RAMSEY-WASHINGTON
METRO WATERSHED DISTRICT

March 2022
Board Packet

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Agenda

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RAMSEY-WASHINGTON
METRO WATERSHED DISTRICT

Regular Board Meeting Agenda

Wednesday, March 2, 2022
6:30 PM

Due to the COVID19 pandemic, this month's board meeting will be held via the video conferencing platform Zoom. Board members, staff, consultants, and general public will be able to join in via video and/or phone. The public that wish to will be able to listen to meeting but not participate with the exception of the visitor comments portion of the agenda. If you have comments you may speak on the Zoom meeting during the visitor comments agenda item. Instructions for joining in on the Zoom meeting can be found after the agenda.

1. Call to Order – 6:30 PM
2. **Approval of Agenda *(pg. 3)***
3. Recognition of Outgoing Board Member – Cliff Aichinger *(pg. 6)*
4. **Consent Agenda: To all be approved with one motion unless removed from consent agenda for discussion.**
    A. Approval of Regular Meeting Minutes February 2, 2022 *(pg. 8)*
    B. Treasurer's Report and Bill List *(pg. 18)*
    C. Permit Program
        i. 22-06 Gold Line BRT – Woodland Park and Ride, Woodbury *(pg. 33)*
        ii. 22-07 North St. Paul 2022 SIP, North St. Paul *(pg. 37)*
    D. Stewardship Grant Program
        i. 22-05 CS McCoy, White Bear Lake, rain garden and bee lawn *(pg. 40)*
        ii. 22-06 CS Goodrich Golf Course, St. Paul, habitat restoration *(pg. 42)*
        iii. 22-07 CS Cope Avenue Improvements, Maplewood, impervious surface reduction *(pg. 44)*
        iv. 22-08 CS Battle Creek Middle School, St. Paul, filtration basin *(pg. 47)*
    E. 2022 CIP Maintenance and Repair – Change Order No. 1 *(pg. 50)*
    F. Ryan Drive & Keller Parkway Conveyance – Change Order No. 2 *(pg. 68)*
5. Visitor Comments (limited to 4 minutes each)
6. West Vadnais Lake Discussion with Vadnais Lake Area Watershed Management *(pg. 76)* Organization Board Subcommittee
7. Permit Program
    A. Applications – see consent agenda
    B. Enforcement Action Report *(pg. 79)*
8. Stewardship Grant Program

A. Applications – see consent agenda
B. Budget Status Update *(pg. 82)*

9. Action Items
   A. **Board of Managers Annual Meeting *(pg. 84)***
10. Attorney Report
11. Board Issues, Policies and Operation (for discussion at meeting)
   A. Future Meetings
   B. Administrator Review
   C. West Vadnais Lake
   D. Wetland Policies and 10-Year Plan
12. Presentations
   A. District Inspection Standardization Project Update *(pg. 107)*
   B. Owasso Basin/North Star Estates Flood Improvements Scope Summary *(pg. 122)*
13. Administrator's Report *(pg. 128)*
   A. Meetings Attended
   B. Upcoming Meetings and Dates
   C. Office COVID Update
   D. Board Appointment Process
   E. WaterFest Planning
   F. MAWD Legislative Event
14. Project and Program Status Reports
   A. Ongoing Program and Project Status Updates *(pg. 132)*
      i. Interim Emergency Response Planning
      ii. Kohlman Creek and Phalen Chain of Lakes Flood Risk Reduction Feasibility Study
      iii. Owasso Basin/North Star Estates Improvements
      iv. Shallow Lake Aeration Study
      v. North St. Paul Target Store
      vi. East St. Paul Target Store
      vii. Targeted Retrofit Projects
      viii. Ryan Drive and Keller Parkway Conveyance Project
      ix. District Inspection Standardization
      x. CIP Maintenance and Repair Project 2022
      xi. New Technology Review: Beet Juice and Salt Mixtures for De-Icing
      xii. Natural Resources Program Update
      xiii. Education Program Update
      xiv. Communications Program and Website Update
      xv. CAC Meeting Update
15. Manager Comments and Next Month's Meeting
16. **Adjourn**

RAMSEY-WASHINGTON
METRO WATERSHED DISTRICT

NOTICE OF BOARD MEETING
Wednesday, March 2, 2022
6:30 PM
Via Web Conference and In Lieu of an In-Person Meeting

Per Minnesota Statute 13D.021, President Lawrence Swope has determined that an in-person meeting of the RWMWD Board of Managers is not practical or prudent given the COVID-19 pandemic. In compliance with Center for Disease Control and Minnesota Department of Health guidance on minimizing potential for spread of the virus, RWMWD will conduct its regular Wednesday, March 2, 2022, meeting at 6:30 p.m. CDT, by web conference and conference call. Members of the public wishing to participate in the meeting may do so by accessing the web-based conference, or by phone. Due to the current health pandemic, President Swope has determined that attendance at the regular meeting location by members of the public is not prudent, and that the physical presence at the regular meeting location by at least one member of the organization is also not feasible.

To access the meeting via webcast, please use this link: https://us02web.zoom.us/j/81480103381?pwd=ZjVSZkVOWXdGOENsaVh0ZDZFNzlKUT09

The meeting room will open at 6:20 pm with the meeting starting at 6:30 pm. To connect to audio you may choose to use your computer audio options or you may use your mobile device to call. The phone access number is **(312) 626-6799**. The Meeting ID is **814 8010 3381**. The meeting password is **685872**. If you have any questions, please contact Tina Carstens at tina.carstens@rwmwd.org.

Certificate of Appreciation

Presented to

Cliff Aichinger

in recognition and grateful appreciation for over
40 years of dedication, leadership, and service
to the Ramsey-Washington Metro Watershed District,
including the last **seven years** as a Board Manager.

RAMSEY-WASHINGTON
METRO WATERSHED DISTRICT

March 2, 2022

Lawrence Swope, President

Tina Carstens, Administrator

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Consent Agenda

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Ramsey-Washington Metro Watershed District
Minutes of Regular Board Meeting
February 2, 2022

The Regular Meeting of February 2, 2022, was held via Zoom web conferencing. A video recording of the meeting can be found at https://youtu.be/K2zkHa21jeE. Video time stamps included after each agenda item in minutes.

PRESENT:
Larry Swope, President
Cliff Aichinger, Vice President
Dianne Ward, Treasurer
Val Eisele, Manager

ABSENT:
Dr. Pam Skinner, Secretary

ALSO PRESENT:
Tina Carstens, District Administrator
Laurann Kirschner, Attorney for District
Nicole Soderholm, Permit Inspector
Bill Bartodziej, Natural Resource Specialist
Lauren Hazenson, Communications Coordinator
Paige Ahlborg, Project Manager
Brad Lindaman, Barr Engineering
Karen Wold, Barr Engineering
Dave Vlasin, Project Coordinator
Daniel Parks, Westwood Professional Services
Tyler Maxson, Westwood Professional Services
Ian Simonson, LSE Architects

1. CALL TO ORDER
The meeting was called to order by President Swope at 6:30 p.m.

2. APPROVAL OF AGENDA (0:00:20)

Motion: Manager Ward moved, Manager Aichinger seconded, to approve the agenda as presented.

A roll call vote was performed:

Manager Aichinger	aye
Manager Ward	aye
Manager Eisele	absent/lost connection
President Swope	aye

Motion carried unanimously.

3. CONSENT AGENDA (0:01:55)
A. Approval of Minutes from January 5, 2022
B. Treasurer's Report and Bill List
C. Permit Program
   i. 22-02 – Little Canada 2022 Street Improvements, Little Canada
   ii. 22-04 – Maplewood Gardens Garage and Parking, Maplewood
D. Ryan Drive & Keller Parkway Conveyance – Change Order No. 1

Motion: Manager Aichinger moved, Manager Ward seconded, to approve the consent agenda as presented.

A roll call vote was performed:

Manager Aichinger	aye
Manager Ward	aye
Manager Eisele	aye
President Swope	aye

Motion carried unanimously.

4. VISITOR COMMENTS (0:02:22)

There were none.

5. PERMIT PROGRAM (0:02:48)

A. Applications

Permit #22-03: Gervais Wood 2nd Addition – Little Canada

Nicole Soderholm presented an application with a variance request for temporary wetland disturbance and welcomed any questions.

Manager Aichinger asked for details on the first addition. Nicole Soderholm believed the first addition occurred in 2007 to the east, closer to the lake.

Manager Aichinger commented that this property was fairly contentious for some time related to the wetlands. He was glad to see this moving along with development occurring where it can. He asked if the average minimum setback is met. Nicole Soderholm confirmed that the buffer will be provided and provided details on the temporary disturbance proposed during construction. She stated that staff will inspection for erosion control and would ensure vegetation establishment before closing out the permit.

President Swope asked if the native wetland mix would mimic what currently exists. Nicole Soderholm explained that the mix is based on the anticipated hydrology. She noted that the vegetation would most likely be higher quality than what currently exists.

Manager Eisele rejoined the meeting.

Motion: Manager Ward moved, Manager Aichinger seconded, to approve Permit #22-03.

A roll call vote was performed:

Manager Aichinger	aye
Manager Ward	aye
Manager Eisele	aye
President Swope	aye

Motion carried unanimously.

Permit #22-05: Amira Senior Apartments – Woodbury

Nicole Soderholm presented a request for a senior living facility. She noted that a previous development request proposed to fill wetlands, which was denied by the Board. She stated that this applicant purchased additional property to avoid wetland impacts. She stated that Woodbury has more stringent setbacks and concern for

removal of mature trees, therefore the city requested the north wetland to be expanded with an upland buffer. She stated that temporary wetland buffer disturbance would occur through that process and therefore a similar request is being made for that action. She stated that the buffer requirements will be met, and no permanent wetland impacts would occur.

Manager Aichinger commented that it appears the wetland expansion is being done voluntarily. Nicole Soderholm noted that while not required by the watershed rules, the city did request that action in return for reduced setbacks. She stated that the applicant worked closely with Woodbury on the tree inventory and preservation of the good quality mature trees.

President Swope asked why the wetland classification was changed from A to B. Nicole Soderholm replied that the previous MnRAM assessment is not always accurate and noted that data was provided to support the classification change which was overseen by BWSR. She noted that even though the change in classification would minimize the buffer, the buffer is actually being expanded. She noted that the other wetland did not previously have a classification and has since been rated as low quality.

President Swope asked what would occur if the wetland next to the building were to rise and reduce the buffer. Daniel Parks, representing the applicant, replied that is a low-lying area with a foot or so of elevation that would allow for overflow, therefore it would continue to operate as it does today. He noted that it is well below the building and therefore would not impact the building. Tina Carstens stated that wetland buffers are meant to take on water and vary, therefore there would be no violation from the District if that were to occur and reduce the buffer.

Motion: Manager Aichinger moved, Manager Ward seconded, to approve Permit #22-05.

A roll call vote was performed:

Manager Aichinger	aye
Manager Ward	aye
Manager Eisele	aye
President Swope	aye

Motion carried unanimously.

B. Monthly Enforcement Report

During January, zero notices were sent.

C. Erosion and Sediment Control Inspection Example

Nicole Soderholm noted that a sample inspection report was included in the packet for the Board review following a previous discussion of the Board related to inspections.

Manager Aichinger asked if the inspection is logged into the files for the District. Nicole Soderholm confirmed that the data is logged and provided details on that process.

6. STEWARDSHIP GRANT PROGRAM (0:25:35)

A. Applications

Permit #22--02 CS: Christ Lutheran Church – North St. Paul, 5 Rain Gardens

Tina Carstens commented that this is a bigger project for five rain gardens, noting that porous asphalt was also reviewed but determined not to be cost effective. She stated that staff asked the vegetation plan to be increased, which increased the cost over the $100,000 cost threshold.

President Swope asked if the planting plan includes more variety or beauty. Tina Carstens stated that the planting area was expanded, using more plugs than seeding, and includes more variety.

President Swope asked if there would be signage advertising the District program. Tina Carstens confirmed that the typical signage would be installed.

Manager Aichinger commented that this is a great site that will treat a lot of rooftop area. He stated that he supports the higher amount.

Manager Eisele agreed that the return on investment is worth the additional cost.

Motion: Manager Eisele moved, Manager Aichinger seconded, to approve Permit #22-02 CS.

A roll call vote was performed:

Manager Aichinger	aye
Manager Ward	aye
Manager Eisele	aye
President Swope	aye

Motion carried unanimously.

B. Budget Status Update
Noted.

7. ACTION ITEMS (0:28:51)

A. Tanners Lake Outlet Coordination
Brad Lindaman provided background information on a study of the Tanners Lake area that was completed in the 1990s. He stated that MnDOT will be completing major reconstruction of I-94, which provides an opportunity to upgrade pipes under the freeway at the same time. He reviewed the different scenarios included in the packet for the Board to review. He also provided a summary of the different cost estimates for each scenario and noted that staff would suggest scenario three.

President Swope stated that he agrees with scenario three. He asked how the utilities would be avoided through this process. Brad Lindaman provided additional explanation noting that utility conflicts exist above and below, therefore adding a second adjacent pipe would avoid that situation.

Manager Aichinger stated that scenario three seems a difficult choice as he does not see there being additional capacity downstream in the future. He questioned the benefit of having that extra pipe. Brad Lindaman commented that there is a low probability of being able to use the second pipe, but perhaps there is a time in the future where more capacity can be created downstream.

Manager Aichinger asked the cost difference between scenario two and three. Manager Eisele replied that the difference is about $150,000.

President Swope stated that this may be an opportunity for management, similar to the weir systems. He stated that there could be opportunity to open the extra pipe when water is high upstream but low downstream.

Manager Aichinger asked if there are available funds for this use. Tina Carstens confirmed that the flood risk reduction fund has a balance of over $2,000,000 that has not been dedicated at this time. She commented that the opportunity to put this in is too great to pass over.

Manager Eisele asked if there are control structures that should be put in place with this change that could also take opportunity of the road construction. Brad Lindaman believed this was the only work that would occur with the MnDOT project. He noted that the control structures could be done at any time in the future as its own project.

Manager Eisele asked if the District would encourage a study for changing the flow out of Tanners Lake. Brad Lindaman commented that the Board could review its prioritization to determine when that should be addressed. He confirmed that this is on the list but is not at the top of the list and would not have to be done as part of this project.

Manager Eisele asked if the $370,000 would be incurred during this year or spread across multiple years. Tina Carstens was unsure if the project is going to be constructed in 2022 or 2023.

Manager Eisele asked who would be responsible for maintenance if a pipe were to plug. Brad Lindaman stated that it would be his assumption that it would be the responsibility of MnDOT but that should be clarified as the District would be contributing funds.

Manager Eisele stated that he strongly supports scenario three but wants to ensure the details have been thought out. He noted that this action would seem to be highly advantageous even if the benefits will not be realized for ten years or longer.

Manager Ward commented that the Board has been reviewing reports, prioritizing, and planning and has also pursued low hanging fruit when it arises. She stated that scenario three would make sense because of the low cost to do it at this time compared to the cost it would have in the future.

Motion: Manager Aichinger moved, Manager Eisele seconded, to support scenario three and continue to coordinate with MnDOT on the pipe replacement.

A roll call vote was performed:

Manager Aichinger	aye
Manager Ward	aye
Manager Eisele	aye
President Swope	aye

Motion carried unanimously.

8. ATTORNEY REPORT (0:47:40)

Laurann Kirschner stated that they posted notice for the annual meeting which will take place in March. She noted that this is the year that the District solicits proposals for engineering, legal and accounting services. She stated that she has also been working on agreements for upcoming CIP projects.

9. BOARD ISSUES, POLICIES AND OPERATION (FOR DISCUSSION AT MEETING) (0:49:16)

A. Wetlands

Noted.

10. PRESENTATIONS (0:49:35)

A. District Wetlands Discussion

Brad Lindaman provided background information based on the previous discussions of the Board. He stated that they included the flooded wetlands report and explained how they use the MnRAM assessment in order to provide additional information for the Board.

President Swope provided the example of Wetland A, which has changed characteristics and asked how that is accounted for in terms of management. He stated that the wetland has functionally changed and therefore has not been preserved and protected. He commented that even though increased water levels temporarily impact invasive species, those will just return when the water levels decrease. Brad Lindaman commented that within managed A, it allows for different characteristics. He stated that even though the flooded conditions may have changed some characteristics, it still falls within a preserve and protect wetland.

Manager Aichinger stated that naturally, wetlands change dramatically from decade to decade. He commented that there are still valuable characteristics even when a wetland becomes more flooded with water. He noted that a wetland is meant to fluctuate.

President Swope commented that he understands fluctuation but noted that Wetland A has never experienced fluctuation of this nature. He commented that there is a lot of water coming in from the north which should be buffered to help the wetland recover. He commented that when wetlands are used for flood storage, they are changed. Tina Carstens commented that there are natural fluctuations especially during flood years. She commented there are also trade-offs that are reviewed noting the balance between mitigating the risk of flooding and wetlands.

Manager Aichinger provided additional background on the review that has been done of wetlands in the District. He noted that prior to the 1990s you were not prohibited from shunting storm sewer into wetlands and therefore wetlands became flood storage and stormwater ponds. He stated that they could not physically restore all those wetlands as they have created a system where storm sewer and roadways are connected to wetlands. He stated that when there are a few dry years and the ground water drops, those areas will go back to normal. He stated that stormwater management and flood storage is part of the MnRAM assessment process.

President Swope commented that he would like to see a policy or process stating that when water is stored in a wetland, there is a process to get it back out. He commented that he wants to ensure the condition of the wetland is not impacted by prolonged storage of water. Tina Carstens commented that it would be nearly impossible to manage wetlands across the district in that way based on climate conditions.

President Swope commented that there should be a policy that if water is going to be stored in a wetland, there should also be intention to return the wetland to its original state. Brad Lindaman commented that the MnRAM assessment method has been used for many years. He asked how the District would know where a change is too much that it needs to be corrected. He stated that there will always be naturally occurring changes.

Manager Aichinger commented that when system modeling is done, they evaluate any potential change against its impact on the overall system. He believed that the system works and recognized that the result and residual may not be to everyone's liking.

President Swope commented that a unique pumping system was installed to move water away from at risk homes. He stated that there are no such plans for wetland A, even though rain events overflow into wetland A without plans for getting the water out of that area. He asked what is meant by preserve and protect. Tina Carstens commented that the permitting program not only uses the current regulations but also attempts to backtrack and mitigate changes in the watershed that have occurred in the past. Manager Aichinger commented that wetlands change all the time. He stated that the rules state to preserve and protect all wetlands. He stated that there cannot be a policy that restricts change in wetlands because that happens naturally, and it will continue to happen more with climate change. He recognized that there were faults with development in the past and noted that

there are now rules in place related to infiltration and water quality. He stated that as development changes, they will catch up, but it is a slow process, and they cannot require restoration when there are not that many opportunities.

President Swope asked if there has been an updated wetland review or whether that is planned. Karen Wold replied that Grass Lake was a specific situation because of the flooding concerns. She commented that the last review was perhaps in 2003 to 2007. She commented that it could be a good idea to do another review, but the State is working in coordination with Wisconsin to develop a new functional assessment methodology. She believed it would be advantageous to wait until that methodology is completed to do another review. Tina Carstens commented that a sampling of other wetlands was done in the district to determine the level of change, believing perhaps that occurred in 2013. She stated that there was very minimal change in classification at that time of review.

Karen Wold commented that additional hydrology guidelines could be implemented and reviewed when applications come before the Board if desired but noted that would be a change to the District rules.

Manager Aichinger commented that perhaps the time to discuss this more would be when the Wetland Management Plan is updated.

President Swope believed that there was an action step in 2019 related to updating the Plan and believed it would be the time to do that. Tina Carstens stated that a plan update is not due until 2027 and advised that the process would most likely start in two years.

Manager Eisele asked for clarification on the MnRAM assessment. Karen Wold provided additional clarification on how the assessment works. She stated that if there are some things that do not seem to make sense, additional review could be done. She noted that if some wetlands are being ranked higher than they should be, the related criteria could be linked to another item, such as quality vegetation.

Manager Eisele asked if there are triggers that should be used in the metric. Karen Wold commented that if there is additional information indicating that the system is overwhelmed or if there is too much sediment loading, that will eventually lower the category. Tina Carstens stated the length of time is another consideration. She noted that while the rating probably would not change between 2019 and 2022, some of the answers may change.

Manager Eisele stated that there is a bias towards preserve, which he understands. He stated that perhaps there is signal in the noise that could be further developed. Karen Wold stated that if there is more consistency in the hydrology in wetland A, the work that has been done will be a benefit such as planting native plant communities to prevent invasive species from coming back.

Nicole Soderholm stated that they should consider how the MnRAM assessment is applied in the rules versus a review of the Board. She stated that the flowchart is meant to be conservative in terms of application review.

President Swope commented that it is still a good wetland even though it is not the same wetland it was before, and his question was whether that was okay.

Manager Ward provided a video of water overflowing from Grass Lake into wetland A from 2016. She commented that it was a lot of water flowing which increased the elevation of wetland A by ten feet. She stated that in 2018 the overflow was installed which filled the wetland to almost its highest point. She stated that once the outlet from West Vadnais was put in, the elevation in wetland A has dropped quickly. She agreed that wetlands do have bounce but noted that in this instance it was overflow from Grass Lake. She stated that if wetland A goes back to normal, would the plantings then be at the right elevation. Bill Bartodziej commented that some of the emergent

plants at the higher elevation are not going to do so well but the established seed bank is quite viable and there is a good chance to see natives migrate down with the water level.

Manager Ward commented that Snail Lake got low this past year as well. Tina Carstens stated that there is a narrower band at Snail and therefore the design took that into account. She stated that plantings were extended last year to address the lower water levels.

Manager Ward commented that many trees and plants died as a result of being under water for a long period of time. She asked how that is balanced with the drowning of canary grass. Karen Wold commented that the species listed in 2013 were primarily invasive species.

Manager Aichinger commented that the wooded areas are not considered wetland. Karen Wold agreed that those trees were on the fringe and would be considered upland. Manager Aichinger commented that MnRAM is not meant to assess that.

Manager Ward asked if that could be something that is considered when asking what is too much change. Manager Aichinger commented that those are great points and there is significance beyond the district. He asked if this discussion should occur on a broader platform. Karen Wold agreed that all metro watersheds have been experiencing flooding over the past few years.

Tina Carstens commented that if that is defined, she would wonder what the next step would be and what could or could not be done.

Manager Eisele stated that he would be interested in receiving updates as the State is going through the new assessment methodology process. Karen Wold noted that she will be a part of the technical committee review and will provide updates and solicit input from stakeholders.

B. Flood Risk Project Scope Summary Updates

Brad Lindaman stated that the scope summaries were included in the packet for consideration.

President Swope commented that he liked the map on page six and enjoys seeing the structures that are impacted by different levels of flood events. He noted that the District may not always be able to accomplish large scale projects, but there are some smaller projects that could be done to remove some homes from the risk zone. He commented that the maps also show how these investments made things better.

Manager Eisele asked if action is needed by the Board to approve the additional spend. Tina Carstens commented that she does not need that action as there are contingency funds to complete that work.

It was the consensus of the Board to continue with the increased scope summary.

Brad Lindaman provided additional details on the second scope summary, noting that more information will be known in early March. He noted that project does not have a huge price tag and asked if the Board wanted to move forward regardless or wait. President Swope commented that he believes it to be a good project that should be completed even if the grant is not awarded.

Tina Carstens commented that she believes this project was already budgeted for and the grant expanded community engagement opportunities. She agreed that the District should continue to move forward the Board agreed.

Motion: Manager Eisele moved, Manager Aichinger seconded, to proceed with the proposed adjustments in the flood risk reduction and emergency response planning projects as outlined in the scope summary.

A roll call vote was performed:

Manager Aichinger	aye
Manager Ward	aye
Manager Eisele	aye
President Swope	aye

Motion carried unanimously.

C. Website Update and Prototype Presentation

Lauren Hazenson highlighted some of the items that were included in the executive summary that was reviewed a few months ago. She noted that those items will be included in the final website design. She stated that they are also working on new content and provided additional details. She provided an overview of the prototype to show more of the navigation features and functionality, noting that additional content will be added as the process moves along.

Manager Ward asked if the CAC info was located on the Get Involved tab. Lauren Hazenson stated that currently that information is found under the About tab and could be placed under Get Involved seasonally depending on the volunteer opportunities. Manager Ward believed that the CAC should be found under both tabs.

The Managers commended Lauren Hazenson for her work thus far. Lauren Hazenson welcomed additional input the Board may have and reviewed the rough schedule moving forward. She estimated that a rough design would be finished by mid-March and would then begin to populate content.

Manager Eisele stated that he would love to participate as a test user if additional users are needed. Lauren Hazenson stated that once that time arises, she will provide an update to the Board. She noted that they are attempting to gain input from users that are separate from the stakeholders that provided input.

11. ADMINISTRATOR'S REPORT (2:50:22)

A. Meetings Attended

Noted.

B. Upcoming Meetings and Dates

Noted.

C. Ongoing Project/Program Updates

Tina Carstens noted that the Victoria Shores response to comment was included for the Board to review. She stated that the City Council did approve a revised plat for Victoria Shores, noting that none of the lakeshore lots will have riparian rights and the access points have been limited from six to four.

12. PROJECT AND PROGRAM STATUS REPORTS (2:54:38)

A. Ongoing Project and Program Updates

i. Interim Emergency Response Planning
ii. Kohlman Creek and Phalen Chain of Lakes Flood Risk Reduction Feasibility Study
iii. Grass Lake Berm Wetland Mitigation
iv. Kohlman Permeable Weir Test System
v. Shallow Lake Aeration Study
vi. Keller Channel and Phalen Outlet Operations Plans
vii. Targeted Retrofit Projects

viii. Ryan Drive and Keller Parkway Conveyance Project
ix. District Inspection Standardization
x. CIP Maintenance and Repair Project 2021
xi. CIP Maintenance and Repair Project 2022
xii. Natural Resources Program Update
xiii. Education Program Update
xiv. Communications Program and Website Update

Manager Ward asked if a news release was done related to the District budget. Tina Carstens did not believe a press release was sent to media outlets. She noted that the information was sent to the *Ripple Effect* and posted on the District website.

President Swope believed that information should be shared with media outlets to show good news related to property taxes. Tina Carstens commented that she was not aware the Board was interested in the media and believed the intent was to share with residents through the typical channels. Lauren Hazenson stated that she could develop a press release to send out. President Swope believed that would be a good idea.

Manager Ward commented that it would have been nice to tie that release to the adoption of the budget or the budget adoption by the counties. She stated that perhaps there is another window that would make sense to link to.

Manager Aichinger commented that the press release could be sent out and acknowledged that it may not be picked up. Lauren Hazenson commented that the timing could be linked to the upcoming tax season.

President Swope commended staff for the carp removal. Bill Bartodziej provided details on the netting process. He noted that they are not seeing young of the year carp in the removal, which is positive news.

13. MANAGER COMMENTS AND NEXT MONTH'S MEETING (3:01:36)

Manager Aichinger commented that he did not seek reappointment to his position, which expires later this month. He noted that Ramsey County will appoint someone new to fill his position. He noted that he plans to retrofit a van as a camper and travel for much of the next year. He commented that it has been a privilege to serve on the Board and he is looking forward to new things.

President Swope and the Board thanked Manager Aichinger for his contributions and wished him well in his endeavors.

Tina Carstens recognized the contributions that Manager Aichinger has provided to the District over the past 40 years.

14. ADJOURN

Motion: Manager Aichinger moved, Manager Eisele seconded, to adjourn the meeting at 9:37 p.m. Motion carried unanimously.

RWMWD BUDGET STATUS REPORT
Administrative & Program Budget
Fiscal Year 2022
2/28/2022

Budget Category	Budget Item	Account Number	Original Budget	Budget Transfers	Current Month Expenses	Year-to-Date Expenses	Current Budget Balance	Percent of Budget
Manager	Per diems	4355	$8,500.00	-	84.10	84.10	$8,415.90	0.99%
	Manager expenses	4360	4,000.00	-	-	-	4,000.00	0.00%
Committees	Committee/Bd Mtg. Exp.	4365	3,500.00	-	300.00	527.00	2,973.00	15.06%
	Sub-Total: Managers/Committees:		**$16,000.00**	**$0.00**	**$384.10**	**$611.10**	**$15,388.90**	**3.82%**
Employees	Staff salary/taxes/benefits	4010	1,660,000.00	-	112,451.66	228,816.51	1,431,183.49	13.78%
	Employee expenses	4020	15,000.00	-	531.16	548.89	14,451.11	3.66%
	District training & education	4350	75,000.00	-	355.44	1,170.44	73,829.56	1.56%
	Sub-Total: Employees:		**$1,750,000.00**	**$0.00**	**$113,338.26**	**$230,535.84**	**$1,519,464.16**	**13.17%**
Administration/ Office	GIS system maint. & equip.	4170	10,000.00	-	-	987.02	9,012.98	9.87%
	Data Base/GIS Maintenance	4171	40,000.00	-	98.94	98.94	39,901.06	0.25%
	Equipment maintenance	4305	3,000.00	-	-	-	3,000.00	0.00%
	Telephone	4310	4,000.00	-	59.34	118.68	3,881.32	2.97%
	Office supplies	4320	7,000.00	-	17.75	53.62	6,946.38	0.77%
	IT/Internet/Web Site/Software Lic.	4325	75,000.00	-	6,360.32	12,679.53	62,320.47	16.91%
	Postage	4330	3,000.00	-	143.55	143.55	2,856.45	4.79%
	Printing/copying	4335	5,000.00	-	294.00	661.00	4,339.00	13.22%
	Dues & publications	4338	11,000.00	-	45.00	45.00	10,955.00	0.41%
	Janitorial/Trash Service	4341	15,000.00	-	1,329.00	1,923.00	13,077.00	12.82%
	Utilities/Bldg.Contracts	4342	30,000.00	-	827.11	1,419.19	28,580.81	4.73%
	Bldg/Site Maintenance	4343	150,000.00	-	2,858.64	2,858.64	147,141.36	1.91%
	Miscellaneous	4390	5,000.00	-	-	-	5,000.00	0.00%
	Insurance	4480	55,000.00	-	-	-	55,000.00	0.00%
	Office equipment	4703	150,000.00	-	-	-	150,000.00	0.00%
	Vehicle lease, maintenance	4810-40	20,000.00	-	158.20	254.45	19,745.55	1.27%
	Sub-Total: Administration/Office:		**$583,000.00**	**$0.00**	**$12,191.85**	**$21,242.62**	**$561,757.38**	**3.64%**
Consultants/ Outside Services	Auditor/Accounting	4110	70,000.00	-	3,920.52	4,284.52	65,715.48	6.12%
	Engineering-administration	4121	125,000.00	-	8,151.50	12,472.00	112,528.00	9.98%
	Engineering-permit I&E	4122	10,000.00	-	-	-	10,000.00	0.00%
	Engineering-eng. review	4123	60,000.00	-	8,941.50	12,532.00	47,468.00	20.89%
	Engineering-permit review	4124	55,000.00	-	6,234.50	10,410.50	44,589.50	18.93%
	Project Feasibility Studies	4129	410,000.00	-	7,599.00	9,212.00	400,788.00	2.25%
	Attorney-permits	4130	10,000.00	-	-	72.68	9,927.32	0.73%
	Attorney-general	4131	40,000.00	-	1,076.00	3,604.00	36,396.00	9.01%
	Outside Consulting Services	4160	20,000.00	-	-	-	20,000.00	0.00%
	Sub-Total: Consultants/Outside Services:		**$800,000.00**	**$0.00**	**$35,923.02**	**$52,587.70**	**$747,412.30**	**6.57%**
Programs	Educational programming	4370	75,000.00	-	2,516.28	3,151.19	71,848.81	4.20%
	Communications & Marketing	4371	50,000.00	-	50.00	100.00	49,900.00	0.20%
	Events	4372	46,000.00	-	-	-	46,000.00	0.00%
	Water QM-Engineering	4520-30	180,000.00	-	3,824.20	4,407.81	175,592.19	2.45%
	Project operations	4650	200,000.00	-	261.40	532.78	199,467.22	0.27%
	SLMP/TMDL Studies	4661	125,000.00	-	3,715.50	3,785.50	121,214.50	3.03%
	Natural Resources/Keller Creek	4670-72	120,000.00	-	186.95	186.95	119,813.05	0.16%
	Outside Prog.Support/Weed Mgmt.	44683	57,000.00	-	12,500.00	12,500.00	44,500.00	21.93%
	Research Projects	4695	225,000.00	-	904.00	3,352.00	221,648.00	1.49%
	Health and Safety Program	4697	3,000.00	-	-	-	3,000.00	0.00%
	Sub-Total: Programs:		**$1,081,000.00**	**$0.00**	**$23,958.33**	**$28,016.23**	**$1,052,983.77**	**2.59%**
GENERAL FUND TOTAL			**$4,230,000.00**	**$0.00**	**$185,795.56**	**$332,993.49**	**$3,897,006.51**	7.87%
CIP's	CIP Project Repair & Maintenance	516	1,500,000.00	-	154,238.61	175,615.13	1,324,384.87	11.71%
	Targeted Retrofit Projects	518	1,500,000.00	-	14,611.96	28,701.96	1,471,298.04	1.91%
	Flood Risk Reduction Fund	520	5,200,000.00	-	3,206.07	4,268.30	5,195,731.70	0.08%
	Debt Services-96-97 Beltline/MM/Battle Creek	526	394,710.00	-	4,423.95	276,190.20	118,519.80	69.97%
	Stewardship Grant Program Fund	529	1,000,000.00	-	271.87	6,640.37	993,359.63	0.66%
	Wetland Restoration Projects	540	500,000.00	-	-	-	500,000.00	0.00%
CIP BUDGET TOTAL			**$10,094,710.00**	**-**	**$176,752.46**	**$491,415.96**	**$9,603,294.04**	4.87%
TOTAL BUDGET			**$14,324,710.00**	**$0.00**	**$362,548.02**	**$824,409.45**	**$13,500,300.55**	**5.76%**

Current Fund Balances:

Fund:	Unaudited Beginning Fund Balance @ 12/31/21	Fund Transfers	Year to date Revenue	Current Month Expenses	Year to Date Expense	Unaudited Fund Balance @ 02/28/22
101 - General Fund	$2,382,979.19	-	274.41	185,795.56	332,993.49	2,050,260.11
516 - CIP Project Repair & Maintenance	185,792.64	-	-	154,238.61	175,615.13	10,177.51
518 - Targeted Retrofit Projects	1,047,480.74	-	-	14,611.96	28,701.96	1,018,778.78
520 - Flood Damage Reduction Fund	3,485,692.57	-	35.98	3,206.07	4,268.30	3,481,460.25
526 - Debt Services-96-97 Beltline/MM/Beltline-Battle Creek Tunnel Repair	643,475.91	-	-	4,423.95	276,190.20	367,285.71
529 - Stewardship Grant Program Fund	854,748.21	-	-	271.87	6,640.37	848,107.84
536 - Stormwater Impact Fund	309,836.56	-	-	-	-	309,836.56
540 - Wetland Restoration Projects	498,035.60	-	-	-	-	498,035.60
580 - Contingency Fund	1,436,341.00	-	-	-	-	1,436,341.00
Total District Fund Balance	**$10,844,382.42**	**$0.00**	**$ 310.39**	**$ 362,548.02**	**$824,409.45**	**$10,020,283.36**

RWMWD BUDGET STATUS REPORT
Administrative & Program Budget
Fiscal Year 2021
12/31/2021 - Updated 02/23/22

