



RAMSEY-WASHINGTON
METRO WATERSHED DISTRICT

October 2021 Board Packet

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Agenda

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Regular Board Meeting Agenda

Wednesday, October 6, 2021

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. **Consent Agenda: To all be approved with one motion unless removed from consent agenda for discussion.**
 - A. Approval of Regular Meeting Minutes September 1, 2021 (pg. 7)
 - B. Treasurer's Report and Bill List (pg. 16)
 - C. Permit Program
 - i. 21-29 Lower Afton Apartments, Maplewood (pg. 33)
 - D. Stewardship Grant Program
 - i. 21-33 CS Loewen, shoreline restoration (pg. 37)
 - ii. 21-34 CS Adrian, permeable driveway (pg. 38)
 - E. North St. Paul Target Store Retrofit – Change Order No. 3 (pg. 40)
 - F. Keller Channel Weir and Phalen Outlet Project – Change Order No. 6 (pg. 45)
4. Visitor Comments (limited to 4 minutes each)
5. Permit Program
 - A. Applications – see consent agenda
 - B. Enforcement Action Report (pg. 54)
6. Stewardship Grant Program
 - A. Applications – see consent agenda
 - B. Budget Status Update (pg. 57)
7. Action Items
 - A. **Watershed Excellence Awards Approval (pg. 59)**
 - B. **District Art Policy (pg. 60)**
8. Attorney Report

9. Board Issues, Policies and Operation (for discussion at meeting)
 - A. West Vadnais Lake Strategy and Status
10. Presentations
 - A. Grass Lake Berm Wetland Mitigation Overview (*pg. 64*)
 - B. Keller Weir and Phalen Outlet Operations Plan (*pg. 77*)
11. Administrator's Report (*pg. 109*)
 - A. Meetings Attended
 - B. Upcoming Meetings and Dates
 - C. Ongoing Project/Program Updates
 - D. Wetlands Workshop
12. Project and Program Status Reports (*pg. 112*)
 - A. Ongoing Project and Program Updates
 - i. Interim Emergency Response Planning
 - ii. Kohlman Creek Flood Risk Reduction Feasibility Study
 - iii. Ames Lake Area Flood Risk Reduction Feasibility Study
 - iv. Special Project BMP Monitoring
 - v. Kohlman Permeable Weir Test System
 - vi. Shallow Lake Aeration Study
 - vii. Keller Channel and Phalen Outlet Operations Plans
 - viii. Target Store Stormwater Retrofit Projects
 - ix. Targeted Retrofit Projects
 - x. Keller Channel Weir and Phalen Outlet Resiliency Modifications
 - xi. Ryan Drive and Keller Parkway Conveyance Project
 - xii. Twin Lake Outlet
 - xiii. District Inspection Standardization
 - xiv. Beltline/Battle Creek Tunnel Five-Year Inspection
 - xv. County Road D Ravine
 - xvi. CIP Maintenance and Repair Project 2021
 - xvii. New Technology Review: LG Sonic Monitoring Buoy and MPC-Buoy
 - xviii. Natural Resources Program Update
 - xix. Education Program Update
 - xx. Communications Program and Website Update
 - xxi. Citizen Advisory Committee Update
13. Manager Comments and Next Month's Meeting
14. **Adjourn**



RAMSEY-WASHINGTON

METRO WATERSHED DISTRICT

NOTICE OF BOARD MEETING

Wednesday, October 6, 2021

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, October 6, 2021, 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/85448677381?pwd=NDE4YzhSYUduUWE0Z0hjRExmWktxZz09>

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 **854 4867 7381**. The meeting password is **339104**. If you have any questions, please contact Tina Carstens at tina.carstens@rwmwd.org.

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Consent Agenda

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RAMSEY-WASHINGTON

METRO WATERSHED DISTRICT

Ramsey-Washington Metro Watershed District Minutes of Regular Board Meeting September 1, 2021

The Regular Meeting of September 1, 2021, was held via Zoom web conferencing. A video recording of the meeting can be found at <https://youtu.be/cAXSK4pKe3w>. Video time stamps included after each agenda item in minutes.

PRESENT:

Larry Swope, President
Dianne Ward, Treasurer
Val Eisele, Manager

ABSENT:

Cliff Aichinger, Vice President
Dr. Pam Skinner, Secretary

ALSO PRESENT:

Tina Carstens, District Administrator
Laurann Kirschner, Attorney for District
Nicole Soderholm, Permit Inspector
Dave Vlasin, Project Coordinator

Paige Ahlborg, Project Manager
Brad Lindaman, Barr Engineering
Bill Bartodziej, Natural Resource Specialist

1. CALL TO ORDER

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

2. APPROVAL OF AGENDA (0:43)

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

A roll call vote was performed:

Manager Eisele	aye
Manager Ward	aye
President Swope	aye

Motion carried 3-0 (Managers Aichinger and Skinner absent).

3. CONSENT AGENDA (1:08)

A. Approval of Minutes from August 4, 2021

B. Treasurer's Report and Bill List

C. Permit Program

- i. #21-26 – 3M Building 207 Demolition, Maplewood
- ii. #21-27 – Level Up Academy Addition, White Bear Lake
- iii. #21-28 – Luella Pond Outlet, St. Paul

D. Stewardship Grant Program

- i. #21-28 CS – Bauer, Rain Garden
- ii. #21-29 CS – HB Fuller, Habitat Restoration

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

A roll call vote was performed:

Manager Eisele	aye
Manager Ward	aye
President Swope	aye

Motion carried 3-0 (Managers Aichinger and Skinner absent).

4. VISITOR'S COMMENTS (2:45)

No comments.

5. PERMIT PROGRAM (2:46)

A. Applications – See Consent Agenda

B. Residential Shoreline Permit Pilot Program

President Swope commented that this item was tabled from last meeting in order to have more manager feedback.

Manager Ward commented that she appreciated the detail and would be in support of going forward with the program. She commented that this seems to be a good program that benefits citizens and staff and believes it should be a permanent program. She commented that she would like to see a yearly report.

Motion: Manager Ward moved, Manager Eisele seconded, to make the residential shoreline permit program permanent following the successful pilot.

Further discussion: Manager Eisele commented that staff had said the approved permits have been listed in the monthly report. Nicole Soderholm confirmed that she includes that information within her monthly enforcement report. She stated that if additional details are desired by the Board, she could include more.

Manager Eisele asked what would drive the District to revisit the program to determine if adjustments are needed. Nicole Soderholm stated down the road it would be appropriate to increase the application fee. She stated that if there were rule changes that would impact this process, those adjustments would be made. She noted that this is simply a more streamlined version to review this type of permit request. Tina Carstens noted that if there are adjustments needed, staff could bring that to the Board.

President Swope commented that if there are other requests that could be streamlined, those concepts should come before the Board for discussion as well in order to make things as streamlined and user friendly as possible.

A roll call vote was performed:

Manager Eisele	aye
Manager Ward	aye
President Swope	aye

Motion carried 3-0 (Managers Aichinger and Skinner absent). Manager Ward noted that at the last meeting Manager Skinner indicated her approval of this process.

C. Monthly Enforcement Report

During August, 12 notices were sent to address: install/maintain inlet protection (2), install/maintain perimeter control (4), sweep streets (1), and contain liquid/solid waste materials (5).

6. STEWARDSHIP GRANT PROGRAM (8:38)

A. Applications – See Consent Agenda

B. Budget Status Update

President Swope asked if staff anticipates many more applications this year.

Paige Ahlborg stated that she spoke with Michael Schumann who does the design work for Ramsey County, and he stated that he has had a record number of residential visits this year. She stated that there have been a lot of smaller residential projects this year, which is why there is more left in the budget. She noted that she does have three larger projects that will be around the \$100,000 range in the works. She noted that those projects intend to apply later this year with work to begin in the spring.

President Swope noted the Lake Owasso project for next year may increase participation.

Paige Ahlborg confirmed that she has continued to work on outreach for that project, noting that she sent 40 letters as has heard interest from nine property owners thus far. She noted that she will continue another round of outreach and the outreach area could be expanded as well.

Manager Ward asked how many cities the District has done projects with at their city hall campuses, and whether the District should speak proactively with cities.

Paige Ahlborg stated that the District has done projects at three City Hall locations and staff could reach out to others. She stated that a project was done outside of a Ramsey County building and the County has interest in doing projects at their other buildings as well.

Manager Ward stated that those locations have good visibility to residents.

7. PRESENTATIONS AND/OR ACTION ITEMS (12:15)

A. 2022 Preliminary Budget and Levy Public Hearing

- i. Approval of 2022 Preliminary Budget and Levy Certification to Ramsey and Washington Counties – Resolution 21-01

Tina Carstens presented an overview of the 2022 preliminary budget and levy, also comparing that to the budget and levy from 2021. She provided information on the budget broken down by percentage to program areas and also broken down into goals. She reviewed the capital improvement project budget items and displayed a graph showing the historical levy and budget amounts. She noted that while there has been an increase in the capital improvement projects, the levy and budget have remained somewhat stable. She provided information on the impact of the proposed levy on residential homestead taxes.

Manager Ward appreciated all of the information and commented that she likes to see it in the various forms. She stated that she believes the residents will support the flood risk reduction projects. She stated that she would like to see a zero percent increase, perhaps using carryover or reserves.

Manager Eisele stated that he sent comments to staff prior to the meeting noting that he is comfortable with the budget as proposed. He noted that there are feasibility studies in the works that can help to identify additional flood risk reduction projects.

President Swope stated that there are a number of surveys that have been completed that will help to guide the work of the District.

Manager Eisele stated that he feels similarly as there are three flood risk feasibility studies and the funding will help to accomplish projects that will be identified.

President Swope opened the public hearing.

No comments made.

President Swope closed the public hearing.

Motion: Manager Eisele moved, Manager Ward seconded, to approve the draft budget for purposes of the preliminary levy and adopt resolution 21-01.

A roll call vote was performed:

Manager Eisele	aye
Manager Ward	aye
President Swope	aye

Further discussion: Manager Eisele referenced the comment in the staff report that mentioned additional changes could be made to the budget prior to final adoption. He asked if the desire from Manager Ward could be in reach, to have a zero percent increase to the levy.

Tina Carstens confirmed that is a possibility. She stated that the preliminary levy would be an increase of 2.76 percent but that can be reduced due to carryover of unspent funds from this year. She noted that more concrete information will be known later in the year when the Board considers final adoption.

Motion carried 3-0 (Managers Aichinger and Skinner absent).

B. District Inspection Standardization and Mobile Data Collection Project Work Plan Discussion

Brad Lindaman stated that the Board previously discussed the maintenance program and ways that consistency and efficiency could be added in order to standardize that process and explain why maintenance is or is not being done at a certain time. He stated that staff involved in maintenance and inspections have met a few times in order to come up with a draft process. He noted that this process will need to be tested in order to ensure the desired outcomes are being provided. He stated that the intent would be to put that program into an application on a tablet that can be used to score and upload photos when staff is out in the field. He asked the Board for input on this draft.

Manager Eisele stated that he likes the summary. He stated that collating the data helps to show and demonstrate how maintenance of different properties impact the District system as well. He stated that this would be step one and he likes it.

President Swope agreed that this would be a good start and stated that he is impressed with the work of staff. He stated that he likes that this information can be integrated into the District map. He referenced lake level monitors and asked if those would be included in this process.

Brad Lindaman noted that is a good question. He stated that is part of the maintenance activities but noted that he would have to put more thought into that and how it could be evaluated.

Tina Carstens stated that those would be different and more similar to water quality monitoring stations.

President Swope stated that this is a terrific start and will be a good method to communicate to the public as to how maintenance decisions are made.

Manager Ward agreed that this looks good. She stated that she likes that this shows how integrated pieces owned by other entities are with the overall system. She stated that perhaps a review could be provided summarizing comments and requests from the public from the past few years. She stated that she likes the timeline and noted that this is another layer of improving communication. She looked forward to seeing what will come forward.

Brad Lindaman stated that each month he will include information in the project status report and noted that a presentation could be provided at a later date to update on the process.

Manager Ward stated that perhaps the counties and cities could be advised of this process and perhaps a mention of increased expectations of coordinated maintenance throughout the system.

Manager Eisele stated that having this data will help to set expectations. He asked if there would be any anticipated changes to the maintenance program.

Brad Lindaman stated that in the long-term there will be gains in efficiency and in the short-term this will build a database that can be reviewed year after year to identify issues that may need work beyond maintenance. He believed that this will be a good communication tool as it will take the information and put it into the GIS.

Manager Eisele asked how this could safely be communicated to the public and landowners and whether there would be any risks to communicating this information.

Brad Lindaman stated that some of the larger conveyance systems generate attention, and the District should be mindful of how that is communicated.

Tina Carstens provided additional information on other contacts she can check with to ensure that the communication plan is well thought out.

8. BOARD ISSUES, POLICIES, AND OPERATION (46:26)

A. Wetlands Workshop – September 15th

President Swope advised of the upcoming workshop scheduled for September 15th. He noted that Manager Aichinger cannot attend and asked if the workshop should be postponed. He stated that he would feel uncomfortable having this workshop without Manager Aichinger and would favor postponement.

Manager Ward agreed with postponement as this is a small Board and this issue will drive policy projects and issues, therefore it is important to have everyone present.

Manager Eisele stated that he would also agree. He noted that perhaps materials have been prepared for the workshop that could still be distributed to the Board for review. He stated that he would find that information helpful for making other decisions that come forward.

Tina Carstens stated that staff can send the information ahead of the workshop. She stated that she is unsure when Manager Aichinger will attend but would most likely be back for the October meeting.

It was the Board consensus that the workshop be re-scheduled for October.

9. ADMINISTRATOR'S REPORT (50:44)

A. Meetings Attended

No comments.

B. Upcoming Meetings and Dates

Tina Carstens advised of the Water Resources Conference in October, which will be held virtually. She noted that interested Managers should advise staff to ensure they are registered.

C. Ongoing Project/Program Updates

Tina Carstens provided a brief summary of the updates she included within her report.

Brad Lindaman noted that Barr has collected information on alum and is speaking with a contact at the PCA about alum use in water quality projects.

Manager Eisele stated that there is a reduction in PH at the alum plant and asked if that is an isolated event or related to alum.

Brad Lindaman noted that it was an isolated event and the system reacted as it should, alerting staff.

Tina Carstens stated that the EAW process is still moving along for the Victoria Shores proposal and noted that she will continue to update the Board.

