER REMEDIATION - 60-15</u>				
Revenues				
General Property Tax	13,960.00	55,840.00	167,520.00	(111,680.00)
Total Revenues	13,960.00	55,840.00	167,520.00	(111,680.00)
Expenses				
Legal Notices	0.00	1,371.64	2,000.00	(628.36)
Legal Fees	0.00	0.00	1,000.00	(1,000.00)
Engineering	0.00	12,177.25	17,000.00	(4,822.75)
Construction	0.00	0.00	280,000.00	(280,000.00)
Total expenses	0.00	13,548.89	300,000.00	(286,451.11)
Total Revenues Over/(Under)				
Expenditures - Stormwater Redmediatio	13,960.00	42,291.11	(132,480.00)	174,771.11
<u>COLUMBUS RMP - 60-17</u>				
Revenues				
General Property Tax	465.33	1,861.32	5,584.00	(3,722.68)
Total Revenues	465.33	1,861.32	5,584.00	(3,722.68)
Expenses				
Legal Fees	0.00	0.00	1,000.00	(1,000.00)
Engineering	0.00	0.00	9,000.00	(9,000.00)
Total expenses	0.00	0.00	10,000.00	(10,000.00)
Total Revenues Over/(Under)				
Expenditures - Columbus RMP	465.33	1,861.32	(4,416.00)	6,277.32
<u>JD4 RMP IMPLEMENTATION - 60-18</u>				
Revenues				
General Property Tax	5,816.67	23,266.68	69,800.00	(46,533.32)
Total Revenues	5,816.67	23,266.68	69,800.00	(46,533.32)
Expenses				
Telecommunications	17.45	52.43	1,000.00	(947.57)
Contracted Services-JD4 RMP	0.00	0.00	40,000.00	(40,000.00)
Legal Fees	0.00	0.00	4,000.00	(4,000.00)
Engineering	685.00	931.50	80,000.00	(79,068.50)
Total expenses	702.45	983.93	125,000.00	(124,016.07)
Total Revenues Over/(Under)				
Expenditures - JD4 RMP Implement.	5,114.22	22,282.75	(55,200.00)	77,482.75

Substantially all disclosures required by generally accepted accounting principles are not included.

Rice Creek Watershed District
Statement of Revenue and Expenditures - Restoration Projects - 60
For the One Month and Four Months Ending April 30, 2019
No Assurance Is Provided On These Financial Statements

	Current Month	Year to Date	Annual Budget	Over/(Under) Budget
<u>DISTRICT-WIDE SWMM MODEL-PHASE 2 - 60-19</u>				
Revenues				
General Property Tax	6,980.00	27,920.00	83,760.00	(55,840.00)
Income-Grants	12,236.75	49,192.25	0.00	49,192.25
Total Revenues	19,216.75	77,112.25	83,760.00	(6,647.75)
Expenses				
Legal Fees	0.00	0.00	5,000.00	(5,000.00)
Engineering-SWMM	0.00	49,192.25	145,000.00	(95,807.75)
Total expenses	0.00	49,192.25	150,000.00	(100,807.75)
Total Revenues Over/(Under)				
Expenditures - District-Wide SWMM	19,216.75	27,920.00	(66,240.00)	94,160.00
<u>ACD 53/62 RMP IMPLEMENTATION - 60-21</u>				
Revenues				
General Property Tax	930.67	3,722.68	11,168.00	(7,445.32)
Total Revenues	930.67	3,722.68	11,168.00	(7,445.32)
Expenses				
Legal Notices	0.00	0.00	500.00	(500.00)
Legal Fees	0.00	0.00	1,500.00	(1,500.00)
Engineering	0.00	68.00	18,000.00	(17,932.00)
Total expenses	0.00	68.00	20,000.00	(19,932.00)
Total Revenues Over/(Under)				
Expenditures - ACD 53/62 RMP Impleme	930.67	3,654.68	(8,832.00)	12,486.68
<u>LINO LAKES RMP IMPLEMENTATION - 60-22</u>				
Revenues				
General Property Tax	930.67	3,722.68	11,168.00	(7,445.32)
Total Revenues	930.67	3,722.68	11,168.00	(7,445.32)
Expenses				
Legal Fees	0.00	0.00	3,000.00	(3,000.00)
Engineering	0.00	6,504.35	17,000.00	(10,495.65)
Total expenses	0.00	6,504.35	20,000.00	(13,495.65)
Total Revenues Over/(Under)				
Expenditures - Lino Lakes RMP	930.67	(2,781.67)	(8,832.00)	6,050.33

Substantially all disclosures required by generally accepted accounting principles are not included.

Rice Creek Watershed District
Statement of Revenue and Expenditures - Restoration Projects - 60
For the One Month and Four Months Ending April 30, 2019
No Assurance Is Provided On These Financial Statements

	Current Month	Year to Date	Annual Budget	Over/(Under) Budget
<u>SW URBAN LAKE FLOOD MGMT. IMPLEMENTATION - 60-24</u>				
Revenues				
General Property Tax	11,633.33	46,533.32	139,600.00	(93,066.68)
Income - Grants	0.00	112,000.00	0.00	112,000.00
Total Revenues	11,633.33	158,533.32	139,600.00	18,933.32
Expenses				
Printing	0.00	0.00	1,000.00	(1,000.00)
Legal Notices	0.00	0.00	3,000.00	(3,000.00)
Legal Fees	43.60	43.60	10,000.00	(9,956.40)
Engineering	7,478.00	50,674.11	186,000.00	(135,325.89)
Construction	0.00	0.00	50,000.00	(50,000.00)
Total expenses	7,521.60	50,717.71	250,000.00	(199,282.29)
Total Revenues Over/(Under)				
Expenditures - Southwest Urban Lake	4,111.73	107,815.61	(110,400.00)	218,215.61
<u>PURCHASE OF WETLAND CREDITS - 60-27</u>				
Revenues				
General Property Tax	4,653.33	18,613.32	55,840.00	(37,226.68)
Total Revenues	4,653.33	18,613.32	55,840.00	(37,226.68)
Expenses				
Legal Fees	0.00	0.00	10,000.00	(10,000.00)
Engineering	0.00	806.00	90,000.00	(89,194.00)
Total expenses	0.00	806.00	100,000.00	(99,194.00)
Total Revenues Over/(Under)				
Expenditures - Wetland Credits	4,653.33	17,807.32	(44,160.00)	61,967.32
<u>ACD 53-62 WMD - 60-28</u>				
Revenues				
Special Assessments-ACD 53-62	4,065.33	16,261.32	48,784.00	(32,522.68)
Income-ROW Charges	226.24	548.08	0.00	548.08
Total Revenues	4,291.57	16,809.40	48,784.00	(31,974.60)
Expenses				
Engineering Expense	0.00	381.50	5,000.00	(4,618.50)
Construction Expense	0.00	0.00	5,000.00	(5,000.00)
Total expenses	0.00	381.50	10,000.00	(9,618.50)
Total Revenues Over/(Under)				
Expenditures - ACD 53-62 WMD	4,291.57	16,427.90	38,784.00	(22,356.10)

Rice Creek Watershed District
Statement of Revenue and Expenditures - Restoration Projects - 60
For the One Month and Four Months Ending April 30, 2019
No Assurance Is Provided On These Financial Statements