Budget Category	Budget Item	Account Number	Original Budget	Budget Transfers	Current Month Expenses	Year-to-Date Expenses	Current Budget Balance	Percent of Budget
Manager	Per diems	4355	$8,500.00	-	5,000.00	7,825.00	$675.00	92.06%
	Manager expenses	4360	3,500.00	-	-	-	3,500.00	0.00%
Committees	Committee/Bd Mtg. Exp.	4365	3,500.00	-	299.99	3,728.83	(228.83)	106.54%
	Sub-Total: Managers/Committees:		**$15,500.00**	**$0.00**	**$5,299.99**	**$11,553.83**	**$3,946.17**	**74.54%**
Employees	Staff salary/taxes/benefits	4010	1,520,000.00	-	117,306.16	1,575,866.25	(55,866.25)	103.68%
	Employee expenses	4020	15,000.00	-	616.84	7,133.32	7,866.68	47.56%
	District training & education	4350	75,000.00	-	1,720.54	15,960.24	59,039.76	21.28%
	Sub-Total: Employees:		**$1,610,000.00**	**$0.00**	**$119,643.54**	**$1,598,959.81**	**$11,040.19**	**99.31%**
Administration/ Office	GIS system maint. & equip.	4170	10,000.00	-	400.00	2,087.02	7,912.98	20.87%
	Data Base/GIS Maintenance	4171	40,000.00	-	420.00	4,190.00	35,810.00	10.48%
	Equipment maintenance	4305	3,000.00	-	-	-	3,000.00	0.00%
	Telephone	4310	8,000.00	-	668.34	1,308.06	6,691.94	16.35%
	Office supplies	4320	7,000.00	-	468.40	4,377.26	2,622.74	62.53%
	IT/Internet/Web Site/Software Lic.	4325	70,000.00	-	5,202.78	63,556.48	6,443.52	90.79%
	Postage	4330	3,000.00	-	34.80	2,208.49	791.51	73.62%
	Printing/copying	4335	8,000.00	-	617.40	4,981.80	3,018.20	62.27%
	Dues & publications	4338	11,000.00	-	-	11,567.63	(567.63)	105.16%
	Janitorial/Trash Service	4341	15,000.00	-	1,932.00	11,787.08	3,212.92	78.58%
	Utilities/Bldg.Contracts	4342	30,000.00	-	4,447.89	14,831.00	15,169.00	49.44%
	Bldg/Site Maintenance	4343	150,000.00	-	1,147.01	34,224.72	115,775.28	22.82%
	Miscellaneous	4390	5,000.00	-	-	-	5,000.00	0.00%
	Insurance	4480	50,000.00	-	-	44,642.00	5,358.00	89.28%
	Office equipment	4703	150,000.00	-	12,582.21	154,499.28	(4,499.28)	103.00%
	Vehicle lease, maintenance	4810-40	43,000.00	-	482.83	6,679.19	36,320.81	15.53%
	Sub-Total: Administration/Office:		**$603,000.00**	**$0.00**	**$28,403.66**	**$360,940.01**	**$242,059.99**	**59.86%**
Consultants/ Outside Services	Auditor/Accounting	4110	65,000.00	-	3,985.08	53,432.56	11,567.44	82.20%
	Engineering-administration	4121	93,000.00	-	9,060.00	72,947.50	20,052.50	78.44%
	Engineering-permit I&E	4122	10,000.00	-	-	2,918.40	7,081.60	29.18%
	Engineering-eng. review	4123	55,000.00	-	5,514.00	47,391.00	7,609.00	86.17%
	Engineering-permit review	4124	55,000.00	-	3,167.50	44,874.50	10,125.50	81.59%
	Project Feasibility Studies	4129	440,000.00	-	44,538.02	244,448.97	195,551.03	55.56%
	Attorney-permits	4130	10,000.00	-	-	-	10,000.00	0.00%
	Attorney-general	4131	40,000.00	-	1,555.00	27,521.85	12,478.15	68.80%
	Outside Consulting Services	4160	20,000.00	-	-	-	20,000.00	0.00%
	Sub-Total: Consultants/Outside Services:		**$788,000.00**	**$0.00**	**$67,819.60**	**$493,534.78**	**$294,465.22**	**62.63%**
Programs	Educational programming	4370	60,000.00	-	2,244.35	23,711.33	36,288.67	39.52%
	Communications & Marketing	4371	25,000.00	-	2,267.62	26,355.71	(1,355.71)	105.42%
	Events	4372	50,000.00	-	80.83	36,556.10	13,443.90	73.11%
	Water QM-Engineering	4520-30	180,000.00	-	5,385.19	173,111.16	6,888.84	96.17%
	Project operations	4650	200,000.00	-	5,759.57	71,716.13	128,283.87	35.86%
	SLMP/TMDL Studies	4661	103,000.00	-	4,416.00	18,598.50	84,401.50	18.06%
	Natural Resources/Keller Creek	4670-72	140,000.00	-	8,121.19	103,865.81	36,134.19	74.19%
	Outside Prog.Support/Weed Mgmt.	4683-84	127,000.00	-	3,175.00	26,950.00	100,050.00	21.22%
	Research Projects	4695	95,000.00	-	6,947.50	95,676.05	(676.05)	100.71%
	Health and Safety Program	4697	3,000.00	-	-	987.89	2,012.11	32.93%
	Sub-Total: Programs:		**$983,000.00**	**$0.00**	**$38,397.25**	**$577,528.68**	**$405,471.32**	**58.75%**
GENERAL FUND TOTAL			**$3,999,500.00**	**$0.00**	**$259,564.04**	**$3,042,517.11**	**$956,982.89**	76.07%
CIP's	CIP Project Repair & Maintenance	516	1,325,000.00	-	243,326.36	1,318,784.52	6,215.48	99.53%
	Targeted Retrofit Projects	518	2,810,000.00	-	203,556.21	1,162,925.35	1,647,074.65	41.39%
	Flood Risk Reduction Fund	520	4,200,000.00	-	12,348.78	1,809,847.68	2,390,152.32	43.09%
	Debt Services-96-97 Beltline/MM/Battle Creek	526	394,901.00	-	-	397,795.30	(2,894.30)	100.73%
	Stewardship Grant Program Fund	529	1,000,000.00	-	50,033.07	521,522.18	478,477.82	52.15%
	Stormwater Impact Fund	536	0.00		4,979.94	4,979.94	(4,979.94)	---
	Wetland Restoration Projects	540	500,000.00	-	-	-	500,000.00	0.00%
	Wakefield Park Project	553	-	-	-	5,128.50	(5,128.50)	---
	District Office Bond Payment	585	194,885.00	-	-	-	194,885.00	0.00%
CIP BUDGET TOTAL			**$10,424,786.00**	**-**	**$514,244.36**	**$5,220,983.47**	**$5,203,802.53**	50.08%
TOTAL BUDGET			**$14,424,286.00**	**$0.00**	**$773,808.40**	**$8,263,500.58**	**$6,160,785.42**	**57.29%**

Current Fund Balances:

Fund:	Beginning Fund Balance @ 12/31/20	Fund Transfers	Year to date Revenue	Current Month Expenses	Year to Date Expense	Unaudited Fund Balance @ 12/31/21
101 - General Fund	$4,364,963.52	(1,277,181.71)	2,337,714.49	259,564.04	3,042,517.11	2,382,979.19
516 - CIP Project Repair & Maintenance	627,656.44	-	876,920.72	243,326.36	1,318,784.52	185,792.64
518 - Targeted Retrofit Projects	1,012,501.35	905,365.21	292,539.53	203,556.21	1,162,925.35	1,047,480.74
520 - Flood Damage Reduction Fund	3,312,849.57	-	1,982,690.68	12,348.78	1,809,847.68	3,485,692.57
526 - Debt Services-96-97 Beltline/MM/Beltline-Battle Creek Tunnel Repair	949,395.60	-	91,875.61	-	397,795.30	643,475.91
529 - Stewardship Grant Program Fund	622,020.57	57,000.00	697,249.82	50,033.07	521,522.18	854,748.21
536 - Stormwater Impact Fund	-	314,816.50	-	4,979.94	4,979.94	309,836.56
540 - Wetland Restoration Projects	-	-	498,035.60	-	-	498,035.60
553 - Wakefield Park Project	151,270.20	(146,141.70)	-	-	5,128.50	-
580 - Contingency Fund	891,682.00	544,659.00	-	-	-	1,436,341.00
585 - Certificates of Participation	204,397.98	(398,517.30)	194,119.32	-	-	-
Total District Fund Balance	**$12,136,737.23**	**$0.00**	**$ 6,971,145.77**	**$ 773,808.40**	**$8,263,500.58**	**$10,844,382.42**

Ramsey Washington Metro Watershed Dist.
Check Register
For the Period From Feb 1, 2022 to Feb 28, 2022

Check #	Date	Payee ID	Invoice #	Payee	Description	Amount
EFT	02/01/22	met008	Feb 2022	MetLife-Group Benefits	Employee Benefits	$1,728.97
EFT	02/09/22	hea002	Mar 2022	HealthPartners	Employee Benefits	12,563.83
EFT	02/09/22	hom001	Feb 2022	Home Depot Credit Services	Natural Resources Project	186.95
EFT	02/10/22	nsp001	Feb 2022	Xcel Energy	Bldg./Site Maintenance	2,185.68
70281	02/18/22	min010	Feb 2022	MN Public Facilities Authority	Debt Services-Beltline/Tanner	4,423.95
72819	02/23/22	ahl001	Feb 2022	Paige Ahlborg	Employee Reimbursement	598.15
72820	02/23/22	aws001	S1335957-020122	AWS Service Center	Utilities/Bldg. Contracts	276.13
72821	02/23/22	bar001	01/15/22-02/11/22	Barr Engineering	Jan/Feb Engineering Expense	67,292.68
72822	02/23/22	bfg001	1960674-00	BFG Supply Co., LLC	Educational Program	47.10
72823	02/23/22	cad001	18134991	Allstream	Water QM Staff	78.35
72824	02/23/22	cit001	12/31/21	City of Little Canada	Utilities/Bldg. Contracts	110.83
72825	02/23/22	cit011	230694/230278	City of Roseville	BMP Costshare/Stewardship	196,888.15
72826	02/23/22	com004	02/16/22	Comcast	Utilities/Bldg. Contracts	81.49
72827	02/23/22	don001	Jan/Feb 2022	Matthew Doneux	Employee Reimbursement	184.36
72828	02/23/22	ecs001	331655	ECSI System Integrators	Utilities/Bldg. Contracts	360.00
72829	02/23/22	fit001	Progress Pay #1	Fitzgerald Excavating & Trucking, Inc.	Construction-Maint. & Repair	139,754.73
72830	02/23/22	fit002	Feb 2022	Mary Fitzgerald	Employee Reimbursement	177.98
72831	02/23/22	fle001	96283	Flemings Auto Service	Vehicle Maintenance	60.20
72832	02/23/22	gal001	02/16/22	Galowitz Olson, PLLC	February Legal Fees	1,076.00
72833	02/23/22	ham002	01/28/22	Hamline University	Outside Program Support	10,000.00
72834	02/23/22	han008	1724	Hanna Enterprises, LLC	Janitorial/Trash Service	735.00
72835	02/23/22	int001	W22010488	Office of MN, IT Services	Telephone Expense	59.34
72836	02/23/22	kub001	Dec 2021/Feb 2022	Kyle W. Kubitza	Employee Reimbursement	109.77
72837	02/23/22	lea003	14-1004	L. Tracy Leavenworth	Educational Program	1,365.74
72838	02/23/22	mel001	Feb 2022	Michelle L. Melser	Employee Reimbursement	111.37
72839	02/23/22	met005	1504	Metro Blooms	Outside Program Support	2,500.00
72840	02/23/22	mid003	579764	Roseville Midway Ford	Vehicle Maintenance	98.00
72841	02/23/22	nov001	CD99196173	Novaspect, Inc.	Program Operations	3,777.04
72842	02/23/22	nsp001	766884349	Xcel Energy	Proj.Oper./Bldg Maint/Water QM	1,298.86
72843	02/23/22	out001	Pay App. #2	Outdoor Lab Landscape Design, Inc.	Construction-Targeted Retrofit	5,168.75
72844	02/23/22	pac001	22100363695	Pace Analytical Services, Inc.	Water QM Staff	835.00
72845	02/23/22	pas002	Feb 2022	Sage Passi	Employee Reimbursement	117.04
72846	02/23/22	pit001	1st Qtr 2022	Pitney Bowes Global Financial Serv LLC	Postage	143.55
72847	02/23/22	pra001	2203411800	Prairie Moon Nursery, Inc.	Construction-Maint. & Repair	627.38
72848	02/23/22	pre003	318590545	Premium Waters, Inc.	Utilities/Bldg. Contracts	28.00
72849	02/23/22	qwe001	02/10/22	CenturyLink	Project Operations	261.40
72850	02/23/22	red002	150467888	Redpath & Company	January Accounting Services	3,784.37
72851	02/23/22	sai001	Mar 2022	Saint Paul Media	Communications & Marketing	50.00
72852	02/23/22	sim001	Feb 2022	Emily Simmons	Employee Reimbursement	46.03
72853	02/23/22	sod001	Feb 2022	Nicole Soderholm	Employee Reimbursement	40.00
72854	02/23/22	sos001	20-38	SOS Office Furniture	Dev.Escrow-General	13,195.00
72855	02/23/22	tes001	S349359-IN	The Tessman Company	Construction-Maint. & Repair	382.50
72856	02/23/22	tim002	M27103	Timesaver Off-Site Secretarial, Inc.	Committee/Board Meetings	300.00
72857	02/23/22	tro002	22-1	Cathy Troendle	Educational Program	1,103.44
72858	02/23/22	usb002	Feb 2022	U.S. Bank	February Credit Card	1,489.90
72859	02/23/22	usb005	464078153	US Bank Equipment Finance	Printing Expense	294.00
72860	02/23/22	van001	Mar 2022	Vanguard Cleaning Systems of Minnesota	Janitorial/Trash Service	594.00
72861	02/23/22	was002	5512	Washington Conservation District	Stewardship Grant Fund	1,341.00
Total						**$477,932.01**
EFT	02/04/22	myp001	02/04/22	February 4th Payroll Fees	4110-101-000	70.05
EFT	02/18/22	myp001	02/18/22	February 18th Payroll Fees	4110-101-000	66.10
Dir.Dep.	02/04/22	---	Payroll Expense-Net	February 4th Payroll	4010-101-000	28,279.85
EFT	02/04/22	int002	Internal Rev.Serv.	February 4th Federal Withholding	2001-101-000	10,225.09
EFT	02/04/22	mnd001	MN Revenue	February 4th State Withholding	2003-101-000	1,796.83
EFT	02/04/22	per001	PERA	February 4th PERA	2011-101-000	5,997.79
EFT	02/04/22	emp002	Empower Retirement	Employee Def.Comp. Contributions	2016-101-000	2,420.00
EFT	02/04/22	emp002	Empower Retirement	Employee IRA Contributions	2018-101-000	400.00
Dir.Dep.	02/18/22	---	Payroll Expense-Net	February 18th Payroll	4010-101-000	26,993.57
EFT	02/18/22	int002	Internal Rev.Serv.	February 18th Federal Withholding	2001-101-000	10,053.12
EFT	02/18/22	mnd001	MN Revenue	February 18th State Withhholding	2003-101-000	1,803.24
EFT	02/18/22	per001	PERA	February 18th PERA	2011-101-000	5,977.63
EFT	02/18/22	emp002	Empower Retirement	Employee Def.Comp. Contributions	2016-101-000	2,420.00
EFT	02/18/22	emp002	Empower Retirement	Employee IRA Contributions	2018-101-000	400.00
					Payroll/Benefits:	**$96,903.27**
Total					**Accounts Payable/Payroll/Benefit**	**$574,835.28**

Ramsey Washington Metro Watershed Dist.
Cash Disbursements Journal
For the Period From February 1, 2022 - February 28, 2022

Date	Check #	Vendor ID	Name	Account ID	Account Description	Amount	Check Detail
02/01/22	EFT	met008	MetLife-Group Benefits	4040-101-000	Employee Benefits-General	$1,728.97	
02/09/22	EFT	hea002	HealthPartners	4040-101-000	Employee Benefits-General	12,563.83	
02/09/22	EFT	hom001	Home Depot Credit Services	4670-101-000	Natural Resources Project-General	186.95	
02/10/22	EFT	nsp001	Xcel Energy	4343-101-000	Bldg/Site Maintenance	2,185.68	
02/18/22	70281	min010	MN Public Facilities Authority	4700-526-000	Debt Services-Beltline Tunnel	4,423.95	
02/23/22	72819	ahl001	Paige Ahlborg			598.15	
				4020-101-000	Employee Expenses-General		173.15
				4338-101-000	Dues & Publications-General		45.00
				4040-101-000	Employee Benefits-General		380.00
02/23/22	72820	aws001	AWS Service Center	4342-101-000	Utilities/Bldg. Contracts	276.13	
02/23/22	72821	bar001	Barr Engineering			67,292.68	
				4121-101-000	Engineering Admin-General Fund		8,151.50
				4129-101-000	Project Feasability-General		1,190.00
				4123-101-000	Engineering-Review		8,941.50
				4129-101-000	Project Feasability-General		3,440.00
				4129-101-000	Project Feasability-General		2,969.00
				4520-101-000	Engineering-WQM		1,248.00
				4520-101-000	Engineering-WQM		135.00
				4520-101-000	Engineering-WQM		428.50
				4124-101-000	Engineering-Permit Review		6,234.50
				4661-101-000	SLMP/TMDL Studies		1,585.50
				4661-101-000	SLMP/TMDL Studies		60.00
				4661-101-000	SLMP/TMDL Studies		2,070.00
				4695-101-000	Research Projects-General		154.00
				4695-101-000	Research Projects-General		126.00
				4695-101-000	Research Projects-General		624.00
				4128-518-000	Engineering-Targeted Retrofit		65.00
				4128-520-000	Engineering-Flood Damage		2,918.35
				4128-518-000	Engineering-Targeted Retrofit		3,231.00
				4128-518-000	Engineering-Targeted Retrofit		6,105.00
				4128-518-000	Engineering-Targeted Retrofit		5,210.96
				4682-529-000	Engineering-Stewardship Grant Program		(1,069.13)
				4128-516-000	Engineering-Maint. & Repair		1,891.50
				4128-516-000	Engineering-Maint. & Repair		934.50
				4128-516-000	Engineering-Maint. & Repair		2,506.50
				4128-516-000	Engineering-Maint. & Repair		8,141.50
02/23/22	72822	bls001	B & L Supply	4370-101-000	Educational Program-General	47.10	

Ramsey Washington Metro Watershed Dist.
Cash Disbursements Journal
For the Period From February 1, 2022 - February 28, 2022

Date	Check #	Vendor ID	Name	Account ID	Account Description	Amount	Check Detail	
02/23/22	72823	cad001	Allstream	4530-101-000	Water QM Staff-General	78.35		
02/23/22	72824	cit001	City of Little Canada	4342-101-000	Utilities/Bldg. Contracts	110.83		2021
02/23/22	72825	cit011	City of Roseville			196,888.15		
				4682-518-000	BMP Cost Share Program		185,644.00	2021
				4682-536-000	Stewardship Grant Program		4,979.94	2021
				4325-101-000	IT/Website/Software		6,264.21	
02/23/22	72826	com004	Comcast	4342-101-000	Utilities/Bldg. Contracts	81.49		
02/23/22	72827	don001	Matthew Doneux			184.36		
				4020-101-000	Employee Expenses-General		146.84	
				4040-101-000	Employee Benefits-General		37.52	
02/23/22	72828	ecs001	ECSI System Integrators	4342-101-000	Utilities/Bldg. Contracts	360.00		
02/23/22	72829	fit001	Fitzgerald Excavating & Trucking, Inc.	4630-516-000	Construction Imp.-Maint & Rep	139,754.73		
02/23/21	72830	fit002	Mary Fitzgerald			177.98		
				4040-101-000	Employee Benefits-General		58.25	
				4020-101-000	Employee Expenses-General		119.73	
02/23/22	72831	fle001	Fleming Auto Services	4820-101-000	Vehicle Maint.-General	60.20		
02/23/22	72832	gal001	Galowitz Olson, PLLC	4131-101-000	Attorney General-General	1,076.00		
02/23/22	72833	ham002	Hamline University	4683-101-000	Outside Program Support	10,000.00		
02/23/22	72834	han008	Hanna Enterprises, LLC	4341-101-000	Janitorial/Trash Service	735.00		
02/23/22	72835	int001	Office of MN, IT Services	4310-101-000	Telephone-General	59.34		
02/23/22	72836	kub001	Kyle W. Kubitza			109.77		
				4040-101-000	Employee Benefits-General		91.70	
				4040-101-000	Employee Expenses-General		18.07	2021
02/23/22	72837	lea003	L. Tracy Leavenworth	4370-101-000	Educational Program-General	1,365.74		
02/23/22	72838	mel001	Michelle L. Melser			111.37		
				4020-101-000	Employee Expenses-General		71.37	
				4040-101-000	Employee Benefits-General		40.00	
02/23/22	72839	met005	Metro Blooms	4683-101-000	Outside Program Support	2,500.00		
02/23/22	72840	mid003	Roseville Midway Ford	4820-101-000	Vehicle Maint.-General	98.00		
02/23/22	72841	nov001	Novaspect, Inc.	4650-101-000	Project Operations-General	3,777.04		2021
02/23/22	72842	nsp001	Xcel Energy			1,298.86		
				4530-101-000	Water QM Staff-General		507.53	
				4650-520-000	Project Operations-Flood		287.72	
				4343-101-000	Bldg/Site Maintenance		503.61	
02/23/22	72843	out001	Outdoor Lab Landscape Design, Inc.	4630-518-000	Construction-Targeted Retrofit	5,168.75		2021
02/23/22	72844	pac001	Pace Analytical Services, Inc.	4530-101-000	Water QM Staff-General	835.00		
02/23/22	72845	pas002	Sage Passi			117.04		
				4020-101-000	Employee Expenses-General		14.04	
				4040-101-000	Employee Benefits-General		103.00	
02/23/22	72846	pit001	Pitney Bowes Global Financial Serv., LLC	4330-101-000	Postage-General	143.55		
02/23/22	72847	pra001	Prairie Moon Nursery, Inc.	4650-516-000	Construction Imp.-Maint & Rep	627.38		
02/23/22	72848	pre003	Premium Waters, Inc.	4342-101-000	Utilities/Bldg. Contracts	28.00		
02/23/22	72849	qwe001	CenturyLink	4650-101-000	Project Operations-General	261.40		
02/23/22	72850	red002	Redpath & Company, Ltd.	4110-101-000	Auditor/Accounting	3,784.37		
02/23/22	72851	rjm002	St. Paul Media	4371-101-000	Communications & Marketing	50.00		
02/23/22	72852	sim001	Emily Simmons			46.03		
				4020-101-000	Employee Expenses-General		6.03	
				4040-101-000	Employee Benefits-General		40.00	

Ramsey Washington Metro Watershed Dist.
Cash Disbursements Journal
For the Period From February 1, 2022 - February 28, 2022

Date	Check #	Vendor ID	Name	Account ID	Account Description	Amount	Check Detail
02/23/22	72853	sod001	Nicole Soderholm	4040-101-000	Employee Benefits-General	40.00	
02/23/22	72854	sos001	SOS Office Furniture	2024-101-000	Dev Escrow-General	13,195.00	
02/23/22	72855	tes001	The Tessman Company	4630-516-000	Construction Imp.-Maint & Rep	382.50	
02/23/22	72856	tim002	Timesaver Off-Site Secretarial, Inc.	4365-101-000	Committee/Board Meeting Expense	300.00	
02/23/22	72857	tro002	Cathy Troendle			1,103.44	
				4370-101-000	Educational Program-General		1,102.50
				4370-101-000	Educational Program-General		0.94
02/23/22	72858	usb002	U.S. Bank			1,489.90	
				4343-101-000	Bldg/Site Maintenance		59.05
				4343-101-000	Bldg/Site Maintenance		5.36
				4320-101-000	Office Supplies-General		17.75
				4325-101-000	IT/Website/Software		96.11
				4343-101-000	Bldg/Site Maintenance		30.00
				4530-101-000	Water QM Staff-General		14.98
				4342-101-000	Utilities/Bldg. Contracts		81.49
				4350-101-000	Training & Education		(190.00)
				4530-101-000	Water QM Staff-General		448.90
				4171-101-000	District Database Project		97.00
				4343-101-000	Bldg/Site Maintenance		74.94
				4350-101-000	Training & Education		10.22
				4350-101-000	Training & Education		10.22
				4350-101-000	Training & Education		190.00
				4350-101-000	Training & Education		145.00
				4350-101-000	Training & Education		190.00
				4530-101-000	Water QM Staff-General		19.94
				4040-101-000	Employee Benefits-General		79.00
				4530-101-000	Water QM Staff-General		108.00
				4171-101-000	District Database Project		1.94
02/23/22	72859	usb005	US Bank Equipment Finance	4335-101-000	Printing-General	294.00	
02/23/22	72860	van001	Vanguard Cleaning Systems of Minnesota	4341-101-000	Janitorial/Trash Service	594.00	
02/23/22	72861	was002	Washington Conservation District	4682-529-000	Stewardship Grant Program	1,341.00	
			Accounts Payable Total:			**$477,932.01**	
EFT	02/04/22	myp001	Payroll Fees	4110-101-000	February 4th Payroll Fees	70.05	
EFT	02/18/22	myp001	Payroll Fees	4110-101-000	February 18th Payroll Fees	66.10	
Dir.Dep.	02/04/22	---	Payroll Expense-Net	4010-101-000	February 4th Payroll	28,279.85	
EFT	02/04/22	int002	Internal Rev.Serv.	2001-101-000	February 4th Federal Withholding	10,225.09	
EFT	02/04/22	mnd001	MN Revenue	2003-101-000	February 4th State Withholding	1,796.83	
EFT	02/04/22	per001	PERA	2011-101-000	February 4th PERA	5,997.79	
EFT	02/04/22	emp002	Empower Retirement	2016-101-000	Employee Def.Comp. Contributions	2,420.00	
EFT	02/04/22	emp002	Empower Retirement	2018-101-000	Employee IRA Contributions	400.00	

Ramsey Washington Metro Watershed Dist.

Cash Disbursements Journal

For the Period From February 1, 2022 - February 28, 2022

Date	Check #	Vendor ID	Name	Account ID	Account Description	Amount	Check Detail
Dir.Dep.	02/18/22	---	Payroll Expense-Net	4010-101-000	February 18th Payroll	26,993.57	
EFT	02/18/22	int002	Internal Rev.Serv.	2001-101-000	February 18th Federal Withholding	10,053.12	
EFT	02/18/22	mnd001	MN Revenue	2003-101-000	February 18th State Withhholding	1,803.24	
EFT	02/18/22	per001	PERA	2011-101-000	February 18th PERA	5,977.63	
EFT	02/18/22	emp002	Empower Retirement	2016-101-000	Employee Def.Comp. Contributions	2,420.00	
EFT	02/18/22	emp002	Empower Retirement	2018-101-000	Employee IRA Contributions	400.00	
			Payroll/Benefits			**$96,903.27**	
			TOTAL:			**$574,835.28**	

Summary of Professional Engineering Services During the Period
January 15, 2022 through February 11, 2022

	Total Engineering Budget (2022)	Total Fees to Date (2022)	Budget Balance (2022)	Fees During Period	District Accounting Code	Plan Implementation Task Number
Engineering Administration						
General Engineering Administration	$80,000.00	$12,472.00	$67,528.00	$8,151.50	**4121-101**	DW-13
RWMWD Health and Safety/ERTK Program	$2,000.00	$0.00	$2,000.00		**4697-101**	DW-13
Educational Program/Educational Forum Assistance	$20,000.00	$1,190.00	$18,810.00	$1,190.00	**4129-101**	DW-11
Topical Workshop, Education, and Planning	$25,000.00	$0.00	$25,000.00		**4129-101**	DW-13
Engineering Review						
Engineering Review	$60,000.00	$12,532.00	$47,468.00	$8,941.50	**4123-101**	DW-13
Project Feasibility Studies						
Interim emergency response plan funds for top priority District flooding areas	$30,000.00	$3,808.00	$26,192.00	$3,440.00	**4129-101**	DW-19
Groundwater/Surface Water Next Steps	$50,000.00	$0.00	$50,000.00		**4129-101**	DW-10, DW-16
Hillcrest Golf Course	$20,000.00	$72.00	$19,928.00	$0.00	**4129-101**	DW-6
Kohlman Creek flood damage reduction feasibility study	$75,000.00	$0.00	$75,000.00		**4129-101**	DW-9, KC-2, BELT-3
Kohlman Creek- Wakefield Lake Diversion Planning and Design	$111,600.00	$0.00	$111,600.00		**4129-101**	DW-9, KC-2, BELT-3
Improvements to County Ditch 17	$20,000.00	$0.00	$20,000.00		**4129-101**	DW-9, BELT-3
Improvements to Phalen Village	$20,000.00	$0.00	$20,000.00		**4129-101**	DW-9, BELT-3
Ames Lake Technical Assisstance and Project Planning with St. Paul	$25,000.00	$1,173.00	$23,827.00		**4129-101**	DW-9, BELT-3
694/494/94 WQ treatment feasibility study	$30,000.00	$0.00	$30,000.00		**4129-101**	BCL-3
Double Driveway Optimization Study	$25,000.00	$0.00	$25,000.00		**4129-101**	FC-2
Carver Pond Improvements Study (Fish Creek Subwatershed)	$25,000.00	$0.00	$25,000.00		**4129-101**	FC-2
Evaluate compliance with South Metro Mississippi River TSS TMDL	$30,000.00	$0.00	$30,000.00		**4129-101**	MR-2
Owasso Basin area/North Star Estates improvements (with City of Little Canada)	$50,000.00	$0.00	$50,000.00		**4129-101**	GC-3
Wetland Restoration Workshop, Education, and Planning	$5,000.00	$2,969.00	$2,031.00	$2,969.00	**4129-101**	DW-8
Contingency*	$45,000.00	$0.00	$45,000.00		**4129-101**	
GIS Maintenance						
GIS Maintenance	$5,000.00	$0.00	$5,000.00		**4170-101**	DW-13
Monitoring Water Quality/Project Monitoring						
Lake Water Quality Monitoring (Misc QA/QC)	$10,000.00	$0.00	$10,000.00		**4520-101**	DW-2
Annual WQ Report Assistance	$10,000.00	$1,248.00	$8,752.00	$1,248.00	**4520-101**	DW-2
Special Project BMP Monitoring	$25,000.00	$612.66	$24,387.34	$135.00	**4520-101**	DW-12
Grass Lake Berm Wetland Monitoring	$10,000.00	$428.50	$9,571.50	$428.50	**4520-101**	DW-5
Permit Processing, Inspection and Enforcement						
Permit Application Inspection and Enforcement	$10,000.00	$0.00	$10,000.00		**4122-101**	DW-7
Permit Application Review	$55,000.00	$10,410.50	$44,589.50	$6,234.50	**4124-101**	DW-7
Lake Studies/TMDL Reports						
2022 Grant Applications	$40,000.00	$1,655.50	$38,344.50	$1,585.50	**4661-101**	DW-13
WMP Updates - Including Implementation Plan Updates if needed	$20,000.00	$0.00	$20,000.00		**4661-101**	DW-13
Prioritization of water quality projects from subwatershed feasibility studies	$5,000.00	$60.00	$4,940.00	$60.00	**4661-101**	DW-13
Cost/Benefit Analysis of Treatment Options for Bennett and Wakefield in 2020 Internal Load Analysis	$35,000.00	$0.00	$35,000.00		**4661-101**	WL-3, BeL-3
Phalen Chain of Lakes Changes in Water Quality	$2,500.00	$2,070.00	$430.00	$2,070.00	**4661-101**	DW-2, DW-12
Contingency for Lake Studies	$22,500.00	$0.00	$22,500.00		**4661-101**	
Research Projects						
New Technology Mini Case Studies (average 6 per year)	$12,000.00	$154.00	$11,846.00	$154.00	**4695-101**	DW-12
Kohlman Permeable Weir Test System - Implement Monitoring Plan	$50,000.00	$126.00	$49,874.00	$126.00	**4695-101**	DW-12
Shallow Lake Aeration Study	$90,000.00	$3,072.00	$86,928.00	$624.00	**4695-101**	DW-12
Project Operations						
2021 Tanners Alum Facility Monitoring	$15,000.00	$0.00	$15,000.00		**4650-101**	TaL-3
Capital Improvements						
North St. Paul Target	$160,000.00	$156,950.80	$3,049.20	$65.00	**4128-518**	DW-6
Ryan Drive-Keller Parkway Conveyance	$194,000.00	$207,772.92	-$13,772.92	$2,918.35	**4128-520**	DW-9. GC-3
Commercial Sites Retrofit Projects 2022 (Targeted Retrofits)	$45,000.00	$5,381.00	$39,619.00	$3,231.00	**4128-518**	DW-6
School Sites Retrofit Projects 2022 (Targeted Retrofits)	$45,000.00	$14,124.00	$30,876.00	$6,105.00	**4128-518**	DW-6
Church Sites Retrofit Projects 2022 (Targeted Retrofit)	$45,000.00	$9,092.96	$35,907.04	$5,210.96	**4128-518**	DW-6
Stewardship Grant Program: Gen'l BMP Design Assistance and Review (cases where Dist is approached by landowner, or landowner is not commercial, school, church).	$75,000.00	$3,449.37	$71,550.63	-$1,069.13	**4682-529**	DW-6
Kohlman Creek Storage and Detention	$200,000.00	$0.00	$200,000.00		**4128-520**	KC-2
Wetland Restoration	$100,000.00	$0.00	$100,000.00		**4128-529**	DW-8
South Owasso Boulevard East WQ Pond	$150,000.00	$0.00	$150,000.00		**4128-520**	GC-3
West Industrial Park Berm and associated improvements	$150,000.00	$0.00	$150,000.00		**4128-520**	GC-3
South Lake Judy Filtration- Regional BMP	$160,000.00	$0.00	$160,000.00		**4128-518**	LE-3
CIP Project Repair & Maintenance						
Routine CIP Inspection and Unplanned Maintenance Identification	$125,000.00	$4,645.50	$120,354.50	$1,891.50	**4128-516**	DW-5
Beltline 5-year Inspection	$70,000.00	$30,341.82	$39,658.18	$934.50	**4128-516**	BELT-2
District Inspection Standardization	$34,200.00	$15,535.50	$18,664.50	$2,506.50	**4128-516**	DW-5
2021 CIP Maintenance and Repairs	$150,000.00	$133,265.46	$16,734.54	$0.00	**4128-516**	DW-5
2022 CIP Maintenance and Repairs	$150,000.00	$73,463.58	$76,536.42	$8,141.50	**4128-516**	DW-5
2023 CIP Maintenance and Repairs (planning, bidding, and project setup)	$40,000.00	$0.00	$40,000.00		**4128-516**	DW-5
				$67,292.68		

Barr declares under the penalties of Law that this Account,
Claim, or Demand is just and that no part has been paid.

Bradley J. Lindaman, Vice President

2020 COMMERCIAL SITES BMP RETROFITS
BOYS AND GIRLS CLUB EASTSIDE
RAMSEY-WASHINGTON METRO WATERSHED DISTRICT
Final Payment Application (Payment Application No. 2)

1.	Completed to Date:	$ 103,375.00		
2.	Less Previously Billed:		$ 103,375.00	
3.	Amount Completed This Period:			$ -
4.	Amount Previously Retained:		$ (5,168.75)	
5.	Amount Retained This Period (See Note 1):			$ -
6.	Total Amount Retained (See Note 2):		$ (5,168.75)	
7.	Retainage Previously Released:		$ -	
8.	Retainage Released This Period:			$ 5,168.75
9.	Total Retainage Remaining:		$ -	
10.	Less Amounts Previously Paid (Pay Application Nos. 1)	$ (98,206.25)		
11.	Amount Due This Period:			**$ 5,168.75**

Note 1: At rate of 10% until Completed to Date equals 50% of current Contract Price and a rate of 0% thereafter.
Note 2: Maximum amount is 5% of current Contract Price (Original Contract Price is $97,675.00; adjusted Contract Price to date is $103,375.00)

SUBMITTED BY:
Name: Chuck Hanna Date: 2/4/2022
Title: President
Contractor: Outdoor Lab

Signature: 

RECOMMENDED BY:
Name: Matt Kumka, PLA Date: 11/23/2021
Title: Project Manager
Engineer: Barr Engineering Company

Signature: 

APPROVED BY:
Name: Lawrence Swope Date:
Title: President
Owner: Ramsey-Washington Metro Watershed District

Signature:

2022 Capitol Improvemet Project (CIP) Progress Payment Number 1

1.0	Total Completed Through This Period:	$147,110.24		
2.0	Total Completed Previously Completed:		$0.00	
3.0	Total Completed This Period:			$147,110.24
4.0	Amount Previously Retained:		$0.00	
5.0	Amount Retained This Period (See Note 1):			$7,355.51
6.0	Total Amount Retained (See Note 1):		$7,355.51	
7.0	Retainage Released Through This Period:			$0.00
8.0	Total Retainage Remaining:		$7,355.51	
9.0	Amounts Previously Paid:	$0.00		
10.0	Amount Due This Estimate:			$139,754.73

Note 1: Retainage shall be 5 percent of the value of the Work completed.

SUBMITTED BY:

Name: Jason Fitzgerald Date: _____

Title: President

Contractor: Fitzgerald Excavating & Trucking, Inc.