D. Staffing Changes due to Retirement

Tina Carstens noted that Emily Simmons has transitioned into a full-time employee and has begun to takeover some administrative duties as Debbie Barnes' last day is the following week. She stated that staff is planning a retirement celebration at the end of September.

Manager Ward stated that because former interns fill most permanent staff positions, the best way to bring diversity into the District is through interns and reminded staff that should remain a focus.

President Swope asked for an update on the status of in person meetings and mask wearing.

Tina Carstens stated that the District instituted mask wearing in the office once again and provided additional details. She stated that the opening of the office will be delayed based on new information and recommendations from the CDC. She asked for input from the Board on how it would like to conduct its October meeting.

President Swope commented that he would prefer to hold the meetings virtually for the time being as things continue to change.

Manager Eisele stated that the Board talked about holding workshops in person and asked if the workshops would be held remotely as well.

President Swope commented on the benefit of having workshops in person to facilitate better discussion but would prefer to hold it remotely if masks continue to be required.

Tina Carstens stated that a determination can be held on whether a meeting would be held remotely prior to the required ten-day notice period.

Manager Eisele advised of technology options that are available for workshops to increase engagement and participation.

Manager Ward commented that she does not mind wearing a mask for a workshop and noted that perhaps on those necessary to be in person could attend the workshop in person (staff, Board, and consultants).

Laurann Kirschner confirmed that could be done, allowing members of the public attend remotely, as long as it is noticed in that manner and the notice provides participation instructions for the public.

10. ATTORNEY REPORT (1:04:06)

Laurann Kirschner stated that her office has been busy trying to keep up with the changes to the open meeting laws. She stated that at this time, the President would be the decision maker on whether the Board should meet in person or virtually. She stated that the proper notice would still need to be provided. She stated that the publication was made for the budget public hearing, and she spoke with Nicole Soderholm related to a permitting compliance issue that they will continue to work on.

President Swope asked if there is input on what other entities are doing.

Laurann Kirschner stated that her office represents about six others. She noted that most are meeting in person with a hybrid option for the public to attend. She noted that those meeting rooms are much larger, which allows more space for social distancing than the District meeting room.

11. PROJECT AND PROGRAM STATUS REPORTS (1:07:57)

A. Ongoing Project and Program Updates

- i. Interim Emergency Response Planning
- ii. Kohlman Creek Flood Risk Reduction Feasibility Study
- iii. Ames Lake Area Flood Risk Reduction Feasibility Study
- iv. Grass Lake Berm Wetland Mitigation
- v. Lake Water Quality Monitoring
- vi. Special Project BMP Monitoring
- vii. Tanners Flood Response Tool Model Update
- viii. Kohlman Permeable Weir Test System
- ix. Shallow Lake Aeration Study
- x. 2021 Tanners Lake Alum Facility Monitoring
- xi. Phalen Outlet and Keller Channel Operations Plan
- xii. Target Store Stormwater Retrofit Projects
- xiii. Targeted Retrofit Projects
- xiv. Keller Channel Weir and Phalen Outlet Resiliency Modifications
- xv. Ryan Drive and Keller Parkway Conveyance Project
- xvi. Beltline/Battle Creek Tunnel Five-Year Inspection
- xvii. County Road D Ravine
- xviii. CIP Maintenance and Repair Project 2021
- xix. Natural Resources Program Update
- xx. Education Program Update
- xxi. Communications Program Update
- xxii. CAC Update – Watershed Excellence Awards

Manager Eisele stated that he is excited about the interim emergency response and asked if it would be worthwhile to provide highlights of critical situations or bring those to the Board.

Brad Lindaman stated that the data has been processed and as they see how that information has changed, they will be able to determine if impact would be to single-family homes or other structures. He stated that a presentation would be provided to the Board by the November meeting. He stated that the expectation would be that those are wrapped up by the end of the year, but he would like to provide that update at the November Board meeting. He stated that if there are additional questions or more detail, a workshop could be a good option if additional information is desired.

President Swope referenced the Beltline Study and stated that similar to that process, he would like to see what has been determined, the new information gained, and how that impacts the thought process.

Brad Lindman noted that the feasibility study works in tandem with the interim emergency response plans.

Manager Eisele stated that perhaps some of the priorities will be changed with that new information. He referenced the blue green algae concern and noted that it seems like quite a beast. He asked about the District's role in the maintenance or addressing those concerns.

Brad Lindaman stated that historically if blue green algae is encountered in lake sampling, the process would be to sample and have the biologist at Barr complete the testing. He stated that if that toxin is identified, they would identify whoever is responsible for that beach area or other locations where the public may come in contact with it. He noted that there was a previous Board discussion on this topic and whether a more proactive approach should be taken, but the Board did not want to take that path. He stated that once the water is moving, the algae is broken up and the toxicity is reduced. He stated that because there is human health risk that issue would tend to fall to the Department of Health. He noted that in the past the Department of Health has stated they are aware of the issue but does not have the resources to deal with that.

Tina Carstens stated that blue green algae pops up in a few locations on occasion and staff has contact with the Department of Health and PCA. She stated that blue green algae is unpredictable as it sometimes appears in lakes with good water quality. She stated that the PCA says "when in doubt, stay out".

Manager Eisele asked if the District communicates about that on its website.

Tina Carstens noted that would fall to the city or county as those are city or county beaches. She noted that sometimes the District will share information on its social media.

President Swope asked for an update on the Willow Pond spent lime filter as it seems it is having a tough time getting going.

Brad Lindaman stated that they are yet to get the system up and running and the project has been delayed from a variety of pieces in the monitoring device that they have been unable to obtain.

Dave Vlasin commented that they have had a hard time getting parts because of the problems with shipping.

President Swope asked for that an overview be provided of the operating plans for the weirs once completed. He referenced the aeration study and asked what the Roseville aerator would do and any impact that would have.

Bill Bartodziej replied that would impact the baseline data. He noted that the District hoped to collect one year of data without the aerator. He noted that they will continue the monitoring with the aerator in place and make a determination after that.

President Swope referenced the Grass Lake berm wetland mitigation and asked if a brief presentation could be provided at the next meeting.

Brad Lindaman confirmed that could be done.

Nicole Soderholm stated that there were initial delays with the monitoring because of the flooding. She stated that staff went to the site last month with BWSR and determined some findings. She provided background information on the mitigation process which includes five years of maintenance and monitoring. She stated that they are hoping to establish that the wetlands are receiving sufficient hydrology to sustain along with the vegetation.

Brad Lindaman commented that he believed there was a recommendation to overseed some of the areas where vegetation did not appear to be emerging.

Dave Vlasin confirmed that would be done within the next five to six weeks. He noted that it was delayed due to the drought conditions.

President Swope referenced the lake level monitors and received confirmation that there are eight stations and additional details were provided on their status.

12. MANAGER COMMENTS AND NEXT MONTH'S MEETING (1:32:10)

President Swope highlighted some of the items that will appear on the next agenda including a public art policy, maintenance standards, an update on the Grass Lake berm, and the weir operating plans.

13. ADJOURN

Motion: Manager Ward moved, Manager Eisele seconded, to adjourn the meeting at 8:04 p.m.

A roll call vote was performed:

Manager Eisele	aye
Manager Ward	aye
President Swope	aye

Motion carried 3-0 (Managers Aichinger and Skinner absent).

RWMWD BUDGET STATUS REPORT

Administrative & Program Budget

Fiscal Year 2021

9/30/2021

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	-	-	2,425.00	\$6,075.00	28.53%
	Manager expenses	4360	3,500.00	-	-	-	3,500.00	0.00%
Committees	Committee/Bd Mtg. Exp.	4365	3,500.00	-	489.62	2,899.84	600.16	82.85%
	Sub-Total: Managers/Committees:		\$15,500.00	\$0.00	\$489.62	\$5,324.84	\$10,175.16	34.35%
Employees	Staff salary/taxes/benefits	4010	1,520,000.00	-	138,344.91	1,173,648.30	346,351.70	77.21%
	Employee expenses	4020	15,000.00	-	649.27	5,109.20	9,890.80	34.06%
	District training & education	4350	75,000.00	-	95.00	9,172.88	65,827.12	12.23%
	Sub-Total: Employees:		\$1,610,000.00	\$0.00	\$139,089.18	\$1,187,930.38	\$422,069.62	73.78%
Administration/ Office	GIS system maint. & equip.	4170	10,000.00	-	-	1,687.02	8,312.98	16.87%
	Data Base/GIS Maintenance	4171	40,000.00	-	-	-	40,000.00	0.00%
	Equipment maintenance	4305	3,000.00	-	-	-	3,000.00	0.00%
	Telephone	4310	8,000.00	-	59.34	521.04	7,478.96	6.51%
	Office supplies	4320	7,000.00	-	521.18	3,604.00	3,396.00	51.49%
	IT/Internet/Web Site/Software Lic.	4325	70,000.00	-	5,391.26	48,024.33	21,975.67	68.61%
	Postage	4330	3,000.00	-	1,500.00	1,886.59	1,113.41	62.89%
	Printing/copying	4335	8,000.00	-	690.40	3,776.40	4,223.60	47.21%
	Dues & publications	4338	11,000.00	-	2,045.00	10,480.63	519.37	95.28%
	Janitorial/Trash Service	4341	15,000.00	-	806.98	8,499.91	6,500.09	56.67%
	Utilities/Bldg.Contracts	4342	30,000.00	-	189.38	8,910.87	21,089.13	29.70%
	Bldg/Site Maintenance	4343	150,000.00	-	1,314.98	21,438.03	128,561.97	14.29%
	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	-	9,532.23	141,733.69	8,266.31	94.49%
	Vehicle lease, maintenance	4810-40	43,000.00	-	964.08	3,367.47	39,632.53	7.83%
	Sub-Total: Administration/Office:		\$603,000.00	\$0.00	\$23,014.83	\$298,571.98	\$304,428.02	49.51%
Consultants/ Outside Services	Auditor/Accounting	4110	65,000.00	-	2,241.17	45,278.54	19,721.46	69.66%
	Engineering-administration	4121	93,000.00	-	6,136.00	50,567.00	42,433.00	54.37%
	Engineering-permit I&E	4122	10,000.00	-	1,866.00	1,866.00	8,134.00	18.66%
	Engineering-eng. review	4123	55,000.00	-	3,134.00	32,646.00	22,354.00	59.36%
	Engineering-permit review	4124	55,000.00	-	4,474.00	35,169.00	19,831.00	63.94%
	Project Feasibility Studies	4129	440,000.00	-	21,213.72	143,982.49	296,017.51	32.72%
	Attorney-permits	4130	10,000.00	-	-	-	10,000.00	0.00%
	Attorney-general	4131	40,000.00	-	3,578.60	22,760.85	17,239.15	56.90%
	Outside Consulting Services	4160	20,000.00	-	-	-	20,000.00	0.00%
	Sub-Total: Consultants/Outside Services:		\$788,000.00	\$0.00	\$42,643.49	\$332,269.88	\$455,730.12	42.17%
Programs	Educational programming	4370	60,000.00	-	2,632.63	6,450.06	53,549.94	10.75%
	Communications & Marketing	4371	25,000.00	-	15,853.10	21,901.33	3,098.67	87.61%
	Events	4372	50,000.00	-	2,849.98	33,918.14	16,081.86	67.84%
	Water QM-Engineering	4520-30	180,000.00	-	13,931.93	91,563.18	88,436.82	50.87%
	Project operations	4650	200,000.00	-	4,447.13	59,155.59	140,844.41	29.58%
	SLMP/TMDL Studies	4661	103,000.00	-	42.00	6,119.50	96,880.50	5.94%
	Natural Resources/Keller Creek	4670-72	140,000.00	-	803.15	69,113.78	70,886.22	49.37%
	Outside Prog.Support/Weed Mgmt.	4683-84	127,000.00	-	-	20,600.00	106,400.00	16.22%
	Research Projects	4695	95,000.00	-	9,763.00	70,674.01	24,325.99	74.39%
	Sub-Total: Programs:		\$983,000.00	\$0.00	\$50,360.69	\$380,469.13	\$602,530.87	38.70%
GENERAL FUND TOTAL			\$3,999,500.00	\$0.00	\$255,597.81	\$2,204,566.21	\$1,794,933.79	55.12%
CIP's	CIP Project Repair & Maintenance	516	1,325,000.00	-	59,696.48	759,737.71	565,262.29	57.34%
	Targeted Retrofit Projects	518	2,810,000.00	-	720,677.86	933,099.48	1,876,900.52	33.21%
	Flood Risk Reduction Fund	520	4,200,000.00	-	96,862.88	1,251,480.44	2,948,519.56	29.80%
	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	-	65,649.24	313,236.78	686,763.22	31.32%
	Wetland Restoration Projects	540	500,000.00	-	-	-	500,000.00	0.00%
	Wakefield Park Project	553	-	-	113.50	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	-	\$942,999.96	\$3,660,478.21	\$6,764,307.79	35.11%
TOTAL BUDGET			\$14,424,286.00	\$0.00	\$1,198,597.77	\$5,865,044.42	\$8,559,241.58	40.66%

Current Fund Balances:

Fund:	Beginning Fund Balance @ 12/31/20	Fund Transfers	Year to date Revenue	Current Month Expenses	Year to Date Expense	Fund Balance @ 09/30/21
101 - General Fund	\$4,364,963.52	-	1,238,113.16	255,597.81	2,204,566.21	3,398,510.47
516 - CIP Project Repair & Maintenance	627,656.44	-	437,802.96	59,696.48	759,737.71	305,721.69
518 - Targeted Retrofit Projects	1,012,501.35	-	177,647.06	720,677.86	933,099.48	257,048.93
520 - Flood Damage Reduction Fund	3,312,849.57	-	1,044,137.61	96,862.88	1,251,480.44	3,105,506.74
526 - Debt Services-96-97 Beltline/MM/Beltline-Battle Creek Tunnel Repair	949,395.60	-	48,379.22	-	397,795.30	599,979.52
529 - Stewardship Grant Program Fund	622,020.57	-	367,152.98	65,649.24	313,236.78	675,936.77
540 - Wetland Restoration Projects	-	-	262,252.13	-	-	262,252.13
553 - Wakefield Park Project	151,270.20	-	-	113.50	5,128.50	146,141.70
580 - Contingency Fund	891,682.00	-	-	-	-	891,682.00
585 - Certificates of Participation	204,397.98	-	102,218.00	-	-	306,615.98
Total District Fund Balance	\$12,136,737.23	\$0.00	\$ 3,677,703.12	\$ 1,198,597.77	\$5,865,044.42	\$9,949,395.93