	Current Month	Year to Date	Annual Budget	Over/(Under) Budget
<u>CLEAR LAKE WATER QUALITY - 60-29</u>				
Revenues				
General Property Tax	3,257.33	13,029.32	39,088.00	(26,058.68)
Total Revenues	3,257.33	13,029.32	39,088.00	(26,058.68)
Expenses				
Contracted Services	0.00	0.00	10,000.00	(10,000.00)
Legal Fees	0.00	0.00	1,000.00	(1,000.00)
Engineering Expense	0.00	0.00	39,000.00	(39,000.00)
Construction Expense	0.00	29,188.17	20,000.00	9,188.17
Equipment Expense	0.00	8,085.00	0.00	8,085.00
Total expenses	0.00	37,273.17	70,000.00	(32,726.83)
Total Revenues Over/(Under)				
Expenditures - Clear Lake	3,257.33	(24,243.85)	(30,912.00)	6,668.15
<u>HANSEN PARK - 60-30</u>				
Revenues				
General Property Tax	4,653.33	18,613.32	55,840.00	(37,226.68)
Total Revenues	4,653.33	18,613.32	55,840.00	(37,226.68)
Expenses				
Supplies-Field	46.92	46.92	1,000.00	(953.08)
Telecommunications	52.96	128.55	0.00	128.55
Legal Fees	0.00	0.00	2,000.00	(2,000.00)
Engineering Expense	0.00	7,087.50	15,000.00	(7,912.50)
Construction Expense	3,270.00	3,270.00	82,000.00	(78,730.00)
Total expenses	3,369.88	10,532.97	100,000.00	(89,467.03)
Total Revenues Over/(Under)				
Expenditures - Hanson Park	1,283.45	8,080.35	(44,160.00)	52,240.35
<u>MIRROR POND - 60-31</u>				
Revenues				
General Property Tax	232.67	930.68	2,792.00	(1,861.32)
Total Revenues	232.67	930.68	2,792.00	(1,861.32)
Expenses				
Construction Expense	2,471.88	2,471.88	5,000.00	(2,528.12)
Total expenses	2,471.88	2,471.88	5,000.00	(2,528.12)
Total Revenues Over/(Under)				
Expenditures - Mirror Pond	(2,239.21)	(1,541.20)	(2,208.00)	666.80

Rice Creek Watershed District
Statement of Revenue and Expenditures - Restoration Projects - 60
For the One Month and Four Months Ending April 30, 2019
No Assurance Is Provided On These Financial Statements

	Current Month	Year to Date	Annual Budget	Over/(Under) Budget
<u>ACD 53/62 BRANCH 2 REPAIR - 60-32</u>				
Revenues				
General Property Tax	465.33	1,861.32	5,584.00	(3,722.68)
Total Revenues	465.33	1,861.32	5,584.00	(3,722.68)
Expenses				
Engineering Expense	0.00	0.00	5,000.00	(5,000.00)
Construction Expense	0.00	0.00	5,000.00	(5,000.00)
Total expenses	0.00	0.00	10,000.00	(10,000.00)
Total Revenues Over/(Under)				
Expenditures - ACD 53/62	465.33	1,861.32	(4,416.00)	6,277.32
<u>BWSR WATER-BASED PILOT - 60-33</u>				
Revenues				
Total Revenues	0.00	0.00	0.00	0.00
Expenses				
Construction Expense	0.00	0.00	413,336.00	(413,336.00)
Total expenses	0.00	0.00	413,336.00	(413,336.00)
Total Revenues Over/(Under)				
Expenditures - BWSR Water-Based	0.00	0.00	(413,336.00)	413,336.00
<u>ACD 53-62 MT + 5/6 - 60-34</u>				
Revenues				
General Property Tax	3,024.67	12,098.68	36,296.00	(24,197.32)
Total Revenues	3,024.67	12,098.68	36,296.00	(24,197.32)
Expenses				
Legal Fees	0.00	0.00	10,000.00	(10,000.00)
Engineering Expense	0.00	0.00	55,000.00	(55,000.00)
Total expenses	0.00	0.00	65,000.00	(65,000.00)
Total Revenues Over/(Under)				
Expenditures - ACD 53-+62 MT	3,024.67	12,098.68	(28,704.00)	40,802.68
Total Revenue Over/(Under) Expenditure	\$ 346,915.98	\$ 540,472.62	(1,068,201.00)	1,608,673.62

Substantially all disclosures required by generally accepted accounting principles are not included.

Rice Creek Watershed District
Statement of Revenue and Expenditures - Regulatory Projects - 70
For the One Month and Four Months Ending April 30, 2019
No Assurance Is Provided On These Financial Statements

	Current Month	Year to Date	Annual Budget	Over/(Under) Budget
<u>REGULATORY PROJECT MANAGEMENT - 70-00</u>				
Revenues				
General Property Tax	\$ 31,968.25	\$ 127,873.00	383,619.00	(255,746.00)
Interest Revenue	0.00	7,646.29	14,036.00	(6,389.71)
Total Revenues	31,968.25	135,519.29	397,655.00	(262,135.71)
Expenses				
Wages-Regulatory	14,681.86	62,213.51	212,284.00	(150,070.49)
Wages - Interns	0.00	0.00	3,020.00	(3,020.00)
Benefits-Regulatory	3,827.46	15,361.45	26,740.00	(11,378.55)
PERA-Regulatory	1,101.14	4,646.45	15,921.00	(11,274.55)
Payroll Taxes-Regulatory	1,081.29	4,591.80	16,471.00	(11,879.20)
Office Supplies	342.41	659.73	2,985.00	(2,325.27)
Supplies-Field	0.00	0.00	500.00	(500.00)
Compute Software	0.00	0.00	775.00	(775.00)
Rent	2,152.43	8,609.72	26,787.00	(18,177.28)
Telecommunications	686.20	2,023.59	6,826.00	(4,802.41)
Publications	0.00	0.00	310.00	(310.00)
Training & Education	7.92	627.92	8,029.00	(7,401.08)
Insurance and Bonds	0.00	9,476.25	8,540.00	936.25
Postage	0.00	32.54	1,705.00	(1,672.46)
Staff Travel-Regulatory	120.18	196.86	2,485.00	(2,288.14)
Vehicle Expense	529.95	1,532.35	3,437.00	(1,904.65)
Professional Services	5,672.54	8,800.64	50,000.00	(41,199.36)
Legal Fees	0.00	0.00	1,500.00	(1,500.00)
Engineering-Regulatory	0.00	0.00	5,678.00	(5,678.00)
Equipment	0.00	0.00	500.00	(500.00)
Equipment Lease	83.49	831.11	3,162.00	(2,330.89)
Total Expenses	30,286.87	119,603.92	397,655.00	(278,051.08)
Total Revenues Over/(Under)				
Expenditures - Regulatory Management	1,681.38	15,915.37	0.00	15,915.37
<u>RULE/PLAN REVISIONS - PERMIT GUIDANCE - 70-01</u>				
Revenues				
General Property Tax	5,833.33	23,333.32	70,000.00	(46,666.68)
Total Revenues	5,833.33	23,333.32	70,000.00	(46,666.68)
Expenses				
Legal Fees	676.88	1,450.45	10,000.00	(8,549.55)
Engineering	0.00	681.75	60,000.00	(59,318.25)
Total expenses	676.88	2,132.20	70,000.00	(67,867.80)
Total Revenues Over/(Under)				
Expenditures - Rule/Plan Revisions	5,156.45	21,201.12	0.00	21,201.12

Rice Creek Watershed District
Statement of Revenue and Expenditures - Regulatory Projects - 70
For the One Month and Four Months Ending April 30, 2019
No Assurance Is Provided On These Financial Statements