Signature: _____

RECOMMENDED BY:

Name: Brad Lindaman Date: _____

Title: District Engineer

Engineer: Barr Engineering Company

Signature: _____

APPROVED BY:

Name: Lawrence Swope Date: _____

Title: President

Owner: Ramsey-Washington Metro Watershed District

Signature: _____

2022 Capital Improvement Project (CIP)
Ramsey-Washington Metro Watershed District
Summary of Work Completed Through February 15, 2022 for Progress Payment Number 1

						(1) Total Completed Through This Period		(2) Total Completed Previous Period		(3) Total Completed This Period	
Item	Description	Unit	Estimated Quantity	Unit Price	Extension	Quantity	Amount	Quantity	Amount	Quantity	Amount
General											
A	Mobilization/Demobilization	L.S.	1	$80,000.00	$80,000.00	0.20	$16,000.00	0.00	$0.00	0.20	$16,000.00
B	Control of Water	L.S.	1	$25,000.00	$25,000.00	0.20	$5,000.00	0.00	$0.00	0.20	$5,000.00
C	Traffic Control	L.S.	1	$2,000.00	$2,000.00	0.20	$400.00	0.00	$0.00	0.20	$400.00
Site 1 - Tamarack Swamp, Woodbury (PFS Basins Cleaning/Sweeping)											
F	Sediment Log (9-Inch Diameter)	L.F.	60	$1.00	$60.00	0	$0.00	0	$0.00	0	$0.00
D	Sediment/Muck Cleanout Excavation, Loading, Hauling and Disposal of Regulated Material (SRV Level 2 and 3)	TON	92	$36.00	$3,312.00	0	$0.00	0	$0.00	0	$0.00
G	Paver Sweeping (1,400 S.Y.)	S.Y.	1,400	$3.00	$4,200.00	0	$0.00	0	$0.00	0	$0.00
E	Site Restoration (Seeding and Erosion Control Blanket)	S.Y.	100	$1.00	$100.00	0	$0.00	0	$0.00	0	$0.00
Site 2 - Tanners Wetland, Oakdale (Wetland Weir Maintenance)											
J	Permeable Weir Maintenance (Reopening Drainage Slots and Remove all Brush and Debris)	L.F.	580	$20.00	$11,600.00	0	$0.00	0	$0.00	0	$0.00
E	Site Restoration (Seeding and Erosion Control Blanket)	S.Y.	210	$1.00	$210.00	0	$0.00	0	$0.00	0	$0.00
Site 3 - Gervais Mill Park, Little Canada (Mill Pond Filter Maintenance)											
L	Flotation Silt Curtain	L.F.	45	$20.00	$900.00	0	$0.00	0	$0.00	0	$0.00
O	Composite Mud Mats Protection (Double Layer)	S.Y.	100	$5.00	$500.00	0	$0.00	0	$0.00	0	$0.00
H	Remove Existing 1-1/2 inch to 2-inch Filter Rock	L.S.	1	$8,000.00	$8,000.00	0	$0.00	0	$0.00	0	$0.00
I	Clear Washed Filter Rock	TON	50	$50.00	$2,500.00	0	$0.00	0	$0.00	0	$0.00
E	Site Restoration (Seeding and Erosion Control Blanket)	S.Y.	400	$1.00	$400.00	0	$0.00	0	$0.00	0	$0.00
Site 4 - Lower Afton Road, Maplewood (Drainageway Sediment Removal)											
M	Construction Entrance	EACH	1	$500.00	$500.00	0	$0.00	0	$0.00	0	$0.00
N	Temporary Rock Filter Dike	TON	10	$40.00	$400.00	0	$0.00	0	$0.00	0	$0.00
O	Composite Mud Mats Protection (Double Layer)	S.Y.	45	$5.00	$225.00	0	$0.00	0	$0.00	0	$0.00
D	Sediment/Muck Cleanout Excavation, Loading, Hauling and Disposal of Regulated Material (SRV Level 2 and 3)	TON	127	$36.00	$4,572.00	0	$0.00	0	$0.00	0	$0.00
E	Site Restoration (Seeding and Erosion Control Blanket)	S.Y.	210	$1.00	$210.00	0	$0.00	0	$0.00	0	$0.00
Site 5 - Kohlman Basin, Maplewood (Sand Filter Maintenance)											
M	Construction Entrance	EACH	1	$500.00	$500.00	0	$0.00	0	$0.00	0	$0.00
Q	Inlet Protection	EACH	2	$150.00	$300.00	0	$0.00	0	$0.00	0	$0.00
D	Sediment/Muck Cleanout Excavation, Loading, Hauling and Disposal of Regulated Material (SRV Level 2 and 3)	TON	15	$36.00	$540.00	0	$0.00	0	$0.00	0	$0.00
R	Clean Openings on Energy Dissipation Structure	L.S.	1	$3,000.00	$3,000.00	0	$0.00	0	$0.00	0	$0.00
S	Removal and Disposal of Filter Material (Pea Rock and Sand)	C.Y.	14	$30.00	$420.00	0	$0.00	0	$0.00	0	$0.00
T	Filter Fabric MN/DOT Type 5	S.Y.	38	$6.00	$228.00	0	$0.00	0	$0.00	0	$0.00
U	Clean Washed Sand	TON	14	$40.00	$568.00	0	$0.00	0	$0.00	0	$0.00
V	Pea Rock	TON	4	$40.00	$172.00	0	$0.00	0	$0.00	0	$0.00
E	Site Access Restoration (Seeding and Erosion Control Blanket)	S.Y.	200	$1.00	$200.00	0	$0.00	0	$0.00	0	$0.00

2022 Capital Improvement Project (CIP)
Ramsey-Washington Metro Watershed District
Summary of Work Completed Through February 15, 2022 for Progress Payment Number 1

						(1) Total Completed Through This Period		(2) Total Completed Previous Period		(3) Total Completed This Period	
Item	Description	Unit	Estimated Quantity	Unit Price	Extension	Quantity	Amount	Quantity	Amount	Quantity	Amount
Site 6 - Wakefield Lake, Maplewood (Test Cell Media Replacement)											
M	Construction Entrance	EACH	1	$500.00	$500.00	0	$0.00	0	$0.00	0	$0.00
W	Clean-out Accumulated Sediment in Riprap Void Areas	L.S.	1	$2,000.00	$2,000.00	0	$0.00	0	$0.00	0	$0.00
D	Sediment/Muck Cleanout Excavation, Loading, Hauling and Disposal of Regulated Material (SRV Level 2 and 3)	TON	42	$36.00	$1,512.00	0	$0.00	0	$0.00	0	$0.00
X	Granite Sand	TON	35	$35.00	$1,225.00	0	$0.00	0	$0.00	0	$0.00
Y	Iron Aggregate	TON	1.8	$125.00	$225.00	0	$0.00	0	$0.00	0	$0.00
I	Clear Washed Filter Rock	TON	0.2	$250.00	$50.00	0	$0.00	0	$0.00	0	$0.00
Z	MN/DOT Class III Riprap (Field Stone) with Geotextile Filter Fabric	TON	10	$90.00	$900.00	0	$0.00	0	$0.00	0	$0.00
E	Site Access Restoration (Seeding and Erosion Control Blanket)	S.Y.	380	$1.00	$380.00	0	$0.00	0	$0.00	0	$0.00
Site 7 - County Road D, Vadnais Heights (Washout Repair)											
M	Construction Entrance	EACH	1	$500.00	$500.00	0	$0.00	0	$0.00	0	$0.00
P	Clear and Grub	L.S.	1	$8,000.00	$8,000.00	0	$0.00	0	$0.00	0	$0.00
K	Silt Fence	L.F.	300	$3.00	$900.00	0	$0.00	0	$0.00	0	$0.00
AA	Remove and Disposal of Existing 15" Flared End Section and 1.5' of 15" C.P.E.P.	L.S.	1	$1,000.00	$1,000.00	0	$0.00	0	$0.00	0	$0.00
BB	22" HDPE DR 17 Pipe	L.F.	131	$120.00	$15,720.00	0	$0.00	0	$0.00	0	$0.00
CC	Anti-Seepage Collar for 22" HDPE Pipe	EACH	4	$2,400.00	$9,600.00	0	$0.00	0	$0.00	0	$0.00
DD	24" RCP CL 3	L.F.	29	$125.00	$3,625.00	0	$0.00	0	$0.00	0	$0.00
EE	24" RCP Flared End Section w/ Pipe Ties	Each	1	$1,500.00	$1,500.00	0	$0.00	0	$0.00	0	$0.00
FF	48" Dia. Precast Concrete Manhole with Manhole Casting Assembly	EACH	2	$5,000.00	$10,000.00	0	$0.00	0	$0.00	0	$0.00
Z	MN/DOT Class IV Riprap (Field Stone) with Geotextile Filter Fabric	TON	25	$90.00	$2,250.00	0	$0.00	0	$0.00	0	$0.00
HH	Excavate, Cut, Fill, Grade Channel	L.S.	1	$35,000.00	$35,000.00	0	$0.00	0	$0.00	0	$0.00
II	High Performance Turf Reinforcement Mat (HP-TRM)	S.Y.	250	$14.00	$3,500.00	0	$0.00	0	$0.00	0	$0.00
JJ	High Performance Flexible Growth Medium (HP-FGM)	S.Y.	375	$5.00	$1,875.00	0	$0.00	0	$0.00	0	$0.00
KK	Rock Grade Control Check Dam	EACH	2	$3,000.00	$6,000.00	0	$0.00	0	$0.00	0	$0.00
LL	Salvage and Replace Topsoil	C.Y.	62	$10.00	$620.00	0	$0.00	0	$0.00	0	$0.00
E	Site Restoration (Seeding and Erosion Control Blanket)	S.Y.	660	$3.00	$1,980.00	0	$0.00	0	$0.00	0	$0.00
Site 8 - Gervais Creek, Little Canada (Creek Improvements Restoration)											
M	Construction Entrance	EACH	1	$500.00	$500.00	0	$0.00	0	$0.00	0	$0.00
P	Clear and Grub	L.S.	1	$5,000.00	$5,000.00	0	$0.00	0	$0.00	0	$0.00
MM	Salvage and Replace Large Fallen Tree in Slope Wash-out	L.S.	1	$2,000.00	$2,000.00	0	$0.00	0	$0.00	0	$0.00
Q	Inlet Protection	EACH	1	$150.00	$150.00	0	$0.00	0	$0.00	0	$0.00
K	Slit Fence (Double Row)	L.F.	130	$6.00	$780.00	0	$0.00	0	$0.00	0	$0.00
NN	Clean Sediment 8' out from Existing Pipe	L.S.	1	$1,000.00	$1,000.00	0	$0.00	0	$0.00	0	$0.00
OO	Remove Existing 18" CMP and Headwall	L.S.	1	$500.00	$500.00	0	$0.00	0	$0.00	0	$0.00
BB	18" HDPEP DR 17	L.F.	119	$95.00	$11,305.00	0	$0.00	0	$0.00	0	$0.00
BB	28" HDPEP DR 17	L.F.	81	$230.00	$18,630.00	0	$0.00	0	$0.00	0	$0.00
CC	Anti-Seepage Collar for 28" HDPE Pipe	EACH	3	$2,400.00	$7,200.00	0	$0.00	0	$0.00	0	$0.00
DD	24" RCP CL 3	L.F.	25	$125.00	$3,125.00	0	$0.00	0	$0.00	0	$0.00

2022 Capital Improvement Project (CIP)
Ramsey-Washington Metro Watershed District
Summary of Work Completed Through February 15, 2022 for Progress Payment Number 1

						(1) Total Completed Through This Period		(2) Total Completed Previous Period		(3) Total Completed This Period	
Item	Description	Unit	Estimated Quantity	Unit Price	Extension	Quantity	Amount	Quantity	Amount	Quantity	Amount
EE	24" RCP Flared End Section w/ Pipe Ties	EACH	1	$1,500.00	$1,500.00	0	$0.00	0	$0.00	0	$0.00
FF	48" Dia. Precast Concrete Manhole with Manhole Casting Assembly	EACH	2	$7,000.00	$14,000.00	0	$0.00	0	$0.00	0	$0.00
GG	30" Dia. Precast Concrete Catch Basin with Casting Assembly	EACH	4	$2,900.00	$11,600.00	0	$0.00	0	$0.00	0	$0.00
Z	MN/DOT Class IV Riprap (Field Stone) with Geotextile Filter Fabric	TON	20	$90.00	$1,800.00	0	$0.00	0	$0.00	0	$0.00
UU	Select Granular Backfill	C.Y.	237	$20.00	$4,740.00	0	$0.00	0	$0.00	0	$0.00
LL	Salvage and Replace Topsoil	C.Y.	175	$10.00	$1,750.00	0	$0.00	0	$0.00	0	$0.00
II	High Performance Turf Reinforcement Mat (HP-TRM)	S.Y.	95	$14.00	$1,330.00	0	$0.00	0	$0.00	0	$0.00
JJ	High Performance Flexible Growth Medium (HP-FGM)	S.Y.	345	$5.00	$1,725.00	0	$0.00	0	$0.00	0	$0.00
E	Site Restoration (Seeding and Erosion Control Blanket)	S.Y.	700	$3.00	$2,100.00	0	$0.00	0	$0.00	0	$0.00
Site 9 - Meadowood Pond, Woodbury (Pond Cleanout)											
M	Construction Entrance	EACH	2	$500.00	$1,000.00	2	$1,000.00	0	$0.00	2	$1,000.00
P	Clear and Grub	L.S.	1	$4,000.00	$4,000.00	0	$0.00	0	$0.00	0	$0.00
L	Flotation Silt Curtain	L.F.	330	$10.00	$3,300.00	0	$0.00	0	$0.00	0	$0.00
Q	Inlet Protection	EACH	3	$150.00	$450.00	0	$0.00	0	$0.00	0	$0.00
D	Sediment/Muck Cleanout Excavation, Loading, Hauling and Disposal of Regulated Material (SRV Level 2 and 3)	TON	500	$36.00	$18,000.00	0	$0.00	0	$0.00	0	$0.00
Z	MN/DOT Class III Riprap (Field Stone) with Geotextile Filter Fabric	TON	20	$90.00	$1,800.00	0	$0.00	0	$0.00	0	$0.00
E	Site Restoration (Seeding and Erosion Control Blanket)	S.Y.	1150	$1.00	$1,150.00	0	$0.00	0	$0.00	0	$0.00
Site 10 - Ventura Pond, Woodbury (Pond Cleanout)											
M	Construction Entrance	EACH	1	$500.00	$500.00	1	$500.00	0	$0.00	1	$500.00
Q	Inlet Protection	EACH	2	$150.00	$300.00	0	$0.00	0	$0.00	0	$0.00
PP	Remove Trash Guard and Clean-out 5' of Pipe	EACH	2	$1,000.00	$2,000.00	0	$0.00	0	$0.00	0	$0.00
D	Sediment/Muck Cleanout Excavation, Loading, Hauling and Disposal of Regulated Material (SRV Level 2 and 3)	TON	250	$36.00	$9,000.00	300	$10,800.00	0	$0.00	300	$10,800.00
E	Site Restoration (Seeding and Erosion Control Blanket)	S.Y.	650	$1.00	$650.00	384	$384.00	0	$0.00	384	$384.00
Site 11 - Lake Terrace Pond, Woodbury (Pond Cleanout)											
M	Construction Entrance	EACH	1	$500.00	$500.00	1	$500.00	0	$0.00	1	$500.00
Q	Inlet Protection	EACH	2	$150.00	$300.00	0	$0.00	0	$0.00	0	$0.00
L	Flotation Silt Curtain	L.F.	150	$10.00	$1,500.00	0	$0.00	0	$0.00	0	$0.00
D	Sediment/Muck Cleanout Excavation, Loading, Hauling and Disposal of Regulated Material (SRV Level 2 and 3)	TON	2880	$36.00	$103,680.00	2,001	$72,050.40	0	$0.00	2,001	$72,050.40
Z	MN/DOT Class III Riprap (Field Stone) with Geotextile Filter Fabric	TON	20	$90.00	$1,800.00	0	$0.00	0	$0.00	0	$0.00
E	Site Restoration (Seeding and Erosion Control Blanket)	S.Y.	175	$1.00	$175.00	0	$0.00	0	$0.00	0	$0.00
Site 12 - Willow Creek, White Bear											
QQ	Furnish and Install Prefabricated Headwall Grate	L.S.	1	$7,500.00	$7,500.00	0	$0.00	0	$0.00	0	$0.00
Site 13 - RWMWD Office, Little Canada (Inlet Structure Sink Hole Repair)											
RR	Exploration Excavation of Sink Hole Around Structure and Disposal of Excavated Materials	L.S.	1	$2,000.00	$2,000.00	0	$0.00	0	$0.00	0	$0.00
LL	Salvage and Replace Existing Topsoil	L.S.	1	$2,000.00	$2,000.00	0	$0.00	0	$0.00	0	$0.00
SS	Furnish and Install External Manhole Seal	Each	1	$2,000.00	$2,000.00	0	$0.00	0	$0.00	0	$0.00
TT	Back Fill with Granular Bentonite/Sand Mixture	C.Y.	2	$175.00	$350.00	0	$0.00	0	$0.00	0	$0.00
E	Site Restoration (Seeding and Erosion Control Blanket)	S.Y.	25	$1.00	$25.00	0	$0.00	0	$0.00	0	$0.00
				Contract Base Extensions =	$514,194.00		$106,634.40		$0.00		$106,634.40

2022 Capital Improvement Project (CIP)
Ramsey-Washington Metro Watershed District
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						(1) Total Completed Through This Period		(2) Total Completed Previous Period		(3) Total Completed This Period	
Item	Description	Unit	Estimated Quantity	Unit Price	Extension	Quantity	Amount	Quantity	Amount	Quantity	Amount
Change Order 1											
C.O.1.A	Woodbury Ponds - Sediment/Muck Cleanout Excavation, Loading, Hauling and Disposal of Regulated Material (SRV Level 2) to alternative, non-landfill, site.	TON	2,000	$32.00	$64,000.00	1,265	$40,475.84	0	$0.00	1,265	$40,475.84
				Change Order Extensions =	$64,000.00		$40,475.84		$0.00		$40,475.84
				Contract Grand Total =	**$578,194.00**		**$147,110.24**		**$0.00**		**$147,110.24**

Galowitz Olson, PLLC
10390 39th Street North
Lake Elmo, Minnesota 55042
Office: (651) 777-6960
Fax: (651) 777-8937

Ramsey-Washington Metro Watershed District
C/O Tina Carstens
2665 Noel Drive
Little Canada MN 55117

February 16, 2022
File No: 9M

	Balance
General Account	$1,076.60

Permit Application Coversheet

Date March 02, 2022

Project Name Metro Transit Gold Line BRT- Woodlane Park & Project Number 22-06

Applicant Name Christine Beckwith, Metro Transit

Type of Development Parking Lot

Property Description

This project is located on an undeveloped parcel north of Woodlane Drive & Guider Drive, adjacent to I-494 in the City of Woodbury. The applicant is proposing to construct a public park-and-ride for the Metro Gold Line Bus Rapid Transit (BRT). The Gold Line permit was conditionally approved by the RWMWD Board of Managers on 6/2/21 (Permit #21-16). The disturbance area for this parcel is 6.37 acres. Two infiltration basins are proposed to meet stormwater treatment requirements. Pretreatment will include sumped inlets. A wetland was delineated on this parcel in 2018. Wetland Conservation Act (WCA) approvals have determined this wetland is incidental (#18-11 WCA, 19-21 WCA) and therefore not subject to regulation or replacement.

Watershed District Policies or Standards Involved:

- ☑ *Wetlands*
- ☑ *Erosion and Sediment Control*
- ☑ *Stormwater Management*
- ☐ *Floodplain*

Water Quantity Considerations

The proposed stormwater management plan is sufficient to handle the runoff from the site.

Water Quality Considerations

Short Term

The proposed erosion and sediment control plan is sufficient to protect downstream water resources during construction.

Long Term

The proposed stormwater management plan is sufficient to protect the long term quality of downstream water resources.

Staff Recommendation

Staff recommends approval of this permit with the special provisions.

Attachments:

- ☑ Project Location Map
- ☑ Project Grading Plan

#22-06 Metro Transit Gold Line BRT- Woodlane Park & Ride

Wetlands
- Manage A
- Manage B
- Manage C
- Lake
- Sediment Pond
- Not Assessed

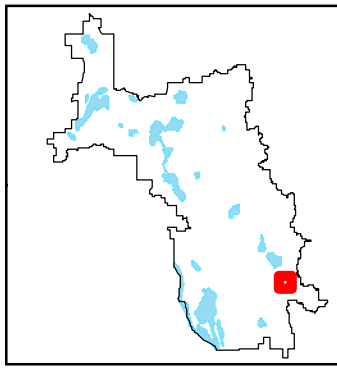
- Flow Arrows
- Major Flow Arrows
- Subwatersheds
- Creeks
- Permits
- Washington Co Parcels

Highlighted Areas Represent Active Permit

0 300 600
Feet

0 0.05 0.1
Miles

N



22-06

Special Provisions

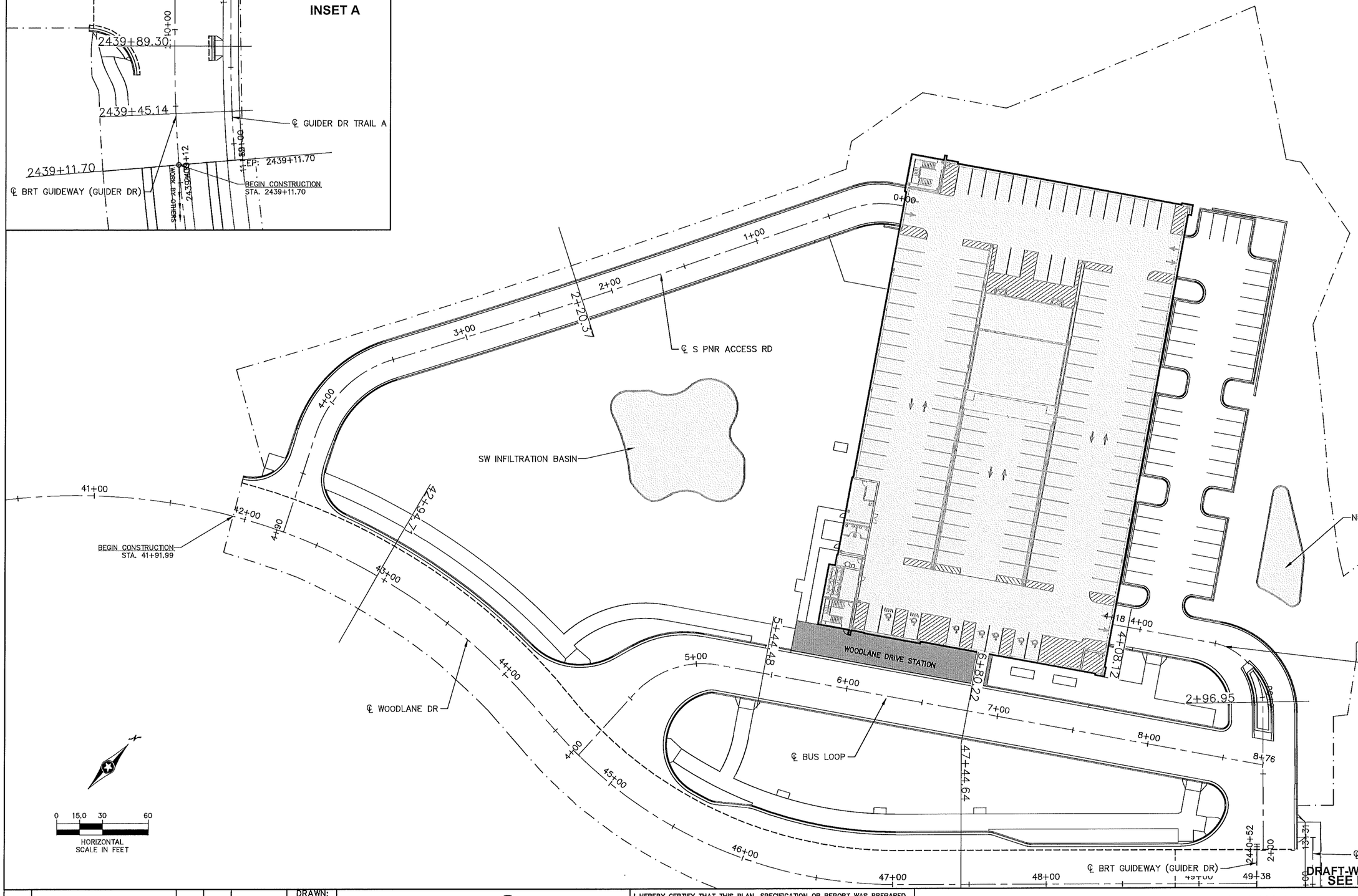
1. The applicant shall submit confirmation that the City of Woodbury approves the proposed increase in discharge rates to the southeast for the 2- and 10- year events.

2. The applicant shall submit the final, signed plans set.

3. The applicant shall submit contact information for the trained erosion control coordinator responsible for implementing the Stormwater Pollution Prevention Plan (SWPPP).

4. The applicant shall submit a copy of the approved Minnesota Pollution Control Agency's NPDES Construction Permit coverage for the project.

INSET A



0 15.0 30 60
HORIZONTAL SCALE IN FEET

NO.	REVISIONS	BY	APP	DATE

DRAWN:
DESIGNED:
CHECKED:

Kimley»Horn
METROPOLITAN COUNCIL
METRO Gold Line
60% SUBMITTAL
12/21/2021

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

CERTIFIED BY _____

LIC. NO. _____ DATE _____

CROSS SECTIONS LAYOUT

WOODLANE DRIVE STATION PARK & RIDE

Permit Application Coversheet

Date March 02, 2022

Project Name North St. Paul 2022 SIP Project Number 22-07

Applicant Name Ron Ritchie, City of North St. Paul

Type of Development Linear

Property Description

This project is located on portions of 7th Avenue East and 4th Avenue East in the City of North St. Paul. The applicant is proposing to reconstruct the roadway and sidewalk areas. The total site area is 4.68 acres. Due to contaminated soils and utility constraints, the applicant has elected to defer construction of a volume reduction BMP per the District's alternative compliance sequencing. A project is being considered north of the site that would provide a water quality and flood mitigation benefit but is still in a feasibility stage. The applicant must provide this stormwater treatment within 2 years or pay into the Stormwater Impact Fund per the District's rules. Due to a slight decrease in impervious area, rate control will be met within the project limits.

Watershed District Policies or Standards Involved:

- ☐ *Wetlands*
- ☑ *Erosion and Sediment Control*
- ☑ *Stormwater Management*
- ☐ *Floodplain*

Water Quantity Considerations

There are no water quantity considerations.

Water Quality Considerations

Short Term

The proposed erosion and sediment control plan is sufficient to protect downstream water resources during construction.

Long Term

The proposed stormwater management plan is deferred and will protect the long term quality of downstream water resources with an offsite BMP.

Staff Recommendation

Staff recommends approval of this permit with the special provisions.

Attachments:

- ☑ Project Location Map
- ☐ Project Grading Plan

#22-07 North St. Paul 2022 SIP

Wetlands
- Manage A
- Manage B
- Manage C
- Lake
- Sediment Pond
- Not Assessed

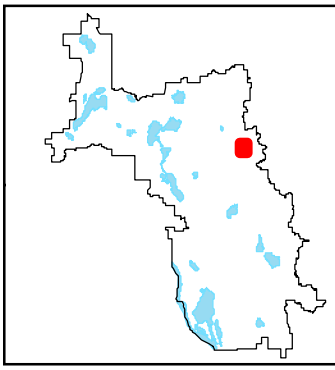
- Flow Arrows
- Major Flow Arrows
- Subwatersheds
- Creeks
- Permits
- Ramsey Co Parcels

Highlighted Areas Represent Active Permit

0 200 400
Feet

0 0.035 0.07
Miles

N



22-07

Special Provisions

1. The applicant shall remove the internal review note on Sheet 53.

2. The applicant shall add notes to the plans:
A. Notify Nicole Soderholm, Ramsey-Washington Metro Watershed District, at 651-792-7976 prior to beginning construction activity in order to schedule an initial SWPPP inspection.
B. The specified erosion and sediment control practices are the minimum. Additional practices may be required during the course of construction.

3. The applicant shall submit a site-specific Stormwater Pollution Prevention Plan (SWPPP).

4. The applicant shall submit contact information for the trained erosion control coordinator responsible for implementing the SWPPP.

5. The applicant shall submit construction details for the erosion control practices specified.

6. The applicant shall submit the final, signed plans set.

7. The applicant shall submit a copy of the approved Minnesota Pollution Control Agency's NPDES Construction Permit coverage for the project.

Stewardship Grant Application Summary

Project Name: McCoy **Application Number:** 22-05 CS

Board Meeting Date: 3/2/2022

Applicant Name: Erin McCoy

Residential ☑ **Commercial/Government** ☐

Project Overview:

This project is located off Birch Street and Jay Lane in the City of White Bear Lake. The applicant is proposing to install a curb cut rain garden along Birch St and also a bee lawn planting in the entire front yard. The City of White Bear Lake will be installing the curb cut as part of their annual street improvement project to help reduce the cost of curb work. The applicant plans to hire a contractor to perform maintenance the first few years after installation.

The rain garden portion of this project is eligible for 75% coverage and the habitat restoration is eligible for 50% coverage for a maximum of $15,000.

BMP type(s):

Bee Lawn(1), Rain Garden(1)

Grant Request:

$8,000.00

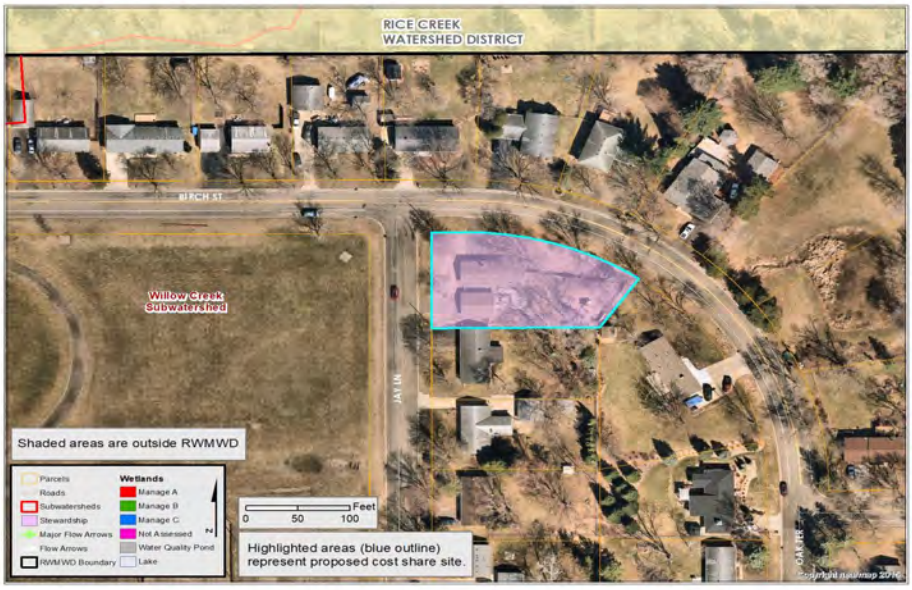
Recommendation:

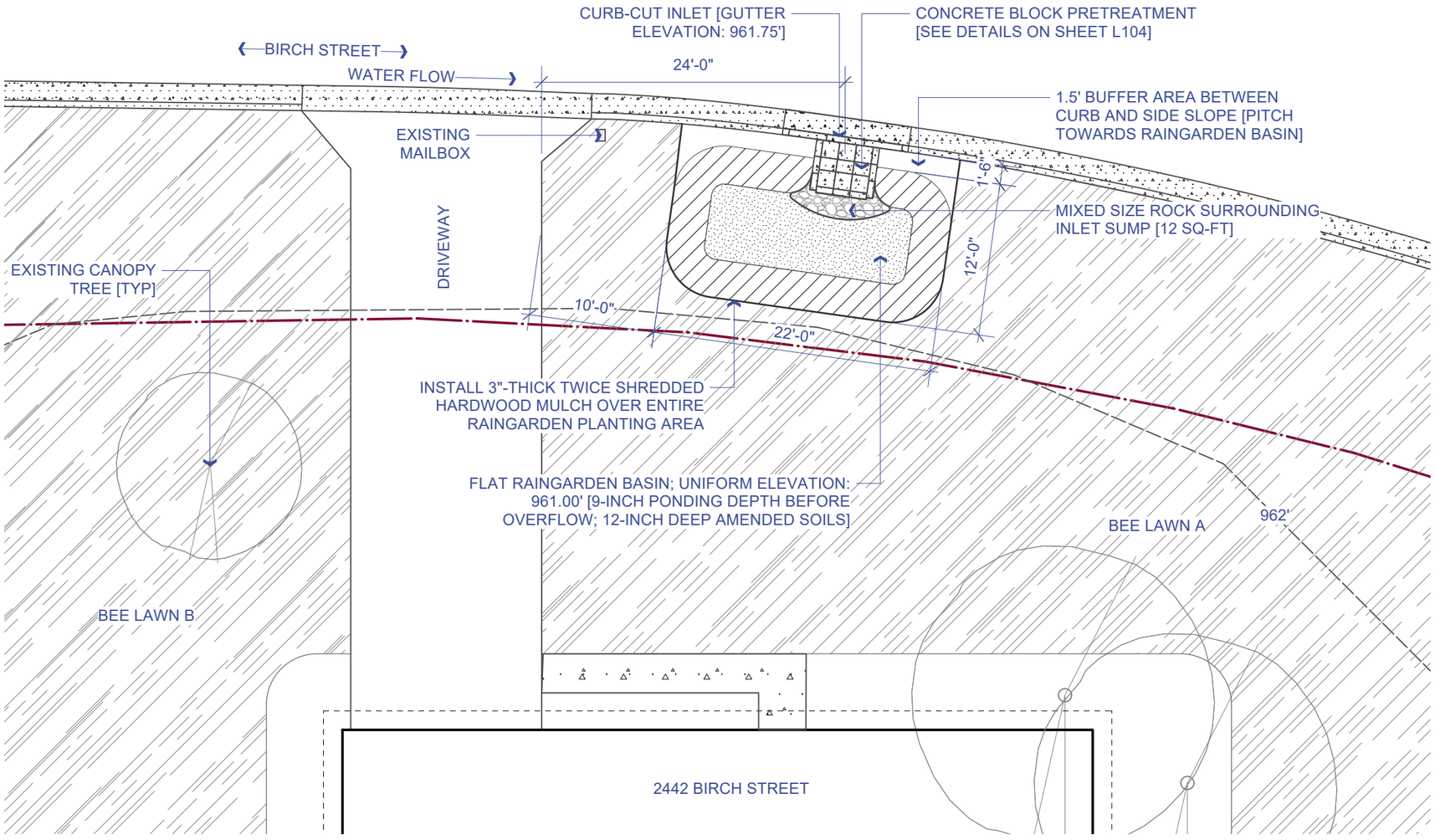
Staff recommends approval of this application.

Subwatershed:

Willow Creek

Location Maps:





CURB-CUT RAINGARDEN NOTES

1. PROTECT RAINGARDEN AREA FROM COMPACTION. EXCAVATE WITH TRACKED EQUIPMENT ONLY.

2. UTILITY LOCATIONS SHOWN ON PLANS ARE APPROXIMATE. CONTRACTOR TO SITE VERIFY UTILITY LOCATIONS PRIOR TO BEGINNING WORK.

3. CONTRACTOR TO AQUIRE ANY NECESSARY PERMITS PRIOR TO BEGINNING WORK.

4. RIP UNDERLYING SOILS 12" MINIMUM TO REMOVE COMPACTION.

5. SIZE AND SHAPE OF RAINGARDEN MAY VARY. CONTRACTOR TO VERIFY AND REQUIRED CHANGES WITH RCSWCD PRIOR TO INSTALLATION. MAINTAIN SQUARE FEET AND PONDING DEPTH.

6. ELEVATIONS PROVIDED ARE APPROXIMATE, SITE VERIFY FINAL ELEVATIONS TO ENSURE PROPER PONDING DEPTH, OVERLOW, ETC.

7. INSTALL NON-WOVEN GEOTEXTILE FABRIC BETWEEN ROCK AND SOIL FOR SPLASH AREA NEAR INLET STRUCTURE.

8. SEE DETAILS ON SHEETS L103 & L104 FOR RAINGARDEN, CURB-CUT, AND INLET STRUCTURE.

9. PLANT RAINGARDEN AREA ACCORDING TO PLANTING PLAN PROVIDED ON SHEET L102.

LEGEND

- 4H:1V RAINGARDEN SIDE SLOPE
- FLAT RAINGARDEN BASIN
- BEE LAWN SEED MIX PLANTING
  TOTAL AREA: +/- 9,675 SF
- PARCEL BOUNDARY (APPROX.)
- 2' CONTOUR ELEVATION (UNLESS NOTED)

RAMSEY COUNTY

RAMSEY COUNTY SWCD
2015 VAN DYKE STREET
MAPLEWOOD, MN 55109
651-266-7280
www.ramseycounty.us

PROJECT: MCCOY RESIDENCE
LOCATION:
2442 BIRCH STREET
WHITE BEAR LAKE, MN 55110

WATERSHED DISTRICT:

RAMSEY-WASHINGTON METRO WATERSHED DISTRICT

DESIGNER: BTO
DATE: 1/19/2022
REVISION:
REVISION:
REVISION:
REVISION:
REVISION:
CHECKED BY:
TAA:

NOTES:
CONFIRM UTILITY LOCATIONS PRIOR TO BEGINNNING WORK

VERIFY PROJECT LAYOUT ONSITE WITH RCSWCD PRIOR TO START OF WORK

ORIGINAL SHEET SIZE: 11" x 17"

SCALE: 1"=10'-0"

RAINGARDEN LAYOUT

N

L101

Stewardship Grant Application Summary

Project Name: Goodrich Golf Course **Application Number:** 22-06 CS

Board Meeting Date: 3/2/2022

Applicant Name: Michael Goodnature

Residential ☐ **Commercial/Government** ☑

Project Overview:

This project is located within Goodrich Golf Course in Maplewood. Ramsey County Parks and Recreation Department is proposing to convert 2.4 acres of rough areas of the golf course into native prairie and wetland edge to increase wildlife and pollinator habitat within the golf course. The applicant will work in coordination with RWMWD Natural Resource Staff to complete the project. This grant would help cover the overall materials cost of the project.