Ramsey Washington Metro Watershed Dist.
Check Register
For the Period From Sep 1, 2021 to Sep 30, 2021

Check #	Date	Payee ID	Invoice #	Payee	Description	Amount
EFT	09/01/21	met008	Sep 2021	MetLife-Group Benefits	Employee Benefits	\$1,629.67
EFT	09/01/21	hea002	Oct 2021	HealthPartners	Employee Benefits	11,560.27
EFT	09/09/21	voy001	Sep 2021	US Bank Voyager Fleet Sys.	Vehicle Fuel	479.40
70277	09/01/21	inn002	Sep 2021	Innovative Office Solutions LLC	Office Equipment	6,291.11
70278	09/01/21	lan003	Sep 2021	Lancer Catering	Events	750.00
70279	09/15/21	mnd004	Sep 2021	MN DNR Fisheries	Natural Resources Project	250.00
72470	09/13/21	aws001	S1335957-090121	AWS Service Center	Janitorial/Trash Service	256.98
72471	09/13/21	gil001	208009	Gilbert Mechanical Contractors, Inc.	Bldg./Site Maintenance	1,153.00
72472	09/13/21	lyn001	114	Michael Lynch	Natural Resources Project	50.00
72473	09/13/21	mbc001	1111	MB Consulting	Events	2,099.98
72474	09/13/21	pac001	2110345911	Pace Analytical Services, Inc.	Water QM Staff	5,409.00
72475	09/13/21	pre003	318329641	Premium Waters, Inc.	Utilities/Bldg. Contracts	26.00
72476	09/13/21	ram002	COR-003480	Ramsey County	Educational Program	140.00
72477	09/13/21	sai001	3108	Saint Paul Media	Communications & Marketing	15,687.50
72478	09/13/21	shi001	B13967469	SHI International Corp.	Office Equipment	1,189.00
72479	09/13/21	usb005	451936330	US Bank Equipment Finance	Printing Expense	323.40
72480	09/29/21	bar001	08/14/21-9/17/21	Barr Engineering	August/September Engineering	132,653.88
72481	09/29/21	bar004	09/08/21	Deborah Barnes	Employee Reimbursement	40.00
72482	09/29/21	bat001	P41295606	Batteries Plus	Water QM Staff	247.95
72483	09/29/21	bre003	4th Qtr.-2021	Bremer Bank	Employee Benefits	8,550.00
72484	09/29/21	cad001	16617302	Allstream	Water QM Staff	65.18
72485	09/29/21	chi001	21-04	Chick-fil-A, Inc.	Dev. Escrow-General	460.00
72486	09/29/21	cit011	230338/230375	City of Roseville	IT/Website/Software	5,356.78
72487	09/29/21	com004	09/15/21	Comcast	Utilities/Bldg. Contracts	79.07
72488	09/29/21	fit002	Sep 2021	Mary Fitzgerald	Employee Reimbursement	60.16
72489	09/29/21	fle001	93294	Flemings Auto Service	Vehicle Maintenance	52.70
72490	09/29/21	gal001	09/22/21	Galowitz Olson, PLLC	September Legal Expense	4,256.70
72491	09/29/21	hom001	Sep 2021	Home Depot Credit Services	Nat.Res./Water QM/Proj.Oper.	354.27
72492	09/29/21	hyv002	20-24	Hy-Vee, Inc.	Dev. Escrow-General	9,000.00
72493	09/29/21	inn002	IN3467700	Innovative Office Solutions LLC	Office Supplies	166.04
72494	09/29/21	int001	W21080498	Office of MN, IT Services	Telephone Expense	59.34
72495	09/29/21	int003	79064	Intereum, Inc.	Office Equipment	2,052.12
72496	09/29/21	jon004	20-30 CS	Bob & Sandy Jones	Stewardship Grant Fund	2,195.00
72497	09/29/21	kel004	21-05 CS	Keller Properties	Stewardship Grant Fund	15,000.00
72498	09/29/21	kin001	061700009002	FedEx Office	Educational Program	72.74
72499	09/29/21	kob001	09/01/21	Julia R. Kobilka	Employee Reimbursement	84.34
72500	09/29/21	lan009	678	Landbridge Ecological, Inc.	Stewardship Grant Fund	14,799.00
72501	09/29/21	lea002	348502	League of Minnesota Cities	Dues & Publications	2,045.00
72502	09/29/21	mel001	Aug/Sep 2021	Michelle L. Melser	Employee Reimbursement	199.26
72503	09/29/21	met004	INV1891539	Metro Sales, Inc.	Printing Expense	367.00
72504	09/29/21	min008	30931	Minnesota Native Landscapes, Inc.	Construction Imp.-Maint. & Rep.	18,252.00
72505	09/29/21	nep001	Sep 2021	NCPERS Group Life Ins.	Employee Benefits	16.00
72506	09/29/21	nsp001	746903927	Xcel Energy	Flood Damage/Utilities/Water QM	434.70
72507	09/29/21	one001	21-19 CS	Ann O'Neill	Stewardship Grant Fund	5,533.40
72508	09/29/21	pac001	2110348671	Pace Analytical Services, Inc.	Water QM Staff	3,127.00
72509	09/29/21	pas002	Jul-Sep 2021	Sage Passi	Employee Reimbursement	365.73
72510	09/29/21	pem002	Pay #7-Final	Pember Companies	Pay #7-Final/Flood Damage	75,591.91
72511	09/29/21	pet001	Pay #1	Peterson Companies, Inc.	Targetd Retrofit/Stormwater Impact	704,606.08
72512	09/29/21	qwe001	09/10/21	CenturyLink	Project Operations	254.63
72513	09/29/21	ram002	21-16 CS	Ramsey County	Stewardship Grant Fund	2,867.26
72514	09/29/21	red002	150464301	Redpath & Company	August Accounting Services	2,093.67
72515	09/29/21	red003	20210910043028	Red Wing Business Advantage Account	Employee Benefits	182.74
72516	09/29/21	res001	09/24/21	Pitney Bowes - Reserve Account	Postage	1,500.00
72517	09/29/21	res003	IN16990	Resource Environmental Solutions, LLC	Construction Imp.-Maint. & Rep.	4,461.93
72518	09/29/21	ric002	19-30	Schafer Richardson	Dev. Escrow-General	22,240.00
72519	09/29/21	sch009	27882	Schlomka Services, LLC	Construction Imp.-Maint. & Rep.	645.00
72520	09/29/21	sim001	Aug/Sep 2021	Emily Simmons	Employee Reimbursement	176.38
72521	09/29/21	sod001	Sep 2021	Nicole Soderholm	Employee Reimbursement	70.24

Ramsey Washington Metro Watershed Dist.
Check Register
For the Period From Sep 1, 2021 to Sep 30, 2021

Check #	Date	Payee ID	Invoice #	Payee	Description	Amount
72522	09/29/21	sto003	09/01/21	Michael J Stoffel	Employee Reimbursement	111.38
72523	09/29/21	tim002	M26727	Timesaver Off-Site Secretarial, Inc.	Committee/Board Meeting Expense	194.50
72524	09/29/21	tro002	21-09	Cathy Troendle	Educational Program	2,358.72
72525	09/29/21	usb002	Sep 2021	U.S. Bank	Monthly Credit Card Expense	3,730.96
72526	09/29/21	van001	Oct 2021	Vanguard Cleaning Systems of Minnesota	Janitorial/Trash Service	550.00
72527	09/29/21	vla001	1/1/21	Dave Vlasin	Employee Reimbursement	221.79
72528	09/29/21	voy001	8692934232139	US Bank Voyager Fleet Sys.	Vehicle Fuel	431.98
72529	09/29/21	wal005	18-04 MTN	Heidi Walz	Stewardship Grant Fund	1,114.94
72530	09/29/21	wan001	21-22 CS	Stephanie Wang	Stewardship Grant Fund	15,000.00
72531	09/29/21	was002	5340	Washington Conservation District	Stewardship Grant Fund	2,808.00
Total						<u>\$1,114,452.78</u>
EFT	08/06/21	myp001	08/06/21	August 6th Payroll Fees	4110-101-000	73.55
EFT	08/20/21	myp001	08/20/21	August 20th Payroll Fees	4110-101-000	73.55
Dir.Dep.	09/03/21	---	Payroll Expense-Net	September 3rd Payroll	4010-101-000	31,883.56
EFT	09/03/21	int002	Internal Rev.Serv.	September 3rd Federal Withholding	2001-101-000	11,082.86
EFT	09/03/21	mnd001	MN Revenue	September 3rd State Withholding	2003-101-000	2,031.26
EFT	09/03/21	per001	PERA	September 3rd PERA	2011-101-000	6,263.12
EFT	09/03/21	emp002	Empower Retirement	Employee Def.Comp. Contributions	2016-101-000	2,645.00
EFT	09/03/21	emp002	Empower Retirement	Employee IRA Contributions	2018-101-000	450.00
Dir.Dep.	09/17/21	---	Payroll Expense-Net	September 17th Payroll	4010-101-000	36,170.71
EFT	09/17/21	int002	Internal Rev.Serv.	September 17th Federal Withholding	2001-101-000	11,732.41
EFT	09/17/21	mnd001	MN Revenue	September 17th State Withholding	2003-101-000	2,384.19
EFT	09/17/21	per001	PERA	September 17th PERA	2011-101-000	6,199.48
EFT	09/17/21	emp002	Empower Retirement	Employee Def.Comp. Contributions	2016-101-000	2,645.00
EFT	09/17/21	emp002	Empower Retirement	Employee IRA Contributions	2018-101-000	450.00
Payroll/Benefits:						<u>\$114,084.69</u>
Total						Accounts Payable/Payroll/Benefits: <u>\$1,228,537.47</u>

Ramsey Washington Metro Watershed Dist.
Cash Disbursements Journal
For the Period From September 1, 2021 - September 30, 2021

Date	Check #	Vendor ID	Name	Account ID	Account Description	Amount	Check Detail
09/01/21	EFT	met008	MetLife-Group Benefits	4040-101-000	Employee Benefits-General	\$1,629.67	
09/01/21	EFT	hea002	HealthPartners	4040-101-000	Employee Benefits-General	11,560.27	
09/09/21	EFT	voy001	U.S. Bank Voyager Fleet Sys.	4830-101-000	Vehicle Fuel-General	479.40	
09/01/21	70277	inn002	Innovative Office Solutions, LLC	4703-101-000	Office Equipment-General	6,291.11	
09/01/21	70278	lan003	Lancer Catering	4372-101-000	Events	750.00	
09/15/21	70279	mnd004	MN DNR Fisheries	4670-101-000	Natural Resources Project-General	250.00	
09/13/21	72470	aws001	AWS Service Center	4341-101-000	Janitorial/Trash Service	256.98	
09/13/21	72471	gil001	Gilbert Mechanical Contractors, Inc.	4343-101-000	Bldg./Site Maintenance	1,153.00	
09/13/21	72472	lyn001	Michael Lynch	4670-101-000	Natural Resources Project-General	50.00	
09/13/21	72473	mbc001	MB Consulting	4372-101-000	Events	2,099.98	
09/13/21	72474	pac001	Pace Analytical Services, Inc.	4530-101-000	Water QM Staff-General	5,409.00	
09/13/21	72475	pre003	Premium Waters, Inc.	4342-101-000	Utilities/Bldg. Contracts	26.00	
09/13/21	72476	ram002	Ramsey County	4370-101-000	Educational Program-General	140.00	
09/13/21	72477	sai001	Saint Paul Media	4371-101-000	Communications & Marketing	15,687.50	
09/13/21	72478	shi001	SHI International Corp.	4703-101-000	Office Equipment-General	1,189.00	
09/13/21	72479	usb005	US Bank Equipment Finance	4335-101-000	Printing-General	323.40	
09/29/21	72480	bar001	Barr Engineering			132,653.88	
				4121-101-000	Engineering Admin-General Fund		6,136.00
				4123-101-000	Engineering-Review		3,134.00
				4129-101-000	Project Feasability-General		1,654.00
				4129-101-000	Project Feasability-General		10,981.00
				4129-101-000	Project Feasability-General		2,568.72
				4129-101-000	Project Feasability-General		6,010.00
				4520-101-000	Water QM-Engineering		126.00
				4520-101-000	Water QM-Engineering		3,999.64
				4122.101-000	Engineering-Permit I & E		1,866.00
				4124-101-000	Engineering-Permit Review		4,474.00
				4661-101-000	SLMP/TMDL Studies		42.00
				4695-101-000	Research Projects-General		1,586.00
				4695-101-000	Research Projects-General		424.00
				4695-101-000	Research Projects-General		7,753.00
				4650-101-000	Engineering-Project Operations		478.50
				4650-101-000	Engineering-Project Operations		3,714.00
				4128-518-000	Engineering-School/Commer Retrofit		682.16
				4128-518-000	Engineering-School/Commer Retrofit		7,503.76
				4128-518-000	Engineering-School/Commer Retrofit		1,610.00
				4128-518-000	Engineering-School/Commer Retrofit		2,357.00
				4128-518-000	Engineering-School/Commer Retrofit		3,836.36
				4682-529-000	Stewardship Grant Fund		6,331.64
				4128-518-000	Engineering-School/Commer Retrofit		82.50
				4128-553-000	Engineering-Wakefiled		113.50
				4128-520-000	Engineering-Flood Damage		6,778.50
				4128-520-000	Engineering-Flood Damage		12,632.30
				4128-520-000	Engineering-Flood Damage		1,635.00
				4128-516-000	Engineering-Maint. & Repair		25,543.68

Ramsey Washington Metro Watershed Dist.
Cash Disbursements Journal
For the Period From September 1, 2021 - September 30, 2021