	Current Month	Year to Date	Annual Budget	Over/(Under) Budget
<u>PERMIT REVIEW - 70-03</u>				
Revenues				
General Property Tax	25,225.00	100,900.00	302,700.00	(201,800.00)
Permit Fees	24,790.00	47,220.00	217,800.00	(170,580.00)
Total Revenues	50,015.00	148,120.00	520,500.00	(372,380.00)
Expenses				
Legal Notice	0.00	0.00	1,000.00	(1,000.00)
Legal Fees	3,161.69	5,278.72	36,000.00	(30,721.28)
Engineering-Permit Review	66,524.75	168,533.16	483,500.00	(314,966.84)
Total expenses	69,686.44	173,811.88	520,500.00	(346,688.12)
Total Revenues Over/(Under)				
Expenditures - Permit Review	(19,671.44)	(25,691.88)	0.00	(25,691.88)
<u>EARLY COORDINATION/ROAD AUTHORITY - 70-07</u>				
Revenues				
General Property Tax	10,833.33	43,333.32	130,000.00	(86,666.68)
Total Revenues	10,833.33	43,333.32	130,000.00	(86,666.68)
Expenses				
Legal Fees	0.00	1,340.29	5,000.00	(3,659.71)
Engineering-Road Auth.	9,210.10	19,985.85	125,000.00	(105,014.15)
Total expenses	9,210.10	21,326.14	130,000.00	(108,673.86)
Total Revenues Over/(Under)				
Expenditures - Early Coordination	1,623.23	22,007.18	0.00	22,007.18
<u>WATERSHED MANAGEMENT - 70-08</u>				
Revenues				
General Property Tax	18,333.33	73,333.32	220,000.00	(146,666.68)
Total Revenues	18,333.33	73,333.32	220,000.00	(146,666.68)
Expenses				
Meeting Supplies	79.98	142.15	0.00	142.15
Training & Education	0.00	151.67	0.00	151.67
Legal Notices	0.00	0.00	2,000.00	(2,000.00)
Legal Fees	0.00	7,777.66	25,000.00	(17,222.34)
Engineering-Watershed Mgmt.	10,813.43	40,148.98	193,000.00	(152,851.02)
Total expenses	10,893.41	48,220.46	220,000.00	(171,779.54)
Total Revenues Over/(Under)				
Expenditures - Watershed Mgmt.	7,439.92	25,112.86	0.00	25,112.86
Total Revenue Over/(Under) Expenditure	\$ (3,770.46)	\$ 58,544.65	0.00	58,544.65

Rice Creek Watershed District
Statement of Revenue and Expenditures - Ditch & Creek Maintenance - 80
For the One Month and Four Months Ending April 30, 2019
No Assurance Is Provided On These Financial Statements

	Current Month	Year to Date	Annual Budget	Over/(Under) Budget
<u>DITCH & CREEK MANAGEMENT - 80-00</u>				
Revenues				
General Property Tax	\$ 19,481.58	\$ 77,926.32	233,779.00	(155,852.68)
Interest Revenue	0.00	8,892.14	16,323.00	(7,430.86)
Total Revenues	19,481.58	86,818.46	250,102.00	(163,283.54)
Expenses				
Wages-Ditch & Creek Maint.	11,713.26	47,516.75	138,004.00	(90,487.25)
Benefits-Ditch & Creek Maint.	1,351.61	5,431.84	22,330.00	(16,898.16)
PERA-Ditch & Creek Maint.	878.49	3,563.74	10,328.00	(6,764.26)
Payroll Taxes-Ditch & Creek	841.34	3,416.15	10,557.00	(7,140.85)
Office Supplies	185.70	547.70	1,830.00	(1,282.30)
Printing	0.00	0.00	475.00	(475.00)
Rent	1,058.81	4,235.24	16,418.00	(12,182.76)
Telecommunications	394.18	1,141.02	4,184.00	(3,042.98)
Publications	0.00	0.00	190.00	(190.00)
Training & Education	0.00	790.00	4,921.00	(4,131.00)
Insurance and Bonds	0.00	4,661.51	5,234.00	(572.49)
Postage	0.00	0.00	1,045.00	(1,045.00)
Legal Notices	0.00	0.00	1,500.00	(1,500.00)
Staff Travel	53.43	53.43	1,523.00	(1,469.57)
Vehicle Expense	678.92	1,712.21	8,437.00	(6,724.79)
Professional Services	443.30	743.28	18,000.00	(17,256.72)
Legal Fees-Ditch & Creek	0.00	0.00	5,000.00	(5,000.00)
Engineering-Ditch & Creek	0.00	0.00	10,000.00	(10,000.00)
Equipment-Computer	0.00	0.00	2,000.00	(2,000.00)
Equipment Lease	41.07	408.84	1,938.00	(1,529.16)
Total Expenses	17,640.11	74,221.71	263,914.00	(189,692.29)
Total Revenues Over/(Under)				
Expenditures - Ditch & Creek Mgmt.	1,841.47	12,596.75	(13,812.00)	26,408.75
<u>DITCHES - GENERAL - 80-02</u>				
Revenues				
General Property Tax	25,179.08	100,716.32	302,149.00	(201,432.68)
Total Revenues	25,179.08	100,716.32	302,149.00	(201,432.68)
Expenses				
Office Supplies	0.00	32.77	0.00	32.77
Supplies-Field	112.63	770.85	8,000.00	(7,229.15)
Vehicle Expense	2,005.83	2,764.59	7,000.00	(4,235.41)
Professional Services	0.00	507.00	1,000.00	(493.00)
Contracted Services-General	2,678.00	3,878.00	240,000.00	(236,122.00)
Legal Fees	1,309.50	6,186.00	15,000.00	(8,814.00)
Engineering Fees	7,537.63	15,533.05	25,000.00	(9,466.95)
Construction Expense	0.00	24,500.00	20,000.00	4,500.00
Equipment	0.00	0.00	4,000.00	(4,000.00)
Total expenses	13,643.59	54,172.26	320,000.00	(265,827.74)
Total Revenues Over/(Under)				
Expenditures - Ditches - General	11,535.49	46,544.06	(17,851.00)	64,395.06

Rice Creek Watershed District
Statement of Revenue and Expenditures - Ditch & Creek Maintenance - 80
For the One Month and Four Months Ending April 30, 2019
No Assurance Is Provided On These Financial Statements

	Current Month	Year to Date	Annual Budget	Over/(Under) Budget
<u>REPAIR REPORTS - 80-03</u>				
Revenues				
General Property Tax	6,688.17	26,752.68	80,258.00	(53,505.32)
Total Revenues	6,688.17	26,752.68	80,258.00	(53,505.32)
Expenses				
Legal Notices	0.00	0.00	3,000.00	(3,000.00)
Legal Fees	1,939.50	5,316.00	30,000.00	(24,684.00)
Engineering	6,638.11	21,374.70	52,000.00	(30,625.30)
Total expenses	8,577.61	26,690.70	85,000.00	(58,309.30)
Total Revenues Over/(Under)				
Expenditures - Repair Reports	(1,889.44)	61.98	(4,742.00)	4,803.98
<u>JD-2/Hugo - 80-15</u>				
Revenues				
General Property Tax	3,147.42	12,589.68	37,769.00	(25,179.32)
Total Revenues	3,147.42	12,589.68	37,769.00	(25,179.32)
Expenses				
Contracted Services	0.00	0.00	40,000.00	(40,000.00)
Total expenses	0.00	0.00	40,000.00	(40,000.00)
Total Revenues Over/(Under)				
Expenditures - JD-2/Hugo	3,147.42	12,589.68	(2,231.00)	14,820.68
<u>ACD 10-22-32 WMD - 80-17</u>				
Revenues				
Total Revenues	0.00	0.00	0.00	0.00
Expenses				
Total expenses	0.00	0.00	0.00	0.00
Total Revenues Over/(Under)				
Expenditures - 10-22-32	0.00	0.00	0.00	0.00
<u>ACD 31 WMD - 80-18</u>				
Revenues				
Special Assessments	3,023.08	12,092.32	36,277.00	(24,184.68)
Total Revenues	3,023.08	12,092.32	36,277.00	(24,184.68)
Expenses				
Engineer Expense	0.00	204.00	0.00	204.00
Total expenses	0.00	204.00	0.00	204.00
Total Revenues Over/(Under)				
Expenditures - ACD 31 WMD	3,023.08	11,888.32	36,277.00	(24,388.68)