This project is eligible for 50% coverage up to $15,000.

BMP type(s):

Native Habitat Restoration(1)

Grant Request:

$7,500.00

Recommendation:

Staff recommends approval of this application.

Subwatershed:

Wakefield Lake

Location Maps:

Goodrich Native Prairie & Wetland Buffer Conversion Project

Restoration Locations
2.4 acres total

0 125 250 500 Feet

N

Stewardship Grant Application Summary

Project Name: Cope Ave Improvements **Application Number:** 22-07 CS

Board Meeting Date: 3/2/2022

Applicant Name: Jon Jarosch

Residential ☐ **Commercial/Government** ☑

Project Overview:

This project is located on Cope Ave from English St to White Bear Ave. This area was identified by the City of Maplewood as a pavement rehabilitation project for construction in 2022. Maplewood plans to replace existing failing street pavement and deteriorated curb and gutter as well as provide better access and connectivity for pedestrians and bicyclists. The project will significantly reduce underutilized street pavement through street narrowing. This will reduce impervious surface within the corridor by about a 1/2 acre. Benefits of street narrowing include less runoff into Knucklehead Lake and eventually Keller Lake, less maintenance input and resources going forward including less salt use in the winter months, traffic calming, increase in green space. This project will trigger an RWMWD erosion and sediment control permit that the City will apply for separately.

This project is eligible for 75% funding up to $50,000.

BMP type(s):

Grant Request:
$50,000.00

Recommendation:

Staff recommends approval of this application.

Subwatershed:

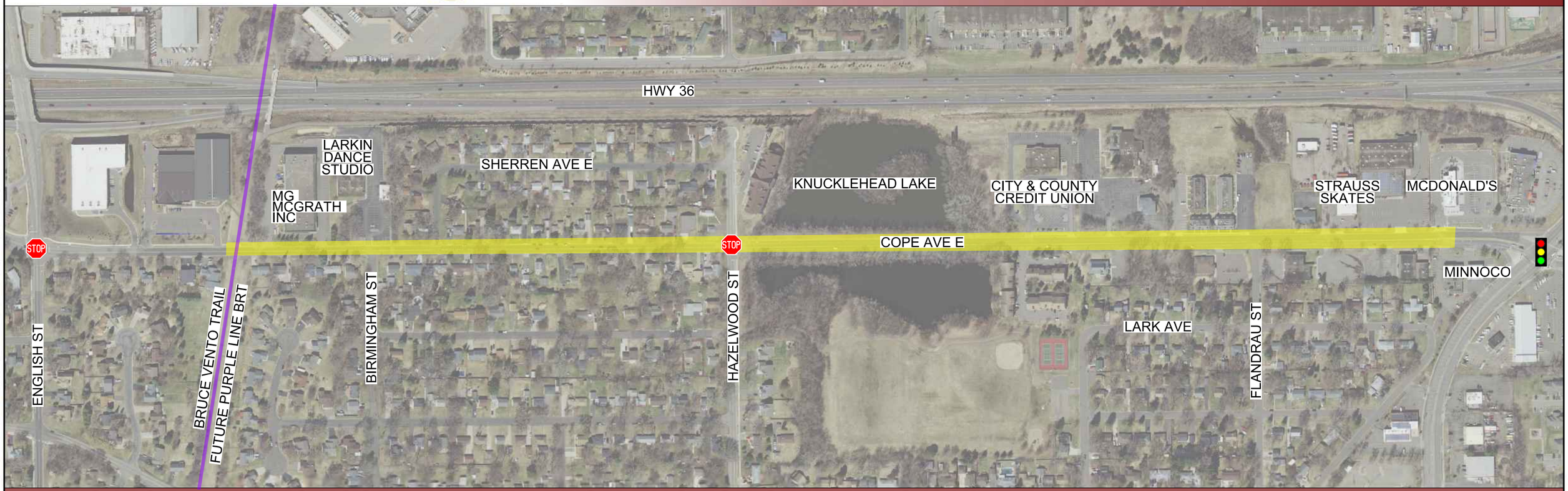
Keller Lake

Location Maps:


Kohlman Creek Subwatershed
HIGHWAY 36 W
SHERREN ST
LAKE AVE
Keller Lake Subwatershed
SANDHURST AVE
BURKE AVE
Wakefield Lake Subwatershed
Roads
Subwatersheds
Stewardship
Major Flow Arrows
Flow Arrows
RWMWD Boundary
Wetlands
Manage A
Manage B
Manage C
Not Assessed
Water Quality Pond
Lake
0
350
700
Feet
Highlighted areas (blue outline) represent proposed cost share site.

Maplewood

COPE AVENUE IMPROVEMENTS



PROJECT EXTENTS - COPE AVENUE FROM ENGLISH STREET TO WHITE BEAR AVENUE

KEY ISSUES

- Street Pavement in poor condition
- Water main beyond useful life and prone to breaks
- Lack of continuous pedestrian and bike facilities
- Excess unnecessary pavement
- Complaints of speeding throughout corridor

GOALS:

- Improve pavement condition
- Upgrade major utilities
- Improved pedestrian and bike access and safety
- Reduce impervious area
- Modify layout for existing and future traffic patterns
- Slow traffic and improve safety of corridor

SCHEDULE:

- Project approval process: Winter-Spring 2022
- Construction: Summer-Fall 2022

CONTACT:

Tyler Strong
Project Manager
(651) 249-2402
tyler.strong@maplewoodmn.gov

Jon Jarosch
Assistant City Engineer
(651) 249-2405
jon.jarosch@maplewoodmn.gov

WEBSITE: https://www.maplewoodmn.gov/2061/Cope-Avenue-Improvements

Stewardship Grant Application Summary

Project Name: Battle Creek Middle School **Application Number:** 22-08 CS

Board Meeting Date: 3/2/2022

Applicant Name: Jens Kvaal

Residential ☐ **Commercial/Government** ☑

Project Overview:

This project is located off Winthrop St N and N Park Dr in the City of St. Paul. The applicant proposes installing a filtration basin and a large native planting area to help alleviate drainage problems at the site. They are also proposing to include an environmental learning area for the students and the surrounding community. Battle Creek Middle School takes pride in serving a very diverse population, including 45% English language learners and 89% students of color, and considers this project a significant improvement to the neighborhood. The applicant plans to hire a contractor to perform maintenance the first two years after installation and will then work with RWMWD staff to help coordinate ongoing maintenance, including student and volunteer activities.

This project is eligible for 100% funding up to $100,000. The total project cost is about $263,000.

BMP type(s):

Filtration Basin(1)

Grant Request:

$100,000.00

Recommendation:

Staff recommends approval of this application.

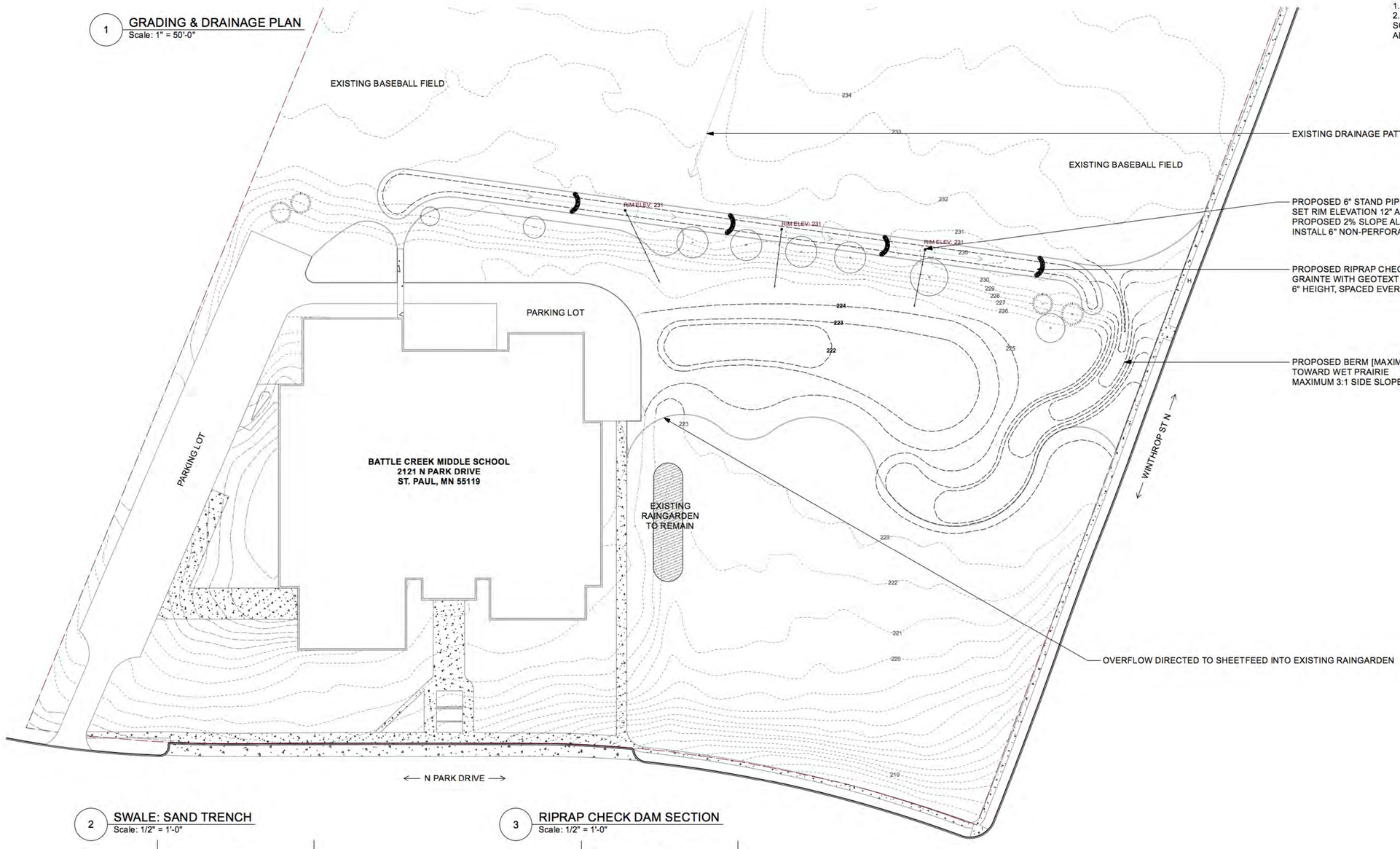
Subwatershed:

Battle Creek

Location Maps:

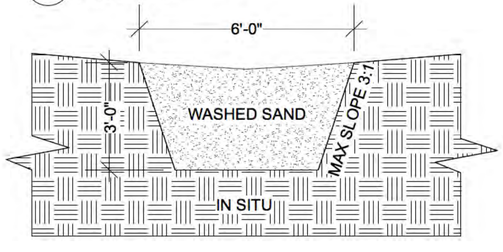

BURNS AVE
Battle Creek
Subwatershed
Parcels
Roads
Subwatersheds
Stewardship
Major Flow Arrows
Flow Arrows
RWMWD Boundary
Wetlands
Manage A
Manage B
Manage C
Not Assessed
Water Quality Pond
Lake
N
Feet
0
125
250
Highlighted areas (blue outline)
represent proposed cost share site.

1 GRADING & DRAINAGE PLAN
Scale: 1" = 50'-0"

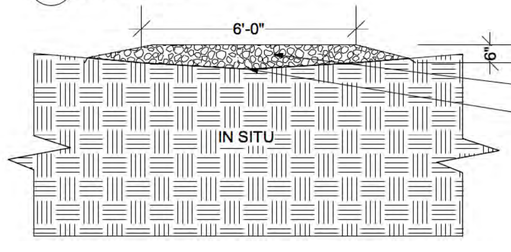


GRADING NOTES:
1. TRACKED EQUIPMENT ONLY TO BE USED ON SITE.
2. DREDGE EXISTING SWALE NORTH OF WET PRAIRIE. EXCAVATE ADDITIONAL 36" SOIL. SOIL GENERATED TO BE USED ON EAST BERM IF SOIL TYPE/CONDITION ALLOWS.

2 SWALE: SAND TRENCH
Scale: 1/2" = 1'-0"



3 RIPRAP CHECK DAM SECTION
Scale: 1/2" = 1'-0"



LEGEND
- EXISTING RAINGARDEN
- PROPOSED RIP RAP CHECK DAMS
- PROPOSED DRAINAGE PIPE
- EXISTING DECIDUOUS TREE
- EXISTING EVERGREEN TREE

NOTE: 1 FOOT CONTOURS
TRACED FROM CITY OF ST. PAUL GIS
Ramsey County Coordinates Coordinate Zone
FGDC-STD-001-1998

BATTLE CREEK MIDDLE SCHOOL
2121 NORTH PARK DRIVE
ST. PAUL, MN 55119

GRADING & DRAINAGE PLAN

DATE	REVISIONS

CONCEPT PLAN ONLY
NOT FOR CONSTRUCTION

DAVEY Resource Group
1196 7th St E, St. Paul, MN 55106 • 651-202-3662

Date: 9/29/21

DRAWN BY	EM
CHECKED	Checked
APPROVED	Approved
SCALE	1" = 50'-0"
ORIGINAL SHEET SIZE 24x36	

L200

Consent Agenda Action Item

Board Meeting Date: March 2, 2022 **Agenda Item No:** 4E

Preparer: Tina Carstens, Administrator

Item Description: Change Order No. 1 for the 2022 CIP Maintenance & Repair Project

Background:

Attached is change order number 1 for the 2022 CIP Maintenance and Repair Project. This change order reduces the contract price for the removal of sediment from Woodbury ponds. This part of the project is to be reimbursed by the City of Woodbury who will ultimately benefit from this decrease in construction costs.

Applicable District Goal and Action Item:

Goal: Achieve quality surface water – The District will maintain or improve surface water quality to support healthy ecosystems and provide the public with a wide range of water-based benefits.

> **Action Item:** Maintain District projects and consider opportunities to support the maintenance activities of others.

Goal: Manage Risk of Flooding – The District will reduce the public's risk to life and property from flooding through programs and projects that protect public safety and economic well-being.

Action Item: Maintain District flood storage facilities and storm sewer systems.

Staff Recommendation:
Approve Change Order No. 1.

Financial Implications:
This change order decreases the contract price.

Board Action Requested:
Approve Change Order No. 1.

Change Order No. 1
Ramsey-Washington Metro Watershed District
2022 Capital Improvement Project (CIP)

DATE OF ISSUANCE: February 23rd, 2022

Owner: Ramsey-Washington Metro Watershed District
2665 Noel Drive
Little Canada, MN 55117
Attn: Lawrence Swope

Contractor: Fitzgerald Excavating & Trucking, Inc.
21432 350th Street
Goodhue, MN 55027
Attn: Jason Fitzgerald

Engineer: Barr Engineering Company
4300 MarketPointe Drive, Suite 200
Minneapolis, MN 55435
Attn: Brad Lindaman

C.O.1.A Additional Bid Item:" Woodbury Ponds - Sediment/Muck Cleanout Excavation, Loading, Hauling and Disposal of Regulated Material (SRV Level 2) to alternative, non-landfill, site"

Description of Change:

In an effort to reduce unit costs and thereby enable more material to be removed for the allotted budget, the City of Woodbury investigated the Contractor's offer and authorized the Contractor to remove SRV Level 2 material from one of Woodbury's ponds (Lake Terrace Pond) and dispose of it at a nearby facility, "316 Rock – Reis Farms". This facility is not technically a landfill but is an active business that routinely receives material of this type. The closer proximity resulted in a cost savings to the city, who will ultimately reimburse the RWMWD for the pond cleanout work. The sediment cores data, memo and lab analysis were reviewed and formally accepted both by the chosen facility and by the city.

The contractor is in the process of performing the work, in good faith, as directed by the owner's representative and in accordance with all other portions of the contract documents. Lake Terrace Pond is the responsibility of the city, and they requested the pond be cleaned by the district as a part of the annual program. The contract documents require the contractor to deliver SRV level 2 material to a landfill but since the city and receiving facility both approved the exchange the contractor was allowed to proceed with disposing it the new site.

Measurement and Payment:

Add new bid item:

"*Sediment/Muck Cleanout: Excavation, Loading, Hauling and Disposal of Regulated Material (SRV Level 2) to alternative, non-landfill, site*" is to be added to the contract at a unit price of $32 per ton. This unit price was based on the attached quote provided on February 8th, 2022 by the contractor.

A. Method of Measurement: *Sediment/Muck Cleanout: Excavation, Loading, Hauling and Disposal of Regulated Material (SRV Level 2) to alternative, non-landfill, site* will be measured based on weight of the Level of materials in tons (Ton). Weight of disposal material will be determined based on weigh tickets, provided to Engineer by Contractor, from a certified scale facility. Ticket shall have facility location, date, time and all pertinent weight and disposal information included. Tickets will be added together and rounded to nearest whole ton. Loads will not be included in the measurement unless a weigh ticket accompanies the load, and a copy is provided to Engineer by the end of the next working day. Ice will not be considered in quantity measured for payment.

B. Basis of Payment: Contractor will be paid a unit price per ton (Ton) for, excavation, loading, hauling, and disposal of *Sediment/Muck Cleanout: Excavation, Loading, Hauling and Disposal of Regulated Material (SRV Level 2) to alternative, non-landfill, site* in accordance with the MPCA current guidance for SRV Level 2. This unit price shall be payment in full for the costs of all supervision, labor, materials, equipment, overhead and profit, and performing all operations as are necessary to haul, and disposal of *Sediment/Muck Cleanout: Excavation, Loading, Hauling and Disposal of Regulated Material (SRV Level 2) to alternative, non-landfill, site*, all complete as specified. No payment will be considered for loading, hauling, and disposing of ice.

Change in Contract Time:

None

Impact on Contract Price:

At $32 per ton, a $4 per ton cost savings will be applied for all material being disposed of at Reis Farms. The City of Woodbury will be reimbursing RWMWD for all work at all of The City of Woodbury's pond sites.

Attachments:

- Contractor's Quote
- Facility acceptance of material
- City of Woodbury Acceptance of disposal location and price change
- Barr memo and sediment core lab results

This Change Order No. 1 is:

Submitted By:  Date: February 23rd, 2022
(ENGINEER) Bradley J. Lindaman, Project Engineer
Barr Engineering Company

Authorized By: _____ Date: _____
(OWNER) Lawrence Swope, President
Ramsey-Washington Metro Watershed District

Approved By: _____ Date: _____
(CONTRACTOR) Jason Fitzgerald, President
Fitzgerald Excavating & Trucking, Inc.

Fitzgerald Excavating & Trucking Inc.

21432 350th Street

Goodhue, MN 55027

651-923-4060 Office 651-923-4080 Fax

February 8th 2022

Ramsey Washington Watershed District

We propose taking the pond mud that meets the Level 2 criteria from Woodbury to 316 Rock – Ries Farms for $32/ton.

Thank you!

Jason Fitzgerald

RIES FARMS

17205 230ST.E Hastings MN 55033
Nick Ries II CEO 651-226-8314
Nick Ries III CFO 651-800-1000
RiesFarms@gmail.com

February 9, 2022

Attn: Jason Fitzgerald
Fitzgerald Trucking

Ries Farms LLC dba 316 Rock has reviewed the analysis and is able to accept level 2 pond mud from Pond Lake West Terrace in Woodbury, Minnesota at our facility.

Sincerely,

Corey Waller
651-300-1000
corey@316rock.com

CW/do

Gareth W. Becker

From: Seaman, Kristin <kristin.seaman@woodburymn.gov>
Sent: Thursday, February 24, 2022 8:17 AM
To: Gareth W. Becker
Subject: RE: Price adjustment - Lk Terrace

Gareth,
The city approves and requests the change in location in disposal site for SRV Level 2 dredged material exclusively from city's "Lake Terrace Pond" to 316-Rock Reis Farms. The reduction in unit price associated with this change of $4/ton is acceptable.
Thank you,

Kristin Seaman
Environmental Resources Specialist
8301 Valley Creek Rd | Woodbury, MN 55125
(651) 714-3593 | www.woodburymn.gov

resourceful. naturally.
engineering and environmental consultants

BARR

Technical Memorandum

To: City of Woodbury
From: Barr Engineering
Subject: Stormwater Pond Sediment Characterization, 2021
Date: January 17, 2022
Project: 23/62-0282
c: Ramsey-Washington Metro Watershed District

1 Introduction

Barr Engineering Co. (Barr) conducted a sediment characterization study of four stormwater ponds in the City of Woodbury. Sediment samples were collected from stormwater ponds Pond 76, SC 107, SC 242, and SC 327 on September 3, 2021. The purpose of sediment characterization was to determine whether the sediment in the stormwater ponds, when excavated or dredged, could potentially be reused as fill, or if other management methods such as landfill disposal, would be required. The use and/or disposal of excavated or dredged material is determined based on concentrations of potential contaminants in the sediments, including metals and polycyclic aromatic hydrocarbons (PAHs). Excavated sediment and soils that do not exhibit field screening impacts, and do not exceed the Minnesota Pollution Control Agency's (MPCA) Soil Reference Values (SRV) or applicable Screening Soil Leaching Values (SLVs), may be considered Unregulated Fill that is suitable for off-site reuse according to the MPCA document *Best Management Practices for the Off-Site Reuse of Unregulated Fill* (MPCA, 2012). Sediment or soil excavated from stormwater ponds with constituents that exceed SRVs or applicable Screening SLVs are often disposed at a solid waste landfill.

2 Sediment Sample Collection

Sediment sampling was conducted in accordance with the MPCA's *Managing Stormwater Sediment, Best Management Practice Guidance* (MPCA, 2017). This document provides technical guidance for characterizing sediment in stormwater ponds, including the number of samples that should be collected and potential contaminants to be analyzed. Sampling locations were recorded with a handheld GPS unit; locations are shown on figures attached to the end of this memorandum. Barr staff collected sediment cores by pushing clean aluminum coring tubes into the sediment, or by stainless steel hand auger where unable to push a coring tube. The entire depth of each sediment core was homogenized in a clean stainless steel bowl before transferring to sample containers provided by the laboratory. Samples were sent to Pace Analytical in Minneapolis for analyses of potential contaminants.

The MPCA guidance for stormwater pond sediment management lists the baseline parameters that should be analyzed in order to determine whether excavated sediment is contaminated or could be considered Unregulated Fill (MPCA, 2017). The baseline parameters listed in the MPCA guidance are arsenic, copper, and polycyclic aromatic hydrocarbons (PAHs). PAHs are organic compounds that are

formed by the incomplete combustion of organic materials, such as wood, oil, and coal. They are also naturally occurring in crude oil and coal. The MPCA determined that coal tar-based sealants are the largest source of PAHs to stormwater ponds, and a state-wide ban of coal tar-based sealants took effect January 1, 2014.

Additional parameters were added for analyses based on Barr's experience with characterizing sediment in stormwater ponds. The additional parameters included diesel range organics (DRO), gasoline range organics (GRO), and the 8 RCRA metals.

3 Laboratory Methodologies and Determination of BaP Equivalents

The parameters analyzed and their laboratory analytical methods are listed below:

- RCRA metals and copper (method EPA 6010D, and EPA 7471B for Hg)
- PAHs (method EPA 8270D by SIM)
- DRO (method Modified Wisconsin DRO with Silica Gel)
- VOCs (method EPA 8260B)
- Percent solids (method ASTM 2974)

The PAHs that were analyzed can be grouped into two categories: carcinogenic (i.e., cancer causing) and non-carcinogenic. In order to assess the contamination level of the carcinogenic PAHs in stormwater pond sediment, the MPCA requires the calculation of benzo[a]pyrene (BaP) equivalents, which is a single value representing the combined potency of 17 individual carcinogenic PAH compounds, relative to BaP as the reference compound. The list of compounds and their respective potency equivalents factors used to calculate the BaP equivalents can be found in the MPCA guidance document, along with methods for addressing constituents at concentrations below the detection limit (MPCA 2017).

Laboratory analytical results for the sediment samples are summarized in Table 1. The detailed laboratory report is included in Attachment A.

4 Results of Sediment Characterization

Results of laboratory analytical testing on the sediment samples were compared to the MPCA's current SRVs and Screening SLVs, as shown in Table 1 attached to the end of this memorandum. Results for each pond are discussed below.

Pond 76

Two sediment samples were collected from Pond 76. The sampling locations are shown on Figure 1. The BaP equivalents value in sample Pond76-SED01 exceeded the Residential SRV (see Table 1). The DRO concentration in Pond76-SED01 exceeded the MPCA's Unregulated Fill criteria for DRO as well. Therefore, **Barr recommends Pond 76 sediment should be disposed in a landfill, if excavated**.

SC 107

Two sediment samples were collected from stormwater pond SC 107. The sampling locations are shown on Figure 2. A duplicate sample was also collected at location SC107_SED01. The BaP equivalents value in samples SC107-SED01 and SC107_SED02 exceeded the Residential and Industrial SRVs (see Table 1). The DRO concentrations in samples SC107-SED01 and SC107_SED02 exceeded the MPCA's Unregulated Fill criteria for DRO as well. Therefore, **Barr recommends stormwater pond SC 107 sediment should be disposed in a landfill, if excavated**.

SC 242

One sediment sample was collected from stormwater pond SC 242. The sampling location is shown on Figure 3. The BaP equivalents value in sample SC242-SED01 exceeded the Residential and Industrial SRVs (see Table 1). The DRO concentration in samples SC242-SED01 exceeded the MPCA's Unregulated Fill criteria for DRO as well. Therefore, **Barr recommends stormwater pond SC 242 sediment should be disposed in a landfill, if excavated**.

SC 327

Two sediment samples were collected from stormwater pond SC 327. The sampling locations are shown on Figure 4. The BaP equivalents value in sample SC327-SED01 exceeded the Residential SRV (see Table 1). The DRO concentrations in samples SC327-SED01 and SC327-SED02 exceeded the MPCA's Unregulated Fill criteria for DRO as well. Therefore, **Barr recommends stormwater pond SC 327 sediment should be disposed in a landfill, if excavated**.

---

5 References

Minnesota Pollution Control Agency (MPCA), 2012. *Best Management Practices for the Off-Site Reuse of Unregulated Fill.* February 2012.

MPCA, 2017. *Managing Stormwater Sediment, Best Management Practice Guidance*, document wq-strm4-16, May 2017.

6 Tables

Table 1 – Sediment Analytical Data Summary

7 Figures

Figure 1 – Pond 76 Sampling Locations
Figure 2 – SC 107 Sampling Locations
Figure 3 – SC 242 Sampling Locations
Figure 4 – SC 327 Sampling Locations

8 Attachments

Attachment A – Laboratory Analytical Data Report

Tables

Table 1
Sediment Analytical Data Summary
City of Woodbury, MN
Ramsey-Washington Metro Watershed District

						Location	**Pond 76-SED01**	**Pond 76-SED02**	**SC107-SED01**		**SC107-SED02**	**SC242-SED01**	**SC327-SED01**	**SC327-SED02**
						Date	**9/03/2021**	**9/03/2021**	**9/03/2021**		**9/03/2021**	**9/03/2021**	**9/03/2021**	**9/03/2021**
						Sample Type	**N**	**N**	**N**	**FD**	**N**	**N**	**N**	**N**
Parameter	Units	MPCA Screening Soil Leaching Values	MPCA Residential/ Recreational Acute Soil Reference Values	MPCA Residential/ Recreational Chronic Soil Reference Values	MPCA Industrial/ Commercial Chronic Soil Reference Values	MPCA Criteria for Unregulated Fill								
Effective Date		06/01/2013	05/01/2021	05/01/2021	05/01/2021	06/22/2009								
Exceedance Key		**Bold**	No Exceed	Underline	*Italic*	Shade								
General Parameters														
Moisture	%						32.3	71.1	22.9	21.6	46.3	43.2	29.9	62.2
Metals														
Arsenic	mg/kg	5.8	9 BTV	9 BTV	9 BTV	5.8	1.2 J	4.5	0.80 J	1.0 J	0.93 J	3.0	1.7	4.9
Barium	mg/kg	1700	250	3000	41000	250	21.6	149	16.8	19.0	22.0	140	48.6	152
Cadmium	mg/kg	8.8	8.8	1.6	23	1.6	0.062 J	0.47 J	< 0.043 U	< 0.043 U	< 0.060 U	0.43	0.19 J	0.51
Chromium	mg/kg			23000 CR6			10.9	17.7	10.1	11.5	11.2	22.6	21.0	29.1
		36 CR6		11 CR6	62 CR6	11	10.9	17.7	10.1	11.5	11.2	22.6	21.0	29.1
Copper	mg/kg	700	110	2200	33000	110	20.1	21.1	11.1	13.6	34.1	26.7	22.2	26.7
Lead	mg/kg	2700		300	700	300	3.9	16.3	2.9	2.9	3.2	13.8	7.7	34.0
Mercury	mg/kg	3.3 MC		3.1	3.1	3.1	< 0.012 U	0.057 J	< 0.011 U	< 0.010 U	< 0.015 U	0.039	0.011 J	0.060
Selenium	mg/kg	2.6		77	1200	2.6	< 0.44 U	1.6 J	< 0.41 U	< 0.42 U	< 0.58 U	< 0.57 U	< 0.46 U	< 0.84 U
Silver	mg/kg	7.9		77	1200	7.9	< 0.047 U	< 0.11 U	< 0.044 U	< 0.045 U	< 0.062 U	< 0.061 U	< 0.049 U	< 0.090 U
PAHs, Carcinogenic														
3-Methylcholanthrene	mg/kg	T		T	T		< 0.0017 U	< 0.0039 U	0.113 J	< 0.0071 UJ	0.199	< 0.0020 U	< 0.0079 U	< 0.0030 U
5-Methylchrysene	mg/kg	T		T	T		< 0.0010 U	< 0.0024 U	< 0.0045 U	< 0.0044 U	< 0.0013 U	< 0.0012 U	< 0.0049 U	< 0.0018 U
7,12-Dimethylbenz(a)anthracene	mg/kg	T		T	T		< 0.0054 U	< 0.0126 U	< 0.0236 U	< 0.0233 U	< 0.0068 U	< 0.0064 U	< 0.0260 U	< 0.0097 U
7h-Dibenzo(c,g)carbazole	mg/kg	T		T	T		0.128	< 0.0045 U	0.162 J	< 0.0083 UJ	0.419	< 0.0023 U	< 0.0093 U	< 0.0035 U
Benz(a)anthracene	mg/kg	T		T	T		4.75	0.144	5.68	4.97	12	0.193	0.701	0.0185 J
Benzo(a)pyrene	mg/kg	T		T	T		4.54	0.171	7.35	6.29	13.9	0.355	0.81	0.0256 J
Benzofluoranthenes	mg/kg	T		T	T		8.58	0.323	14.3	12.3	31.6	0.909	1.56	0.0654 J
Chrysene	mg/kg	T		T	T		5.92	0.178	7.96	6.61	18.3	0.379	1.22	0.0425
Dibenz(a,h)acridine	mg/kg	T		T	T		0.217	< 0.0021 U	0.307	0.22	0.75	0.0184	0.0645 J	< 0.0016 U
Dibenz(a,h)anthracene	mg/kg	T		T	T		0.778	0.0320 J	1.23	0.914	3	0.0849	0.174	0.0045 J
Dibenzo(a,e)pyrene	mg/kg	T		T	T		1.49	< 0.0044 U	2.68	1.94	5.99	0.229	0.302	< 0.0034 U
Dibenzo(a,h)pyrene	mg/kg	T		T	T		0.705	< 0.0025 U	1.4	1.03	3.06	0.118	0.203	< 0.0019 U
Dibenzo(a,i)pyrene	mg/kg	T		T	T		0.173	< 0.0035 U	0.396	0.295	0.691	0.0284	< 0.0072 U	< 0.0027 U
Dibenzo(a,l)pyrene	mg/kg	T		T	T		0.0859	< 0.0079 U	0.171	0.118	0.321	0.0088 J	< 0.0163 U	< 0.0061 U
Indeno(1,2,3-cd)pyrene	mg/kg	T		T	T		2.66	0.116	5.43	4.45	10.7	0.338	0.539	0.0185 J
B(a)P Equivalent, Kaplan-Meier (Barr Calculation)	mg/kg	**1.4 T**		2 BTV T	*23 T*	1.4	**18**	0.3 a	***34 a***	***26 a***	***69***	**2.4 a**	**3.7 a**	0.056 a
PAHs, General														
2-Methylnaphthalene	mg/kg			39	580	39	0.194	< 0.0031 U	< 0.0059 U	< 0.0058 U	0.0173 J	0.0021 J	0.0183 J	< 0.0024 U
Acenaphthene	mg/kg	81		450	6800	81	1.18	< 0.0108 U	0.0854	0.0747	0.407	0.0075 J	0.0873	< 0.0083 U
Acenaphthylene	mg/kg	NA					0.0741	0.0428	0.0464 J	0.0276 J	0.132	0.0073 J	0.0205 J	< 0.0068 U
Anthracene	mg/kg	1300		2800	42000	1300	2.11	0.0559	0.547	0.451	1.67	0.0258	0.134	< 0.0042 U
Benzo(g,h,i)perylene	mg/kg	NA					3.27	0.136	6.24	5.09	12	0.413	1.02	0.0225 J
Fluoranthene	mg/kg	670		200	2700	200	14.8	0.284	15.2	13.3	32.1	0.576	1.72	0.0482
Fluorene	mg/kg	110		390	5800	110	1.71	0.0212 J	0.124	0.108	0.503	0.0123 J	0.0836	< 0.0055 U
Naphthalene	mg/kg	4.5		81	280	4.5	0.0807	< 0.0102 U	< 0.0191 U	< 0.0189 U	0.0365	< 0.0052 U	< 0.0210 U	< 0.0078 U
Phenanthrene	mg/kg	NA					15.2	0.1	4.73	4.3	11	0.137	1.43	0.0141 J
Pyrene	mg/kg	440		220	3200	220	12.6	0.242	11.9	10.7	27.1	0.496	2.86	0.0492
Volatile Organic Compounds														
Benzene	mg/kg	0.017		9.4	42	0.017	< 0.0355 U	< 0.108 U	< 0.0292 U	< 0.0243 U	< 0.0482 U	< 0.0505 U	< 0.0370 U	< 0.0854 U
Ethyl benzene	mg/kg	1.0		190	480	1.0	< 0.0887 U	< 0.269 U	< 0.0731 U	< 0.0607 U	< 0.12 U	< 0.126 U	< 0.0926 U	< 0.213 U
Toluene	mg/kg	2.5		820	820	2.5	0.78	< 0.269 U	< 0.0731 U	< 0.0607 U	< 0.12 U	< 0.126 U	< 0.0926 U	< 0.213 U
Xylene, total	mg/kg	5.4 M		260 XYL	260 XYL	5.4	< 0.266 U	< 0.807 U	< 0.219 U	< 0.182 U	< 0.361 U	< 0.379 U	< 0.278 U	< 0.64 U
Total Petroleum Hydrocarbons														
Diesel Range Organics, silica gel cleanup	mg/kg					100	761	15.0 J	184	155	605	68.0	256	125
Gasoline Range Organics, C6-C10	mg/kg						< 3.7 U	< 11.7 U	< 3.1 U	< 3.0 U	< 5.1 U	< 4.8 U	< 3.6 U	< 8.2 U

Data Footnotes and Qualifiers

Barr Standard Footnotes and Qualifiers

N	Sample Type: Normal
FD	Sample Type: Field Duplicate
NA	NA (not applicable) indicates that a fractional portion of the sample is not part of the analytical testing or field collection procedures.
a	Estimated value, calculated using some or all values that are estimates.
J	Estimated detected value. Either certain QC criteria were not met or the concentration is between the laboratory's detection and quantitation limits.
U	The analyte was analyzed for, but was not detected.

MPCA Screening Soil Leaching Values

CR6	Value represents the criteria for Chromium, hexavalent.
M	Value represents the criteria for mixed Xylenes.
MC	Mercury as Mercuric Chloride.
NA	Criterion value is not available for this analyte.
T	Value represents a criteria for the total carcinogenic PAHs as B(a)P.

MPCA Soil Reference Values

BTV	Background Threshold Values (BTVs). Not calculated health based SRVs. The calculated SRVs were determined to be below background values. Please refer to the "Background Threshold Value Evaluation" document for additional information. It is not appropriate to include BTVs in additivity calculations.
CR6	Based on the value for chromium, hexavalent
T	Value represents a criteria for the total carcinogenic PAHs as B(a)P
XYL	Value represents the criteria for xylenes (mixed isomers).