Date	Check #	Vendor ID	Name	Account ID	Account Description	Amount	Check Detail
				4128-516-000	Engineering-Maint. & Repair		37.50
				4128-516-000	Engineering-Maint. & Repair		4,391.50
				4128-516-000	Engineering-Maint. & Repair		2,572.50
				4128-516-000	Engineering-Maint. & Repair		1,599.12
09/29/21	72481	bar004	Deborah Barnes	4040-101-000	Employee Benefits-General	40.00	
09/29/21	72482	bat002	Batteries Plus Bulbs	4530-101-000	Water QM Staff-General	247.95	
09/29/21	72483	bre003	Bremer Bank	4040-101-000	Employee Benefits-General	8,550.00	
09/29/21	72484	cad001	Allstream	4530-101-000	Water QM Staff-General	65.18	
09/29/21	72485	chi001	Chick-fil-A, Inc.	2024-101-000	Dev. Escrow-General	460.00	
09/29/21	72486	cit011	City of Roseville	4325-101-000	IT/Website/Software	5,356.78	
09/29/21	72487	com004	Comcast	4342-101-000	Utilities/Bldg. Contracts	79.07	
09/29/21	72488	fit002	Mary Fitzgerald			60.16	
				4020-101-000	Employee Expenses-General		20.16
				4040-101-000	Employee Benefits-General		40.00
09/29/21	72489	fle001	Flemings Auto Service	4820-101-000	Vehicle Maint.-General	52.70	
09/29/21	72490	gal001	Galawitz Olson, PLLC			4,256.70	
				4131-101-000	Attorney General-General		3,578.60
				4131-516-000	Attorney General-Maint. & Repair		678.10
09/29/21	72491	hom001	Home Depot Credit Services			354.27	
				4670-101-000	Natural Resources Project-General		140.47
				4530-101-000	Water QM Staff-General		77.84
				4650-516-000	Project Operations-General		135.96
09/29/21	72492	hyv001	Hy-Vee, Inc.	2024-101-000	Dev. Escrow-General	9,000.00	
09/29/21	72493	inn002	Innovative Office Solutions, LLC	4320-101-000	Office Supplies-General	166.04	
09/29/21	72494	int001	Office of MN, IT Services	4310-101-000	Telephone-General	59.34	
09/29/21	72495	inn003	Intereum, Inc.	4703-101-000	Office Equipment-General	2,052.12	
09/29/21	72496	jon004	Bob & Sandy Jones	4682-529-000	Stewardship Grant Fund	2,195.00	
09/29/21	72497	kel004	Keller Properties	4682-529-000	Stewardship Grant Fund	15,000.00	
09/29/21	72498	kin001	FedEx Office	4370-101-000	Educational Program-General	72.74	
09/29/21	72499	kob001	Julia R., Kobilka	4020-101-000	Employee Expenses-General	84.34	
09/29/21	72500	lan009	Landbridge Ecological, Inc.	4682-529-000	Stewardship Grant Fund	14,799.00	
09/29/21	72501	lea002	League of Minnesota Cities	4338-101-000	Dues & Publications	2,045.00	
09/29/21	72502	mel001	Michelle L. Melser			199.26	
				4343-101-000	Bldg./Site Maintenance		125.00
				4020-101-000	Employee Expenses-General		74.26
09/29/21	72503	met004	Metro Sales, Inc.	4335-101-000	Printing-General	367.00	
09/29/21	72504	min008	Minnesota Native Landscapes, Inc.	4630-516-000	Construction Imp.-Maint. & Repair	18,252.00	
09/29/21	72505	ncp001	NCPERS Group Life Ins.	4040-101-000	Employee Benefits-General	16.00	
09/29/21	72506	nsp001	Xcel Energy			434.70	
				4530-101-000	Water QM Staff-General		125.22
				4342-101-000	Utilities/Bldg. Contracts		84.31
				4630-520-000	Construction-Flood Damage		225.17
09/29/21	72507	one001	Ann O'Neill	4682-529-000	Stewardship Grant Fund	5,533.40	
09/29/21	72508	pac001	Pace Analytical Services, Inc.	4530-101-000	Water QM Staff-General	3,127.00	
09/29/21	72509	pas002	Sage Passi			365.73	
				4020-101-000	Employee Expenses-General		224.56
				4040-101-000	Employee Benefits-General		80.00
				4370-101-000	Educational Program-General		61.17

Ramsey Washington Metro Watershed Dist.
Cash Disbursements Journal
For the Period From September 1, 2021 - September 30, 2021

Date	Check #	Vendor ID	Name	Account ID	Account Description	Amount	Check Detail
09/29/21	72510	pem002	Pember Companies	4630-520-000	Construction-Flood Damage	75,591.91	
09/29/21	72511	pet001	Peterson Companies, Inc.			704,606.08	
				4630-518-000	Construction-Targeted Retrofit		580,893.39
				4630-518-000	Construction-Targeted Retrofit		123,712.69
09/29/21	72512	qwe001	CenturyLink	4650-101-000	Project Operations-General	254.63	
09/29/21	72513	ram002	Ramsey County	4682-529-000	Stewardship Grant Fund	2,867.26	
09/29/21	72514	red002	Redpath & Company, Ltd.	4110-101-000	Auditor/Accounting	2,093.67	
09/29/21	72515	red003	Red Wing Business Advantage Account	4040-101-000	Employee Benefits-General	182.74	
09/29/21	72516	res001	Pitney Bowes - Reserve Account	4330-101-000	Postage-General	1,500.00	
09/29/21	72517	res003	Resource Environmental Solutions, LLC	4630-516-000	Construction Imp.-Maint. & Repair	4,461.93	
09/29/21	72518	ric002	Schafer Richardson	2024-101-000	Dev. Escrow-General	22,240.00	
09/29/21	72519	sch009	Schlomka Services, LLC	4630-516-000	Construction Imp.-Maint. & Repair	645.00	
09/29/21	72520	sim001	Emily Simmons			176.38	
				4020-101-000	Employee Expenses-General		104.33
				4040-101-000	Employee Benefits-General		72.05
09/29/21	72521	sod001	Nicole Soderholm			70.24	
				4020-101-000	Employee Expenses-General		30.24
				4040-101-000	Employee Benefits-General		40.00
09/29/21	72522	sod001	Michael J. Stoffel	4020-101-000	Employee Expenses-General	111.38	
09/29/21	72523	tim002	Timesaver Off-Site Secretarial, Inc.	4365-101-000	Committee/Board Meeting Expense	194.50	
09/29/21	72524	tro002	Cathy Troendle			2,358.72	
				4370-101-000	Educational Program-General		2,337.50
				4370-101-000	Educational Program-General		11.03
				4370-101-000	Educational Program-General		10.19
09/29/21	72525	usb002	U.S. Bank			3,730.96	
				4343-101-000	Bldg./Site Maintenance		36.98
				4325-101-000	IT/Website/Software		34.09
				4320-101-000	Office Supplies-General		84.49
				4325-101-000	IT/Website/Software		0.39
				4320-101-000	Office Supplies-General		51.27
				4320-101-000	Office Supplies-General		10.05
				4320-101-000	Office Supplies-General		0.03
				4320-101-000	Office Supplies-General		14.23
				4320-101-000	Office Supplies-General		101.93
				4320-101-000	Office Supplies-General		9.41
				4320-101-000	Office Supplies-General		21.82
				4371-101-000	Marketing & Communications		50.00
				4040-101-000	Employee Benefits-General		427.60
				4530-101-000	Water QM Staff-General		156.37
				4350-101-000	Training & Education		95.00
				4365-101-000	Committee/Board Meeting Expense		295.12
				4371-101-000	Marketing & Communications		50.00
				4630-516-000	Construction Imp.-Maint. & Repair		562.50
				4670-101-000	Natural Resources Project-General		52.30
				4670-101-000	Natural Resources Project-General		101.95
				4320-101-000	Office Supplies-General		34.11
				4697-101-000	Health & Safety Program		37.77
				4320-101-000	Office Supplies-General		27.80
				4371-101-000	Marketing & Communications		18.06

Ramsey Washington Metro Watershed Dist.
Cash Disbursements Journal
For the Period From September 1, 2021 - September 30, 2021

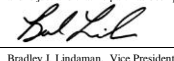
Date	Check #	Vendor ID	Name	Account ID	Account Description	Amount	Check Detail
				4371-101-000	Marketing & Communications		25.00
				4530-101-000	Water QM Staff-General		597.73
				4670-101-000	Natural Resources Project-General		115.44
				4670-101-000	Natural Resources Project-General		92.99
				4371-101-000	Marketing & Communications		22.54
				4630-516-000	Construction Imp.-Maint. & Repair		603.99
09/29/21	72526	van001	Vanguard Cleaning Systems of Minnesota	4341-101-000	Janitorial/Trash Service	550.00	
09/29/21	72527	vla001	Dave Vlasin			221.79	
				4650-516-000	Project Operations-General		212.70
				4040-101-000	Employee Benefits-General		9.09
09/29/21	72528	voy001	US Bank Voyager Fleet Sys.	4830-101-00	Vehicle Fuel-General	431.98	
09/29/21	72529	wal005	Heidi Walz	4682-529-000	Stewardship Grant Fund	1,114.94	
09/29/21	72530	wan001	Stephanie Wang	4682-529-000	Stewardship Grant Fund	15,000.00	
09/29/21	72531	was002	Washington Conservation District	4682-529-000	Stewardship Grant Fund	2,808.00	
Accounts Payable Total:						\$1,114,452.78	
EFT	08/06/21	myp001	Payroll Fees	4110-101-000	August 6th Payroll Fees	73.55	
EFT	08/20/21	myp001	Payroll Fees	4110-101-000	August 20th Payroll Fees	73.55	
Dir.Dep.	09/03/21	---	Payroll Expense-Net	4010-101-000	September 3rd Payroll	31,883.56	
EFT	09/03/21	int002	Internal Rev.Serv.	2001-101-000	September 3rd Federal Withholding	11,082.86	
EFT	09/03/21	mnd001	MN Revenue	2003-101-000	September 3rd State Withholding	2,031.26	
EFT	09/03/21	per001	PERA	2011-101-000	September 3rd PERA	6,263.12	
EFT	09/03/21	emp002	Empower Retirement	2016-101-000	Employee Def.Comp. Contributions	2,645.00	
EFT	09/03/21	emp002	Empower Retirement	2018-101-000	Employee IRA Contributions	450.00	
Dir.Dep.	09/17/21	---	Payroll Expense-Net	4010-101-000	September 17th Payroll	36,170.71	
EFT	09/17/21	int002	Internal Rev.Serv.	2001-101-000	September 17th Federal Withholding	11,732.41	
EFT	09/17/21	mnd001	MN Revenue	2003-101-000	September 17th State Withholding	2,384.19	
EFT	09/17/21	per001	PERA	2011-101-000	September 17th PERA	6,199.48	
EFT	09/17/21	emp002	Empower Retirement	2016-101-000	Employee Def.Comp. Contributions	2,645.00	
EFT	09/17/21	emp002	Empower Retirement	2018-101-000	Employee IRA Contributions	450.00	
Payroll/Benefits						\$114,084.69	
TOTAL:						\$1,228,537.47	



Summary of Professional Engineering Services During the Period
August 14, 2021 through September 17, 2021