Rice Creek Watershed District
Statement of Revenue and Expenditures - Ditch & Creek Maintenance - 80
For the One Month and Four Months Ending April 30, 2019
No Assurance Is Provided On These Financial Statements

	Current Month	Year to Date	Annual Budget	Over/(Under) Budget
<u>ACD 46 WMD - 80-19</u>				
Revenues				
Special Assessments	4,135.58	16,542.32	49,627.00	(33,084.68)
Total Revenues	4,135.58	16,542.32	49,627.00	(33,084.68)
Expenses				
Engineering Expense	0.00	204.00	0.00	204.00
Total expenses	0.00	204.00	0.00	204.00
Total Revenues Over/(Under) Expenditures - ACD 46 WMD	4,135.58	16,338.32	49,627.00	(33,288.68)
<u>WJD 2 BRANCH 1/2 REPAIR - 80-20</u>				
Revenues				
General Property Tax	14,737.58	58,950.32	176,851.00	(117,900.68)
Total Revenues	14,737.58	58,950.32	176,851.00	(117,900.68)
Expenses				
Legal Fees	927.00	2,142.00	10,000.00	(7,858.00)
Engineering Expense	0.00	0.00	30,000.00	(30,000.00)
Construction Expense	0.00	0.00	147,300.00	(147,300.00)
Total expenses	927.00	2,142.00	187,300.00	(185,158.00)
Total Revenues Over/(Under) Expenditures - WJD 2	13,810.58	56,808.32	(10,449.00)	67,257.32
<u>AWJD 3 MT BR 3 REPAIR - 80-21</u>				
Revenues				
General Property Tax	51,931.75	207,727.00	623,181.00	(415,454.00)
Total Revenues	51,931.75	207,727.00	623,181.00	(415,454.00)
Expenses				
Legal Notices	832.90	1,099.64	10,000.00	(8,900.36)
Legal Fees	2,137.50	3,622.50	30,000.00	(26,377.50)
Engineering Expense	4,952.25	11,479.20	200,000.00	(188,520.80)
Construction Expense	0.00	0.00	420,000.00	(420,000.00)
Total expenses	7,922.65	16,201.34	660,000.00	(643,798.66)
Total Revenues Over/(Under) Expenditures - AWJD 3	44,009.10	191,525.66	(36,819.00)	228,344.66
Total Revenue Over/(Under) Expenditure	\$ 79,613.28	\$ 348,353.09	0.00	348,353.09

Rice Creek Watershed District
Statement of Revenue and Expenditures - Lake & Stream - 90
For the One Month and Four Months Ending April 30, 2019
No Assurance Is Provided On These Financial Statements

	Current Month	Year to Date	Annual Budget	Over/(Under) Budget
<u>LAKE & STREAM MANAGEMENT - 90-00</u>				
Revenues				
General Property Tax	\$ 5,182.33	\$ 20,729.32	62,188.00	(41,458.68)
Interest Income	0.00	8,114.24	14,895.00	(6,780.76)
Total Revenues	5,182.33	28,843.56	77,083.00	(48,239.44)
Expenses				
Wages-Lake & Stream Mgmt.	14,647.72	58,702.00	187,595.00	(128,893.00)
Wages-Interns	0.00	0.00	6,132.00	(6,132.00)
Benefits-Lake & Stream Mgmt.	985.23	3,957.05	23,716.00	(19,758.95)
PERA-Lake & Stream Mgmt.	1,098.62	4,495.37	14,015.00	(9,519.63)
Payroll Taxes-Lake & Stream	1,086.12	4,456.14	14,820.00	(10,363.86)
Office Supplies	100.99	295.14	1,059.00	(763.86)
Supplies-Field	0.00	80.29	0.00	80.29
Printing-Lake & Stream	0.00	0.00	275.00	(275.00)
Rent	673.44	2,693.76	9,505.00	(6,811.24)
Telecommunications	226.76	669.35	2,422.00	(1,752.65)
Publications	0.00	0.00	110.00	(110.00)
Training & Education	0.00	0.00	2,849.00	(2,849.00)
Insurance and Bonds	0.00	2,964.88	3,030.00	(65.12)
Postage	0.00	0.00	605.00	(605.00)
Staff Travel	0.00	0.00	882.00	(882.00)
Vehicle Expense	529.96	912.67	8,437.00	(7,524.33)
Professional Services	302.09	302.09	15,000.00	(14,697.91)
Education & Communication	0.00	0.00	10,000.00	(10,000.00)
Legal Fees	0.00	0.00	1,000.00	(1,000.00)
Engineering	0.00	0.00	5,000.00	(5,000.00)
Equipment	0.00	0.00	1,500.00	(1,500.00)
Equipment Lease	26.13	260.06	1,122.00	(861.94)
Total Expenses	19,677.06	79,788.80	309,074.00	(229,285.20)
Total Revenues Over/(Under)				
Expenditures - Lake & Stream Mgmt.	(14,494.73)	(50,945.24)	(231,991.00)	181,045.76
<u>BMP COST-SHARE PROGRAM - 90-01</u>				
Revenues				
General Property Tax	3,734.67	14,938.68	44,816.00	(29,877.32)
Total Revenues	3,734.67	14,938.68	44,816.00	(29,877.32)
Expenses				
Contracted Services	8,370.00	8,370.00	55,000.00	(46,630.00)
Engineering-BMP Cost-Share	0.00	0.00	5,000.00	(5,000.00)
Construction-BMP Costshare	0.00	500.00	152,000.00	(151,500.00)
Total expenses	8,370.00	8,870.00	212,000.00	(203,130.00)
Total Revenues Over/(Under)				
Expenditures - BMP Cost-Share Program	(4,635.33)	6,068.68	(167,184.00)	173,252.68

Substantially all disclosures required by generally accepted accounting principles are not included.