Figures

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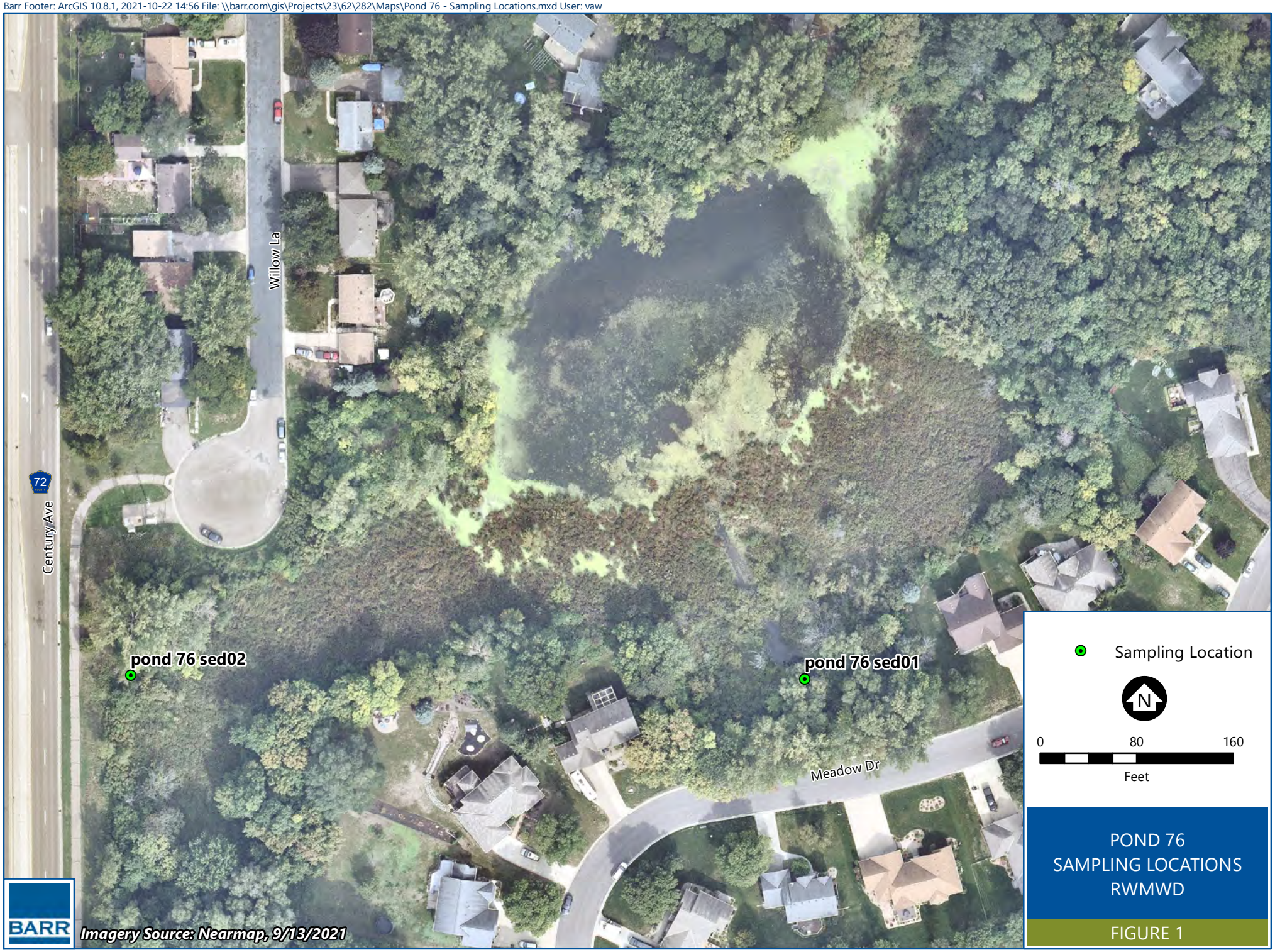

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BARR

SC 327
SAMPLING LOCATIONS
RWMWD

FIGURE 4

Consent Agenda Action Item

Board Meeting Date: March 2, 2022 **Agenda Item No:** 4F

Preparer: Tina Carstens, Administrator

Item Description: Change Order No. 2 for the Ryan Drive and Keller Parkway Conveyance Upgrades Project

Background:

Attached is change order number 2 for the Ryan Drive and Keller Parkway Conveyance Upgrades Project. The changes and reason for the changes is outlined in the attachment. There were three project changes that cost $19,775.00. It should be noted that this project is projected to finish up below the base bid amount even with this change order.

Applicable District Goal and Action Item:

Goal: Manage risk of flooding – The District will reduce the public's risk to life and property from flooding through programs and projects that protect public safety and well-being.

Action Item: Cooperate with appropriate stakeholders to identify, assess, and address potential flooding problems in the District.

Staff Recommendation:
Approve Change Order No. 2.

Financial Implications:
This change order includes an increase in costs of $19,775. There are sufficient funds in the project fund for this project.

Board Action Requested:
Approve Change Order No. 2.

Change Order No. 02
Ramsey-Washington Metro Watershed District
Ryan Drive & Keller Parkway Conveyance Upgrades Project

DATE OF ISSUANCE: February 23, 2022

Owner: Ramsey-Washington Metro Watershed District
2665 Noel Drive
Little Canada, MN 55117
Attn: Lawrence Swope

Contractor: Fitzgerald Excavating & Trucking, Inc.
21432 350th Street
Goodhue, MN 55027
Attn: Jason Fitzgerald

Engineer: Barr Engineering Co.
4300 MarketPointe Drive, Suite 200
Minneapolis, MN 55435
Attn: Sam Redinger, PE

C.O.2.A Subsurface Drain End Treatments

Description of Change:

Provide (furnish and install) eight 4-inch end treatments (3:1 mitered drainage grates - model No. 4CMD3-GM) to the previously installed 4-in subsurface drain. Install the end treatments at each exposed end of the subsurface drain. Field fit the installation to provide a flush installation of the end treatment to surrounding grade. Provide all necessary appurtenances (e.g., coupler piping, compression fittings, etc.) to complete the installation. Expose subsurface drain and reduce length as necessary to install end treatments flush to existing grade. Refer to attached Exhibit A for an illustration of the scope description.

Reason for Change Order:

The project scope included the installation of 4-in corrugated subsurface drain perpendicular to the elevated roadway of Ryan Drive at the request of City of Little Canada engineer. The purpose of this change is to add end treatments to the exposed ends of the installed subsurface drain to prevent rodents and other small creatures from accessing the piping. Providing end treatments was not included in the original contract scope as bid and is therefore a changed condition.

Change in Contract Price:

Eight end treatments will be installed at-grade on the exposed ends of the subsurface drain. The unit price for Subsurface Drain End Treatments is $490.00 per each (EA). This change results in an increase of the contract price by $3,920.00.

Measurement and Payment:

31 00 00.05A Subsurface Drain End Treatments – Each (EA) Unit

1. Method of Measurement: Subsurface Drain End Treatments will be measured on the basis of each (EA) unit provided (furnished and installed) as measured in the field by manual counting, all complete as specified.

2. Basis of Payment: The contractor will be paid a unit price per each (EA) Subsurface Drain End Treatment provided, all complete as specified. This unit price will be payment in full for the costs of all supervision, administration, labor, materials, equipment, overhead and profit, all incidentals and other items not specifically paid for but included in Subsurface Drain End Treatments and performing all operations as are necessary for Subsurface Drain End Treatments, all complete as specified. This work includes, but is not limited to:

    a. Exposing subsurface drain at discharge point;
    b. Reducing length as necessary and field-fitting adjacent grading to provide flush install of end treatment;
    c. Providing (furnishing and installing) end treatment and all necessary materials (e.g., pipe coupling, fernco compression fitting, etc.) to complete install;
    d. Restoration;
    e. All incidentals and other items not specifically paid for but included in the scope to provide Subsurface Drain End Treatments not specifically covered or paid for elsewhere.

Change in Contract Time:

This change will not change the contract time. (Contract time extended per Change Order No. 01)

C.O.2.B Drainage Culvert and Backflow Preventer

Description of Change:

Provide (furnish and install) a 24-ft long, 12-in diameter HDPE, solid wall, SDR 11 drainage culvert with a WaPro WaStop inline check valve (backflow preventer) installed at discharge end. Install the drainage culvert at an upstream invert elevation of 873.50 and downstream invert elevation of 872.1. Work includes the salvaging of existing riprap necessary to install drainage culvert and restoring the adjacent earthen berm. Restore earthen berm to a 10-ft wide nominal top elevation of 875.0 and 3:1 side slopes with material to the requirements of 31 00 00.05 Roadway Embankment (Select Granular Borrow). Tie-in berm top to roadway shoulder at a 10:1 slope. Restore (topsoil/seed) berm side slopes. Install salvaged riprap with geotextile around upstream culvert inlet and downstream outlet on drainage creek side slope of restored berm. Refer to attached Exhibit A for an illustration of the scope description.

Reason for Change Order:

During construction, the contractor removed an existing drainage culvert with backflow preventer on the south side of Ryan Drive to facilitate construction of the new 14-ft wide by 5-ft tall box culvert installed beneath Ryan Drive. The intention was for this drainage culvert to be restored; however, field-direction was provided by District staff to dispose of the removed culvert and replace it with a riprapped drainage swale. Acknowledging the field-direction was provided with good intent, the riprapped drainage swale negatively impacts flood-risk reduction efforts and the drainage culvert with a backflow preventer needs to be re-installed with the earthen berm restored.

Change in Contract Price:

This change results in a lump sum increase in the contract price by $9,975.00.

Measurement and Payment:

33 42 00.05 Drainage Culvert and Berm Restoration – Lump Sum (LS) Unit

1. Method of Measurement: Drainage Culvert and Berm Restoration will be measured on the basis of a single Lump Sum (LS), all complete as specified.

2. Basis of Payment: The contractor will be paid a single Lump Sum (LS) price for Drainage Culvert and Berm Restoration, all complete as specified. This lump sum price will be payment in full for the costs of all supervision, administration, labor, materials, equipment, overhead and profit, all incidentals and other items not specifically paid for but included in Drainage Culvert and Berm Restoration and performing all operations as are necessary for Drainage Culvert and Berm Restoration, all complete as specified. This work includes, but is not limited to:

    a. Proving 24-ft of 12-in diameter HDPE, solid walled, SDR 11 drainage culvert;
    b. Providing WaPro WaStop inline check valve (backflow preventer), installed on discharge end of culvert;
    c. Salvaging riprap;
    d. Site preparation and excavation for culvert install;
    e. Culvert installation to an upstream elevation of 873.50 and downstream elevation of 872.10;
    f. Importing and installing Select Granular Embankment material and performing site grading to restore 10-ft wide top width earthen berm to nominal elevation of 875.0 and 3:1 side slopes. Tie-in berm crest grading to Ryan Drive shoulder at 10:1 slope;
    g. Perform earthwork to the requirements of specifications section 31 00 00.
    h. Place salvaged riprap with geotextile around inlet and outlet culvert openings and armoring berm slop along drainage creek;
    i. Perform site restoration (topsoil/seeding) of finished grading;
    j. All incidentals and other items not specifically paid for but included in the scope to provide Drainage Culvert and Berm Restoration not specifically covered or paid for elsewhere.

Change in Contract Time:

This change will not change the contract time. (Contract time extended per Change Order No. 01)

C.O.2.C Local Drainage Improvements at 209 Ryan Drive

Description of Change:

Provide (furnish and install) three NDS area inlets (model no. NDS 1882GRKIT – 18-in square) and drainage piping (8-inch schedule 40 PVC piping, fittings, and Fernco compression fittings) to facilitate the collection and conveyance of local runoff from low areas adjacent to Ryan Drive to a private 8-in HDPE pipe drainage system discharging into Gervais Creek/Owasso Basin. Existing drainage pipe profile estimated to range from invert elevation 871.7 to 870.7. Existing grade elevation at structure locations estimated to range from 873.0 - 873.50. Refer to attached Exhibit A for an illustration of the scope description.

Reason for Change Order:

This work is being added to the project scope to reconcile the property owner of 209 Ryan Drive's expressed concern that the project will result in an increase of localized ponding of surface runoff within their property. The modified geometry of the Ryan Drive roadway cross-section following the roadway raise to a nominal elevation of 876.0 resulted in the toe of the roadway side slope along the northern edge of Ryan Drive (property address of 209 Ryan Drive) extending further into the existing right-of-way. Although the property owner's claim is technically unviable, District staff have expressed a willingness to install some drainage features to improve the local runoff collection and conveyance along the elevated roadway to Gervais Creek/Owasso Basin. The property owner has expressed agreement that once complete, they will retain ownership and future maintenance requirements of these new drainage features.

Change in Contract Price:

This change results in a lump sum increase in the contract price by $5,880.00.

Measurement and Payment:

33 42 00.06 Local Drainage Improvements – Lump Sum (LS) Unit

1. Method of Measurement: Local Drainage Improvements will be measured on the basis of a single Lump Sum (LS), all complete as specified.

2. Basis of Payment: The contractor will be paid a single Lump Sum (LS) price for Local Drainage Improvements, all complete as specified. This lump sum price will be payment in full for the costs of all supervision, administration, labor, materials, equipment, overhead and profit, all incidentals and other items not specifically paid for but included in Local Drainage Improvements and performing all operations as are necessary for Local Drainage Improvements, all complete as specified. This work includes, but is not limited to:

    a. Providing three each NDS 18-in square area inlets (model no. 1882GRKIT);
    b. Providing 8-inch schedule 40 PVC piping and necessary fittings to tie-in drainage piping from the area inlets to an existing, privately owned, 8-inch HDPE drainage pipe and/or existing drainage structure;
    c. Field-locating to verify location and elevation of existing, privately owned, 8-inch HDPE drainage pipe;
    d. Field-fitting of structure locations to low areas and routing of connection piping to provide a wye tie-in along the existing, privately owned, 8-inch HDPE drainage pipe and/or existing drainage structure;
    e. Providing a solid metal cover to seal the existing drainage structure located on the western corner of the eastern drive approach into 209 Ryan Drive;
    f. Perform localized grading around new inlet structures to direct surface runoff toward structure;
    g. Protect existing landscaping (e.g., trees, shrubs, boulders, etc.) to the extent feasible;
    h. Performing localized grading along the roadway slope to match side slope geometry around the existing catch basin structure (requires burial of structure top);
    i. Completing all site preparation, earthwork, and restoration to the requirements of the project specifications;
    j. Provide structure and pipe bedding material to the requirements of Mn/DOT Standard Specification 3149.2.B.2;

k. Backfill above pipe spring line with in-situ, like-kind material;
l. Perform site restoration (topsoil/seeding) of finished grading;
m. All incidentals and other items not specifically paid for but included in the scope to provide Local Drainage Improvements not specifically covered or paid for elsewhere.

Change in Contract Time:

This change will not change the contract time. (Contract time extended per Change Order No. 01)

Attachments:

Exhibit A: Dwg. R-07 markup to illustrate Change Order No. 2 scope descriptions.

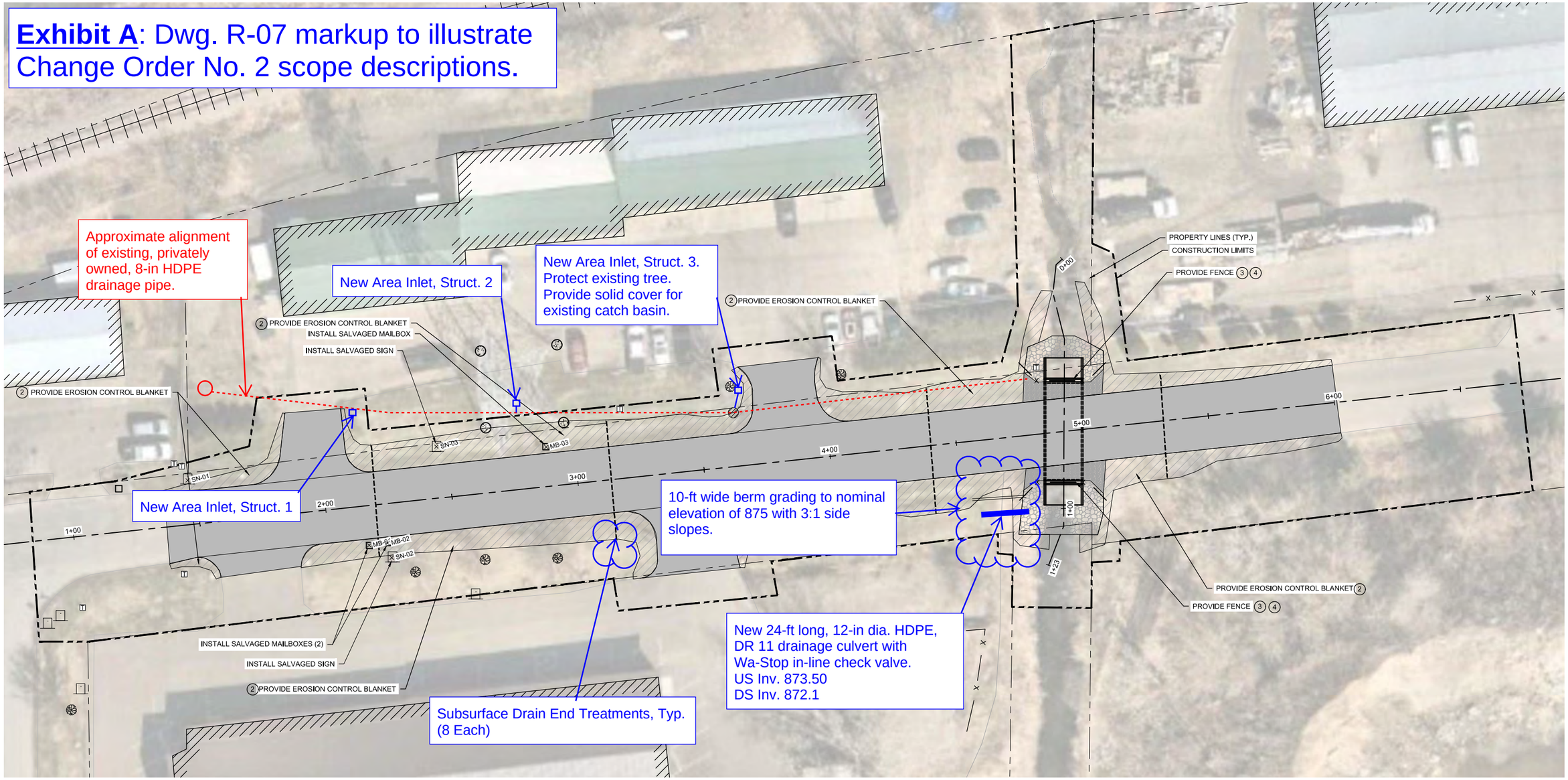
This Change Order No. 2 is:

Submitted By: (ENGINEER) — Samuel Redinger, PE, Project Engineer, Barr Engineering Co. — Date: February 23, 2022

Authorized By: (OWNER) — Lawrence Swope, President, Ramsey-Washington Metro Watershed District — Date: _____

Approved By: (CONTRACTOR) — Jason Fitzgerald, President, Fitzgerald Excavating & Trucking, Inc. — Date: 2/23/2022

Exhibit A: Dwg. R-07 markup to illustrate Change Order No. 2 scope descriptions.



NOTES:

1. CONTRACTOR TO RESTORE DISTURBED AREAS FROM CONSTRUCTION.
2. CONFIRM PLACEMENT OF SALVAGED ITEMS WITH ENGINEER.INSTALL SALVAGED ITEMS TO CITY OF LITTLE CANADA OR RAMSEY COUNTY REQUIREMENTS.
3. RESTORE ALL DISTURBED AREAS WITH NATIVE SEED (AS DIRECTED BY OWNER) AND EROSION CONTROL BLANKET.

1 - PLAN: RYAN DRIVE SITE RESTORATION (1)

0 20 40
SCALE IN FEET

CONSTRUCTION POINTS			
	DESC.	NORTHING	EASTING
	MB-01	189565.77	573726.95
	MB-02	189566.62	573734.14
	MB-03	189604.50	573796.78
	SN-01	189591.33	573655.34
	SN-02	189560.84	573735.81
	SN-03	189604.59	573753.47

GENERAL NOTES:

1. FOR EROSION CONTROL PLAN, SEE DWG. NO. G-05
2. FOR EXISTING CONDITIONS, UTILITIES AND REMOVAL PLAN SEE DWG. NO. R-02
3. FOR FENCE PLAN, SEE DWG. NO. R-05
4. FOR FENCE DETAILS, SEE DWG. NO. K-07

ISSUED FOR BID

NO.	BY	CHK.	APP.	DATE	REVISION DESCRIPTION
0	JMD3	SOR	BJL	03/16/2021	ISSUED FOR BID
A	JMD3	SOR	BJL	02/25/2021	ISSUED FOR PROJECT APPROVAL

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
PRINTED NAME SAMUEL O. REDINGER
SIGNATURE
DATE March 17, 2021 LICENSE # 58632

CLIENT	02/25/21							
BID				03/16/21				
CONSTRUCTION								
RELEASED TO/FOR	A	B	C	0	1	2	3	
	DATE RELEASED							

BARR
Corporate Headquarters: Minneapolis, Minnesota
Ph: 1-800-632-2277

Project Office:
BARR ENGINEERING CO.
4300 MARKETPOINTE DRIVE
Suite 200
MINNEAPOLIS, MN 55435
Ph: 1-800-832-2277
Fax: (952) 832-2601
www.barr.com

Scale	AS SHOWN
Date	10/27/2020
Drawn	JMD3
Checked	SOR
Designed	SOR
Approved	BJL

RAMSEY-WASHINGTON METRO WATERSHED DISTRICT

RYAN DRIVE AND KELLER PKWY
CONVEYANCE UPGRADES

RYAN DRIVE
SITE RESTORATION PLAN

BARR PROJECT No.	23/62-1379.00
CLIENT PROJECT No.	
DWG. No.	R-07
REV. No.	0

CADD USER: Jacob M. Dahl FILE: M:\DESIGN\2362\1379.00\2362-13790_R-07 RYAN DR SITE RESTORATION.DWG PLOT SCALE: 1:2 PLOT DATE: 3/17/2021 11:20 AM

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West Vadnais Lake Discussion

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RAMSEY-WASHINGTON
METRO WATERSHED DISTRICT

MEMO

TO: Board of Managers and Staff

FROM: Tina Carstens, Administrator

SUBJECT: West Vadnais Lake Discussion with Vadnais Lake Area Watershed Management Organization (VLAWMO) Board Subcommittee

DATE: March 2, 2022

As you requested, I have invited the VLAWMO administrator and board members to attend our board meeting to discuss the future management of West Vadnais Lake.

The VLAWMO board designated a subcommittee (not a quorum) of members to attend our meeting on March 2nd. The following will attend the meeting:

Phil Belfiori, VLAWMO Administrator
Jim Lindner, Gem Lake City Council Member and Chair of the VLAMWO board
Dan Jones, White Bear Lake City Council Member and Vice-Chair of the VLAWMO board
Patricia Youker, Vadnais Heights City Council Member & Treasurer/Secretary of VLAWMO board

Also attending is City of Vadnais Heights City Engineer Jesse Farrell.

This joint discussion is a good opportunity for the two boards to come together and talk through our current partnerships and discuss the future of West Vadnais Lake management.

The following are points that you wanted to discuss with the VLAWMO staff and board:

- The realities of how the water flows out of RWMWD from Grass Lake, into West Vadnais Lake in VLAWMO, and then right back into RWMWD.
- The study completed by RWMWD determined that there wasn't enough subsurface connection between West Vadnais and East Vadnais Lakes to use that connection to encourage lower water levels in West Vadnais indicating that the two water bodies function fairly separately.
- The current condition of West Vadnais Lake's water quality and status as an impaired water body. Recognizing that West Vadnais Lake flows into our Gervais Creek system and our Phalen Chain of Lakes.
- The ability of RWMWD to be able to manage their water systems effectively and efficiently for flood control and efficient drainage.

(651) 792-7950
fax (651) 792-7951
office@rwmwd.org
rwmwd.org
2665 Noel Drive
Little Canada, MN 55117

As I have discussed in the past, RWMWD staff have long had a good partnership with VLAWMO staff and have not found any inefficiencies in doing the job we need to do related to flood risk management and drainage. As you know, the water level controls for West Vadnais Lake are located in the RWMWD boundary, as is the overflow bypass system, in case high water levels threaten to reach Twin Lake.

In the past, the following actions have been taken by RWMWD as it relates to West Vadnais Lake:

- Cleaning out vegetation in West Vadnais Lake, where Grass Lake water comes in to encourage good drainage. This was done with a DNR and Ramsey County Right-of-Way permit.
- Emergency repair of erosion on the south end of the lake for Ramsey County public works. Work was completed by RWMWD and reimbursed by Ramsey County.
- Lowering of West Vadnais Lake Outlet. This was done in partnership with VLAWMO, the local government unit for the Environmental Assessment Worksheet. RWMWD and Barr staff completed the EAW while VLAWMO noticed and accepted the EAW.
- Installed an overflow bypass system and repaired the berm on the triangle wetland south of West Vadnais Lake and in RWMWD.
- RWMWD and VLAWMO have partnered and continue to partner on water quality and rough fish management on West Vadnais Lake.

One more thing of note, recently VLAWMO completed a Sustainable Lake Management Report for West Vadnais Lake. Here is a link to that document for your review.

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Permit Program

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RAMSEY-WASHINGTON
METRO WATERSHED DISTRICT

MEMORANDUM

Date: March 2, 2022

To: Board of Managers and Staff

From: Nicole Soderholm, Permit Coordinator
Mary Fitzgerald, District Inspector

Subject: February Enforcement Action Report

During February 2022:

Number of Violations: **0**

Activities:

Permitting assistance to private developers and public entities, miscellaneous resident inquiries, ongoing ESC site checks, WCA administration, new permit review with Barr Engineering, initial SWPPP meeting with contractor, Metro Gold Line/MnDOT coordination meetings, Wetland Professionals Association forum, Wetland Conservation Act training, Minnesota Pollution Control Agency MS4 Q&A session, International Erosion Control Association conference (Minneapolis), inspection coordination meeting with City of Woodbury, rules discussion with Capitol Region Watershed District, BMP cost-benefit spreadsheet

Project Updates:

#19-42 American Indian Magnet School Addition (St. Paul)

Interior building work continues through the winter months at the American Indian Magnet School multi-year addition project. Staff visited the site on February 9th for an inspection. Most of the site was inactive and snow covered, but staff did note that the 3rd St E construction entrance needed fresh rock to minimize sediment tracking during warmer days. Staff also made note of several perimeter control and inlet protection BMPs damaged by snow plowing operations and requested they be replaced promptly. Staff will continue to monitor the site regularly and schedule a spring walk-through with onsite contacts when site conditions allow. Staff typically schedule these spring visits for multi-year projects to refresh contractors on RWMWD expectations, and to have the most up-to-date site contact information.

#21-21 3M B277 Ramp Demolition and #21-26 Building 201 Demolition (Maplewood)

Staff visited both 3M project sites on February 9th to check on activity and determine temporary stabilization cover. Both project sites were inactive with moderate snow cover. Staff spoke with site contacts and discussed a plan for installing stabilization to exposed soil that was not protected from late-season activity. Site contacts confirmed they had a subcontractor scheduled to be onsite to make an action plan. Staff communicated that temporary cover like straw mulch can be applied on top of snow, and additional measures can be used once there is sufficient snow melt. All perimeter control and inlet devices were intact. Staff will continue to monitor and inspect the site until all permanent stabilization has sufficient growth.

Single Lot Residential Permits Approved by Staff:

None

Permits Closed:

20-38 SOS Office Furniture (Vadnais Heights)

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Stewardship Grant Program

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Stewardship Grant Program Budget Status Update

March 2, 2022

Homeowner	Coverage	Number of Projects: 3	Funds Allocated
Habitat Restoration and rain garden w/o hard surface drainage	50% Cost Share $15,000 Max	2	$4,300
Rain garden w/hard surface drainage, pervious pavement, green roof	75% Cost Share $15,000 Max	1	$8,000*
Master Water Steward Project	100% Cost Share $15,000 Max	0	$0
Shoreland Restoration	100% Cost Share $15,000 Max	0	$0

Commercial, School, Government, Church, Associations, etc.	Coverage	Number of Projects: 5	Funds Allocated
Habitat Restoration	50% Cost Share $15,000 Max	1	$7,500*
Shoreland Restoration (below 100-year flood elevation w/actively eroding banks)	100% Cost Share $100,000 Max	0	$0
Priority Area Projects	100% Cost Share $100,000 Max	3	$301,540*
Non-Priority Area Projects	75% Cost Share $50,000 Max	1	$50,000*
Public Art	50% Cost Share $15,000 Max	0	$0
Aquatic Veg Harvest/LVMP Development	50% Cost Share $15,000 Max	0	$0

Maintenance	50% Cost Share $5,000 Max for 5 Years	62	$46,025
Consultant Fees			$9,000
Total Allocated			**$426,365**

2022 Stewardship Grant Program Budget	
Budget	$1,000,000
Total Funds Allocated	$426,365
Total Available Funds	**$7573,635**

**Includes project pending approval at the March 2, 2022 board meeting.*

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Action Items

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Request for Board Action

Board Meeting Date: March 2, 2022 **Agenda Item No:** 8A

Preparer: Tina Carstens, Administrator

Item Description: Board of Managers 2022 Annual Meeting

Background:

The following is official business for the Board to take action on at this annual meeting:

1. **Elections of Officers**
   The Board must select a president, vice president, treasurer, and secretary. The current officers are as follows:

President	Larry Swope
Vice President	Cliff Aichinger
Treasurer	Dianne Ward
Secretary	Pam Skinner

   The President will serve as the chairperson for all meetings, be a signatory to the District's account and sign any contracts or correspondence.

   The Vice President will perform the President duties in the event of an absence. The Vice President is also responsible for being the personnel representative from the Board. This means that the Vice President would coordinate the Administrator's review as well as consult with the Administrator on personnel issues that may arise.

   The Treasurer will be a signatory on District accounts and sign the monthly checks.

   The Secretary will ensure meeting minutes are prepared and approved by the board as well as sign documents that require multiple signatures.

   This year we know that Manager Aichinger will not be continuing on the board and therefore should not be elected to an officer position.

   Staff recommendation is for the Board to elect its president, vice president, treasurer and secretary for the next 12 months.

2. **Consulting Staff Selection**
   Every two years we are required to publish a public notice soliciting proposals for our consulting services. We do this for our engineer, attorney and accountant. The

proposals are attached to this memo. We only received proposals from our three current consultants. These new proposals outline the staff that will continue to work with our District staff. The rates in each proposal include a modest increase from the 2020 rates that align with industry standards.

Engineer: Barr Engineering
Attorney: Galowitz Olson
Accountant: Redpath and Company

Staff recommendation is to appoint Barr Engineering, Galowitz Olson, and Redpath and Company to continue as the consultants for 2022.

3. **Official Designations**

A final item of business is to designate the District's official newspapers and banking institution. Current appointments for each of these items are as follows:

Official Bank of Deposit: 4M Fund with League of Minnesota Cities: US Bank
Official Newspapers: St. Paul Pioneer Press

Last year we had a thorough discussion about how to proceed with the official newspaper designation due to the lack of local papers that cover our watershed area. The decision was made to use the St. Paul Pioneer Press. I am happy to report that we have used the Pioneer Press for two instances in the past year and had quick service and no issues with the publication of our notices.

Staff recommendation is to approve the current Official Bank of Deposit and designate the St. Paul Pioneer Press as the official newspapers.

Applicable District Goal and Action Item:

Goal: Manage effectively: The District will operate in a manner that achieves its mission while adhering to its core principles.

Action Item: Follow all legal requirements applicable to watershed districts.

Staff Recommendation:
Staff recommends appointing the consulting staff, official bank of deposit and official newspapers as shown above.

Financial Implications:
None

Board Action Requested:
Appoint Board officers and designate the desired consulting staff, official bank of deposit, and official newspapers.

Proposal to provide engineering consulting services for

the Ramsey-Washington Metro Watershed District

Submitted by:
Barr Engineering Co.

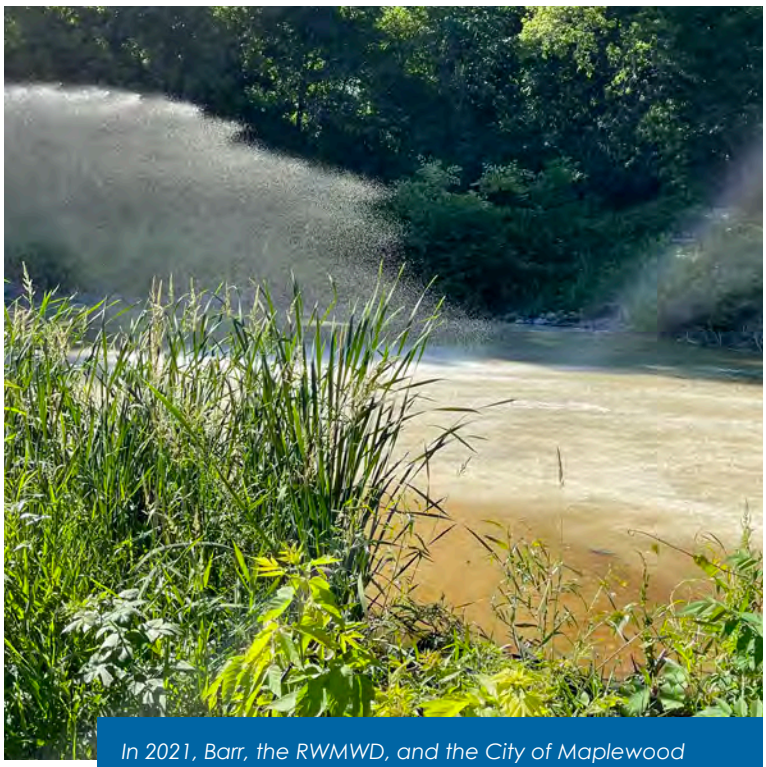
4300 MarketPointe Drive, Suite 200
Minneapolis, Minnesota 55435
952-832-2600

February 18, 2022

resourceful. naturally.

Front cover: *A key feature in the first implementation project of the Beltline resiliency study, the Keller Channel control structure was modified recently to include remote-control adjustable weirs. When operated in accordance with the operating plan, the control structure reduces flood levels throughout the Phalen Chain of Lakes. Barr led aspects of this project.*

Barr helps the RWMWD conduct its five-year inspection cycles for the Beltline and Battle Creek storm sewers to keep up to date on the maintenance needs of these important conveyance systems. This photo was taken from the bottom of the Battle Creek storm sewer, looking up at one of the creek's several overflow structures that Barr designed in the 1980s.



In 2021, Barr, the RWMWD, and the City of Maplewood partnered on a research project funded through the University of Minnesota's Stormwater Research Council that involved applying spent lime in a slurry form to a pond south of Wakefield Lake. The goal of the project was to determine whether spent lime can decrease the internal load of phosphorus from the pond's sediments.

Volunteer planting event at Central Park Elementary School in Roseville for a new rain garden designed by Barr

Over the past few years, Barr assisted the RWMWD in the design and implementation of stormwater retrofit and green infrastructure features at two City of Saint Paul Target stores. The projects included removal of impervious parking spaces, installation of infiltration rain gardens, and construction of tree trenches. This photo shows the underdrains for one of the tree trenches constructed in the parking lot of the North Saint Paul Target site.

February 18, 2022

Ramsey-Washington Metro Watershed District
c/o Tina Carstens
2665 Noel Drive
Little Canada, Minnesota 55117

resourceful. naturally.®

Dear managers:

As we approach 47 years of consistently serving the board of managers for the Ramsey-Washington Metro Watershed District (RWMWD), we are pleased to express Barr's interest in continuing to serve your organization as your engineering consultant. Since 1975, we have worked to provide the RWMWD with the highest level of engineering services and commitment to your organization. We look forward to working with you to achieve your goals in 2022 and beyond.

In response to your request for proposals, we have outlined Barr's expertise in watershed management and our long history of working with the RWMWD. Some of the benefits Barr has to offer include:

- **Continuity**—Barr has provided continuity to the RWMWD's watershed management for nearly five decades. In addition, the team of engineers and designers that has provided direct engineering services to the district for the past several years will remain largely the same.

- **Familiarity**—We have been with the RWMWD since your inception; we know your past and are well-positioned to help you achieve future success. As the world continues to change, Barr is committed to working with you and RWMWD staff to forge new paths in response to the challenges you face. We are prepared to assist you in implementing your fourth-generation watershed management plan, building off past plans and looking ahead to future endeavors. We also have historical familiarity with the physical characteristics of the watershed district, to the extent that we think of your district as our own backyard.

- **Full service**—Our depth and breadth of staff is unmatched locally, allowing us to provide you with comprehensive water resources management services. Whether the district needs watershed modeling, water quality assessment, wetland assessment, restoration, and permitting, total maximum daily load (TMDL) preparation, design, or construction administration, Barr can help. We will personally coordinate and manage staff from our talent pool of more than 150 water resources engineers, scientists, landscape architects, geographic information system (GIS) practitioners, and graphic designers to address the RWMWD's specific needs.

- **Credibility**—Barr has established a reputation as experts in water resources management, flood control engineering, and design. The RWMWD will continue to benefit from Barr's strong working relationship with governmental agencies, particularly as the board of managers completes and implements the recommendations of the fourth-generation watershed management plan and helps ensure your role as a progressive leader in watershed management.