	Total Engineering Budget (2021)	Total Fees to Date (2021)	Budget Balance (2021)	Fees During Period	District Accounting Code	Plan Implementation Task Number
Engineering Administration						
General Engineering Administration	\$76,000.00	\$50,567.00	\$25,433.00	\$6,136.00	4121-101	DW-13
RWMWD Health and Safety/ERTK Program	\$2,000.00	\$525.00	\$1,475.00	\$0.00	4697-101	DW-13
Educational Program/Educational Forum Assistance	\$20,000.00	\$17,120.00	\$2,880.00	\$0.00	4129-101	DW-11
Engineering Review						
Engineering Review	\$55,000.00	\$37,520.00	\$17,480.00	\$3,134.00	4123-101	DW-13
Project Feasibility Studies						
Interim emergency response plan funds for top priority District flooding areas	\$60,000.00	\$38,865.75	\$21,134.25	\$1,654.00	4129-101	DW-19
Groundwater/Surface Water Next Steps	\$50,000.00	\$226.00	\$49,774.00	\$0.00	4129-101	DW-16
FEMA Flood Mapping Update (2020)	\$109,720.00	\$86,783.50	\$22,936.50	\$0.00	4129-101	DW-9
Hillcrest Golf Course (multi-use)	\$20,000.00	\$90.00	\$19,910.00	\$0.00	4129-101	DW-6
Gold BRT planning	\$20,000.00	\$0.00	\$20,000.00	\$0.00	4129-101	DW-6
Kohlman Creek flood damage reduction feasibility study	\$75,000.00	\$33,551.71	\$41,448.29	\$10,981.00	4129-101	DW-9, BELT-3
Grass Lake Berm Wetland	\$35,000.00	\$12,234.12	\$22,765.88	\$2,568.72	4129-101	
Ames Lake Technical Assistance and Project Planning with St. Paul	\$25,000.00	\$21,326.91	\$3,673.09	\$6,010.00	4129-101	DW-9, BELT-3
Battle Creek PFAS (monitoring, source ID, meetings, communications)	\$25,000.00	\$0.00	\$25,000.00		4129-101	DW-10
694/494/94 WQ treatment feasibility study	\$30,000.00	\$0.00	\$30,000.00		4129-101	BCL-3
Subwatershed feasibility studies for At-Risk creeks (Fish Creek and Gervais Creek)	\$35,000.00	\$270.00	\$34,730.00	\$0.00	4129-101	DW-1, DW-2, DW-6
Wetland Restoration Workshop, Education, and Planning	\$25,000.00	\$0.00	\$25,000.00		4129-101	DW-8
Contingency*	\$50,000.00	\$0.00	\$50,000.00		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	\$358.18	\$9,641.82	\$0.00	4520-101	DW-2
Annual WQ Report Assistance	\$10,000.00	\$126.00	\$9,874.00	\$126.00	4520-101	DW-2
Special Project BMP Monitoring	\$25,000.00	\$15,120.14	\$9,879.86	\$3,999.64	4520-101	DW-12
Permit Processing, Inspection and Enforcement						
Permit Application Inspection and Enforcement	\$10,000.00	\$1,866.00	\$8,134.00	\$1,866.00	4122-101	DW-7
Permit Application Review	\$55,000.00	\$35,169.00	\$19,831.00	\$4,474.00	4124-101	DW-7
Lake Studies/WRPPs/TMDL Reports						
2020 Grant Applications	\$40,000.00	\$0.00	\$40,000.00		4661-101	DW-13
Tanners Flood Response Tool Model Update	\$3,000.00	\$3,830.00	-\$830.00	\$0.00	4661-101	Tal-1
WMP Updates - Including Implementation Plan Updates	\$20,000.00	\$0.00	\$20,000.00		4661-101	DW-13
Prioritization of water quality projects from subwatershed feasibility studies	\$15,000.00	\$2,289.50	\$12,710.50	\$42.00	4661-101	DW-13
Contingency for Lake Studies	\$25,000.00	\$0.00	\$25,000.00		4661-101	
Research Projects						
New Technology Mini Case Studies (average 6 per year)	\$12,000.00	\$10,792.50	\$1,207.50	\$1,586.00	4695-101	DW-12
Kohlman Permeable Weir Test System - Implement Monitoring Plan	\$15,000.00	\$8,707.50	\$6,292.50	\$424.00	4695-101	DW-12
Phalen Chain of Lakes Changes in Water Quality	\$10,000.00	\$7,383.00	\$2,617.00	\$0.00	4695-101	DW-2, DW-12
Shallow Lake Aeration Study	\$36,000.00	\$38,791.01	-\$2,791.01	\$7,753.00	4695-101	DW-12
Project Operations						
2020 Tanners Alum Facility Monitoring	\$15,000.00	\$12,242.00	\$2,758.00	\$478.50	4650-101	Tal-3
Beltline Outlet and Keller Channel Operations Plans	\$30,000.00	\$6,659.00	\$23,341.00	\$3,714.00	4650-101	DW-9, BELT-3
Capital Improvements						
East St. Paul Target	\$45,000.00	\$52,951.67	-\$7,951.67	\$682.16	4128-518	DW-6
North St. Paul Target	\$150,000.00	\$144,153.58	\$5,846.42	\$7,503.76	4128-518	DW-6
Cemstone	\$60,000.00	\$0.00	\$60,000.00		4128-518	DW-6
Commercial Sites Retrofit Projects 2021 (Targeted Retrofits)	\$45,000.00	\$5,913.00	\$39,087.00	\$1,610.00	4128-518	DW-6
School Sites Retrofit Projects 2021 (Targeted Retrofits)	\$45,000.00	\$4,879.00	\$40,121.00	\$2,357.00	4128-518	DW-6
Church Sites Retrofit Projects 2021 (Targeted Retrofit)	\$45,000.00	\$18,686.86	\$26,313.14	\$3,836.36	4128-518	DW-6
BMP Incentive Fund: Gen'l BMP Design Assistance and Review (cases where Dist is approached by landowner, or landowner is not commercial, school, church)	\$75,000.00	\$33,275.84	\$41,724.16	\$6,331.64	4682-529	DW-6
Willow Lake Area Detention (from feas. Study)	\$150,000.00	\$0.00	\$150,000.00		4128-520	DW-9, BELT-3
Kohlman Creek Storage and Detention (from feas. Study)	\$200,000.00	\$0.00	\$200,000.00		4128-520	KC-2
Aldrich Arena (soils and plantings)	\$25,000.00	\$24,352.89	\$647.11	\$82.50	4128-518	DW-6, WL-1
Wakefield Park/Frost Avenue Stormwater Project	\$17,500.00	\$23,859.77	-\$6,359.77	\$113.50	4128-553	DW-6, WL-1
Wetland Restoration	\$100,000.00	\$0.00	\$100,000.00		4128-529	DW-1, DW-8
Keller Channel Weir & Phalen Outlet Resiliency Modifications	\$250,000.00	\$246,354.65	\$3,645.35	\$6,778.50	4128-520	DW-9, BELT-3
Address Internal Load in TMDL lakes	\$60,000.00	\$0.00	\$60,000.00		4661-101	BELT-3
Ryan Drive-Keller Parkway Conveyance	\$194,000.00	\$164,639.65	\$29,360.35	\$12,632.30	4128-520	DW-9, BELT-3, GC-2
Twin Lake Outlet Easement Acquisition, Permitting, Construction Plans (2020)	\$90,000.00	\$75,862.87	\$14,137.13	\$1,635.00	4128-520	DW-9
Place holder for feas. study (other) recommendations	\$25,000.00	\$0.00	\$25,000.00		4128-520	
CIP Project Repair & Maintenance						
Routine CIP Inspection and Unplanned Maintenance Identification	\$75,000.00	\$106,482.78	-\$31,482.78	\$25,543.68	4128-516	DW-5
Beltline 5-year Inspection	\$70,000.00	\$19,054.94	\$50,945.06	\$37.50	4128-516	BELT-2
District Inspection Standardization	\$34,200.00	\$4,391.50	\$29,808.50	\$4,391.50	4128-516	DW-5
CR D Ravine	\$32,500.00	\$2,710.00	\$29,790.00	\$2,572.50	4128-516	DW-5
2021 CIP Maintenance and Repairs	\$150,000.00	\$125,778.96	\$24,221.04	\$1,599.12	4128-516	DW-5
2022 CIP Maintenance and Repairs (planning, bidding, and project setup)	\$30,000.00	\$0.00	\$30,000.00		4128-516	DW-5
TOTAL PAYABLE FOR PERIOD 08/14/21 - 9/17/21						
				\$132,653.88		

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

**Keller Channel Weir and Phalen Outlet Resiliency
Progress Payment Number 7_Final**

1.0	Total Completed Through This Period:	<u>\$1,228,409.20</u>	
2.0	Total Completed Previously Completed:		<u>\$1,210,333.99</u>
3.0	Total Completed This Period:		<u>\$18,075.21</u>
4.0	Amount Previously Retained:	<u>\$60,516.70</u>	
5.0	Amount Retained This Period (See Note 1):		<u>\$903.76</u>
6.0	Total Amount Retained:	<u>\$61,420.46</u>	
7.0	Retainage Released Through This Period:		<u>\$58,420.46</u>
8.0	Total Retainage Remaining:	<u>\$3,000.00</u>	
9.0	Amounts Previously Paid:	<u>\$1,149,817.31</u>	
10.0	Amount Due This Estimate:		<u><u>\$75,591.91</u></u>

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

SUBMITTED BY:

Name: Joe Pember Date: September 21, 2021
Title: Project Manager
Contractor: Pember Companies, Inc.

Signature: 

RECOMMENDED BY:

Name: Brad Lindaman Date: September 22, 2021
Title: District Engineer
Engineer: Barr Engineering Company

Signature: 

APPROVED BY:

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

Signature: _____

**Keller Channel Weir and Phalen Outlet Resiliency
Ramsey-Washington Metro Watershed District
Summary of Work Completed Through July 3, 2021 for Progress Payment Number 7_Final**

						(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											
1.04.A	Mobilization/Demobilization	L.S.	1	\$58,900.00	\$58,900.00	1	\$58,900.00	1	\$58,900.00	0	\$0.00
1.04.B	Clearing and Grubbing	L.S.	1	\$6,500.00	\$6,500.00	1	\$6,500.00	1	\$6,500.00	0	\$0.00
1.04.C	Control of Water	L.S.	1	\$225,000.00	\$225,000.00	1	\$225,000.00	1	\$225,000.00	0	\$0.00
1.04.D	Construction Entrance	Each	3	\$1,000.00	\$3,000.00	3	\$3,000.00	3	\$3,000.00	0	\$0.00
1.04.E	Silt Fence	L.F.	450	\$2.70	\$1,215.00	0	\$0.00	0	\$0.00	0	\$0.00
1.04.F	Siltation Log	L.F.	250	\$4.20	\$1,050.00	425	\$1,785.00	425	\$1,785.00	0	\$0.00
1.04.G	Floatation Silt Curtain	L.F.	400	\$24.00	\$9,600.00	450	\$10,800.00	450	\$10,800.00	0	\$0.00
1.04.H	Erosion Control Blanket	S.Y.	347	\$3.70	\$1,283.90	1,029	\$3,807.30	1029	\$3,807.30	0	\$0.00
1.04.I	Hydro-Mulch	S.Y.	780	\$3.00	\$2,340.00	0	\$0.00	0	\$0.00	0	\$0.00
1.04.J	Inlet Protection	Each	14	\$130.00	\$1,820.00	0	\$0.00	0	\$0.00	0	\$0.00
1.04.K	Traffic and Pedestrian Control	L.S.	1	\$10,000.00	\$10,000.00	1.00	\$10,000.00	1.00	\$10,000.00	0	\$0.00
Phalen Lake East and West Outlet Structures											
1.04.L	Remove, Salvage and Replace Split Rail Fence	L.F.	135	\$30.00	\$4,050.00	135	\$4,050.00	135	\$4,050.00	0	\$0.00
1.04.M	Remove and Salvage Existing Overflow Structure Grate Trash Rack	Each	2	\$3,000.00	\$6,000.00	2	\$6,000.00	2	\$6,000.00	0	\$0.00
1.04.N	Remove and Disposal of Existing 24” RCP Flared End Section and Trash Rack Inlet	Each	2	\$2,000.00	\$4,000.00	2	\$4,000.00	2	\$4,000.00	0	\$0.00
1.04.O	Excavate and Removal of Riprap from Infront of Structures and Regrade Area	L.S.	1	\$50,000.00	\$50,000.00	1	\$50,000.00	1	\$50,000.00	0	\$0.00
1.04.P	Construction Provisions/Methods to Protect Existing Concrete Structures D	L.S.	1	\$15,000.00	\$15,000.00	1	\$15,000.00	1	\$15,000.00	0	\$0.00
1.04.Q	Remove Partial Section of Existing Concrete Weir Wall	Each	2	\$7,500.00	\$15,000.00	2	\$15,000.00	2	\$15,000.00	0	\$0.00
1.04.R	36” RCP Class II	L.F.	140	\$300.00	\$42,000.00	151	\$45,300.00	151	\$45,300.00	0	\$0.00
1.04.S	36” RC Flared End Section w/Bull Nose Trash Rack	Each	4	\$5,000.00	\$20,000.00	4	\$20,000.00	4	\$20,000.00	0	\$0.00
1.04.T	Connect 36” RCP to Existing Outlet Control Structure	Each	4	\$10,000.00	\$40,000.00	4	\$40,000.00	4	\$40,000.00	0	\$0.00
1.04.U	Random Granite Riprap Mn/DOT Class IV	Ton	556	\$83.00	\$46,148.00	398	\$33,034.00	398	\$33,034.00	0	\$0.00
1.04.V	Granular Filter Material	Ton	277	\$32.50	\$9,002.50	115	\$3,737.50	115	\$3,737.50	0	\$0.00
1.04.W	72” Dia. RC Control Structure Manhole with Integral Base, Weir Wall and Door Hatch Cast in Top Slab	Each	4	\$15,000.00	\$60,000.00	4	\$60,000.00	4	\$60,000.00	0	\$0.00
1.04.X	Construct 8” Reinforced Concrete Weir Wall in Existing Outlet Structure	Each	4	\$5,500.00	\$22,000.00	4	\$22,000.00	4	\$22,000.00	0	\$0.00
1.04.Y	Aluminum Angle Frame Floor Door Hatch – Single Leaf	Each	4	\$2,500.00	\$10,000.00	4	\$10,000.00	4	\$10,000.00	0	\$0.00
1.04.Z	Furnish and Install 48” Wide x 48” High Drop Weir Gate (Whipps, Inc.™) with Electric Actuator	Each	4	\$20,500.00	\$82,000.00	4	\$82,000.00	4	\$82,000.00	0	\$0.00

**Keller Channel Weir and Phalen Outlet Resiliency
Ramsey-Washington Metro Watershed District
Summary of Work Completed Through July 3, 2021 for Progress Payment Number 7_Final**

						(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
1.04.AA	Furnish and Install Custom Fabricated Special Overflow Structure Galvanized Trash Rack (Haala Ind. TM)	Each	2	\$6,400.00	\$12,800.00	2	\$12,800.00	2	\$12,800.00	0	\$0.00
1.04.AB	Aggregate Fill	C.Y.	578	\$32.50	\$18,785.00	588	\$19,110.00	588	\$19,110.00	0	\$0.00
1.04.AC	Import Topsoil	C.Y.	58	\$70.00	\$4,060.00	58	\$4,060.00	58	\$4,060.00	0	\$0.00
1.04.AD	Protect Trails/Paths and Repair/Restoration of any Damaged Bituminous	L.S.	1	\$40,000.00	\$40,000.00	1	\$40,000.00	1	\$40,000.00	0	\$0.00
1.04.AE	Seeding	S.Y.	347	\$5.00	\$1,735.00	1,029	\$5,145.00	1029	\$5,145.00	0	\$0.00
1.04.AF	Site Restoration	L.S.	1	\$5,000.00	\$5,000.00	1	\$5,000.00	1	\$5,000.00	0	\$0.00
Keller Channel Weir											
1.04.AG	Remove Top 3 Feet of Existing Weir Wall	L.S.	1	\$18,000.00	\$18,000.00	1	\$18,000.00	1	\$18,000.00	0	\$0.00
1.04.AH	Construction Provisions/Methods to Protect Existing Concrete Structure During Selective Demolition/Removals	L.S.	1	\$8,500.00	\$8,500.00	1	\$8,500.00	1	\$8,500.00	0	\$0.00
1.04.AI	Concrete Modifications to Weir, (Add 1 foot to top of weir and 6 inches to side walls as shown on Drawings)	L.S.	1	\$8,000.00	\$8,000.00	1	\$8,000.00	1	\$8,000.00	0	\$0.00
1.04.AJ	Repair/Regrade Existing Channel Side Slopes, Construct Level Access Pad Area for Control Panel, Remove and Replace Riprap Upstream and Downstream of Structure, Add Topsoil, Seed, and Erosion Control Blanket	L.S.	1	\$28,000.00	\$28,000.00	1	\$28,000.00	1	\$28,000.00	0	\$0.00
1.04.AK	Furnish and Install 132" Wide x 30" High Drop Weir Gate (Whipps, Inc. TM) with Interconnected Gearbox and Electric Actuator	Each	3	\$23,000.00	\$69,000.00	3	\$69,000.00	3	\$69,000.00	0	\$0.00
1.04.AL	Valve Stem Cover Box/Lid Installed	Each	3	\$4,100.00	\$12,300.00	3	\$12,300.00	3	\$12,300.00	0	\$0.00
1.04.AM	Protect Trails/Paths and Repair/Restoration of any Damaged Bituminous	L.S.	1	\$20,000.00	\$20,000.00	1	\$20,000.00	1	\$20,000.00	0	\$0.00
1.04.AN	Site Restoration	L.S.	1	\$14,000.00	\$14,000.00	1	\$14,000.00	1	\$14,000.00	0	\$0.00
Electrical											
1.04.AO	Electrical - Phalen Lake East and West Outlet Structures	L.S.	1	\$130,000.00	\$130,000.00	1.00	\$130,000.00	0.99	\$128,700.00	0.01	\$1,300.00
1.04.AP	Electrical - Keller Channel Weir	L.S.	1	\$40,000.00	\$40,000.00	1.00	\$40,000.00	0.99	\$39,600.00	0.01	\$400.00
Electrical Allowance											
1.05B	Schedule of Allowances	Each	1	\$21,000.00	\$21,000.00	0.2	\$4,454.50	0	\$0.00	0.2	\$4,454.50