Rice Creek Watershed District
Statement of Revenue and Expenditures - Lake & Stream - 90
For the One Month and Four Months Ending April 30, 2019
No Assurance Is Provided On These Financial Statements

	Current Month	Year to Date	Annual Budget	Over/(Under) Budget
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LAKE & STREAM MONITORING - 90-04

Revenues				
General Property Tax	3,963.67	15,854.68	47,564.00	(31,709.32)
Miscellaneous Income	0.00	350.00	0.00	350.00
Total Revenues	3,963.67	16,204.68	47,564.00	(31,359.32)
Expenses				
Supplies-Field	243.33	243.33	2,500.00	(2,256.67)
Computer Software	0.00	0.00	500.00	(500.00)
Telecommunications	76.66	188.33	500.00	(311.67)
Publications	0.00	0.00	200.00	(200.00)
Training & Education	0.00	2.25	2,000.00	(1,997.75)
Staff Travel	35.84	236.52	300.00	(63.48)
Vehicle Expense	0.00	77.38	1,800.00	(1,722.62)
Contracted Services	7,456.31	17,615.31	134,600.00	(116,984.69)
Legal Fees	0.00	0.00	500.00	(500.00)
Engineering	4,257.70	4,257.70	24,000.00	(19,742.30)
Equipment-Computer	0.00	0.00	22,600.00	(22,600.00)
Repairs & Maintenance	0.00	0.00	500.00	(500.00)
Lab Expense	1,404.00	1,404.00	35,000.00	(33,596.00)
Total expenses	13,473.84	24,024.82	225,000.00	(200,975.18)
Total Revenues Over/(Under)				
Expenditures - Lake & Stream Montr.	(9,510.17)	(7,820.14)	(177,436.00)	169,615.86

BALD EAGLE LAKE TMDL - 90-06

Revenues				
General Property Tax	2,025.83	8,103.32	24,310.00	(16,206.68)
Income-Grants	196,000.00	196,000.00	0.00	196,000.00
Total Revenues	198,025.83	204,103.32	24,310.00	179,793.32
Expenses				
Legal Fees	0.00	0.00	8,000.00	(8,000.00)
Engineering Expense	3,705.50	3,705.50	30,000.00	(26,294.50)
Construction Expense	0.00	0.00	77,000.00	(77,000.00)
Total expenses	3,705.50	3,705.50	115,000.00	(111,294.50)
Total Revenues Over/(Under)				
Expenditures - Bald Eagle Lake TMDL	194,320.33	200,397.82	(90,690.00)	291,087.82

Rice Creek Watershed District
Statement of Revenue and Expenditures - Lake & Stream - 90
For the One Month and Four Months Ending April 30, 2019
No Assurance Is Provided On These Financial Statements

	Current Month	Year to Date	Annual Budget	Over/(Under) Budget
<u>ANOKA CHAIN OF LAKES - 90-16</u>				
Revenues				
General Property Tax	2,113.92	8,455.68	25,367.00	(16,911.32)
Total Revenues	2,113.92	8,455.68	25,367.00	(16,911.32)
Expenses				
Legal Fees	0.00	0.00	10,000.00	(10,000.00)
Engineering	0.00	0.00	50,000.00	(50,000.00)
Construction Expense	0.00	0.00	60,000.00	(60,000.00)
Total expenses	0.00	0.00	120,000.00	(120,000.00)
Total Revenues Over/(Under)				
Expenditures - Anoka Chain of Lakes	2,113.92	8,455.68	(94,633.00)	103,088.68
<u>TMDL IMPLEMENTATION - 90-23</u>				
Revenues				
General Property Tax	2,994.75	11,979.00	35,937.00	(23,958.00)
Total Revenues	2,994.75	11,979.00	35,937.00	(23,958.00)
Expenses				
Training & Education	0.00	0.00	500.00	(500.00)
Professional Services	0.00	235.50	0.00	235.50
Contracted Services	0.00	0.00	4,500.00	(4,500.00)
Legal Fees	1,407.36	8,321.62	5,000.00	3,321.62
Engineering	1,474.50	5,821.25	70,000.00	(64,178.75)
Construction	0.00	0.00	90,000.00	(90,000.00)
Total expenses	2,881.86	14,378.37	170,000.00	(155,621.63)
Total Revenues Over/(Under)				
Expenditures - TMDL Implementation	112.89	(2,399.37)	(134,063.00)	131,663.63
<u>BALD EAGLE LAKE WMD - 90-24</u>				
Revenues				
Bald Eagle-Special Assessment	5,416.68	21,666.72	65,000.00	(43,333.28)
Total Revenues	5,416.68	21,666.72	65,000.00	(43,333.28)
Expenses				
Professional Services	0.00	0.00	1,000.00	(1,000.00)
Contracted Services	0.00	0.00	54,476.00	(54,476.00)
Legal Fees	0.00	0.00	500.00	(500.00)
Engineering Expense	0.00	309.50	3,000.00	(2,690.50)
Total expenses	0.00	309.50	58,976.00	(58,666.50)
Total Revenues Over/(Under)				
Expenditures - Bald Eagle Lake WMD	5,416.68	21,357.22	6,024.00	15,333.22

Substantially all disclosures required by generally accepted accounting principles are not included.

Rice Creek Watershed District
Statement of Revenue and Expenditures - Lake & Stream - 90
For the One Month and Four Months Ending April 30, 2019
No Assurance Is Provided On These Financial Statements

	Current Month	Year to Date	Annual Budget	Over/(Under) Budget
<u>BALD EAGLE LAKE STORMWATER REUSE PROJECT - 90-25</u>				
Revenues				
General Property Tax	176.17	704.68	2,114.00	(1,409.32)
Income-Reuse Project	0.00	273.81	0.00	273.81
Total Revenues	176.17	978.49	2,114.00	(1,135.51)
Expenses				
Legal Fees	0.00	0.00	1,000.00	(1,000.00)
Engineering	0.00	0.00	1,000.00	(1,000.00)
Construction Expense	0.00	0.00	8,000.00	(8,000.00)
Total expenses	0.00	0.00	10,000.00	(10,000.00)
Total Revenues Over/(Under)				
Expenditures - Bald Eagle Lake WMD	176.17	978.49	(7,886.00)	8,864.49
<u>CARP MANAGEMENT PROJECT - 90-26</u>				
Revenues				
General Property Tax	3,523.25	14,093.00	42,279.00	(28,186.00)
Total Revenues	3,523.25	14,093.00	42,279.00	(28,186.00)
Expenses				
Supplies-Field	0.00	0.00	500.00	(500.00)
Professional Services	12,394.20	12,394.20	100,000.00	(87,605.80)
Legal Fees	971.36	971.36	2,000.00	(1,028.64)
Engineering Expense	0.00	4,967.25	15,000.00	(10,032.75)
Construction Expense	20,949.90	20,949.90	82,500.00	(61,550.10)
Total expenses	34,315.46	39,282.71	200,000.00	(160,717.29)
Total Revenues Over/(Under)				
Expenditures - Carp Management	(30,792.21)	(25,189.71)	(157,721.00)	132,531.29
Total Revenue Over/(Under) Expenditure	\$ 142,707.55	\$ 150,903.43	(1,055,580.00)	1,206,483.43

Rice Creek Watershed District
Statement of Revenue and Expenditures - District Facilities - 95
For the One Month and Four Months Ending April 30, 2019
No Assurance Is Provided On These Financial Statements

	Current Month	Year to Date	Annual Budget	Over/(Under) Budget
<u>LONG LAKE SEDIMENT BASIN - 95-01</u>				
Revenues				
General Property Tax	\$ 8,158.50	\$ 32,670.67	97,902.00	(65,231.33)
Interest	0.00	1,143.45	2,098.00	(954.55)
Total Revenues	8,158.50	33,814.12	100,000.00	(66,185.88)
Expenses				
Contracted Services	0.00	0.00	60,000.00	(60,000.00)
Engineering	0.00	0.00	40,000.00	(40,000.00)
Total Expenses	0.00	0.00	100,000.00	(100,000.00)
Total Revenues Over/(Under)				
Expenditures - Long Lake Sediment Basi	8,158.50	33,814.12	0.00	33,814.12