Thank you for the opportunity to provide information regarding our engineering services. We look forward to continuing our successful working relationship. If you have any questions or would like a more in-depth demonstration of Barr's skills and experience, please contact us (Brad: 952-832-2808, blindaman@barr.com; Erin: 952-832-2805, eandersonwenz@barr.com). We would be happy to deliver a presentation to you.

Sincerely,

Bradley J. Lindaman, PE
Vice President, Principal in Charge

Erin Anderson Wenz, PE, ENV SP
Vice President, Principal in Charge

Contents

At Aldrich Arena in Maplewood, Barr helped the RWMWD design and implement 13 rain gardens throughout the arena's parking lot. More than 9,000 perennials and grasses, 600 shrubs, and 70 trees were planted throughout the gardens, which stretch over 31,000 square feet combined. More than 11 acres drain to these gardens, including eight acres of pavement. The gardens clean the rainwater runoff going into Wakefield Lake.

About Barr Engineering Co.

Barr's roots extend back to the early 1900s with Adolph Meyer, a renowned hydrologist of the early 20th century. Doug Barr began work with Mr. Meyer in the 1950s and built a practice of his own while learning from this skilled hydrologist.

By the time the company was incorporated in 1966, it had 16 employees. Today, Barr Engineering Co. has more than 900 employees located in Minnesota, North Dakota, Missouri, Michigan, Utah, and Colorado, and in Alberta, Canada.

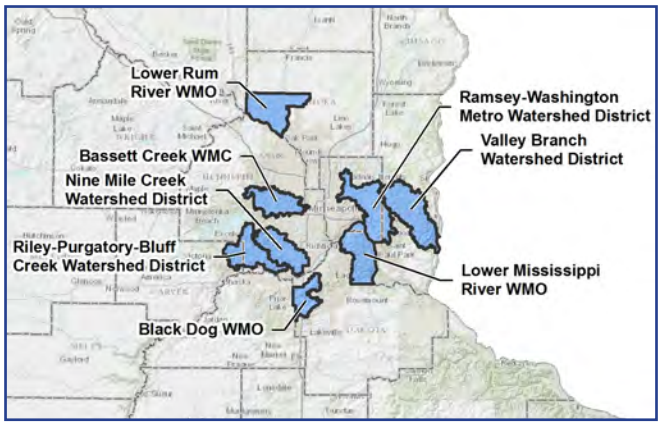
A focus on water resources—and your needs

Our commitment to water resources remains strong. More than 130 engineers and scientists in our Minneapolis office are engaged in water resources engineering and planning, wetland management, water quality improvement, ecology, and limnology.

Strong commitment to watershed management organizations

Barr currently serves as primary consultant to:

- Nine Mile Creek Watershed District (since 1960)
- Bassett Creek Watershed Management Commission (since 1969)
- Valley Branch Watershed District (since 1969)
- Riley-Purgatory-Bluff Creek Watershed District (1969-2007, since 2013)
- Ramsey-Washington Metro Watershed District (since 1975)
- Lower Mississippi River Watershed Management Organization (since 1987)
- Lower Rum River Water Management Organization (since 1987)
- Black Dog Watershed Management Organization (since 1996)
- Cedar River Watershed District (since 2007)
- Shell Rock River Watershed District (since 2008)



Barr serves as the primary consultant to several watershed districts and water management organizations in the seven-county metro area.

Barr has also assisted the following organizations: Capitol Region Watershed District, Carver County Watershed Management Organization, High Island Creek Watershed District, Lake Pelican Water Project District, Lower Minnesota River Watershed District, Minnehaha Creek Watershed District, Mississippi Watershed Management Organization North Fork Crow River Watershed District, Prior Lake-Spring Lake Watershed District, Red Lake Watershed District, Rice Creek Watershed District, Sauk River Watershed District, Scott Watershed Management Organization, Six Cities Water Management Organization, South Washington Watershed District, Thirty Lakes Watershed District, Turtle Creek Watershed District, Vadnais Lake Area Water Management Organization, Vermillion River Watershed Joint Powers Organization, and Zumbro Watershed Partnership.

Summary of Barr's services to watershed organizations

Watershed organization	Watershed management and planning	Stormwater management	Review of development plans	Stream and ravine stabilization and protection	Stream and lake monitoring	Water quality studies and implementation	Aquatic plant management	Capital improvement program assistance	Innovative stormwater management (low-impact development, bioengineering)	Urban planning
Bassett Creek	X	X	X	X	X	X		X	X	
Black Dog	X	X			X	X	X	X	X	
Capitol Region	X	X				X		X	X	X
Carver County	X	X				X			X	
Cedar River	X	X	X		X	X	X	X	X	X
Elm Creek	X	X	X			X		X		
Lake Pelican	X	X				X		X	X	
Lower Mississippi	X	X		X	X	X	X			
Lower Rum River	X	X		X		X		X		
Mississippi	X	X	X	X		X		X	X	X
Nine Mile Creek	X	X	X	X	X	X	X	X	X	X
North Fork Crow River	X	X		X	X					
Ramsey-Washington Metro	**X**	**X**	**X**	**X**	**X**	**X**	**X**	**X**	**X**	**X**
Prior Lake-Spring Lake	X	X			X	X				X
Riley-Purgatory-Bluff Creek	X	X	X	X	X	X		X	X	
Sauk River	X	X		X	X	X	X	X		
Scott	X	X		X	X	X		X	X	X
Shell Rock River	X	X	X	X	X	X	X	X	X	X
Thirty Lakes	X	X								
Turtle Creek	X	X			X	X				X
Valley Branch	X	X	X	X	X	X	X	X	X	
Zumbro Watershed Partnership				X	X	X		X		

Barr's water resources team for Ramsey-Washington Metro Watershed District

Core team members

Core project team members Brad Lindaman, Erin Anderson Wenz, Brandon Barnes, Marcy Bean, Keith Pilgrim, Greg Nelson, Evan Christianson, and Tyler Olson have been a part of the Barr team that has consistently served the district for many years.

The **Ramsey-Washington Metro Watershed District** will also have access to 900 engineers, scientists, and technical support staff, with more than 100 engaged in water resources engineering in our Minneapolis office. The breadth and depth of our team means that we have the capacity to tackle most any water resources or environmental challenge you might encounter. Below is only a partial list of Barr staff that have helped the district in the recent past.

Program task teams *(task leads listed first)*

Water resources planning and management

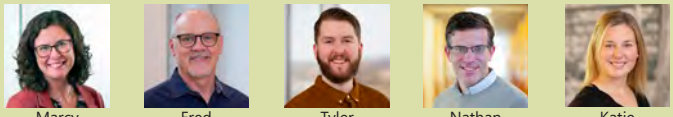
- Watershed management planning
- Rules and regulations preparation
- Permit review
- Governmental agency coordination
- Stakeholder involvement
- Administrative support

Water quality management

- Lake studies and restoration
- Lake and stream water quality monitoring
- Watershed runoff treatment
- Shoreland restoration
- Ecological use classification
- Hydrologic and hydraulic modeling

Ecosystem planning, landscape ecology, and landscape architecture

- Rain gardens
- Ecosystem restoration
- Native plant communities
- Master planning
- Site design
- Greenway planning
- Restorative landscaping
- Lakescaping
- Natural resource inventories
- Fish and wildlife management
- Education and interpretive planning
- Environmental review
- Green infrastructure design

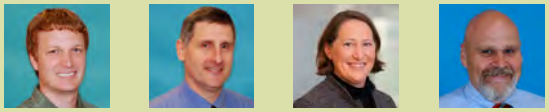


Flood resiliency and stormwater management

- Infiltration and filtration systems
- Stormwater utility design
- Hydrologic and hydraulic modeling
- NPDES permitting
- Flood and erosion control
- Infrastructure inventory and assessment

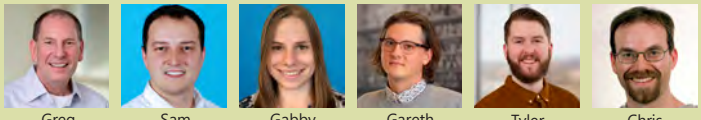
Groundwater

- Groundwater modeling
- Contaminant transport
- Wellhead protection
- Groundwater and surface-water connection analysis
- Well design and abandonment



Project inspection and maintenance

- Inspection
- Prioritization
- Repair design
- Construction administration and oversight



River and stream restoration

- Channel monitoring and classification
- Erosion protection
- Streambank stabilization
- Sediment transport
- Bioengineering
- Fluvial geomorphology


Tom MacDonald


Peter Hinck


Ron Koth


Jessica Olson

Wetlands and environmental review

- Delineation
- Classification
- Mitigation
- Restoration
- Functional assessment
- Monitoring and reporting
- Permitting
- Protection and management


Karen Wold


Shanna Braun


Cheryl Feigum


Dan Tix


Tyler Conley

Floodplain management

- Flood insurance studies
- Floodplain mapping and map revisions
- Flood frequency analysis
- Floodplain delineation
- Floodplain permitting
- Dam failure analyses
- Flood control structures


Brandon Barnes


Nathan Campeau


Lulu Fang


Bill Spycalla


Greg Nelson

Infrastructure design and construction services

- Dams
- Channels
- Sewers, pipes, and culverts
- Detention basins
- Flood protection measures
- Geotechnical design
- Construction observations
- Plans and specifications
- Contract documents


Brad Lindaman


Greg Nelson


Gareth Becker


Sam Redinger

Water quality research and new technologies

- New technology development and evaluation
- Remote lake level monitoring
- District research program support
- Automated water quality sampling
- Labratory research
- Alternative water quality and macrophyte management development and testing


Keith Pilgrim


Katie Turpin-Nagel


Tyler Olsen


Gabby Campagnola


Meg Rattei


Chris Bonick

Information technology and communications

- Geographic information systems (GIS)
- Website creation, housing, and maintenance
- Interpretive, scientific, and technical writing
- Story map development
- Marketing and advertising
- Grant writing
- Graphic design
- Database design
- Public relations


Annie Breitenbucher


Nyssa Nypan


Maureen McFarlane


Josh Vosepjka


Lauren Prichard

Health and safety

- Health and safety manual development
- Employee right-to-know training
- Health and safety program consulting


John Loff-Peterson


Mark Kretschmer

Barr's leadership team for the Ramsey-Washington Metro Watershed District

We value our long-term relationship with the Ramsey-Washington Metro Watershed District. For that reason, we strive to provide you with high-quality, consistent service. The following pages include brief resumes of the Barr staff who have consistently worked on RWMWD projects, or who have served the district extensively in the past. **These same team members will continue to provide the RWMWD with the high level of service you have come to expect from Barr.**

As you know, Barr uses a project team approach that matches our expertise with the unique requirements of each project and client. Directed by Brad Lindaman, our team has been created specifically to meet the needs of the RWMWD in 2022 and beyond. In addition to the staff listed here, Barr has a water resources staff of more than 130 practitioners to provide you with comprehensive services.

Brad Lindaman, PE, District Engineer, Vice President

Principal in charge

Brad's nearly 35 years of experience as a civil engineer emphasize project management, including drainage and surface water quality studies, design development and review, state and local permitting assistance, contract documents development and administration, and construction management and quality control. He has served as the primary consulting engineer for the RWMWD since 1990. In this role, he oversees and manages Barr's work for the district, including engineering scheduling, administration, and cost control. Brad has reviewed grading permit applications submitted to the RWMWD managers; drafted permit provisions; and advised managers on issues related to erosion control, wetlands, surface water quality, and stormwater drainage. In addition, he oversees the RWMWD's capital improvement program and represents the RWMWD at public meetings.

As a principal and project manager at Barr, Brad has conducted numerous feasibility studies and prepared designs, plans, and specifications for projects involving stormwater runoff, water quality improvement, and flood control.

Erin Anderson Wenz, PE, ENV SP, Vice President

Principal in charge

Erin has 24 years of experience with metro-area watershed management projects, including watershed and municipal stormwater management plans; lake management plans and TMDL studies, including WRAPS; stormwater and lake water quality modeling; and a wide range of low-impact development retrofits. She has managed numerous modeling projects that help clients assess flood vulnerabilities and facilitated stakeholder workshops to develop climate change resiliency plans. Erin has been involved in many of Barr's projects for the RWMWD since 2002. She served as project manager of the district's watershed management plan and strategic overview update, including cofacilitating community outreach workshops for the update. She also managed development of the RWMWD's WRAPS report and helped implement stormwater features across Maplewood Mall's 35-acre parking lot.

Brandon Barnes, PE, Water Resources Engineer

Water resources planning and management lead; flood resiliency lead; floodplain and stormwater management lead

Brandon has 15 years of experience in water resources engineering. He creates detailed H&H models, integrates GIS with floodplain studies, conducts interior drainage analyses, and addresses public concerns. He also completes floodplain analyses, coincidental frequency analyses, and stormwater development reviews and develops XP-SWMM and PCSWMM models for floodplain and watershed improvement projects for cities and watershed districts. Brandon managed the update to the RWMWD's H&H models to incorporate Atlas 14 rainfall depths, model calibration, and development of flood risk maps. He also served as project manager for the Saint Paul Beltline Interceptor resiliency study.

Marcy Bean, PLA, Senior Landscape Architect

Ecosystem planning, landscape ecology, and landscape architecture lead

Marcy has 18 years of experience focusing on innovative stormwater management, native landscaping and maintenance, and green infrastructure design in urban environments. Her work has involved urban ecosystem restoration, stormwater reuse, BMP design and maintenance, and stakeholder facilitation. Prior to joining Barr, Marcy managed capital projects and supported community-based efforts to manage stormwater at the Mississippi Watershed Management Organization.

Keith Pilgrim, PhD, Senior Water Resources Scientist

Water quality research and new technologies lead

Keith has 26 years of experience on projects involving water quality modeling and monitoring, NPDES permitting, nutrient management, stormwater treatment, aquatic toxicology, and toxicity identification evaluations. He develops surface water quality monitoring programs for watershed districts, cities, state agencies, and large mining developments; designs water and chemical balances for industrial facilities; and conducts thermal balance studies for power plants. Keith invents surface water and stormwater treatment technologies; develops one- and three-dimensional water quality models; and designs large-scale surface water quality monitoring programs. He also assists local governments and state agencies with developing and modifying water quality standards. Keith designed and monitored the performance of spent lime and iron sand filter treatment systems for the RWMWD as part of the Maplewood Mall retrofit.

Greg Nelson, Engineering Technician

Project inspection and maintenance lead

Greg has more than 25 years of experience on projects involving engineering and design services. He conducts and coordinates data collection and provides bidding and contract administration, construction oversight, and project management. His projects frequently involve streambank stabilization and restoration, low-impact development, stormwater quality improvement, and watershed district facility maintenance and repairs. Greg has worked on the RWMWD's Grass Lake flood study and improvements to stormwater runoff and conveyance and has managed annual capital improvement project maintenance and repairs for the district. He was also a member of the design and construction team for the Maplewood Mall stormwater retrofit through four phases of construction.

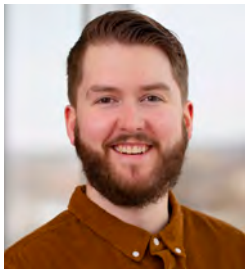
Evan Christianson, PG, Senior Hydrogeologist

Groundwater lead

Evan has 14 years of experience in hydrogeology. His work focuses on implementing hydraulic models to solve complex water quality and supply issues. Evan specializes in groundwater flow modeling, GIS, aquifer characterization, and development of custom quantitative methods for various modeling applications. He also has experience in geologic mapping, data processing and visualization, and monitoring well installation and sampling. Evan's work has included designing and calibrating a three-dimensional groundwater flow model of all aquifers and aquitards within the 11-county Twin Cities metro area. He has also worked with watershed districts and the Metropolitan Council to evaluate potential long-term impacts to surface water bodies from groundwater pumping.

Tyler Olsen, Water Resources Engineer

Water quality management lead



Tyler has four years of experience working on and managing projects involving H&H modeling, stormwater management and planning, flood risk assessment, surface water quality analysis, and green infrastructure/BMP design. He creates H&H and water quality models for clients to facilitate planning and project design. Tyler has managed studies within impaired and at-risk subwatersheds within the RWMWD to identify potential BMP implementation opportunities and conducted an existing-conditions evaluation of stormwater on the Hillcrest Golf Course for the RWMWD and City of Saint Paul. He has also helped develop H&H and water quality models for several areas in the Mississippi Watershed Management Organization for floodplain management, flood risk reduction, and water quality improvement.

Karen Wold, Senior Environmental Scientist

Wetlands lead

Karen has more than two decades of experience in wetland delineations, monitoring, permitting, replacement plans, and functional assessments for Minnesota watershed organizations as well as municipal, county, industry, and commercial clients. She also serves as a technical representative for administration of the Minnesota Wetland Conservation Act and local government wetland rules. Karen's knowledge of federal, state, and local regulations regarding wetlands and her expertise in identifying, classifying, assessing, and planning for protection and use of wetland areas assists clients with their goals of wetland preservation, restoration, and management. She has conducted wetland delineations and assessments and identified potential wetland restoration sites within the RWMWD.

2022 fee schedule

Barr's fee schedule, presented below, summarizes the range of billing rates for each of our staffing categories. In many cases, these billing rates represent a wide range, based on varying levels of experience and expertise of staff within these categories. When building a team, appropriate staff are selected with consideration for both applicable experience and staff billing rates to make sure you receive high-value services for a reasonable cost.

Description	2022 rate*
Vice President	$170-300
Consultant/Advisor	$205-300
Engineer/Scientist/Specialist IV	$165-200
Engineer/Scientist/Specialist III	$140-160
Engineer/Scientist/Specialist II	$110-135
Engineer/Scientist/Specialist I	$80-105
Technician IV	$155-200
Technician III	$125-150
Technician II	$95-120
Technician I	$65-90
Support Personnel III	$155-200
Support Personnel II	$95-150
Support Personnel I	$65-90

Rates for litigation support services will include a 30-percent surcharge.

A 10-percent markup will be added to subcontracts for professional support and construction services to cover overhead and insurance surcharge expenses.

Invoices are payable within 30 days of the date of the invoice. Any amount not paid within 30 days shall bear interest from the date 10 days after the date of the invoice at a rate equal to the lesser of 18 percent per annum or the highest rate allowed by applicable law.

Reimbursable expenses including, but not limited to, the actual and reasonable costs of transportation, meals, lodging, parking costs, postage, and shipping charges will be billed at actual cost. Materials and supplies charges, printing charges, and equipment rental charges will be billed in accordance with Barr's standard rate schedules. Mileage will be billed at the IRS-allowable rate.

**Rates do not include sales tax on services that may be required in some jurisdictions.*

Vice President category: includes consultants, advisors, engineers, scientists, and specialists who are officers of the company

Consultant/Advisor category: includes experienced personnel in a variety of fields; these professionals typically have advanced background in their areas of practice and include engineers, engineering specialists, scientists, related technical professionals, and professionals in complementary service areas such as communications and public affairs

Engineer/Scientist/Specialist categories: include registered professionals and professionals in training (e.g., engineers, geologists, biologists, and landscape architects), and graduates of engineering and science degree programs

Technician categories: includes CADD operators, construction observers, cost estimators, data management technicians, designers, landscape ecologists, drafters, civil engineering technicians, interns, safety technicians, surveyors, and water, air, and waste samplers

Support Personnel categories: includes information management, project accounting, report production, word processing, and other project support personnel

Above: *Fish Creek is an urban stream and a major conveyor of surface water from Carver Lake in Woodbury through southern Maplewood and Saint Paul into the Mississippi River. Barr has helped the RWMWD restore, stabilize, and maintain this important natural resource.*

BARR

resourceful. naturally.

GALOWITZ · OLSON PLLC
ATTORNEYS AT LAW
ST. CROIX TITLE
OLSON MEDIATION CENTER

Tracey A. Galowitz
Susan D. Olson
Susannah Torseth
Laurann J. Kirschner
Melissa Miroslavich
Cassandra Suchomel

Raymond O. Marshall
Of Counsel
John Scott McDonald
Of Counsel

February 4, 2022

Ms. Tina Carstens
Administrator
Ramsey-Washington Metro Watershed District
2665 Noel Drive
Little Canada, MN 55117

Via Electronic and Regular Mail

Re: Ramsey-Washington Metro Watershed District
Application for District Attorney Position

Dear Ms. Carstens:

Galowitz • Olson, PLLC, respectfully submits this letter as application to be selected as counsel for the Ramsey-Washington Metro Watershed District ("RWMWD").

This firm has an extensive history working with watershed districts. Our firm has had the privilege of representing RWMWD from its inception more than 40 years ago. This firm also represents the Valley Branch and the Carnelian Marine Watershed Districts, and has represented them since their inception.

Our general practice law firm also includes a title insurance company, which can assist with real estate transactions and related matters. Our experience with watershed law specifically includes, but is certainly not limited to:

- Easements/land/property rights acquisition;
- Contract review for large-scale water management projects;
- Ensuring proper compliance with Minnesota Statutes Chapters 103B, 13D, and other pertinent laws;
- Drafting, recording, and enforcing maintenance and stormwater agreements;
- Reviewing permitting conditions and ensuring compliance with District Rules.

The educational and background information of the attorneys available to provide legal services are as follows:

Tracey A. Galowitz
Partner & Attorney, Galowitz • Olson, PLLC

Tracey is a highly-respected and trusted attorney in the St. Croix Valley, with more than 35 years of experience advising watershed districts. Tracey graduated from Cornell College with a Bachelor of Arts and received her Juris Doctor from University of Minnesota Law School. Tracey has served in a leadership capacity on many professional and community boards and organizations. Tracey is currently serving as lead counsel for the Ramsey-Washington Metro Watershed District.

Susannah Torseth
Partner & Attorney, Galowitz • Olson, PLLC

Susannah is a lifelong resident of the St. Croix Valley and a well-respected real estate attorney, with over 10 years of experience advising watershed districts. Susannah graduated *Magna Cum Laude* from St. Olaf College and received her Juris Doctor *Cum Laude* from William Mitchell College of Law. Susannah is currently serving as lead counsel for Carnelian Marine and Valley Branch Watershed Districts.

Laurann J. Kirschner
Associate Attorney, Galowitz • Olson, PLLC

Laurann is a passionate and knowledgeable attorney who has been advising watershed districts since joining Galowitz • Olson in 2018. Laurann graduated from Belmont University *Magna Cum Laude* and received her Juris Doctor from Belmont University College of Law, third in her class. Laurann is currently serving as counsel for the Valley Branch and Ramsey-Washington Metro Watershed Districts.

It is anticipated that Attorneys Galowitz and Kirschner would serve as the lead attorneys, with Attorney Torseth assisting on an as-needed basis. The hourly rate proposed for each attorney shall be as follows:

Tracey A. Galowitz:	$250 per hour
Susannah Torseth:	$220 per hour
Laurann J. Kirschner:	$200 per hour

Please do not hesitate to contact us with any questions relating to this proposal of services. We appreciate your consideration.

Sincerely,

Laurann J. Kirschner
Tracey A. Galowitz

Attorneys at Law

Proposal to Provide Accounting Services

RAMSEY-WASHINGTON METRO WATERSHED DISTRICT

February 11, 2022

Submitted By:
Mark C. Gibbs, CPA
Managing Partner

Redpath and Company, Ltd.
55 5th Street East, Suite 1400
St. Paul, MN 55101
651.426.7000
mgibbs@redpathcpas.com
www.redpathcpas.com

February 11, 2022

Ramsey-Washington Metro Watershed District
c/o Ms. Tina Carstens
2665 Noel Drive
Little Canada, MN 55117

Dear Ms. Carstens:

In response to your request, we are pleased to submit a proposal to perform monthly accounting services for the Ramsey-Washington Metro Watershed District for the years ended December 31, 2022 and 2023.

Firm Background

Redpath and Company is a leading accounting firm providing proactive, innovative and value driven CPA services. We serve closely held businesses, government and not-for-profit entities in the areas of audit & attest, tax, benefits and compensation administration, international consulting, mergers & acquisitions, succession and estate planning, and valuation services. Our offices are located in downtown St. Paul and White Bear Lake with approximately 180 employees. The work on this engagement will be performed by the White Bear Lake office.

Redpath and Company is a full-service accounting firm. We help individuals and organizations – including businesses, local governments and not-for-profits – make decisions that create value and contribute to their financial well-being. Substantial effort of our professional staff is directed toward serving Minnesota local governments. Twenty-five staff members are assigned to governmental and not-for-profit services and devote significant time and effort in providing audit and other services to Minnesota governmental entities.

Redpath and Company is prepared to continue to assist you with your monthly and quarterly accounting needs. Our objective is to make your life easier, save you time and save your staff time.

We have an extensive list of governmental clients. These clients value our service and retain our services for extended periods because we:

1. Provide professional and courteous service in a timely manner.
2. Remain in contact throughout the year to answer questions relative to funding, annual budgeting, compliance matters and other accounting issues.
3. Are available to assist in problem solving and long range planning.
4. When requested, meet with the governing board to explain financial reports and answer questions.

Client References

Entity	Contact
Minnehaha Creek Watershed District	James Wisker 952/471-0590
Valley Branch Watershed District	Ed Marchan 612/491-8790
Lower Minnesota River Watershed District	Linda Loomis 763/545-4659
Riley Purgatory Bluff Creek Watershed District	Claire Bleser 952/607-6512
Nine Mile Creek Watershed District	Randy Anhorn 952/835-2078
Capitol Region Watershed District	Mark Doneux 651/644-8888
Middle Mississippi Watershed Management Organization	Doug Snyder 612/465-8780
Rice Creek Watershed District	Nick Tomczik 763/398-3071
Comfort Lake-Forest Lake Watershed District	Mike Kinney 651/395-5855

Accountant Qualifications

The Redpath and Company staff responsible for your account will be:

Mark C. Gibbs, CPA – *Managing Partner*. Responsible for final review. Assists staff with complex technical issues.

Nancy M. Martinson – *Senior Accountant*. Responsible for monthly accounting services.

Mark has extensive audit and accounting service experience with the following watershed districts: Ramsey Washington Metro Watershed District, Rice Creek Watershed District, South Washington Watershed District, Lower Mississippi River Watershed Management Organization, Lower Minnesota River Watershed District, Valley Branch Watershed District, Minnehaha Creek Watershed District, Riley Purgatory Bluff Creed Watershed District, Nine Mile Creek Watershed District, Browns Creek Watershed District.

Nancy Martinson, Senior Accountant, has worked in our not-for-profit and government area for 21 years. She has performed monthly accounting services for the following watershed districts:

- Minnehaha Creek Watershed District
- Rice Creek Watershed District
- Ramsey-Washington Metro Area Watershed District
- South Washington Watershed District
- Lower Minnesota River Watershed District
- Mississippi Watershed Management Organization
- Capitol Region Watershed District

- Valley Branch Watershed District
- Comfort Lake-Forest Lake Watershed District
- Riley Purgatory Bluff Creek Watershed District

Redpath and Company would prepare the monthly accounting as follows:

Monthly Accounting

- District codes invoices and receipts
- District approves each check and signs them at the monthly meeting. District would mail checks to vendors.
- Redpath and Company enters invoices and receipts into Sage accounting system, generates monthly financial statements, including:
  - Cash disbursements detail listing
  - Customized check register
  - Compilation report
  - Administrative and program budget report
  - Statement of revenue, expenditures and changes in fund balance
  - Income statement/balance sheet
  - Budget to actual comparisons for all funds
  - Schedules of each fund

Redpath and Company reconciles all accounts, prepares bank reconciliations and makes journal entries to close the month, allocates interest revenue, allocates administrative expenditures and other such journal entries as may be required. Any journal entries prepared by Redpath will be approved by the District.

Monthly Reporting

- The Watershed District Board meets on the first Wednesday of each month.
- The District will provide Redpath and Company with all monthly financial and payroll information (coded invoices, coded receipts, bank statements, etc.) at an agreed upon time by the District and Redpath. We would then return the monthly accounting packet described above at a time we both agree on.

This process allows us to maintain our independence because we will not be making any management decisions; those decisions (coding of the invoices and receipts) are made by the Administrator.

Payroll

- Redpath and Company prepares payroll in MyPay payroll service on a bi-weekly basis in accordance with District policies.
- Redpath and Company coordinates all payroll related reports (Federal Form 941, State of Minnesota Department of Revenue, Department of Labor, etc.) and files on a timely basis.
- Redpath and Company coordinates the preparation of Federal and Minnesota Department of Revenue payroll tax deposit requirements for semi-weekly deposits.

- Redpath and Company prepares Public Employee Retirement Association Salary Deduction Report, submits payment on a timely basis and files a copy with the PERA office in accordance with District policies.
- Redpath and Company prepares Deferred Compensation listing and submits payment on a timely basis in accordance with District policies.

Financial Review

Redpath and Company will be available for monthly/annual financial review and consulting on an as-needed basis.

Fees

Nancy Martinson would be your primary contact for accounting and payroll services. Our fee estimate is to provide the above services for $1,470 per month, subject to annual review. The cost of supplies (checks, copies, etc.) will be passed through to the Watershed District.

Our fee to provide financial review and consulting will be at our standard hourly rate, which is $150 per hour.

We appreciate the opportunity to be of service to you and believe this letter accurately summarizes the significant terms of our engagement. If you have any questions, please let us know.

We are available to discuss this letter with you at any time.

Sincerely,

REDPATH AND COMPANY, LTD.

Mark C. Gibbs, CPA

MCG/bms

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Presentations

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District Inspection Standardization Update

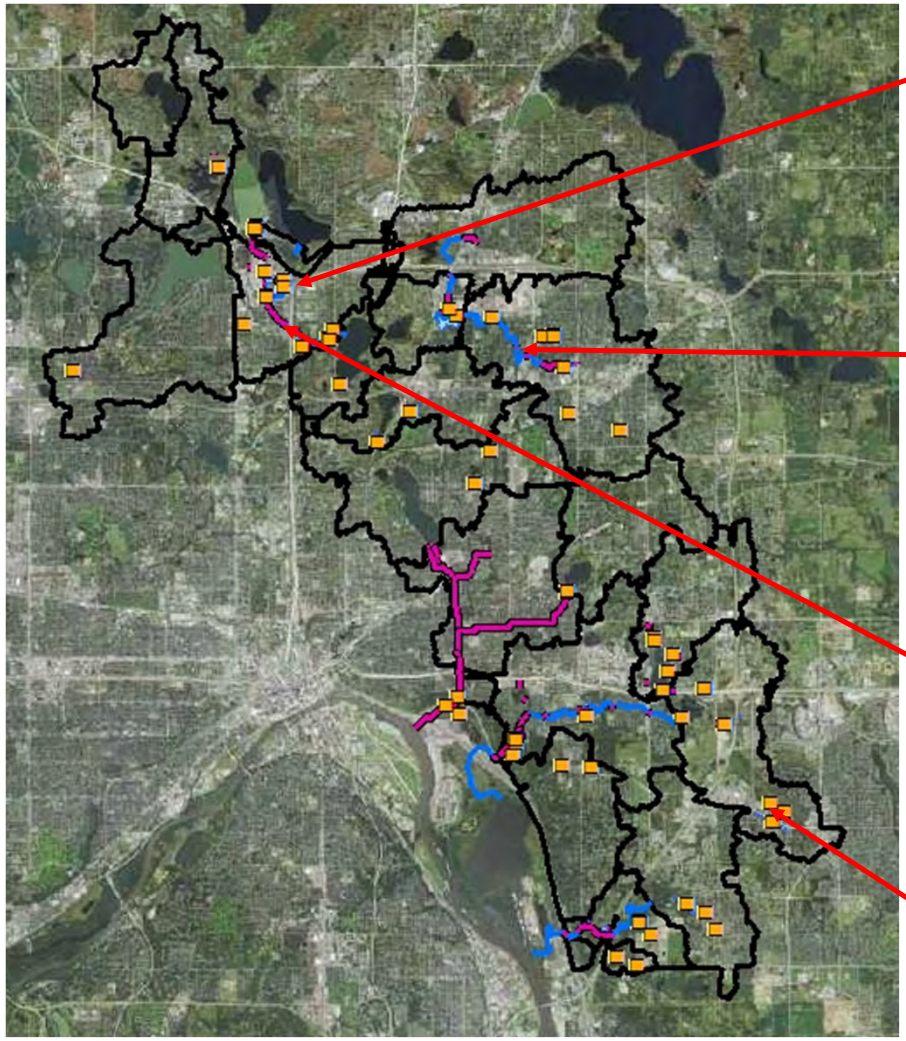
March 2, 2022

Purpose

- Standardization of inspection process for:
  - Creek systems
  - Facilities
  - Infrastructure
- Prioritization framework for selection of next year's maintenance projects

Methodology Overview

- Obtain and review previous inspection data
- Categorize types of facilities
  - i.e. BMPs, pipes, outlet structures
- Develop a scoring system for inspections
- Create mobile data collection application (iPad) with ArcGIS Field Map

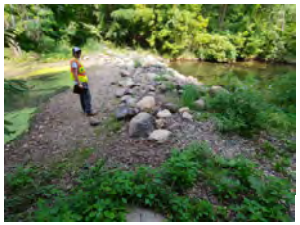


Water Quality Ponds

Creeks

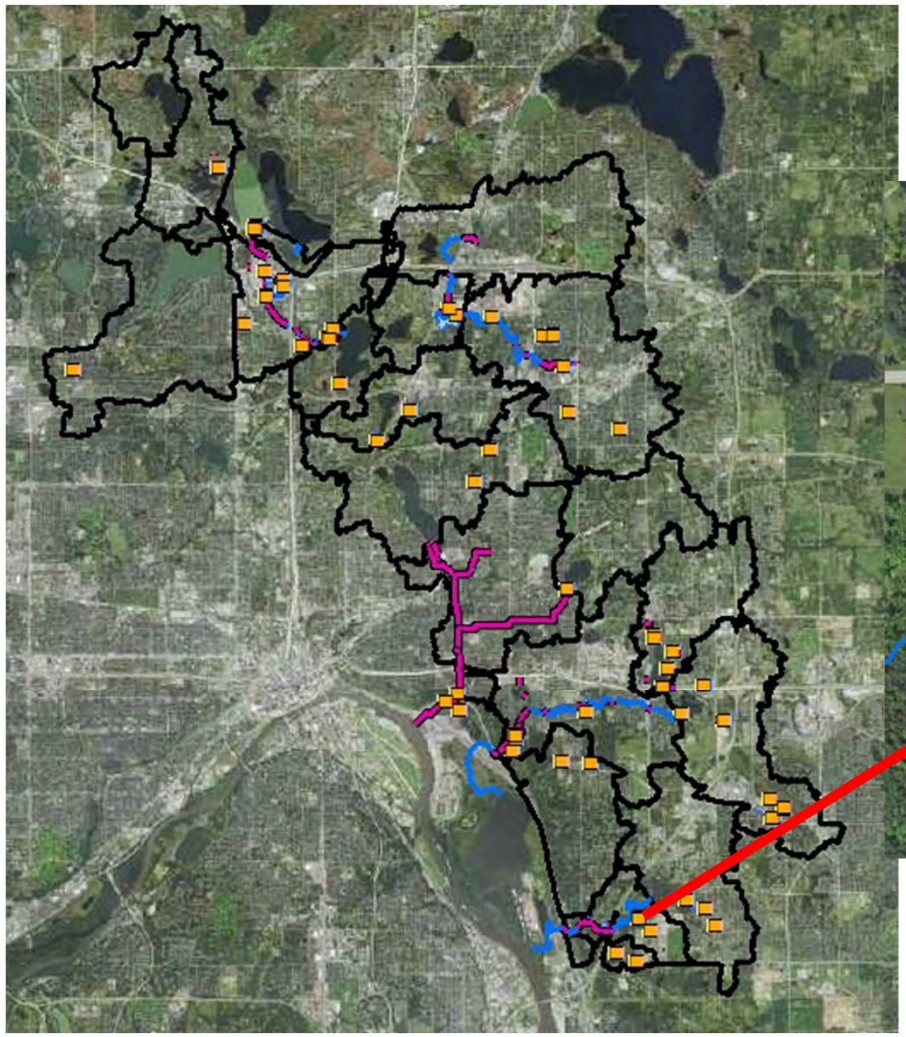
Pipes (non-tunnel

Misc. inspection sites (outlets, weirs, slopes, filters, etc.