Contract Base Extensions = \$1,197,089.40 \$1,168,283.30 \$1,162,128.80 \$6,154.50

**Keller Channel Weir and Phalen Outlet Resiliency
Ramsey-Washington Metro Watershed District
Summary of Work Completed Through July 3, 2021 for Progress Payment Number 7_Final**

						(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 Orders											
C.O.1.A	Crushed Granite Stone (Barton CA1)	Ton	400	\$83.00	\$33,200.00	416	\$34,528.00	416	\$34,528.00	0	\$0.00
C.O.1.B	Type 5 Stabilization Geotextile	SY	350	\$2.50	\$875.00	350	\$875.00	350	\$875.00	0	\$0.00
C.O.3.A	Keller Channel Sediment/Muck Excavation and Disposal	CY	105	\$56.68	\$5,951.00	105	\$5,951.00	105	\$5,951.00	0	\$0.00
C.O.4.A	Phalen Riprap Fill - 70/30 Mixture (Sand/Compost)	CY	63	\$54.25	\$3,417.75	63	\$3,417.75	63	\$3,417.75	0	\$0.00
C.O.4.B	Keller Riprap Fill - Topsoil	CY	22	\$41.67	\$916.74	22	\$916.74	22	\$916.74	0	\$0.00
C.O.4.C	Concrete Core Drill Holes for Electrical Conduits	Each	6	\$275.00	\$1,650.00	6	\$1,650.00	6	\$1,650.00	0	\$0.00
C.O.4.D	Additional Manhole Steps Installed	Each	18	\$48.15	\$866.70	18	\$866.70	18	\$866.70	0	\$0.00
C.O.5.A	Additional Power Conductor Control Wires	L.S.	1	\$3,969.38	\$3,969.38	1	\$3,969.38	0	\$0.00	1	\$3,969.38
C.O.6.A	Protective Cover for Transducer and Wire	L.S.	1	\$550.00	\$550.00	1	\$550.00	0	\$0.00	1	\$550.00
C.O.6.B	Keller Regional Park Lighting Conduits and Handholes	L.S.	1	\$7,401.33	\$7,401.33	1	\$7,401.33	0	\$0.00	1	\$7,401.33
Change Order Extensions =					\$58,797.90	\$60,125.90		\$48,205.19		\$11,920.71	
Contract Grand Total =					\$1,255,887.30	\$1,228,409.20		\$1,210,333.99		\$18,075.21	


Target North St. Paul Retail Store Stormwater Retrofits
Progress Payment Number 1

1.0	Total Completed Through This Period:	<u>\$741,690.61</u>		
2.0	Total Previously Completed:		<u>\$0.00</u>	
3.0	Total Completed This Period:			<u>\$741,690.61</u>
4.0	Amount Previously Retained:		<u>\$0.00</u>	
5.0	Amount Retained This Period (See Note 1):			<u>\$37,084.53</u>
6.0	Total Amount Retained (See Note 1):		<u>\$37,084.53</u>	
7.0	Retainage Released Through This Period:			<u>\$0.00</u>
8.0	Total Retainage Remaining:		<u>\$37,084.53</u>	
9.0	Amounts Previously Paid:	<u>\$0.00</u>		
10.0	Amount Due This Estimate:			<u><u>\$704,606.08</u></u>

Note 1: At rate of 5%.

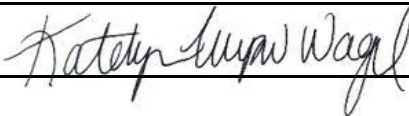
SUBMITTED BY:

Name: Jake Sikora Date: 9/24/2021
Title: Project Manager
Contractor: Peterson Companies, Inc.

Signature: 

RECOMMENDED BY:

Name: Katie Turpin-Nagel Date: 09/23/2021
Title: Project Engineer
Engineer: Barr Engineering Company

Signature: 

APPROVED BY:

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

Signature: _____

Target North St. Paul Stormwater Retrofits
Ramsey-Washington Metro Watershed District
Summary of Work Completed Through September 17, 2021 for Progress Payment Number 1

						(1) Total Completed Through this Period		(2) Total Completed Through Previous Periods		(3) Completed This Period	
Item	Description	Unit	Bidding Estimated Quantity	Unit Price	Extension	Quantity	Amount	Quantity	Amount	Quantity	Amount
A	Mobilization/Demobilization	LS	1	\$ 41,064.45	\$ 41,064.45	1	\$ 41,064.45	0	\$ -	1	\$ 41,064.45
B	Traffic and Pedestrian Safety Control Measures	LS	1	\$ 25,156.95	\$ 25,156.95	1	\$ 25,156.95	0	\$ -	1	\$ 25,156.95
C	Existing Utility Relocation Coordination	LS	1	\$ 8,097.60	\$ 8,097.60	1	\$ 8,097.60	0	\$ -	1	\$ 8,097.60
D	Construction Layout and Staking	LS	1	\$ 18,274.20	\$ 18,274.20	1	\$ 18,274.20	0	\$ -	1	\$ 18,274.20
E	Inlet Protection (P)	EA	15	\$ 131.25	\$ 1,968.75	15	\$ 1,968.75	0	\$ -	15	\$ 1,968.75
F	Mulch/Rock Filter Biolog	LF	704	\$ 4.88	\$ 3,435.52	850	\$ 4,148.00	0	\$ -	850	\$ 4,148.00
G	Silt Fence	LF	206	\$ 5.25	\$ 1,081.50	224	\$ 1,176.00	0	\$ -	224	\$ 1,176.00
H	Street Sweeping	HR	20	\$ 176.40	\$ 3,528.00	15	\$ 2,646.00	0	\$ -	15	\$ 2,646.00
I	Removal and Disposal of Tree less than 7-inch Diameter	EA	7	\$ 39.38	\$ 275.66	4	\$ 157.52	0	\$ -	4	\$ 157.52
J	Sawcut Bituminous Pavement (Full Depth) (P)	LF	1,697	\$ 3.88	\$ 6,584.36	1697	\$ 6,584.36	0	\$ -	1697	\$ 6,584.36
K	Remove and Dispose of Concrete Curb & Gutter	LF	178	\$ 4.39	\$ 781.42	196	\$ 860.44	0	\$ -	196	\$ 860.44
L	Remove and Dispose of 6-inch Bituminous Pavement (P)	SY	2,965	\$ 3.33	\$ 9,873.45	2965	\$ 9,873.45	0	\$ -	2965	\$ 9,873.45
M	Remove and Salvage Class 5 Aggregate (P)	CY	421	\$ 20.63	\$ 8,685.23	421	\$ 8,685.23	0	\$ -	421	\$ 8,685.23
N	Remove and Dispose of Existing RC Storm Sewer Pipe (12-inch to 24-inch)	LF	66	\$ 38.70	\$ 2,554.20	66	\$ 2,554.20	0	\$ -	66	\$ 2,554.20
O	Remove and Dispose of Existing Storm Sewer Manhole	EA	2	\$ 742.88	\$ 1,485.76	2	\$ 1,485.76	0	\$ -	2	\$ 1,485.76
P	Remove and Salvage Existing Topsoil (P)	CY	127	\$ 7.66	\$ 972.82	127	\$ 972.82	0	\$ -	127	\$ 972.82
Q	Common Excavation (P)	CY	4,415	\$ 5.42	\$ 23,929.30	4507	\$ 24,427.94	0	\$ -	4507	\$ 24,427.94
R	Dispose Excavated Material Offsite (P)	CY	3,119	\$ 12.83	\$ 40,016.77	3211	\$ 41,197.13	0	\$ -	3211	\$ 41,197.13
S	Soil Loosening - 18-inch Depth (P)	SY	1,283	\$ 0.89	\$ 1,141.87	1283	\$ 1,141.87	0	\$ -	1283	\$ 1,141.87
T	Replace Salvaged Class 5 Aggregate Base (P)	CY	314	\$ 48.61	\$ 15,263.54	314	\$ 15,263.54	0	\$ -	314	\$ 15,263.54
U	Replace Salvaged Topsoil (P)	CY	127	\$ 0.01	\$ 1.27	127	\$ 1.27	0	\$ -	127	\$ 1.27
V	Furnish and Install Class 5 Aggregate Base	TON	1	\$ 92.35	\$ 92.35	0	\$ -	0	\$ -	0	\$ -
W	Furnish and Install Topsoil	CY	250	\$ 51.23	\$ 12,807.50	0	\$ -	0	\$ -	0	\$ -
X	Bituminous Base Course 4-inch thick (P)	SY	1,884	\$ 25.20	\$ 47,476.80	1884	\$ 47,476.80	0	\$ -	1884	\$ 47,476.80
Y	Bituminous Wearing Course 2-inch thick (P)	SY	1,884	\$ 13.13	\$ 24,736.92	1884	\$ 24,736.92	0	\$ -	1884	\$ 24,736.92
Z	Tack Coat (P)	SY	1,884	\$ 0.01	\$ 18.84	1884	\$ 18.84	0	\$ -	1884	\$ 18.84

Target North St. Paul Stormwater Retrofits
Ramsey-Washington Metro Watershed District
Summary of Work Completed Through September 17, 2021 for Progress Payment Number 1

						(1) Total Completed Through this Period		(2) Total Completed Through Previous Periods		(3) Completed This Period	
Item	Description	Unit	Bidding Estimated Quantity	Unit Price	Extension	Quantity	Amount	Quantity	Amount	Quantity	Amount
AA	B6-12 Concrete Curb & Gutter	LF	487	\$ 31.57	\$ 15,374.59	582	\$ 18,373.74	0	\$ -	582	\$ 18,373.74
BB	Tip out Concrete Curb & Gutter	LF	84	\$ 32.42	\$ 2,723.28	84	\$ 2,723.28	0	\$ -	84	\$ 2,723.28
CC	Concrete Swale (P)	SY	42	\$ 52.92	\$ 2,222.64	42	\$ 2,222.64	0	\$ -	42	\$ 2,222.64
DD	Painted Pavement Marking	LS	1	\$ 1,020.60	\$ 1,020.60	1	\$ 1,020.60	0	\$ -	1	\$ 1,020.60
EE	48-inch Dia. Pre-cast Storm Sewer Manhole, Complete	EA	8	\$ 3,999.91	\$ 31,999.28	8	\$ 31,999.28	0	\$ -	8	\$ 31,999.28
FF	60-inch Dia. Pre-cast Storm Sewer Manhole w/ Weir, Complete	EA	1	\$ 5,496.75	\$ 5,496.75	1	\$ 5,496.75	0	\$ -	1	\$ 5,496.75
GG	84-inch Dia. Pre-cast Storm Sewer Manhole w/ Weir, Complete	EA	3	\$ 16,498.04	\$ 49,494.12	3	\$ 49,494.12	0	\$ -	3	\$ 49,494.12
HH	3-foot x 2-foot Catch Basin with Sump, Complete	EA	5	\$ 3,557.03	\$ 17,785.15	5	\$ 17,785.15	0	\$ -	5	\$ 17,785.15
II	12-inch Dia. Nyloplast® Storm Sewer Structure, Complete	EA	3	\$ 1,779.84	\$ 5,339.52	3	\$ 5,339.52	0	\$ -	3	\$ 5,339.52
JJ	24-inch RC Storm Sewer Pipe	LF	8	\$ 87.74	\$ 701.92	0	\$ -	0	\$ -	0	\$ -
KK	21-inch RC Storm Sewer Pipe	LF	8	\$ 81.18	\$ 649.44	0	\$ -	0	\$ -	0	\$ -
LL	18-inch RC Storm Sewer Pipe	LF	233	\$ 44.48	\$ 10,363.84	233	\$ 10,363.84	0	\$ -	233	\$ 10,363.84
MM	15-inch RC Storm Sewer Pipe	LF	16	\$ 50.04	\$ 800.64	0	\$ -	0	\$ -	0	\$ -
NN	12-inch RC Storm Sewer Pipe	LF	8	\$ 44.46	\$ 355.68	8	\$ 355.68	0	\$ -	8	\$ 355.68
OO	10-inch DI Storm Sewer Pipe	LF	70	\$ 103.88	\$ 7,271.60	70	\$ 7,271.60	0	\$ -	70	\$ 7,271.60
PP	12-inch Perforated CPE Drintile Pipe and Fittings, no sock (P)	LF	485	\$ 18.97	\$ 9,200.45	485	\$ 9,200.45	0	\$ -	485	\$ 9,200.45
QQ	12-inch Solid CPE Drintile Pipe and Fittings (P)	LF	20	\$ 26.91	\$ 538.20	20	\$ 538.20	0	\$ -	20	\$ 538.20
RR	6-inch Perforated Dual Wall HDPE Drintile Pipe and Fittings, no sock (P)	LF	323	\$ 6.26	\$ 2,021.98	323	\$ 2,021.98	0	\$ -	323	\$ 2,021.98
SS	6-inch PVC Storm Sewer Pipe and Fittings (P)	LF	321	\$ 16.77	\$ 5,383.17	321	\$ 5,383.17	0	\$ -	321	\$ 5,383.17
TT	6-inch Drintile Cleanout and Cover Unit	EA	7	\$ 805.50	\$ 5,638.50	7	\$ 5,638.50	0	\$ -	7	\$ 5,638.50
UU	Clean Washed Sand with 5 percent Iron Aggregate (P)	CY	97	\$ 235.60	\$ 22,853.20	97	\$ 22,853.20	0	\$ -	97	\$ 22,853.20
VV	Small Splash Block Assembly (Pipe Discharge)	EA	6	\$ 1,937.43	\$ 11,624.58	5	\$ 9,687.15	0	\$ -	5	\$ 9,687.15
WW	Wet Cast Modular Block Retaining Wall, Complete	SFF	836	\$ 85.77	\$ 71,703.72	836	\$ 71,703.72	0	\$ -	836	\$ 71,703.72
XX	Metal Hand Rail	LF	157	\$ 132.30	\$ 20,771.10	0	\$ -	0	\$ -	0	\$ -
YY	Twice Shredded Hardwood Mulch (P)	CY	152	\$ 85.05	\$ 12,927.60	152	\$ 12,927.60	0	\$ -	152	\$ 12,927.60
ZZ	Planting Soil (75% sand, 25% leaf compost - MnDOT Grade II) (P)	CY	281	\$ 59.15	\$ 16,621.15	250	\$ 14,787.50	0	\$ -	250	\$ 14,787.50

Target North St. Paul Stormwater Retrofits
Ramsey-Washington Metro Watershed District
Summary of Work Completed Through September 17, 2021 for Progress Payment Number 1