OUTFALL & STRUCTURE ASSESSMENT& REPAIR - 95-03

Revenues				
General Property Tax	6,250.00	25,028.08	75,000.00	(49,971.92)
Total Revenues	6,250.00	25,028.08	75,000.00	(49,971.92)
Expenses				
Legal Notices	0.00	0.00	1,000.00	(1,000.00)
Legal Fees	0.00	2,482.50	2,000.00	482.50
Engineering	102.00	5,873.50	30,000.00	(24,126.50)
Construction	0.00	0.00	42,000.00	(42,000.00)
Total expenses	102.00	8,356.00	75,000.00	(66,644.00)
Total Revenues Over/(Under)				
Expenditures - Outfall & Structure	6,148.00	16,672.08	0.00	16,672.08

Rice Creek Watershed District
Statement of Revenue and Expenditures - District Facilities - 95
For the One Month and Four Months Ending April 30, 2019
No Assurance Is Provided On These Financial Statements

	Current Month	Year to Date	Annual Budget	Over/(Under) Budget
<u>EASEMENT OPERATION & MAINTENANCE - 95-04</u>				
Revenues				
General Property Tax	2,083.32	8,342.61	25,000.00	(16,657.39)
Total Revenues	2,083.32	8,342.61	25,000.00	(16,657.39)
Expenses				
Supplies-Field	41.30	82.60	2,000.00	(1,917.40)
Vehicle Expense	37.57	522.24	1,000.00	(477.76)
Contracted Services	4,800.00	4,800.00	10,000.00	(5,200.00)
Legal Expense	0.00	0.00	2,000.00	(2,000.00)
Engineering	4,502.43	4,502.43	3,000.00	1,502.43
Construction Expense	0.00	0.00	5,000.00	(5,000.00)
Equipment	0.00	0.00	2,000.00	(2,000.00)
Total expenses	9,381.30	9,907.27	25,000.00	(15,092.73)
Total Revenues Over/(Under)				
Expenditures - Wall Wetland Restoration	(7,297.98)	(1,564.66)	0.00	(1,564.66)
Total Revenue Over/(Under) Expenditure	\$ 7,008.52	\$ 48,921.54	0.00	48,921.54

Substantially all disclosures required by generally accepted accounting principles are not included.

ITEMS FOR DISCUSSION AND INFORMATION

1. Staff Reports

MEMORANDUM

Rice Creek Watershed District

To: Board of Managers

Date: April 17, 2019

From: Beth Carreño

Subject: Communications and Outreach Efforts – (3/21/19 – 4/17/19)

I continue to prioritize my efforts on legislative communication, internal outreach support, and collaboration with partners. I am pleased with the progress I have made with many of our partner activities.

- Assisting District Administrator with priority tasks
 - Continuing to assist with communication for legislative purposes and MAWD; developed materials for multiple meetings and communications with legislators and other stakeholders
 - Participated in interview processes for Watershed Technician positions
 - Assisting with components of BWSR's Watershed Based Funding Pilot Program
 - Assisting Anoka County partners with the countywide outreach and education component
 - Assisting with the watershed management plan; co-facilitated 3/27 TAC meeting; planning 5/2 TAC meeting
 - Planning the staff retreat (4/30)
- Provided materials and assistance to partners for their outreach/education efforts
 - Participating in Freshwater Society State of the Water development; working with partners to prepare presentations on Hansen Park and Forest Lake Stormwater Reuse Project for the conference
 - Facilitating the implementation of the Adopt a Drain program across the District and with interested partners
 - Working with communities including Blaine, Fridley, and other partners to develop and pilot outreach communication regarding targeted water quality concerns through various outreach efforts
 - Partnered with other watershed districts (MWMO and CCWD) to develop presentation and have materials (and roots display) at North Metro Outdoor Expo
 - Developing community workshop schedule for 2019 based on priorities & partnerships (schedule below)
 - Working with Washington County partners to develop and implement wetland workshops; these workshops will be duplicable by other District partners (including City of Blaine)
 - Working with partners to develop a workshop for churches interested in water education, water programming, and possible BMPs; assisting Christ the King Lutheran near Hansen Park as a pilot
 - Presented to community group on 4/9; coordinating District efforts related to Earth Day (providing materials, the roots display and volunteers to numerous regional activities including those taking place at Wargo Nature Center, City of Blaine, and City of Fridley)
- Administration and implementation of mini-grants program
- Assisted staff & board with development of materials and presentations; communications with partners
 - Working on audience-specific communications & strategies (lake associations, etc) around specific topics (PRAP, shallow lakes, stormwater ponds, milfoil hybridization)
 - Working with company for completion of signs for raingardens, shoreline restorations, stormwater ponds, and general water quality projects (mini-grants); also working with partners on this project
 - Assisting permitting group with communications & messaging (website, materials, etc)
- Continued to promote District (and partner) projects & activities on social media & other communications platforms, including partner publications & newsletters
 - Collaborating with White Bear Lake & partners on BMP / raingarden projects associated with the city's 2019 road reconstruction; raingarden maintenance workshop is also being planned
- **Forest Lake Area Schools / Stormwater Reuse Project (BWSR grant)** – education component ongoing; presentation being developed for Water Summit
- **Master Water Steward Activities**

MEMORANDUM

Rice Creek Watershed District

- Working with staff and partners to support, facilitate, and promote the work of MWS
- Assisting MWS candidates on capstone projects – multiple project ongoing
- **Citizens Advisory Committee**
 - Completed support work related to facilitating and documenting the meeting (4/3)
- **Participation in partner meetings and activities**
 - Blue Thumb –steering committee; strategic planning effort
 - Metro Watershed Partners – RCWD hosted 4/10 meeting
 - Metro Communicators CONNECT
 - Freshwater Society – working on committee to plan Water Summit
 - EMWREP – Working with partners from EMWREP and Blaine to develop a wetland workshop for homeowners
 - Anoka Education and Outreach Collaboration - serving on committee to develop and guide county-wide efforts
- **Upcoming Workshops**
 - **April 25th**: Planting for Clean Water: Wonderful Wetlands Workshop (in City of Hugo) – *this workshop is hosted in partnership with East Metro Water Resource Education Program in Washington County*
 - **May 21st**: Resilient Yards Workshop – *this workshop is hosted in partnership with the City of White Bear Lake*
 - **May 30th**: Resilient Yards Workshop – *this workshop is hosted in partnership with the City of Blaine and Anoka Conservation District (outreach collaborative)*
 - **June 4th** : Turf Alternatives – *this workshop is hosted in partnership with the City of Fridley and Anoka Conservation District (outreach collaborative)*
 - **June 12th** : Resilient Yards – *this workshop is hosted in partnership with Anoka Conservation District (outreach collaborative), the City of Andover, and the Coon Creek Watershed District*
 - **June 28th**: Turf Maintenance Certification Workshop – *this workshop is hosted in partnership with Fortin Consulting, Anoka Conservation District, and the members of the Anoka outreach and education collaborative*
 - **August 21st**: Fortin Winter Maintenance Workshop
 - **September 11th**: Fortin Winter Maintenance Workshop

MEMORANDUM

Rice Creek Watershed District

Date: April 17, 2019
To: RCWD Board of Managers
From: Kyle Axtell, Water Resource Specialist
Subject: Staff Activity Report for 03/17/19 – 04/13/19

Tasks completed during preceding period:

- **Continued coordination of the Hansen Park Comprehensive Water Management Project.**
 - Began coordinating spring maintenance and startup activities with the City of New Brighton and Houston Engineering. The system is expected to begin seasonal operation the week of 04-22-2019.
- **Continued coordination of the Oasis Pond IESF Project.**
 - Began coordinating spring maintenance and startup activities with the City of New Brighton and Houston Engineering. The system is expected to begin seasonal operation the week of 04-22-2019.
- **Began coordination of the Bald Eagle Lake (RCD11) IESF Project.**
 - Presented the project to the White Bear Township Board on 03-29-2019 and obtained unanimous verbal support for the project from the Town Board, including a commitment to authorize use of up to 0.75 acres of Township-owned property on which to build the project.
 - Obtained BWSR execution of the grant agreement on 04-10-2019.
 - Prepared for upcoming presentation to the White Bear Township Park Board on 04-18-2019.
- **Continued management of the Ramsey County Ditches 2, 3 & 5 Basic Water Management Project.**
 - Hosted a partner meeting with the three cities on 03-22-2019 to review progress on Phase 2 and obtain additional input on project assumptions, goals and design criteria.
 - Met with Todd Hubmer (WSB, Saint Anthony) on 04-04-2019 to review the discussion from the 03-22-2019 partner meeting.
 - Began preparation for development of a DNR flood damage reduction grant application.
- **Continued management of the Urban Stormwater Remediation Cost-Share Program.**
 - Received six executed cost-share agreements from successful applicants. Circle Pines and Lino Lakes (x2) remain outstanding. Executed agreements are due to the RCWD by the end of May.
- **Continued coordination of the District's 2020 Watershed Management Plan Update.**
 - Provided input on draft plan sections developed by HEI staff (Chapters 5 and 6)
 - Hosted a TAC meeting on 03-27-2019 to receive comments on Chapter 4 of the draft 2020 WMP.
 - Hosted a CAC meeting on 04-03-2019 to receive comments on Chapter 4 of the draft 2020 WMP.
 - Participated in a Board workshop to review Chapters 5 and 6 of the draft 2020 WMP on 04-10-2019.
- **Other important tasks completed include:**
 - Assisted a few landowners with floodplain, erosion control, and/or RCWD Rule and WCA questions.
 - Processed the final pay request from Saint Anthony for the Mirror Lake Improvements Project.
 - Attended the fourth session of a Leadership Communication Skills certificate program at Hamline University on 03-28-2019.
 - Submitted three Implementation Plans for RCWD TMDLs to MPCA for publishing.
 - Documented water flowing through the White Bear Lake outlet culverts on 04-01-2019.
 - Participated in the Karth Lake Annual Meeting on 04-09-2019.

MEMORANDUM

Rice Creek Watershed District

To: Board of Managers

Date: April 17, 2019

From: Nick Tomczik

Subject: Permit Coordinator/Wetland Specialist's Report for March – April 2019

Highlights for Preceding Month

- ✓ Meetings and Assistance to parties in need of pre-application/application assistance
 - Bethel University
 - Houle Subdivision Lino Lakes
 - Blaine Street Reconstruction
 - Glenn Meadows
 - Centennial Schools
 - Mounds View HS Additions
 - Hornsby Street Realignment & TH-97 Improvements
 - Seven Vines Meeting
 - CSAH 34 Birch Street
 - Shoreview Commons Park and Civic Campus Improvements
 - Blaine WTP4
 - Robinson Inquires
 - Hy-Vee Blaine
 - Mill Pond
 - Oakwood Pond
- ✓ Wetland Delineation, Replacement, Exemption Applications
 - JD3 delineation
 - Butterfly Marsh Wetland Bank
 - Morrell no-loss application
 - MPJWR Wetland Bank
 - 6848 Otter Lake Road No-Loss
 - Nature's Refuge Residential
 - Columbus NW Quad Delineation
 - Mounds View HS
- ✓ Training
 - BWSR Wetland Bank
 - Metro WD Regulation
 - WPA Meeting
- ✓ Meetings / Administration
 - HyVee Blaine
 - Morell Damages
 - RCWD Position Hiring Process
 - Wedgewood Park Letter
 - CWPMP rule revision - cities
 - RCWD Permit Extensions & Material Changes and/or Regulations
 - Lino Lakes NE Drainage
 - WMD Charges
 - Staff Changes
 - MnDOT Design Build 35W MnPASS
 - Database Discussion
 - RCWD Old Permit Issues
 - Permit Triage
 - Inspection Team Meeting
 - HEI/Smith Partners/RCWD Communication Board Meetings & Workshops (agenda items, participation)

MEMORANDUM

Rice Creek Watershed District

To: Board of Managers

Date: April 17, 2019

From: Lauren Sampedro

Subject: District Technician Report (March 20, 2019-April 17, 2019)

Highlights from Preceding Month

- ✓ Received a draft local water management plan for formal agency review from the City of Grant. Began the RCWD 60-day review process on March 21st.
- ✓ Received a second draft local water management plan for formal agency review from the City of Fridley. Began the RCWD 60-day review process on March 22nd.
- ✓ Met with Anoka and Washington Conservation Districts and Ramsey County Parks and Recreation SWCD to discuss the 2019 Water Quality Grant Program and process on March 29th.
- ✓ Attended Board Meeting on March 27th to recommend approval of the City of Hugo's Inspection and Administrative Procedures and the City of Scandia's local water management plan.
- ✓ Completed a review of the City of Dellwood's draft 2040 Comprehensive Plan and fourth draft local water management plan and submitted comments on March 28th.
- ✓ Received a final draft local water management plan from the City of Dellwood on April 1st that addressed RCWD comments.
- ✓ Met with two Master Water Stewards to discuss potential capstone projects and next steps on April 3rd.
- ✓ Attended the Washington County Water Consortium meeting on April 3rd.
- ✓ Attended the CAC meeting on April 3rd.
- ✓ Received a third draft local water management plan for formal agency review from the City of Forest Lake. Began the RCWD 60-day review process on April 3rd.
- ✓ Reviewed a draft Chapter 6 for the 2020 Watershed Management Plan and provided comments on local water plan requirements.
- ✓ Completed a review of the City of Fridley's second draft local water management plan and provided informal comments on April 8th.
- ✓ Complete a review of the City of Forest Lake's third draft local water management plan and provided informal comments on April 9th.
- ✓ Attended Board Meeting on April 10th to recommend approval of the Pilgrim House cost share application and the City of Dellwood's local water management plan.
- ✓ Received a final draft local water management plan from the City of Fridley on April 11th that addressed RCWD comments.
- ✓ Received a final draft local water management plan from the City of Forest Lake on April 15th that addressed RCWD comments.

MEMORANDUM
Rice Creek Watershed District

To: Board of Managers

Date: April 17, 2019

From: Catherine Nester

Subject: District Technician/Inspector Report (March 20, 2019 – April 16, 2019)

Highlights from Preceding Months

- ✓ Continued installing stream monitoring equipment and performing routine stream monitoring.
- ✓ Confirmed volunteers and stocked supply boxes for the Met Council's Citizen-Assisted Monitoring Program (CAMP).
- ✓ Ongoing cleaning and organization of garage storage areas, including disposal of old monitoring equipment that is no longer used.
- ✓ Ongoing routine permit management, including on-site meetings, as-built survey reviews, filing records, etc.
- ✓ Performed 3 regulatory inspections.
- ✓ Drafted portions of and assembled the Regulatory section of the annual report.
- ✓ Attended a meeting on source water protection hosted by the Met Council on March 21.
- ✓ Researched the 3M settlement and attended a meeting hosted by the MPCA on April 3.