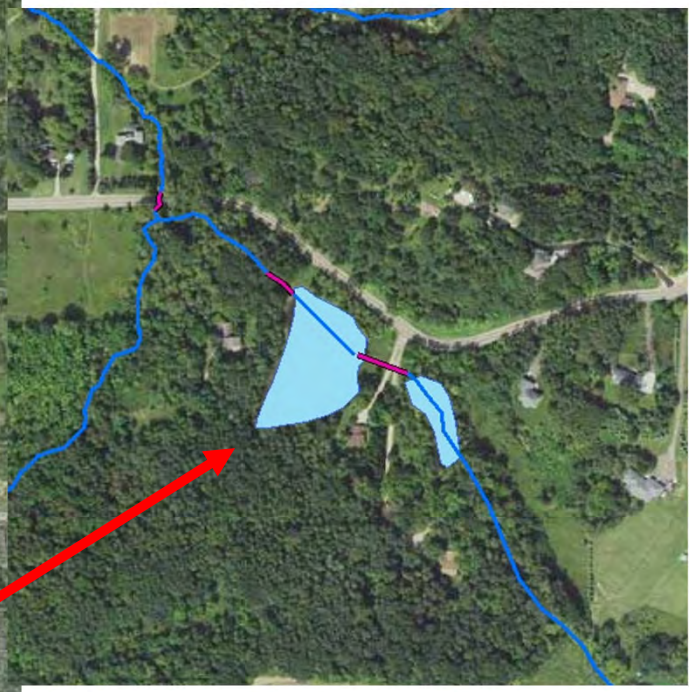


Category Development

- Reviewed several data sets for creating categories
  - Past CIPs
  - Current inspection spreadsheet/notes
  - GIS files
  - Other tools (WQ project prioritization tool, developed in 2020)
- Created larger categories that encompass all inspected infrastructure
- Included “catch-all” categories to help capture miscellaneous inspections



Double Driveway Pond
(Fish Creek)
CATEGORY: POND



Criteria Development

- For each category, created inspection items
  - i.e. erosion, damage to infrastructure, sediment build-up, etc.
- Range of criteria developed for each inspection item
  - Covers a range of conditional assessment
  - Based on field experience/input from RWMWD and Barr staff

- **Pond Criteria**
  - Deltas
    1. No sediment accumulation below surface
    2. Delta formation between 0 and 20 cubic yards
    3. Delta formation 20-50 cubic yards
    4. Delta formation >50 cubic yards
  - Erosion
    1. None
    2. Small channel under 1 foot wide and/or 4 inches deep
    3. Medium channel, 1-2 feet wide and/or 8 inches deep
    4. Large channel, over 2 feet wide and/or 8 inches deep
  - Cattail formation
    1. None or under 50 square yards
    2. Mat between 50 and 200 square yards
    3. Mat between 200 and 500 square yards
    4. Mat >500 square yards
  - Pond storage
    1. Recently cleaned out
    2. Under 25% full of sediment
    3. 25% to 50% full of sediment
    4. >50% full of sediment
  - Last known survey

Scoring System

- Per Manager recommendation, used a scoring system of 1 to 4 (no "middle" score) for each inspection item
- Pre-defined risk score assigned to each project/location
  - Based off past modeling/risk assessment (i.e. flood risk)
- Lifespan score assigned to each project/location
  - "How soon does this need to be repaired"
- Total score is added up for each category/criteria within a project → normalized based on number of "components" → top scorers in list are prioritized for maintenance

*prioritization occurs at a desktop level after field inspections/follow-up is complete

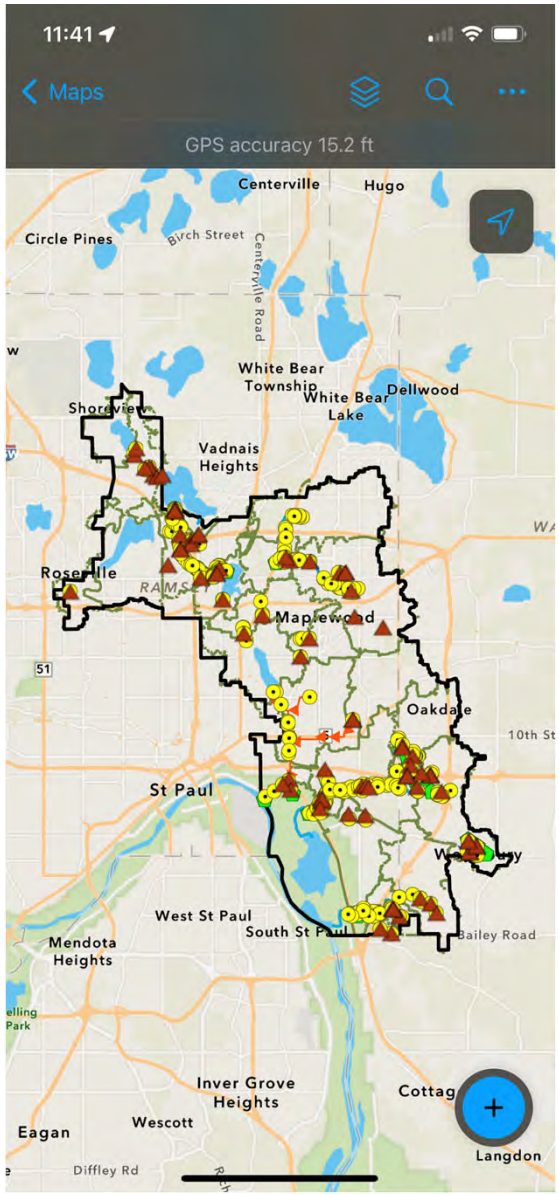
Pond Scoring

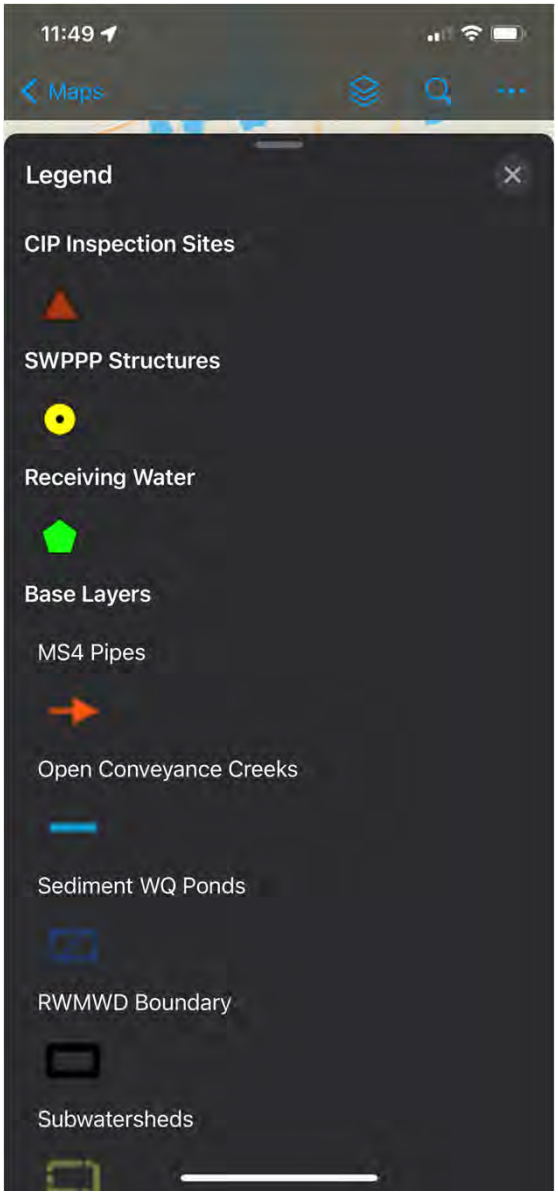
- Deltas score
  - Delta formation 20-50 cubic yards: **3**
  - Time score: **2** (2-3 year need)
- Erosion score
  - None: **1**
  - Time score: **1** (No Threat)
- Cattail formation score
  - None or under 50 square yards: **1**
  - Time score: **1** (No Threat)
- Pond storage score
  - Under 25% full of sediment: **2**
  - Time score: **2** (2-3 year need)
- Last known survey: 2019

- Risk score: **1** (low risk)

Field Map (iPad) application development

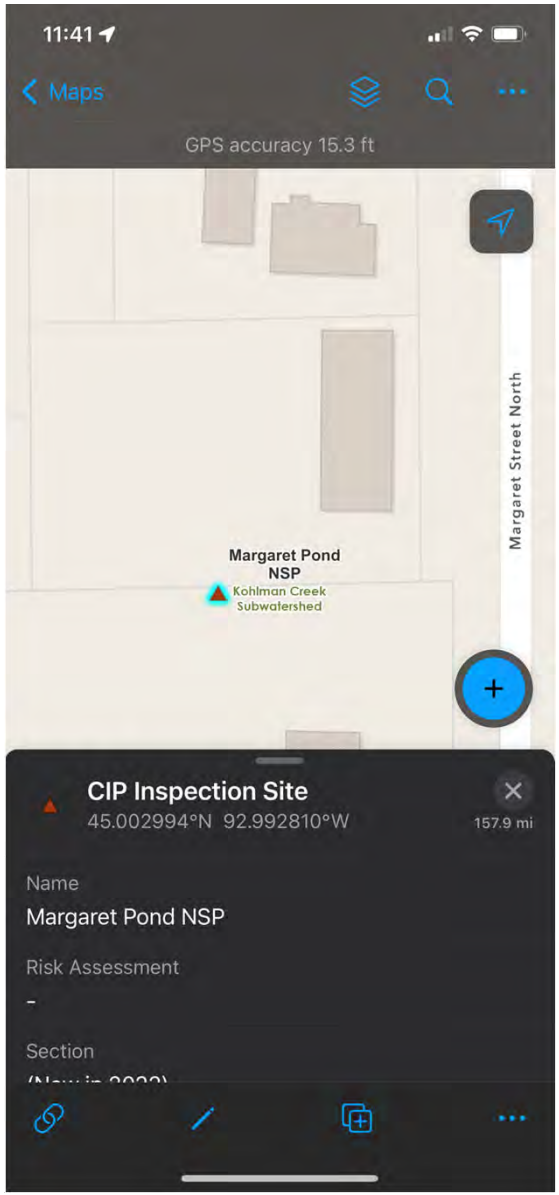
- Development of a Field Map (ArcGIS) basemap to be used for inspections
- Map includes points for each piece of infrastructure inspected
  - Drop down menus for each point's category/criteria
  - Note taking, attaching photos abilities
  - Tracking if infrastructure owned by RWMWD or other entity
- Past inspections will be available for each point
- Flags for further desktop review
- Attach plans and other useful info to each point

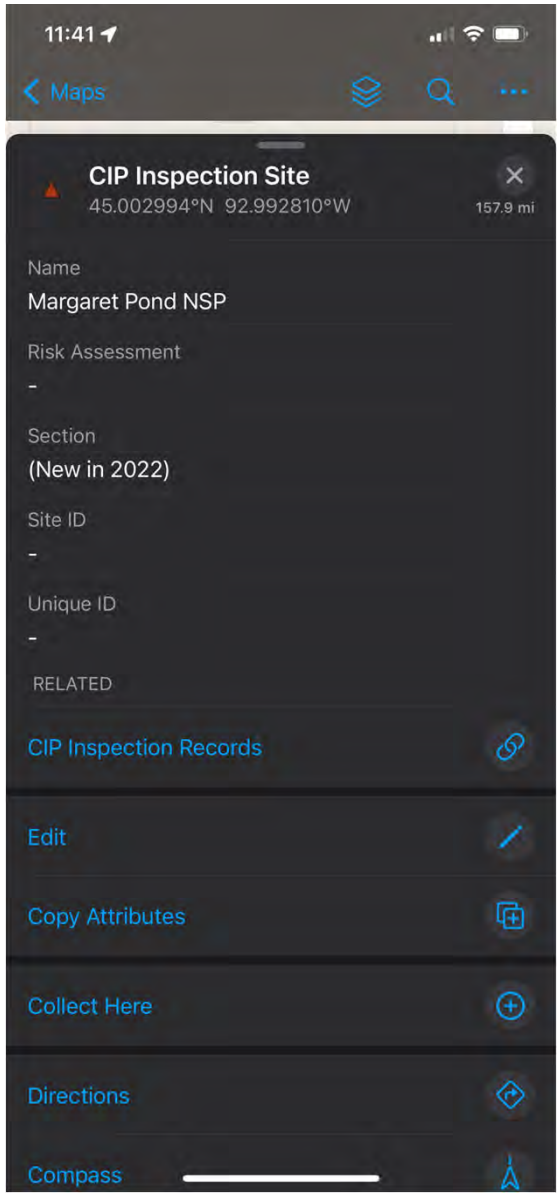




CIP Inspection Basemap

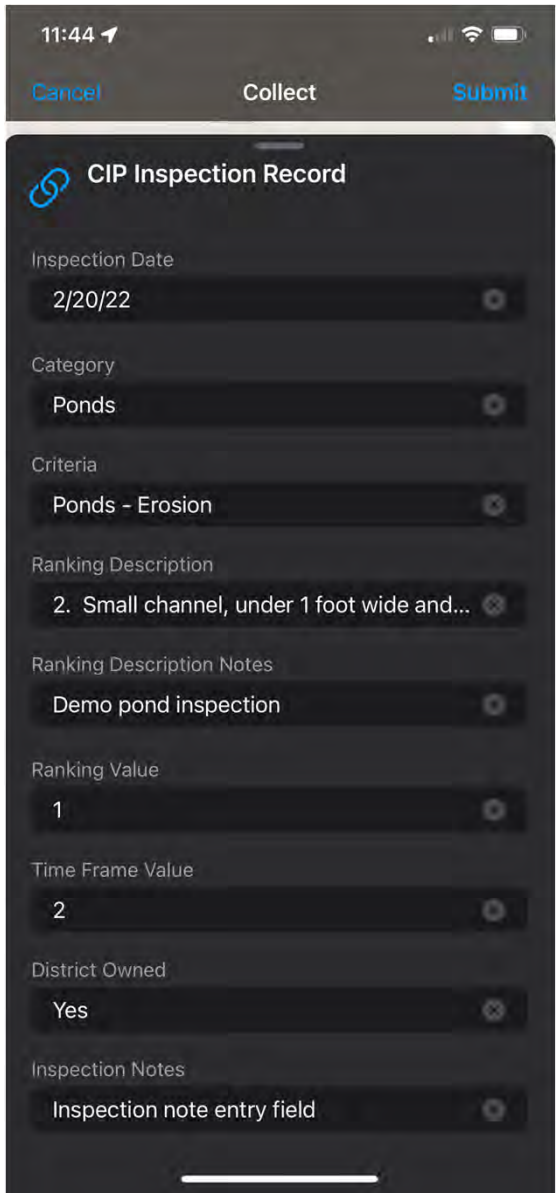
- Includes information on RWMWD boundary and subwatersheds
- Maps infrastructure and features in RWMWD

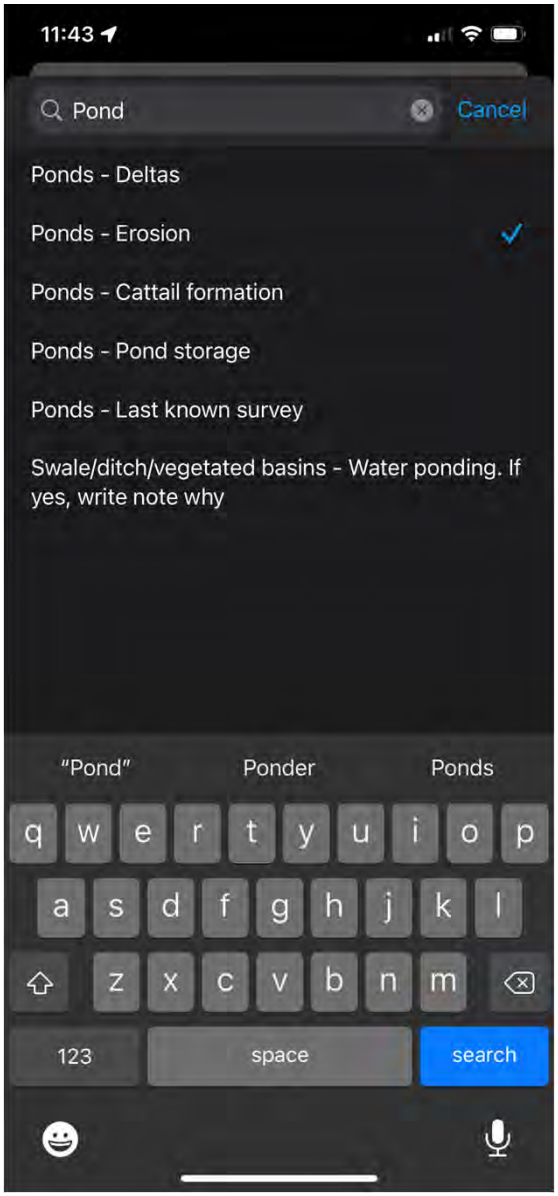




CIP Inspection Example Site

- Inspector can zoom onto the CIP site of interest
- Selecting the CIP site will allow the following
  - See basic information
  - Start an inspection by selecting CIP inspection records





CIP Inspection Form

- Inspector will fill in the fields as seen in the left image
- Fields will be filled with a dropdown as seen on the right
- Inspector can enter notes in the inspection note field
- Inspector can attach relevant photos

Next Steps

- Finalize Field Map application
- Identify example sites to visit
- Field testing of Field Map application and scoring/prioritization process spring 2022

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BARR

Project work plan

Original Date: February 23, 2022
Updated: February 24, 2022

Project: Owasso Basin Area/North Star Estates Improvements
Project # 23/62-1200.20 005

Project team
RWMWD staff: Tina Carstens (project manager)
Barr staff: Erin Anderson Wenz, Sam Redinger, Lulu Fang, Brandon Barnes

Scope of work

Atlas 14 modeling updates in 2015 identified Owasso basin and its surrounding areas as the highest concentration of flood-prone habitable structures in the Ramsey-Washington Metro Watershed District (RWMWD). A desktop study revealed that 77 homes and businesses are located within the flood zone, and that an additional 54 homes and businesses are very near the flood zone. A 2018 study of the Owasso basin area showed that redirecting flows south from a drainage area east would significantly lower flood levels. That, in combination with other modifications near Owasso basin such as raising Ryan Drive and modifications to the storm sewer system, would remove several structures in this area from the flood zone. Figure 1 below provides an overview of this study area.

In 2020, RWMWD began the *Owasso Basin Bypass study*, where flood risk reduction options were further developed, and a phased approach to implementation was recommended. In 2021, RWMWD finished construction of raising Ryan Drive, storm sewer modifications, and improving drainage at Keller Parkway (Phases 1 and 2 of the implementation strategy). The City of Little Canada also collected survey information for several of the lowest homes in NorthStar Estates.

The purpose of this project is to redefine the flood-risk around Owasso Basin based on recently completed projects and recent survey information, identify a target for reducing the flood level in Owasso Basin to mitigate flood-risk, and complete a feasibility study of system modifications necessary to achieve desired water levels.

The outcome of this study will provide cost-effective alternatives as possible next steps in flood management for the area to achieve the target 100-year water surface elevation in Owasso Basin defined during a Board of Managers meeting. Alternatives will include an option of purchasing homes in the flood zone in lieu of the bypass pipeline. Cost estimates will allow the RWMWD to budget accordingly should the board choose to move forward with the final design, permitting, bidding, and construction in 2023.

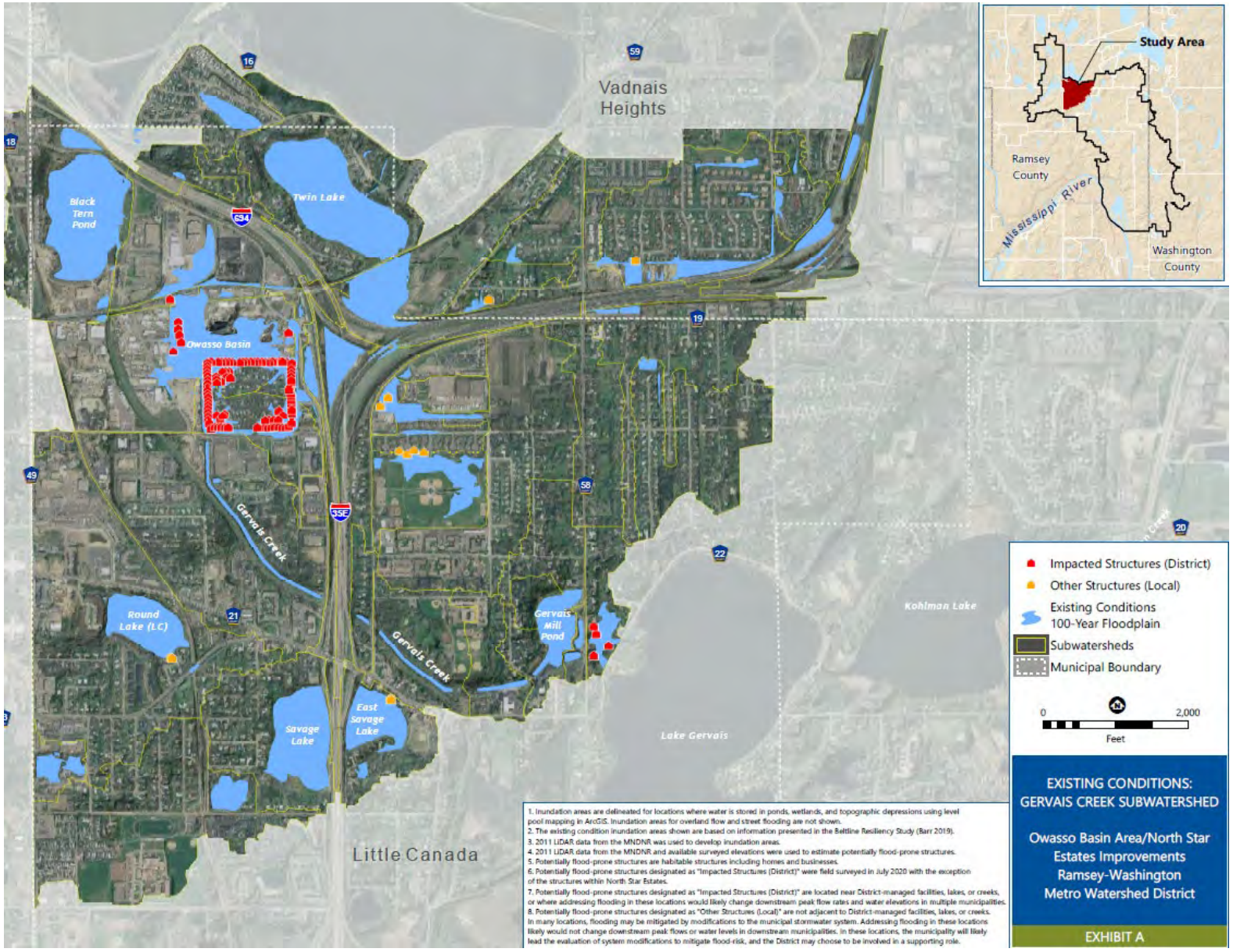

Figure 1: Overview of Study Area

Work tasks

- **Task 1. Redefine flood-risk around Owasso Basin**
    - In 2021 the City of Little Canada collected survey information for several homes in NorthStar Estates. Survey information included low floor elevations and and low adjacent ground elevations. In 2021, RWMWD also finished construction that raised Ryan Drive, made modifications to the drainage system, and replaced the culverts at Keller Parkway. This task includes preparing updated flood-maps near Owasso Basin that reflect the lower 100-year water surface elevations (as a result of these RWMWD projects) as well as recent survey information (provided by Little Canada) in order to re-identify flood-prone structures. The figures developed during this task will be used in meetings with the City of Little Canada and stakeholder outreach meetings.
- **Task 2. Define "Flood-Risk" for a manufactured housing development**
    - There are several homes within North Star Estates that are within the 100-year floodplain. In many instances, the low floor elevation of the home is elevated above the 100-year floodplain, but the home's utilities would still be submerged under several feet of water. In other instances, emergency access could be cut off for certain homes during a 100-year flood event. This task includes documenting how flood-risk will be defined within a manufactured housing development where low floor elevations are above the floodplain. This task will include summarizing current guidance from FEMA and State emergency responders, outreach of manufactured housing development managers, and discussions with city staff. The number of structures within NorthStar estates that are at risk of flooding will be updated depending on how "flood-risk" is defined. For example, flood risk could be defined as water levels above the low floor, or above low adjacent ground, or if the only access to a structure is through water that is greater than 2-feet deep.
- **Task 3. Stakeholder Outreach**
    - Staff will reach out to City of Little Canada to discuss result from Tasks 1 and 2 and to discuss the City's goals for the Owasso Basin area. We will discuss options that the City would support, including property acquisitions, and future improvements within this portion of the City.
    - Staff (in coordination with the City) will reach out to the North Star Estates property owner to inform them of existing flood risk within the area, and to better understand if residents are aware of the flood-risk and whether they have opted to purchase flood insurance.
- **Task 4. Presentation to the RWMWD Board**
    - Results from Tasks 1 through 3 will be presented to RWMWD Managers at a regular Board meeting intended to define goals for reducing water levels in NorthStar Estates and in Owasso Basin in general.
- **Task 5. Feasibility Evaluation of Flood-Risk Mitigation Measures**
    - Complete feasibility evaluation of system modifications to lower the 100-year floodplain in Owasso Basin to remove structures at risk of flooding from the floodplain. The "target"

100-year floodplain elevation will be defined based on direction from RWMWD Managers provided during the Board meeting (Task 4). System modifications may include additional storage volume, storm sewer modifications, or property acquisition, some of which have already been identified as "Phase 3" of the *Owasso Basin Bypass study* implementation recommendations.

- Develop permit requirements and estimated engineering, permitting, and construction costs for use in 2023 budgeting.
- Prepare draft report and present to the board
- Develop a final report summarizing the alternatives and their corresponding costs

Budget

The approximate cost for Barr to complete the work outlined above is **$50,000**.

Schedule

The draft report and related presentation will be provided to the RWMWD board for review and comment at the August 2022 board meeting. After addressing the board's comments, the report will be finalized by September 15th, for use in 2023 budgeting.

Milestones

Task	Anticipated Completion Date
Task 1. Redefine flood-risk around Owasso Basin	April 1, 2022
Task 2. Define "Flood-Risk" for a manufactured housing development	April 1, 2022
Task 3. Stakeholder Outreach	May 1, 2022
Task 4. Presentation to the RWMWD Board	June 1, 2022
Task 5. Feasibility Evaluation of Flood-Risk Mitigation Measures	September 15, 2022

Project tracking

Month	Budget spent ($/%)
March 2022	
April 2022	

Month	Budget spent ($/%)
May 2022	
June 2022	
July 2022	
August 2022	
September 2022	

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Administrator's Report

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MEMO

TO: Board of Managers and Staff

FROM: Tina Carstens, Administrator

SUBJECT: February Administrator's Report

DATE: February 24, 2022

A. **Meetings Attended**

Tuesday, February 1	8:00 AM	Ramsey County Public Works Meeting
Wednesday, February 2	2:00 PM	Metro Watershed Based Implementation
	6:30 PM	February Board Meeting
Thursday, February 3	10:00 AM	Audit Planning Meeting
Monday, February 7	2:30 PM	Meet with VLAWMO
Thursday, February 10	8:00 AM	Water Resources Conference Planning
Tuesday, February 15	1:00 PM	Meet with VLAWMO
Tuesday, February 22	9:00 AM	Woodbury Inspections Discussion
Thursday, February 24	9:00 AM	MAWA Executive Meeting

B. **Upcoming Meetings and Dates**

MAWD Virtual Legislative Event	March 16-17, 2022
April Board Meeting	April 6, 2022
Metro MAWD Meeting	April 19, 2022
CAC Meeting	April 26, 2022
May Board Meeting	May 4, 2022
June Board Meeting	June 1, 2022
MAWD Summer Tour (Minnehaha Creek WD)	June 22-24, 2022
WaterFest	June 4, 2022
July Board Meeting	July 6, 2022

C. **Office COVID Update**

As we are approaching the two-year anniversary of shutting down the office due to the COVID pandemic, I am cautiously stepping forward with a new plan for office operations.

I am looking to bring the district staff back to the office on a more consistent basis starting April 4th. I have told the staff that I would like to meet with each of them individually to

discuss their work in the office plans to gauge any concerns or accommodations that need to be made. That being said, all staff will be given the flexibility to work offsite when needed. There will be expectations set for their specific job duties that require fieldwork, weekly staff meetings, availability for internal meetings, and how we communicate our working location. For staff who are comfortable coming back to the office but want some offsite work flexibility, I am proposing that they be in the office primarily with no more than two days of working offsite each week. And again, if there are staff with special concerns about returning to the office, I will provide more flexibility. These conditions and accommodations will be monitored ongoing and adjusted as necessary – definitely an adaptive management strategy.

As we make this transition, the CDC guidance recommends masking in indoor places. Staff can unmask while at their desks and when others are not in the office with them. When in common areas of the office with others, masks are required. I will continue to monitor this guidance and make decisions accordingly. This is the guidance that seems the most fluid at this time.

During the first few months of this transition, I am proposing that the office be closed to the public but allow small meetings with residents and others by appointment only. We would not allow outside groups to use our space for meetings at this time. The exception to this would be for board meetings

I propose that we return to in-person board meetings in April. That being said, I would still like to allow the public to attend via Zoom and encourage their participation that way. Due to close contact in the board room, we will need to limit the number of public to attend the meeting in the board room. We could set up the meeting viewing in the multi-purpose room for overflow or ask them to watch the meeting online when capacity is met. Other staff besides myself and consultants should continue to attend the meeting via Zoom unless a presentation is being made and one staff person wants to attend in person to make for better discussion. This can be determined on a case-by-case basis.

You should discuss how you'd like to approach the desire for board members to be online vs. in person. This hybrid approach is allowed under the law (with the specific noticing requirements) and can be managed with the technology available. Whether in person or online, it would be helpful if each board member had the zoom meeting on a personal device in front of them for the online audience to have a better view of the in-person participants. If this is a concern, let's discuss it. We will also use Zoom to video/audio record our meetings for posting on YouTube.

D. **Board Appointment Process**

Ramsey County staff indicated that they failed to follow their noticing of watershed board member openings on their website and therefore would be keeping their application process open until Friday, February 25th. They anticipate that the Ramsey County Board of Commissioners should make a new appointment to our board before our April meeting.

E. **WaterFest Planning**

Just a quick note that WaterFest planning is occurring and that we are pursuing a more "normal" in-person WaterFest event reminiscent of 2019 and before. The date for the event is June 4th. More information and updates to come at future board meetings.

F. **MAWD Legislative Event**

You should have received a message from MAWD regarding the MAWD Legislative event that is being held March 16-17. Here is a link to the information regarding the event.
If you are interested in attending the event, please let me know by March 6th to receive the early registration rate.

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Project and Program Status Reports

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RAMSEY-WASHINGTON METRO WATERSHED DISTRICT

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Memorandum

To: Board of Managers and Staff

From: Tina Carstens and Brad Lindaman

Subject: Project and Program Status Report – March 2022

Date: February 24, 2022

Project feasibility studies

Interim emergency response planning for district areas at risk of flooding (Barr project manager: Gareth Becker; RWMWD project manager: Tina Carstens)

The purpose of this project is to provide information and guidance to cities throughout the district about how to protect low-lying habitable structures from flooding during the 100-year storm event. These emergency response plans address areas for which there is 1) not currently a feasible project that has been identified to protect structures or 2) a project that cannot be implemented in the near future due to logistical and/or budgeting reasons. This effort is an outcome of the Beltline resiliency study. This project will extend into 2022.

This period, Barr finalized materials needed for meetings in March with the cities of Maplewood and Saint Paul to discuss flood risks and potential mitigation strategies. We will share the cities' feedback at the April board meeting.

Kohlman Creek and Phalen Chain of Lakes subwatershed (including Ames Lake area) flood risk reduction feasibility studies (Barr project manager: Erin Anderson Wenz; RWMWD project manager: Tina Carstens)

The purpose of these studies is to evaluate the benefit-cost relationships of infrastructure changes throughout the Kohlman Creek and Phalen Chain of Lakes subwatersheds by reviewing potential pipe alignments, land acquisition costs, utility conflicts, permitting issues, and related design as well as construction and long-term maintenance costs associated with each alternative that achieves the project objective of removing habitable structures from the 100-year floodplain in these areas. These studies are follow-up steps to the Beltline resiliency study. In 2022, efforts will include stakeholder involvement and collaborative design.

As discussed last month, this effort will now be broken into several subprojects over the next few years. Scope summaries for the following subprojects were shared in last month's board packet:

- *Complete emergency response plans for structures at risk of flooding during the 100-year storm event* and *draft site-scale permanent solutions for the most at-risk structures*
- *Kohlman Creek/Wakefield Lake diversion planning and design project*

Scope summaries for the projects in blue (*improvements to County Ditch 17*, *improvements to Phalen Village area*, *improvements to Ames Lake area*) will be included in the April board packet following initial conversations with relevant Maplewood and Saint Paul staff to gauge the cities' interest and level of urgency.

Owasso Basin Area/North Star Estates Improvements (Barr project manager: Sam Redinger; RWMWD project manager: Tina Carstens)

The purpose of this study is to evaluate the benefit-cost of flood risk reduction strategies in the Owasso Basin/North Star Estates area by reviewing potential pipe and berm alignments, land acquisition costs, utility conflicts, permitting issues, and related design as well as construction and long-term maintenance costs associated with each alternative that achieves the project objective of removing habitable structures from the floodplain in this area. Stakeholder outreach with the City of Little Canada is an important part of this effort. This study is a continuation of the Owasso Basin Bypass Study, which laid out several phases of implementation and areas of further study.

A scope summary detailing the 2022 work proposed for this project is included in this month's Board packet for the Board's review and approval.

Research Projects

Shallow lake aeration study (Barr project manager: Keith Pilgrim; RWMWD project manager: Bill Bartodziej)

The purpose of this study is to evaluate the potential effectiveness of aeration in shallow lakes by studying the effect of aeration in two smaller shallow systems (Markham Pond and Frog Pond) in detail during 2021 and 2022. This approach is being pursued as an alternative to whole-lake alum treatments.

Barr compiled the data collected in 2021 into a PowerPoint presentation, shared it with the RWMWD, and discussed it with Bill Bartodziej. The data provide a good baseline from which to evaluate the capacity of aeration to reduce internal loading in Frog Pond and Markham Pond, and in shallow lakes in general.

A couple months ago, the City of Roseville appeared amenable to the district's use of Frog Pond as a test site, as originally intended. However, Frog Pond will be considered a useful site only if the city agrees to use a bubbler-type forced-air aeration method rather than the currently installed fountain. While we wait for the city to confirm that the bubbler-type system has been approved, we grow less optimistic.

As described last month, an aerator has already been installed in Markham Pond for winter operation, with the goal of minimizing fish kills from low oxygen levels and promoting a sunfish population that will eat carp eggs, thereby reducing the carp population in Markham Pond. Barr will monitor the effects of aeration in 2022 and will report the results in the fall. Since Frog Pond will not likely be an available test system, we are also exploring the possibility of including Bennett Lake in this study (e.g., sediment and water column monitoring) as a potential full-scale shallow aeration study site.

Capital Improvements

North Saint Paul Target (Barr project manager: Katie Turpin-Nagel; RWMWD project manager: Paige Ahlborg)

The purpose of this project is to design, provide bid assistance for, and oversee construction of BMP retrofits.

Construction at the North Saint Paul Target store is now complete. The one-year plant warranty started on November 2, 2021. In December, the contractor (Peterson Companies) submitted the IC134

documentation, closing out the project. A site walk-through will be scheduled for fall 2022, after the one-year warranty period, to determine whether plantings or trees need replacement.

East Saint Paul Target (Barr project manager: Katie Turpin-Nagel/Leslie DellAngelo; RWMWD project manager: Paige Ahlborg)

The purpose of this project is to design, provide bid assistance for, and oversee construction of BMP retrofits.

Barr completed the one-year tree warranty review at the end of October. No additional trees needed replacement. The shrub and perennial warranty period ends in spring 2022. A spring site walk-through will be scheduled closer to the time of inspection, and the next project update will occur after the walk-through and again after the warranty period ends.

Targeted retrofit projects (Barr project manager: Marcy Bean; RWMWD project manager: Paige Ahlborg)

The purpose of this project is to design, provide bid assistance for, and oversee construction of BMP retrofits on previously identified commercial, school, and faith-based properties throughout the district.

Barr is preparing 100-percent construction documents for two sites for construction in 2022, pending board approvals as noted below. The two sites being considered for 2022 construction via the Equity Initiative and/or in prior subwatershed feasibility studies have been narrowed down to:

- St. Pascal Baylon Church/Regional Catholic School (Saint Paul): A 3.5-acre site with significant impervious surfaces, a tree trench and small rain garden are proposed to retrofit a portion of the existing parking lot. By reorienting a few parking spaces and working with the existing drainage of the site, we are able to maximize the tree trench sizing while minimizing impacts to the parking lot's function. The owner looks forward to additional trees being planted on site.
- Mounds Park Academy (Saint Paul): This opportunity is the result of years of outreach collaboration between school and watershed staff as well as work with students. A portion of unused parking lot will be removed to construct a rain garden to treat runoff before it enters the school's pond, where students participate in hands-on learning. The school is interested in funding the creation of an outdoor learning space alongside the rain garden.