						(1) Total Completed Through this Period		(2) Total Completed Through Previous Periods		(3) Completed This Period	
Item	Description	Unit	Bidding Estimated Quantity	Unit Price	Extension	Quantity	Amount	Quantity	Amount	Quantity	Amount
AAA	2-inch to 4-inch Clean Washed Angular Rock (Granite)	TON	930	\$ 43.13	\$ 40,110.90	953	\$ 41,102.89	0	\$ -	953	\$ 41,102.89
BBB	Filtration Soil Washed into 2-inch to 4-inch Rock (P)	CY	104	\$ 85.09	\$ 8,849.36	82	\$ 6,977.38	0	\$ -	82	\$ 6,977.38
CCC	1/4-inch Clean Washed Chip (Granite)	TON	87	\$ 86.14	\$ 7,494.18	231	\$ 19,898.34	0	\$ -	231	\$ 19,898.34
DDD	3/4-inch Clean Washed Chip (Granite)	TON	43	\$ 67.09	\$ 2,884.87	122	\$ 8,184.98	0	\$ -	122	\$ 8,184.98
EEE	MnDOT Type V Geotextile Filter Fabric (P)	SY	758	\$ 1.32	\$ 1,000.56	1128	\$ 1,488.96	0	\$ -	1128	\$ 1,488.96
FFF	Pre-cast Concrete Tree Box with Concrete Frame	EA	9	\$ 2,403.51	\$ 21,631.59	9	\$ 21,631.59	0	\$ -	9	\$ 21,631.59
GGG	Tree Guard	EA	9	\$ 926.68	\$ 8,340.12	9	\$ 8,340.12	0	\$ -	9	\$ 8,340.12
HHH	Tree Grate	EA	9	\$ 2,049.72	\$ 18,447.48	9	\$ 18,447.48	0	\$ -	9	\$ 18,447.48
III	Snout Separator	EA	2	\$ 994.88	\$ 1,989.76	2	\$ 1,989.76	0	\$ -	2	\$ 1,989.76
JJJ	4-inch Trench Drain with Concrete Encasement and Herringbone Grate, Complete	LF	53	\$ 230.75	\$ 12,229.75	53	\$ 12,229.75	0	\$ -	53	\$ 12,229.75
KKK	Perennials - 1 Gallon Pot (P)	EA	4,931	\$ 16.54	\$ 81,558.74	0	\$ -	0	\$ -	0	\$ -
LLL	Shrub (#2 Gallon Container) (P)	EA	281	\$ 37.80	\$ 10,621.80	0	\$ -	0	\$ -	0	\$ -
MMM	Deciduous Tree (#20, Cont.) (P)	EA	17	\$ 472.50	\$ 8,032.50	0	\$ -	0	\$ -	0	\$ -
NNN	Sodding (Salt Tolerant)	SY	125	\$ 18.90	\$ 2,362.50	0	\$ -	0	\$ -	0	\$ -
OOO	Landscape Edging	LF	200	\$ 11.36	\$ 2,272.00	0	\$ -	0	\$ -	0	\$ -
C.O.1.B	ADA Paring Space Relocation	LS	1	\$ 2,333.55	\$ 2,333.55	1	\$ 2,333.55	0	\$ -	1	\$ 2,333.55
C.O.3.A	Large Splash Block Assembly	EA	1	\$ 3,908.10	\$ 3,908.10	1	\$ 3,908.10	0	\$ -	1	\$ 3,908.10
C.O.3.B	18" RCP FES	EA	1	\$ 2,211.57	\$ 2,211.57	0	\$ -	0	\$ -	0	\$ -
TOTAL BASE BID					\$ 866,467.06		\$ 741,690.61		\$ -		\$ 741,690.61

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

Page: 1
September 22, 2021
File No: 9M

	Balance
General Account	\$3,578.60
Markham Pond	\$678.10
	<u>\$4,256.70</u>

Permit Application Coversheet

Date October 06, 2021

Project Name Lower Afton Apartments

Project Number 21-29

Applicant Name Alex Bisanz, Real Estate Equities

Type of Development Residential

Property Description

This project is located west of Lower Afton Road and Londin Lane in the City of Maplewood. The applicant is proposing to redevelop the site by demolishing the existing fire station in order to construct an apartment building with associated parking and utilities. The total site area is 5.53 acres. A filtration basin is proposed to meet stormwater treatment requirements. Filtration is being proposed due to poor soils, contamination, and high groundwater. An impermeable liner is proposed at the bottom of the basin.

Watershed District Policies or Standards Involved:

- | | |
|--|---|
| <input type="checkbox"/> <i>Wetlands</i> | <input checked="" type="checkbox"/> <i>Erosion and Sediment Control</i> |
| <input checked="" type="checkbox"/> <i>Stormwater Management</i> | <input type="checkbox"/> <i>Floodplain</i> |

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.

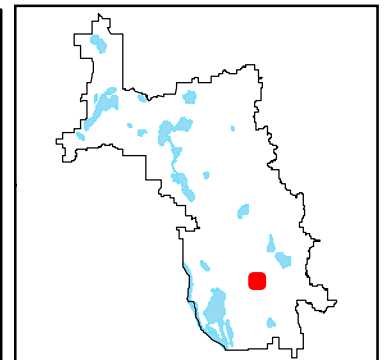
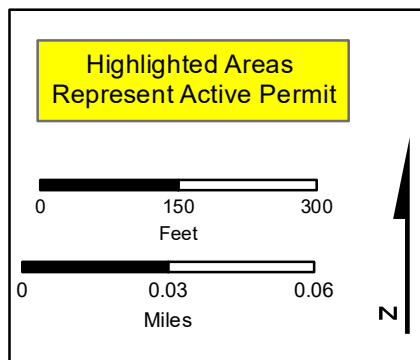
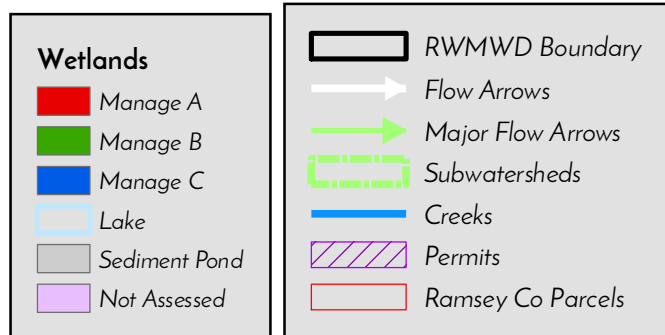
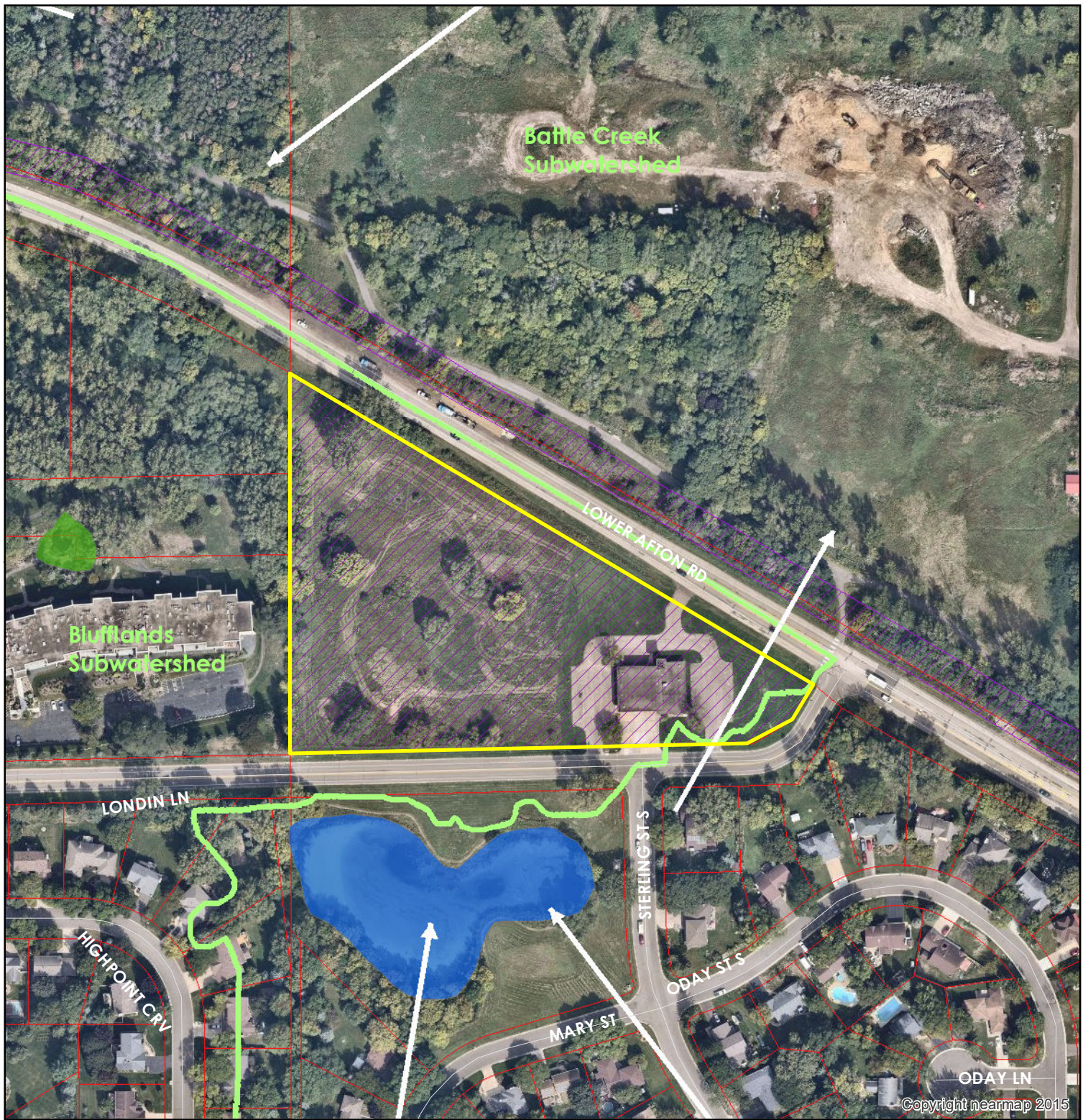
Staff Recommendation

Staff recommends approval of this permit with the special provisions.

Attachments:

- ☒ Project Location Map
- ☒ Project Grading Plan

#21-29 Lower Afton Apartments



Special Provisions

1. The applicant shall submit the escrow fee of \$27,650.
2. The applicant shall submit the final, signed plans set.
3. The applicant shall submit the draft, site-specific BMP Operations & Maintenance Plan.
4. The applicant shall submit the executed joint maintenance agreement with the City of Maplewood.
5. The applicant shall submit contact information for the trained erosion control coordinator responsible for implementing the SWPPP.
6. The applicant shall submit a copy of the MPCA's NPDES Construction Permit coverage for the project.

Client
**REAL ESTATE
EQUITIES**

579 SELBY AVE
ST. PAUL, MN 55102

Project
**LOWER AFTON
APARTMENTS**

Location
MAPLEWOOD

2501 LONDIN LANE E
MAPLEWOOD, MN 55119

Certification
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.

Brian W. Frank
Registration No. 5528 Date: 03/13/2021
If applicable, I have provided a true and correct copy of this plan and specification to the owner and have retained a copy of this plan and specification for a period of three years.

Summary
Designed by: Drawn by: JSP
Approved by: JSP Book / Page:
Phase: PRELIMINARY Initial Issue: 04/19/2021

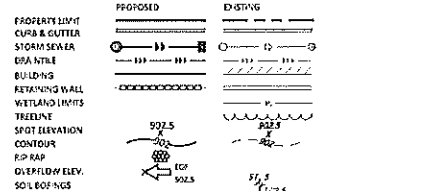
Revision History
No. Date By Submittal / Revision
001/21 JSP CERTIFICATE APPLICATION
002/21 JSP PRELIMINARY APPLICATION
003/21 JSP PRELIMINARY RESPONSE