MEMORANDUM

Rice Creek Watershed District

To: Board of Managers
From: Tom Schmidt, Public Drainage Inspector
Subject: Staff Report for March/April 2019

Date: April 17, 2019

Highlights for Preceding Month(s)

- ✓ Met with Columbus city staff regarding future stormwater management studies on ACD 15 (on-going);
- ✓ Continued spring flood inspections throughout the District (in-progress);
- ✓ Continued to respond to reports of flooding thorough out the District (on-going);
- ✓ Completed solicitations of bids for 2019 minor maintenance projects with several contractors (complete);
- ✓ Continued discussions with Pine Tree Realty (current office space owners) for potential extension of office space lease (in-progress);
- ✓ Assisted staff and consultants on various permit projects related to the Public Drainage system (Jeff Morrell, Oakwood Ponds, Watermark, etc.) (on-going);
- ✓ Contracted with Scandia Trucking for minor clean-outs of blocked culverts in several locations within the District (complete);
- ✓ Assisted staff with technical questions/data collection (ongoing);
- ✓ Continued to meet and talk with landowners concerning repair reports as well as other landowners on various drainage systems regarding drainage concerns (ongoing);

Upcoming Activities

- ✓ Completion of re-route of AWJD #4, Branch #4 in Forest Lake (waiting for road postings);
- ✓ WJD #2, Branch #1 repair project (excavation) (Scandia Trucking and Excavating) (waiting for road postings);
- ✓ Excavation of ACD #31 branch #2 from Norte Dame to Vassar St (waiting for road postings);
- ✓ Prepare for the upcoming 2019 field/construction season (on-going).

MEMORANDUM

Rice Creek Watershed District

To: Board of Managers

Date: 4/16/2019

From: Theresa Stasica

Subject: Office Manager 3/21-4/16

- Coded invoices for payment this month which were reviewed by Administrator Phil Belfiori and sent to our accountant Nancy Martinson via an excel spreadsheet.
- Track Accounts Receivable for District.
- Track and invoice (if needed) for grant.
- Deposited checks.
- Send out/process/track ROW payments for several special assessment.
- Handled HR/Benefit issues.
- Starting to setup information for new hires.
- Working on banking transition.
- Met auditors for exit interview.
- Provide workshop/special meeting minutes and reviewed and edited regular Board minutes.
- Provide appropriate notices and postcard mailings for landowner information meetings, public hearings, special meetings, and meeting changes.
- Provide information, assembled and distributed board packets, and post on website.
- Updated materials on the website.
- Attended board meetings.
- Attend public hearing.
- Attended staff meetings.
- Placed orders for supplies as needed.
- Assisted staff in their daily activities.
- Scanning documents that District receives into Laserfiche.
- Maintain filing system on and off site.
- Answered phones and assist public.

MEMORANDUM

Rice Creek Watershed District

To: Board of Managers

Date: April 17, 2019

From: Terrence Chastan-Davis

Subject: District Inspector Report (March 21-April 17, 2019)

Highlights from Preceding Month

- ✓ Completed 17 inspections of projects and review files to confirm rule compliance.
 - Met with site supervisors 8 times to discuss corrective actions on site.
 - Sent out inspection reports with specified corrective actions and requested updates when corrective actions were complete.
- ✓ Inspected #16-109 & #17-085 MNDOT design build projects during bi-weekly walk throughs in collaboration with multiple organizations.
- ✓ Recommended permit closure for 2 permits.
- ✓ Organized and participated in the inspector team meeting to discuss program efficiencies and projects with inspection and review staff.
- ✓ Attended the permit triage meeting to discuss updates with MNDOT design build projects.
- ✓ Reviewed MNDOT design build package submittals and coordinated with HEI.
- ✓ Recommended 2 permit extension for an unfinished project.
- ✓ Recommended permit closure for 2 permits.
- ✓ Assisted in the interview process for new RCWD technicians.
- ✓ Attended 3 separate pre-construction meetings and discussed District expectations for upcoming projects.
- ✓ Attended and received updates at the weekly West Shadow Lake Dr. project.
- ✓ Assisted in responding to questions and concerns from the public.

MEMORANDUM

Rice Creek Watershed District

To: Board of Managers **Date:** 4/17/2019
From: Ashlee Ricci
Subject: District Technical Assistant Report (03/21/2019 – 04/17/2019)

Highlights from Preceding Months

- ✓ Performed routine equipment maintenance for lake sampling; PIT station-batteries
- ✓ Assisted permit applicants in submitting correct “incomplete” and “CAPROC” items
- ✓ Created new review files and permit files in the online database and in Laserfiche
- ✓ Responded to various landowners about permit requirements
- ✓ Attended regular staff meetings and permit triage
- ✓ Completed initial review of permit applications
- ✓ Responded to citizen calls regarding rules
- ✓ Responded to citizen calls regarding drainage concerns; inspected when concern near PDS
- ✓ Coordinate drainage maintenance projects with contractor pool
- ✓ Respond to citizens’ questions about AWJD 3 Repair Report letter
- ✓ Respond to applicants about 103E requirements
- ✓ Attend pre-construction meeting for grading near ACD 53-62/ACD 10-22-32
- ✓ Spring flooding inspections for RCD 11, RWJD 1, Rice Creek
- ✓ Spring flooding inspections for various District Facilities
- ✓ Inspect and respond to landowner concern about ACD 31 culvert crossing
- ✓ Attend Laserfiche webinar

MEMORANDUM

Rice Creek Watershed District

To: Board of Managers **Date:** 04/17/2019

From: Patrick Hughes

Subject: Regulatory Assistant 03/20/2019 - 04/17/2019

- Created new permit files for the online database
- Created new review files for the online database
- Sent notices of wetland boundary applications – 18-167R, 19-005
- Sent notice of replacement plan decision – 19-010
- Sent out multiple CAPROC (board) notices
- Issued multiple permits
- Responded to various landowners about permit requirements (general inquiries)
- Reviewed permit application – 19-028
- Noticed Board of Managers for application status – 18-036, 19-009, 19-015, 19-022, 19-026, 19-027, 19-028, 19-029, 19-032, 19-033
- Sent out administrative CAPROC notices – 19-009, 19-015, 19-016, 19-022, 19-026, 19-032
- Contributed to the amended engineer's report for 14-018
- Assisted in reviewing candidates for the open position
- Attended meeting for the NE Hornsby Street Realignment & TH 97 Improvement project
- Hosted 1295 Leibel Street pre-application meeting
- Attended Blaine Water Treatment Plant 4 pre-application meeting

ITEMS FOR DISCUSSION AND INFORMATION

2. May Calendar.

APRIL							MAY						
S	M	T	W	T	F	S	S	M	T	W	T	F	S
	1	2	3	4	5	6				1	2	3	4
7	8	9	10	11	12	13	5	6	7	8	9	10	11
14	15	16	17	18	19	20	12	13	14	15	16	17	18
21	22	23	24	25	26	27	19	20	21	22	23	24	25
28	29	30					26	27	28	29	30	31	

To: RCWD Board of Managers
 From: Theresa
 Date: April 16, 2019
 Subject: Significant Dates during Month of May

- Wednesday, May 1, 5:30 p.m.** Citizen Advisory Committee Meeting, RCWD conference room, Board Liaison Manager Bradley
- Thursday, May 2, 1-4p.m.** City/County Partner Meeting and TAC, Review Watershed Financing & Watershed Plan Impl. Chapters of Draft 2020 RCWD WMP.
 Ramsey County Library Shoreview, 4560 St. N. Shoreview
- Monday, May 6, 1 p.m.** Board Workshop
 RCWD District Conference Room
- Wednesday, May 8, 9:00 a.m.** Regular Board of Managers Meeting
 at Shoreview City Hall Council Chambers
- Wednesday, May 22, 9:00 a.m.** Regular Board of Managers Meeting
 at Shoreview City Hall Council Chambers.
- Monday, May 27** Memorial Day Holiday, office closed

Deadline for submission of per diem claims is May 13, 2019