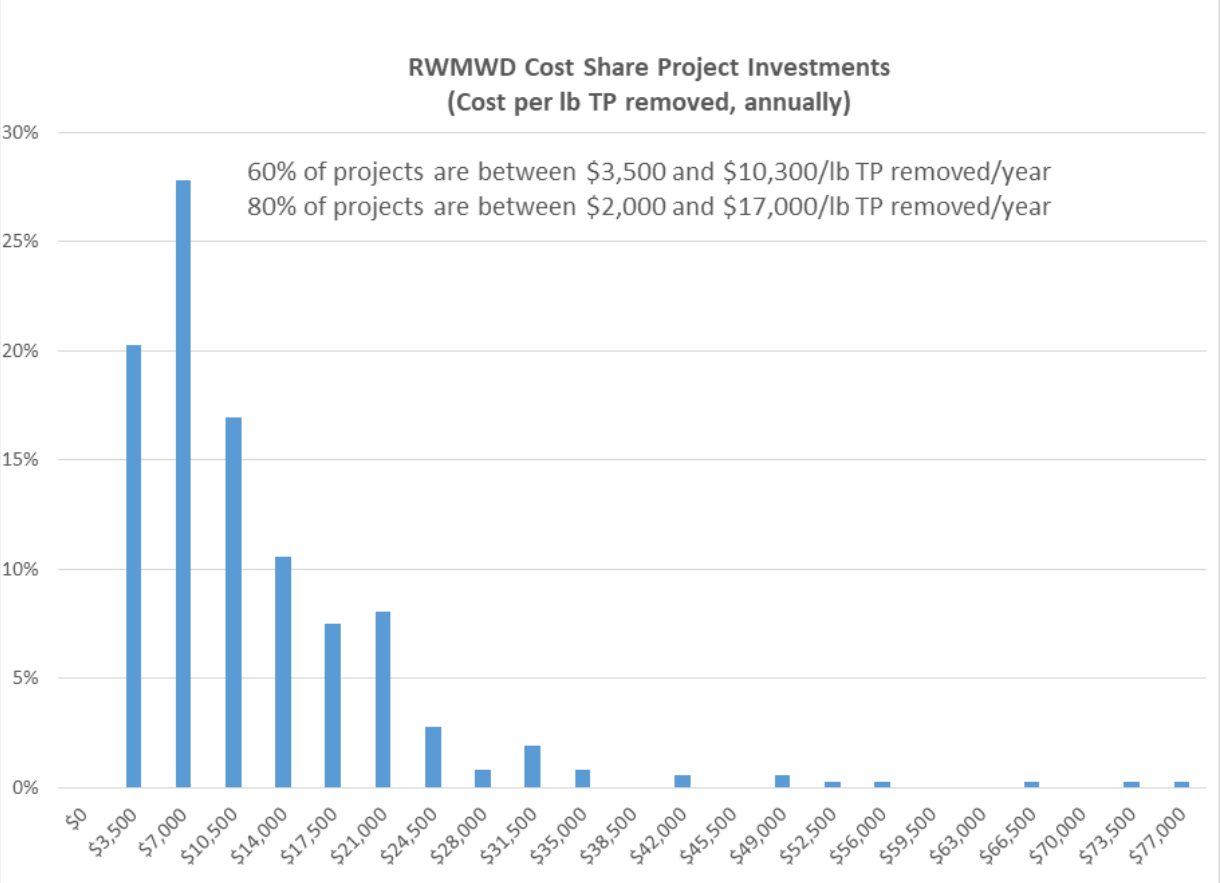
Summary of 90% opinion of costs and water quality treatment estimate

Proposed concept	Engineer opinion of cost for construction	Engineer opinion of cost range (-5% to +10%)	BMP average annual TP removal (lb/year)	Annualized cost per pound of TP removal
St. Pascal's (tree trench and rain garden)	$ 407,000	$387,000 to $448,000	1.1	$26,500
Mounds Park Academy (rain garden)	$160,000	$152,000 to $176,000	4.4	$2,500

The current engineer's opinion of cost for the project ranges from -5% to +$10. These opinions of cost include a 20% contingency and reflect a 90% design level of accuracy.

To put these annual cost per lb total phosphorus (TP) removed values in context, we have included a brief discussion of values from past RWMWD projects, below. This information was originally presented in the April, 2020 Board packet.

The range for RWMWD larger-scale CIP projects have been between $400 to $14,000 per lb TP removed per year. These tend to be less expensive due to their regional nature (more cost-effective). The RWMWD cost share projects have been distributed as follows (see below chart reflecting data through 2019). These projects tend to be more expensive because they are at a site-level scale (rather than regional). In the past, we have tended to use simpler surficial features (like rain gardens) due to their high cost-effectiveness. This is the case for the Mounds Park Academy site. Where tree trenches or other features with more underground components are needed (due to lack of space), projects tend to have a higher cost (and therefore lower cost effectiveness). This is the case for the St. Pascal's Baylon Church site.



The board's next action is approval of the final (100-percent) design, estimate of probable construction costs, and project schedule at the April 6 board meeting, followed by award of bid(s) at the May board meeting with construction expected to begin in June 2022.

Previously included in the project summary, Conway Recreation Center is a larger-scale retrofit site. The watershed and property stakeholders will continue design discussions in 2022 with a goal of 2023 construction of BMPs alongside other site improvements.

Ryan Drive and Keller Parkway conveyance (Barr project manager: Sam Redinger; RWMWD project manager: Dave Vlasin)

The purpose of this project is to implement improved conveyance through Gervais Creek, as recommended by the Owasso Basin bypass feasibility study. This CIP is an implementation item from the study recommended in the Beltline resiliency study.

Completion of this project has continued into 2022 due to supply chain issues last summer. The work is substantially complete, and the project is functioning as intended. Only a punch list and close-out items remain and are expected to be complete and ready for final payment in the spring. Change order 2 is included in the consent agenda for board consideration at the March meeting. This change order will provide authorization and a cost for Fitzgerald to proceed with additional site work this spring. This work includes construction of drainage infrastructure to improve local runoff collection and conveyance adjacent to Ryan Drive, installation of end treatments to the roadway subsurface drains, and a new drainage culvert with backflow preventer. Fence installation has been completed for each site. This month's packet does not include a partial payment application.

CIP project repair and maintenance

District inspection standardization (Barr project manager: Tyler Olsen; RWMWD project manager: Tina Carstens)

The purpose of this project is to standardize the district's creek and facilities inspection process, evaluation, and related data collection effort. Work includes review of current methods, development of a scoring system, and implementation of mobile data collection.

Barr worked with the RWMWD to draft an ArcGIS Online (Collector) database using a spreadsheet design tool. The database design consisted of fields to be included for each piece of inspected infrastructure as well as inspection record fields such as category, criteria, and scoring. The design is currently under review and will be used to develop the Collector basemap/app later this month.

Barr will present the work completed to date at the March board meeting, including visuals of the Collector app in use. Once the app is constructed and reviewed, Barr and the RWMWD will field test it later this spring.

CIP maintenance/repairs 2022 project (Barr project manager: Greg Nelson; RWMWD project manager: Dave Vlasin)

The purpose of this project is to maintain existing systems and infrastructure owned and operated by the RWMWD and to assist and facilitate stormwater pond cleanouts to allow other public entities to meet their municipal separate storm sewer systems (MS4) requirements.

The contractor (Fitzgerald Excavating) continues to excavate pond muck from the Woodbury Ponds. Loads of excavated material continue to be trucked for disposal to SKB landfill and Reis Farms. As of February 21, excavation has been completed at Ventura Pond and almost completed at Lake Terrace Pond. Fitzgerald will likely move to Meadowood Pond later this week. The owner's representative will direct site cleanup and restoration. Progress payment application 1 and change order 1 will be submitted for consideration at the March board meeting.

New technology review: Use of beet juice and salt mixtures for de-icing (Barr project manager: Marcy Bean; RWMWD project manager: Tina Carstens)

Innovative technology	A new road salt mixture, typically 70-80% salt brine and remainder sugar beet juice
Use	Can be used as a road treatment during winter conditions to prevent ice formation and slick roads
Benefits	▪ Decreases the amount of salt required in winter ▪ Stickier than typical brine, so less salt flows off roadways ▪ Less corrosive than traditional salt ▪ Reduces temperature at which water freezes, preventing ice formation at cold temperatures
Drawbacks	▪ Runoff will contain sugar, which can be used by bacteria and promote deoxygenation ▪ Beet juice negatively impacts mayflies, according to a study ▪ Costs more than traditional brine ▪ Doesn't completely resolve the road salt issue, since 70-80% is still salt brine ▪ Strong odor
Case studies	States including Michigan, Missouri, and Kansas as well as parts of Canada
Suppliers/contacts	▪ Beet Juice Salt ▪ info@beetjuicesalt.com ▪ 4720 Yender Avenue Lisle, IL 60532
Conclusion	▪ Beet juice salt could be an innovative way to decrease road salt and salt brine application and reduce chloride inflow to water bodies ▪ Would have to be used as one step in a larger salt reduction plan (i.e., more efficient equipment, training for plows, more strategic routing of plows), since it does not remove all road salt ▪ A new technique with potential drawbacks and unknown consequences like deoxygenation and harm to mayflies

Background

To protect the public, road salt is necessary in managing Minnesota roads in winter. However, road salt application has negative consequences for the natural environment. A study at the University of Minnesota found that about 78 percent of salt applied in the Twin Cities was transported to groundwater or local water bodies [1]. Salt runoff has led to 50 Minnesota lakes and streams with chloride levels too high to meet the standards designed to protect fish and aquatic life; meanwhile, another 75 water bodies are near the standard [1]. One of the primary challenges is that once chloride has reached waterways, it cannot be easily removed. To improve chloride concentrations in water bodies, the issue must be addressed at the source: road salt application.

Technology description

In recent years, there have been numerous studies on ways to minimize road salt application. One methodology is beet juice. Sugar beets are a common agricultural product in the upper Midwest, which is why one of the states pursuing beet juice as a road alternative is Michigan [2,3]. Beet juice can be mixed with salt brine and applied to roads. One of the primary vendors of this product, Beet Juice Salt, has three road salt alternatives [4]. One advantage is that beet juice will be 20 to 30 percent of the mixture, resulting in a 20- to 30-percent reduction in salt brine and road salt [5,6]. Beet juice is also sticky, which limits the amount of salt that flows off the roads and into water bodies [7]. In addition, it is less corrosive than traditional salt, helping protect cars and infrastructure [4,6]. Finally, beet juice decreases the temperature at which water freezes [8]. Salt loses its effectiveness at around 20 degrees Fahrenheit but can be effective with the addition of beet juice to as low as -20 to -30 degrees Fahrenheit [9]. For example, ice would form at 10 degrees Fahrenheit with traditional road salt, but with the addition of beet juice, little to no ice should form.

Although a natural, organic material, beet juice may have consequences for the natural world. It contains high levels of sugars that can be used by bacteria and cause anaerobic conditions in water bodies that are lethal to fish [3]. The body regulations of mayflies, which are sensitive to runoff contaminants and can be a useful pollution indicator, were found to be negatively impacted in the presence of beet juice [8]. A smaller concern is that the product can smell, which may bother residents [3]. In addition, while using beet juice reduces the amount of salt applied to roads, it does not completely eliminate it. Therefore, this solution would need to be combined with other methods such as more efficient equipment, trainings, and strategic routing of plows to reduce road salt reduction by more than 30 percent.

Video

https://www.youtube.com/watch?v=ziJpRkaIlo0

Case study

Currently, a mixture of beet juice and salt is being used across North America. The Missouri Department of Transportation, for example, began using it in 2006 [10]. In December 2020, Michigan passed a bill for

its Department of Transportation to conduct a pilot study testing the mixture [3]. However, some Michigan cities had already begun used the mixture before the bill was passed [7]. Kansas has also participated in trials dating back to 2015 and has consistently used the mixture in 20 locations across the state since 2017 [11]. Lastly, parts of Canada such as Calgary have completed trials on winter roads [12].

Cost

The mixture typically costs $1.70 to $1.85 per gallon [5], while salt brine on its own costs between $0.60 and $1.00 per gallon. Therefore, while the beet juice mixture costs more upfront, numerous towns such as Novi have reduced costs overall by using less materials. A potential additional cost is new equipment, which may be needed if liquid salt brine applicators are not already used or are not compatible with the mixture of beet juice and salt brine.

Conclusion

Road salt is a necessary component of road maintenance and public safety, making reducing its use a complex problem. In addition, chlorides are extremely difficult to remove once dissolved in water. Adding beet juice to salt brine lowers the overall amount of salt applied to roads. This mixture is also stickier, less corrosive, and lowers the freezing temperature of water. However, it is important to consider the potential drawbacks, along with the known consequences of high salt input to water bodies. If feasible, using a beet juice alternative could be a first step toward reducing the overall salt loading to water bodies.

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Natural Resources Update – Bill Bartodziej and Matt Doneux

A decade of carp management in the Phalen Chain of Lakes

Project goals

- Compile and assess carp management data, along with alum treatment and watershed BMPS in the Phalen Watershed
- Determine if these practices improved the water quality in the Phalen Chain of Lakes
- Share results by publishing in *Lake and Reservoir Management*, an international Journal of the North American Lake Management Society
- (Over the years, these findings have already been used in adaptive management in our watershed and others in the Metro area.)

We are in the final stages of editing. The completed manuscript will be submitted in early March. Below is the abstract along with a few key graphs. The published paper will be available on the District website.

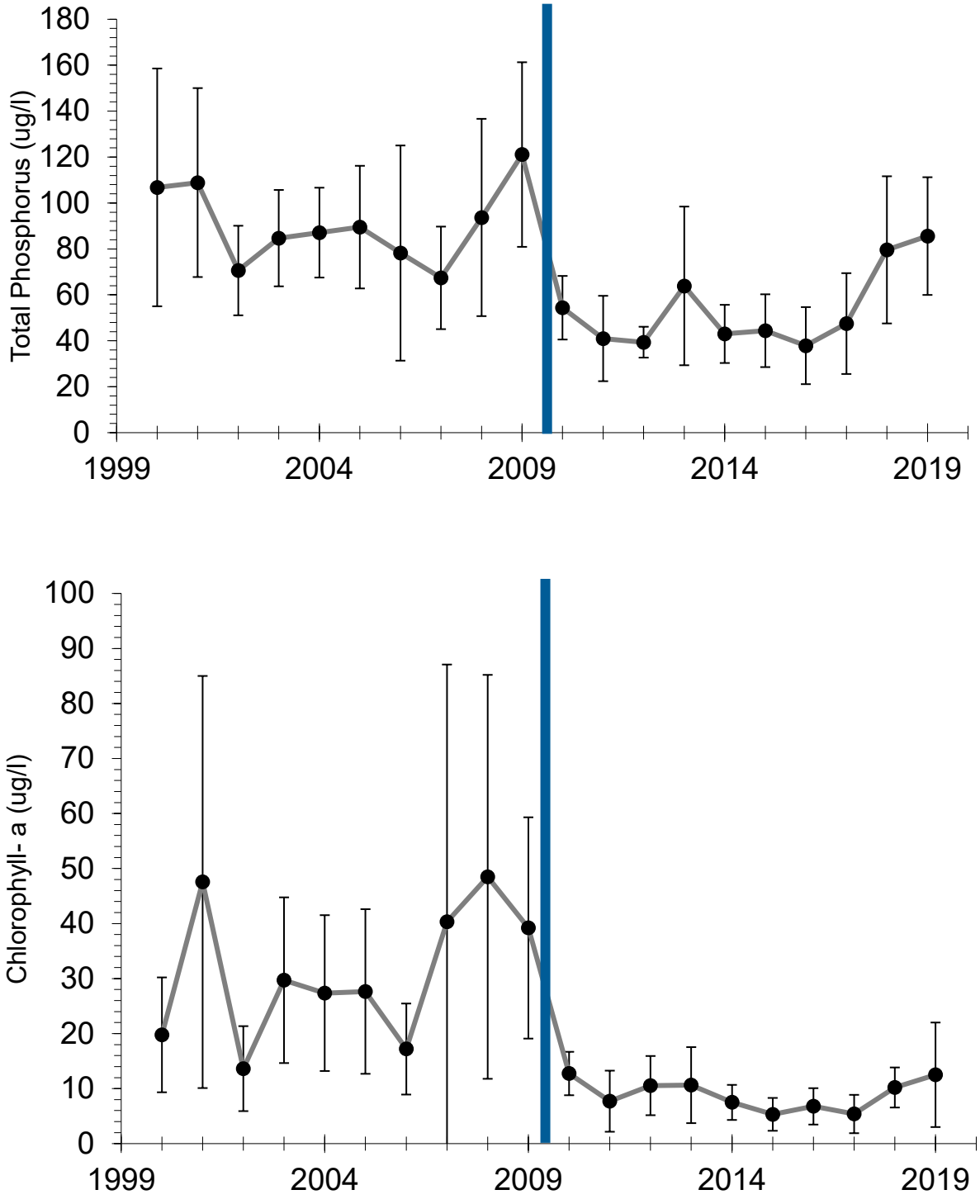
Title: A novel combination of carp control, alum treatment, and watershed management to improve the water quality of an urban Midwestern chain of lakes

William Bartodziej, Keith Pilgrim, Eric Korte, Simba Blood, Przemek Bajer, Justine Dauphinais, and Peter Sorenson

Abstract

The Phalen Chain of Lakes is composed of a mix of deep and shallow urban lakes that border Saint Paul, Minnesota. In 2008, Kohlman Lake (shallow lake), the upstream and northernmost lake in the Chain, was placed on the state's Impaired Waters List due to excessive total phosphorus (TP) levels. This prompted an intensive ten-year effort to implement in-lake and stormwater best management practices (BMPs) to improve water quality in the Chain. Specifically, common carp population reduction strategies, alum treatment in Kohlman Lake, and a host of large-scale infiltration and filtration projects were used in the watershed to reduce nutrient loading. Both watershed and in-lake measures improved Kohlman Lake's water quality and can be credited with achieving the total phosphorus (TP) goal set by the Total Maximum Daily Load (TMDL) process (TP significantly declined ($P < 0.05$) from a growing season average of 89 µg/L to 54 µg/L). TP concentrations in the deep lakes (Gervais and Phalen) significantly increased during the study despite improved water quality in the shallow lakes (Kohlman and Keller), both of which drain into the deep lakes. Large-scale BMP implementation and carp control in two connected upstream ponds were likely responsible for substantial TP load reduction (36%) in Kohlman Creek, the main tributary to Kohlman Lake. The study findings reveal a disparate response of deep and shallow lakes to management, while improvements observed for the shallow lakes, ponds, and Kohlman Creek highlight the importance of comprehensive watershed management coupled with in-lake management to achieve TP reduction goals.

Figure 2. Growing season mean TP, Chl-*a*, and SD for Kohlman Lake. Error bars are 1 SD. The solid vertical line (blue) indicates when in-lake management began.



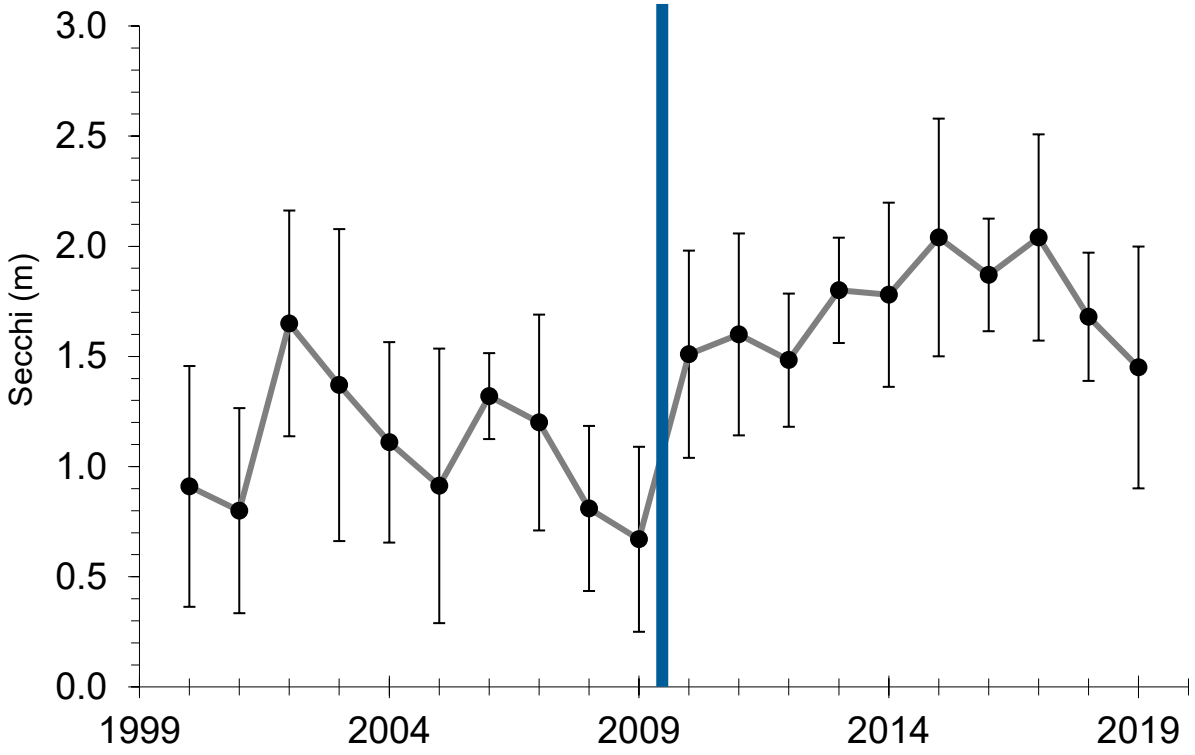

3.0
2.5
2.0
1.5
1.0
0.5
0.0
Secchi (m)
1999
2004
2009
2014
2019

Figure 4. Growing season mean TP and SD for Casey Lake. Error bars are 1 SD. The solid vertical line (blue) indicates when carp management began.

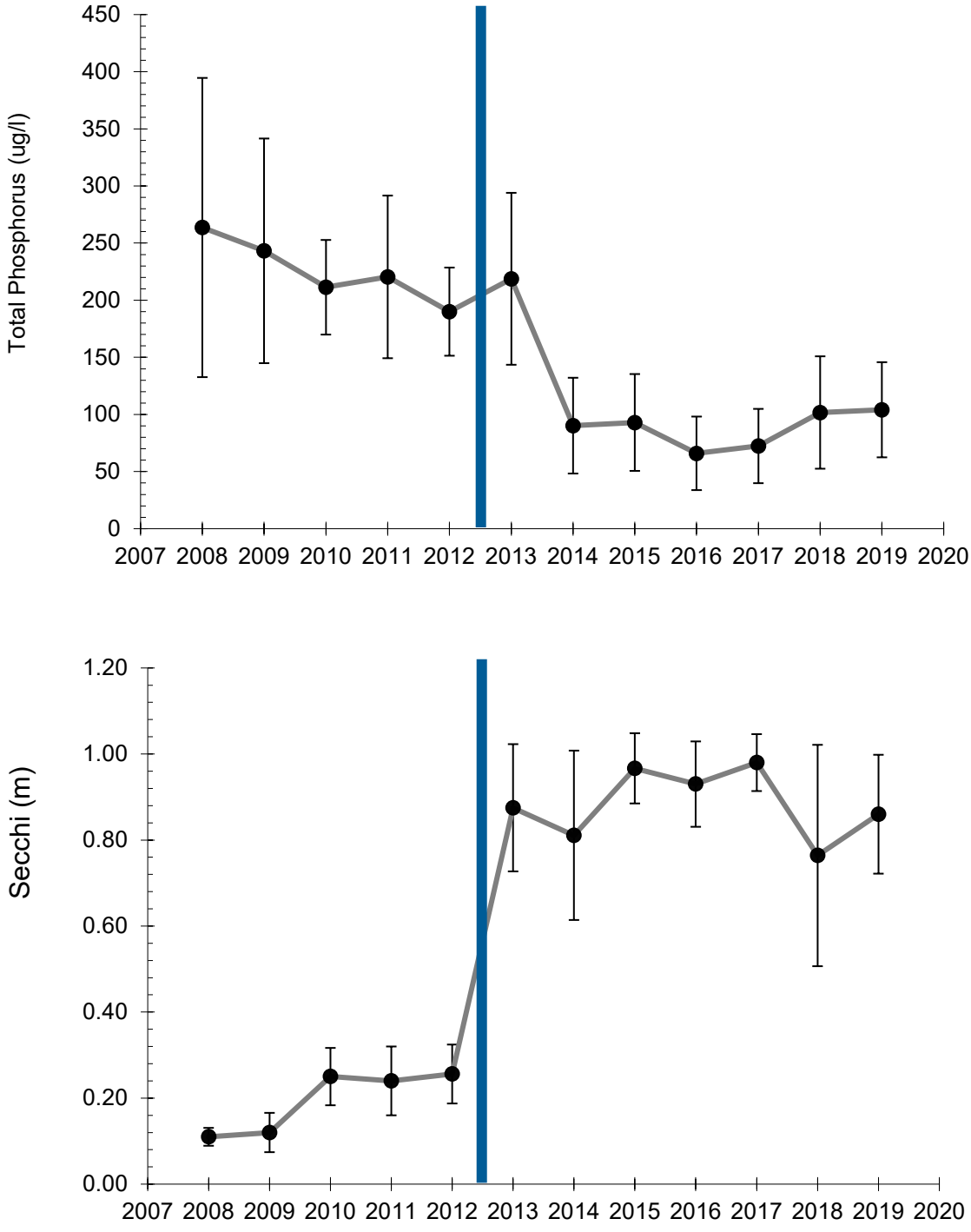
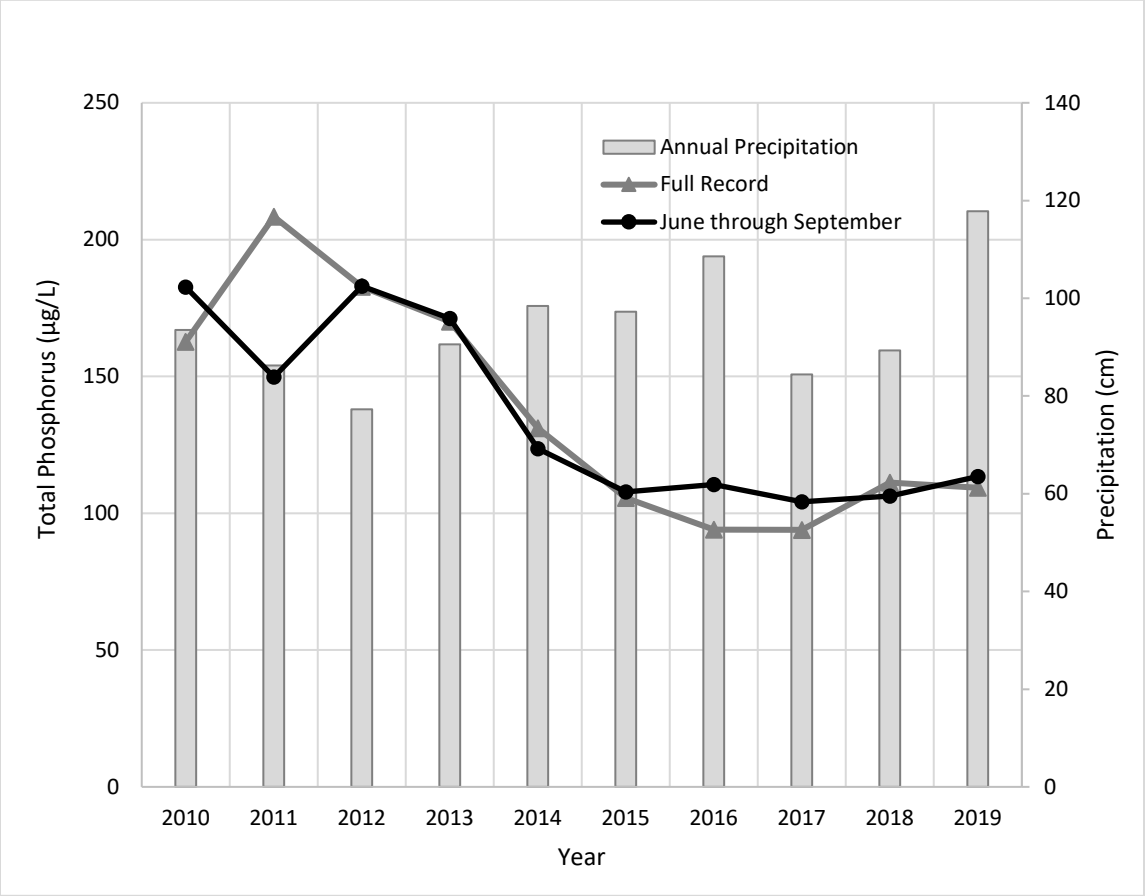


Figure 5. Average summer and full year TP concentration in storm event and grab samples collected in Kohlman Creek and annual precipitation from 2010 through 2019.



Public Involvement and Education Program – Sage Passi

Phalen Freeze Fest is back in motion after a year of absence due to Covid. Activities at this outdoor event at Lake Phalen will include ice fishing, fire building, arts & crafts, s'mores, snow shoeing, nature activities, boot hockey and more! Look for our Watershed display, learn what fish live in Lake Phalen and how you can reduce your salt use and protect our local water resources. Thank you to Water Stewards, Rachel Hanks, Bill Cranford and Bette Danielson who have agreed to volunteer at the Fest.

This event will take place on Saturday, February 26 from 1-4 PM outside the Phalen Lakeside Activities Center, located at 1530 Phalen Drive, Saint Paul, MN 55106. This is a free event and all are welcome. https://www.facebook.com/events/347738080551465

Update on Chloride Legislation in the Minnesota State Legislature

The limited Liability "Salt Bill" passed committees in both Minnesota's Senate and House chambers in mid-February with unanimous bipartisan votes. The bills aim to help reduce application of deicing salts through liability protection for trained applicators. The bills seek to create a volunteer certification program for commercial applicators through the Minnesota Pollution Control Agency. The agency would promote best practices and offer training and certification for those who complete the training program. Liability protection would be provided for applicators who become certified.

A special thank you to Minnesota Water Stewards for their efforts in moving this forward!

It May Be Cold and Snowing Outside, But It's Time to Plant (Indoors)

We know spring will get here eventually so we kicked off our indoor seeding sessions with 2 third grade science classes at L'Etoile du Nord in St. Paul on February 17 and February 23 so their plants will be ready for the outdoor transplanting season. Seeds gathered this fall were stratified (mixed with vermiculite and water and refrigerated for two months). Then, in the next step in February, students planted the seeds in a germination mix and put the trays under lights. We will also be planting stratified seeds indoors with four classes at Weaver Elementary in Maplewood and an eighth grade science class at Hazel Park Preparatory School in St. Paul at the beginning of March. The seedlings we start at these schools will eventually need to be transplanted so we will return in early April (or sooner if needed) to do that next step with the same classes in preparation for distribution out in the community in the late spring or early summer.

Online Educational Webinars Offered to the Public

Here are several educational webinars that were offered in February:

February 15, Plants of Woodbury's "Bog Fen – A Wetland Gem – a presentation about the plants in Tamarack Nature Preserve recording at this link: https://youtu.be/PlOKw1noJ70

February 21, Water Conservation: What Can I Do? Learn what you can do to stay informed and protect our water resources in this talk with Barbara Heitkamp, a water resources educator from the Washington Conservation District.

February 22, Sustainable Lawns and Gardens – Grow Native. Learn how to create a low maintenance, environmentally-friendly urban ecosystem co-hosted by The Grove Sustainability Project, Great River Greening, Washington Conservation District and South Washington Watershed District.

Coming in March:

March 16, 12:00 PM -1:00 PM Lunch & Learn: Spring Gardening for a Healthy Yard and Watershed sponsored by Washington Conservation District (a webinar)

To register: https://us06web.zoom.us/meeting/register/tZclf-uvpz8iGdeUjYh0m53pcF07oUwfkpuA

March is the perfect month to begin planning spring and summer gardening projects. But, there are common mistakes people make in the spring that can actually harm plants and wildlife in your yard. During this presentation, Angie Hong will talk about resources to help you create a wildlife and water friendly yard and offer advice on spring gardening "dos and don'ts."

Communications and Outreach Program Report – Lauren Hazenson

Website Redesign

The first round of usability testing for the site will occur in early March with a small group of users with no previous experience or affiliation with RWMWD. This process will test if the prototype shown to the Board in February exhibits any issues for users with no prior knowledge of the organization, which is more likely to show flaws in the basic site architecture. Later this spring, the second round of usability testing will allow a larger user group, including volunteers and Board, to test the site with the design portion and some content before launching. In early March, three completed web design options will be shown to staff for preliminary selection.

This month we also started creating and formatting new educational resources for the website. A small team of staff is working to develop seasonal resources and other helpful content for visitors seeking to understand more about the watershed or how to apply water-friendly practices to their daily lives.

Annual Report

Work on the 2021 Annual Report began this month, with a publication date planned for mid-April. We plan to increase the number of printed reports this year in anticipation of increased in-person events.

Phalen Story Map

RWMWD staff, led by Carrie Magnuson, have been working to create more story map content to better illustrate projects and watershed concepts in a visually dynamic medium that can show the regional aspects of our work. The Phalen Chain Story Map will allow those utilizing the lakes for recreation to explore different routes and zoom in on restoration work completed in the area. The completed story map will be in the “Explore Our Waters” section of the new website and other recreational resources.

Casey Lake Public Meeting

Communications assisted with the formatting and planning for the second public meeting for North Saint Paul residents at Casey Lake. We coordinated with the City of North Saint Paul to create easy-to-understand content for residents and clear messaging on our role in caring for this water body.

Volunteer Program

The staff team planning the organization’s volunteer management program met with Natural Resources to ensure volunteer descriptions and the volunteer process coincided with department needs. We will develop the volunteer onboarding and management process for new roles in March and April.

E-newsletter

January Newsletter
Subscribers: 1,579
Open rate: 43%
Click rate: 2.7%

February Newsletter
Subscribers: 1,585
Open rate: 40.6%
Click rate: 1.8%

Social Media (Facebook, Twitter, Instagram)

Numbers as of February 22:
Audience: 2,759
Impressions/Post Views: 2,967
Engagement (likes, comments, shares): 136

NextDoor

0% Levy Increase Post
Impressions: 923
Likes: 2

Communications Intern Hiring

Hamline University senior and Marketing and Business Administration major, Jazmine Ngwu will be joining us as the new Communications Intern on March 7th. Jazmine has a wealth of experience in strategic communications and social media marketing from her time at Land O' Lakes, AbleNet, and MONO. We are excited to welcome her to the RWMWD team.

Resident Communications/Professional Development/ Public Meetings, Misc.

- 0% Levy Increase Press Release
- Private Colleges Career and Internship Fair (2/24)

Citizen Advisory Committee Update – Carrie Magnuson

The Citizen Advisory Committee met on February 8th, 2022 at 6:30 pm via Zoom.

In attendance were 16 CAC members, 3 staff members, and guest speaker Brandon Barnes from BARR Engineering. The following initiatives were discussed and further developed

1. **Annual Organizational Item: Officer Elections.** In accordance with the CAC By-laws, an election was held to nominate/elect/renew the officer positions of Chair and Vice-Chair. Polling was done anonymously via the Zoom polling function. Dana Larsen-Ramsay was re-elected as Chair, and Stephanie Wang was elected as Vice-Chair.

2. BARR Engineering Staff, Brandon Barnes gave a presentation on **Flood Risk Mitigation at RWMWD**. CAC members had indicated that this was a topic of interest, particularly as it applies to their understanding of how RWMWD prioritizes projects and uses funds. Brandon reviewed the history of precipitation forecasting and how BARR currently models for flood prone areas. He then reviewed how their updated modeling was used to develop a prioritized plan for project implementation in the Watershed to minimize flooding.

3. **Salt Use Outreach/Education.** One of the work plan items the CAC chose to focus on was salt use education to minimize chloride pollution in local waters. The group discussed making modifications to existing educational materials, and strategized how to use a physical hand-out along with personal connections to help train commercial properties on how to effectively use less salt. The group considered if the Stewardship Grant program could help support 'smart salting' initiatives such as using brine-applicators at a City level, or providing scholarships/certification/recognition for maintenance staff who undergo training.

4. **Work Plan:** Each year, the CAC uses their time and expertise to assist several projects that help advance RWMWD projects and programs. The group voted to pursue the following efforts and discussed logistics:
    a. Education Topics: Invite RWMWD staff or applicable professionals in to share knowledge
    b. Salt Use Outreach/Education: [in progress]
    c. Create Invasive Species Education Pieces
    d. Participate/Support the Carp Fishing Contest
    e. Phalen Water Trail Video Series assistance
    f. CAC Rain Garden Clean Up Project (projected: June)
    g. CAC/LEAP Team Planting (projected July/August)
    h. Buckthorn Removal
    i. Paddle the Phalen Water Trail as a group (projected: summer)
    j. Develop the idea for an East Side Wetland Stewardship Relationship
    k. Assist in planning and hosting WaterFest
    l. LEAP Program nominations and subcommittee
    m. Watershed Excellence Awards & Volunteer Recognition Dinner planning

More details on these discussions will be available on the CAC website when meeting minutes are approved. Future meetings: 4/26/22, 6/14/22, 9/27/22, 10/25/22, 12/13/22