Sheet Title
GRADING PLAN

Sheet No. Revision
C4.01

Project No. 50214

LEGEND

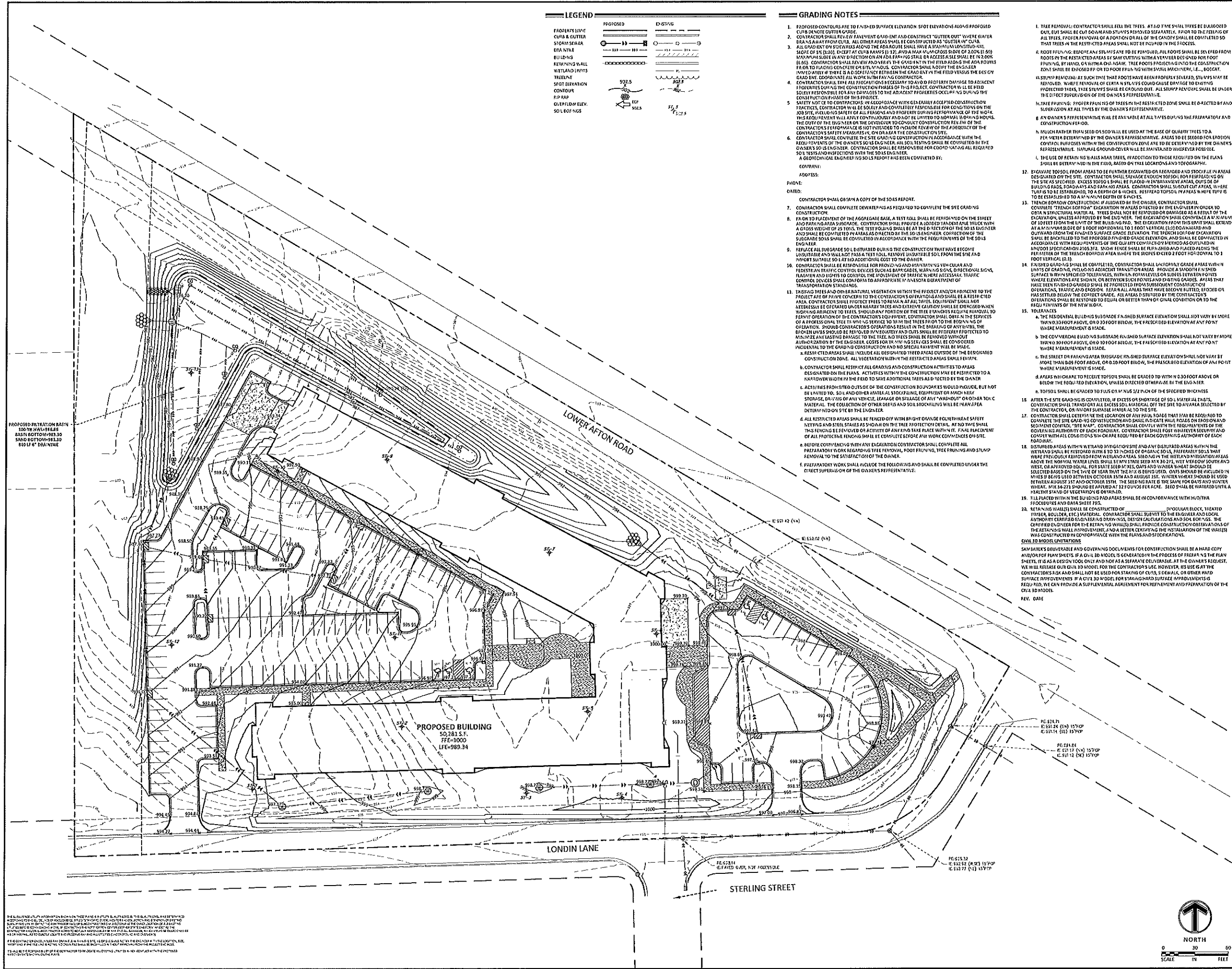


GRADING NOTES

1. EXISTING CONDITIONS ARE TO FINISHED SURFACE ELEVATION. SPOT ELEVATIONS ALONG PROPOSED CURBS DENOTE GUTTER GRADE.
 2. CONTRACTOR SHALL REVIEW EXISTING GRADE AND CONSTRUCT "GUTTER CUT" WHERE WATER DRAINS AWAY FROM CURB. ALL CORNER AREAS SHALL BE CONSTRUCTED AS "GUTTER CUT" CURB.
 3. ALL GRADING ON SIDEWALKS ALONG THE ADA ROUTE SHALL HAVE A MAXIMUM LONGITUDINAL SLOPE OF 3% (1:33), EXCEPT AT CURB RAMP (1:12), AND A MAXIMUM CROSS SLOPE OF 2.00% (1:50). CONTRACTOR SHALL REVIEW AND VERIFY THE GRADIENT IN THE FIELD ALONG THE ADA ROUTES FROM TO PLACING CONCRETE ON SITE. CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IF THERE IS A DISCREPANCY BETWEEN THE GRADIENT IN THE FIELD VERSUS THE DESIGN GRADIENT. COORDINATE ALL WORK WITH THE CONTRACTOR.
 4. CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO AVOID PROPERTY DAMAGE TO ADJACENT PROPERTIES DURING THE CONSTRUCTION PHASES OF THIS PROJECT. CONTRACTOR WILL BE HELD SOLELY RESPONSIBLE FOR ANY DAMAGES TO THE ADJACENT PROPERTIES OCCURRING DURING THE CONSTRUCTION PHASES OF THIS PROJECT.
 5. SAFETY NOTICE TO CONTRACTORS: IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS ON THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS RESPONSIBILITY WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE DUTY OF THE ENGINEER ON THE JOB SITE TO CONDUCT CONSTRUCTION REVIEW OF THE CONTRACTOR'S PERFORMANCE IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES, OR TO IMPAIR THE CONSTRUCTION SITE.
 6. CONTRACTOR SHALL CONDUCT THE SITE GRADING CONSTRUCTION IN ACCORDANCE WITH THE REQUIREMENTS OF THE OWNER'S SOILS ENGINEER. ALL SOIL TESTING SHALL BE COMPLETED BY THE OWNER'S SOILS ENGINEER. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL REQUIRED SOIL TESTS AND INSPECTIONS WITH THE SOILS ENGINEER. A GEOLOGICAL ENGINEERING SOILS REPORT HAS BEEN COMPLETED BY:
- CONTRACTOR: _____
- ADDRESS: _____
- PHONE: _____
- DATED: _____
- CONTRACTOR SHALL OBTAIN A COPY OF THE SOILS REPORT.
7. CONTRACTOR SHALL COMPLETE DRAWINGS AS REQUIRED TO COMPLETE THE SITE GRADING CONSTRUCTION.
 8. PRIOR TO PLACEMENT OF THE AGGREGATE BASE, A TEST SHALL BE PERFORMED ON THE STREET AND PARKING AREA SURFACE. CONTRACTOR SHALL PROVIDE A LOADED TACKLEABLE TRUCK WITH A GROSS WEIGHT OF 15 TONS. THE TEST SHALL BE AT THE DISCRETION OF THE SOILS ENGINEER AND SHALL BE COMPLETED IN AREAS AS DIRECTED BY THE SOILS ENGINEER. CORRECTION OF THE SUBGRADE SOILS SHALL BE COMPLETED IN ACCORDANCE WITH THE REQUIREMENTS OF THE SOILS ENGINEER.
 9. REPLACE ALL SUBGRADE SOIL DISTURBED DURING THE CONSTRUCTION THAT HAVE BECOME UNSUITABLE AND WILL NOT PASS A TEST SHALL REMOVE UNSUITABLE SOIL FROM THE SITE AND IMPORT SUITABLE SOIL AT NO ADDITIONAL COST TO THE OWNER.
 10. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING VEHICULAR AND PEDESTRIAN TRAFFIC CONTROL DEVICES SUCH AS BARRICADES, WARNING SIGNS, DIRECTIONAL SIGNS, FLAGMEN AND LIGHTS TO CONTROL THE MOVEMENT OF TRAFFIC WHERE NECESSARY. TRAFFIC CONTROL DEVICES SHALL CONFORM TO APPROPRIATE MINNESOTA DEPARTMENT OF TRANSPORTATION STANDARDS.
 11. TAKING TREES AND OTHER NATURAL VEGETATION WITHIN THE PROJECT AND/OR ADJACENT TO THE PROJECT ARE OF PRIME CONCERN TO THE CONTRACTOR'S OPERATIONS AND SHALL BE A RESTRICTED AREA. CONTRACTOR SHALL PROTECT TREES TO REMAIN AT ALL TIMES. EQUIPMENT SHALL NOT INTERFERE OR OPERATE UNDER NEARBY TREES AND EXTREME CAUTION SHALL BE EXERCISED WHEN WORKING ADJACENT TO TREES. SHOULD ANY PORTION OF THE TREE TRUNKS REQUIRE REMOVAL TO PERMIT OPERATION OF THE CONTRACTOR'S EQUIPMENT, CONTRACTOR SHALL OBTAIN THE SERVICES OF A PROFESSIONAL TREE TRIMMING SERVICE TO TRIM THE TREES PRIOR TO THE BEGINNING OF OPERATION. SHOULD CONTRACTOR'S OPERATIONS RESULT IN THE REMOVAL OF ANY TREES, THE REMOVAL SHALL BE REMOVED IMMEDIATELY AND CUTS SHALL BE PROPERLY PROTECTED TO MINIMIZE ANY LASTING DAMAGE TO THE TREE. NO TREES SHALL BE REMOVED WITHOUT AUTHORIZATION BY THE ENGINEER. COSTS FOR TRIMMING SERVICES SHALL BE CONSIDERED INCIDENTAL TO THE GRADING CONSTRUCTION AND NO SPECIAL PAYMENT WILL BE MADE.
 12. RESTRICTED AREAS SHALL INCLUDE ALL DESIGNATED TREED AREAS OUTSIDE OF THE DESIGNATED CONSTRUCTION ZONE. ALL VEGETATION WITHIN THE RESTRICTED AREAS SHALL REMAIN.
 13. CONTRACTOR SHALL RESTRICT ALL GRADING AND CONSTRUCTION ACTIVITIES TO AREAS DESIGNATED ON THE PLANS. ACTIVITIES WITHIN THE CONSTRUCTION MAY BE RESTRICTED TO A NARROWER WIDTH IN THE FIELD TO SAVE ADDITIONAL TREES AS DIRECTED BY THE OWNER.
 14. ACTIVITIES FROM SITES OUTSIDE OF THE CONSTRUCTION BOUNDARIES WOULD INCLUDE, BUT NOT BE LIMITED TO, SOIL AND OTHER MATERIAL STOCKPILING, EQUIPMENT STORAGE, WAREHOUSE, DRIVING OF ANY VEHICLE, LEAKAGE OR SPILLAGE OF ANY "WASHOUT" OR OTHER TOXIC MATERIAL. THE COLLECTION OF OTHER DEBRIS AND SOIL STOCKPILING WILL BE IN AN AREA DETERMINED ON SITE BY THE ENGINEER.
 15. ALL RESTRICTED AREAS SHALL BE FENCED OFF WITH BRIGHT ORANGE POLYETHYLENE SAFETY NETTING AND STEEL STAKES AS SHOWN ON THE TREE PROTECTION DETAIL. AT NO TIME SHALL THIS FENCING BE REMOVED OR ACTIVELY AND KNOCKED DOWN OR PLACED WITHIN IT. FINAL PLACEMENT OF ALL PROTECTIVE FENCING SHALL BE COMPLETE BEFORE ANY WORK COMMENCES ON-SITE.
 16. BEFORE COMMENCING WITH ANY EXCAVATION CONTRACTOR SHALL COMPLETE ALL PREPARATION WORK REGARDING THE PROPOSED FOOT FRUNING, TREE PRUNING AND STUMP REMOVAL TO THE SATISFACTION OF THE OWNER.
 17. PREPARATORY WORK SHALL INCLUDE THE FOLLOWING AND SHALL BE COMPLETED UNDER THE DIRECT SUPERVISION OF THE OWNER'S REPRESENTATIVE:

1. TREE REMOVAL: CONTRACTOR SHALL FELL THE TREES. AT NO TIME SHALL TREES BE BURNED OUT, BUT SHALL BE CUT DOWN AND STUMPS REMOVED SEPARATELY. PRIOR TO THE FELLING OF ALL TREES, PROPER REMOVAL OF A PORTION OR ALL OF THE CANOPY SHALL BE COMPLETED SO THAT TREES IN THE RESTRICTED AREAS SHALL NOT BE INCLUDED IN THE PROCESS.
2. ROOT PRUNING: BEFORE ANY STUMP IS FELL TO BE PRUNED, ALL ROOTS SHALL BE SEVERED FROM ROOTS IN THE RESTRICTED AREAS BY SAW CUTTING WITH A TRAILER DESIGNED FOR FOOT FRUNING, BY HAND, OR WITH A CHAIN SAW. TREE ROOTS PROJECTING INTO THE CONSTRUCTION ZONE SHALL BE EXPOSED PRIOR TO FOOT FRUNING WITH SMALL MACHINERY, I.E., BOGAT.
3. STUMP REMOVAL: AT SUCH TIME THAT ROOTS HAVE BEEN PROPERLY SEVERED, STUMPS MAY BE REMOVED. WHERE REMOVAL OF CERTAIN STUMPS COULD CAUSE DAMAGE TO EXISTING PROTECTED TREES, THE STUMPS SHALL BE GROUND OUT. ALL STUMP REMOVAL SHALL BE UNDER THE DIRECT SUPERVISION OF THE OWNER'S REPRESENTATIVE.
4. TREE PRUNING: PROPER PRUNING OF TREES IN THE RESTRICTED ZONE SHALL BE DIRECTED BY AND SUPERVISION AT ALL TIMES BY THE OWNER'S REPRESENTATIVE.
5. AN OWNER'S REPRESENTATIVE WILL BE AVAILABLE AT ALL TIMES DURING THE PREPARATORY AND CONSTRUCTION PERIOD.
6. INSTEAD OF TREES THAT ARE TO BE REMOVED, THE USE OF QUALITY TREES TO A PERMITS DETERMINED BY THE OWNER'S REPRESENTATIVE. AREAS TO BE SEED FOR EROSION CONTROL, PURPOSES WITHIN THE CONSTRUCTION ZONE ARE TO BE DETERMINED BY THE OWNER'S REPRESENTATIVE. NATURAL GROUND COVER WILL BE MAINTAINED WHEREVER POSSIBLE.
7. THE USE OF FERTILIZER SHALL BE BASED ON THE RECOMMENDATIONS OF THE PLANS. SHALL BE ESTABLISHED IN THE FIELD, BASED ON TREE LOCATION AND TOPOGRAPHY.
8. EXCAVATE TOPSOIL FROM AREAS TO BE FURTHER EXCAVATED OR REGRADED AND STOCKPILE IN AREAS DESIGNATED ON THE SITE. CONTRACTOR SHALL SALVAGE ENOUGH TOPSOIL FOR REAPPLICATION ON THE SITE AS SPECIFIED. EXCESS TOPSOIL SHALL BE PLACED IN TEMPORARY AREAS, OUTSIDE OF BUILDING FOOTPRINTS AND PARKING AREAS. CONTRACTOR SHALL SUBMIT CUT AREA, WHERE TOPSOIL IS TO BE ESTABLISHED, TO A DEPTH OF 6 INCHES. REAPPLICATION OF TOPSOIL IN AREAS WHERE TOPSOIL IS TO BE ESTABLISHED TO A MINIMUM DEPTH OF 6 INCHES.
9. TRENCH EROSION CONSTRUCTION: IF ALLOWED BY THE OWNER, CONTRACTOR SHALL COMPLETE "TRENCH EROSION" EXCAVATION IN AREAS DIRECTED BY THE ENGINEER IN ORDER TO OBTAIN A STRUCTURAL MATTER. TREES SHALL NOT BE REMOVED OR DAMAGED AS A RESULT OF THE EXCAVATION, UNLESS APPROVED BY THE ENGINEER. THE EXCAVATION SHALL COMPLY WITH A MINIMUM OF 10 FEET FROM THE FRONT OF THE BUILDING PAD. THE EXCAVATION FROM THIS FRONT SHALL EXTEND AT A MINIMUM SLOPE OF 1 FOOT HORIZONTAL TO 1 FOOT VERTICAL (1:1) DOWNWARD AND OUTWARD FROM THE FINISHED SURFACE GRADE ELEVATION. THE TRENCH EROSION EXCAVATION SHALL BE BACKFILLED TO THE FINISHED FINISHED GRADE ELEVATION, AND SHALL BE COMPLETED IN ACCORDANCE WITH REQUIREMENTS OF THE CLUMP COMPACTION METHOD AS OUTLINED IN ANNOTATED SPECIFICATION 2103.12.2. SLOPE FENCE SHALL BE REPAIRED AND PLACED ALONG THE PERIMETER OF THE TRENCH EROSION AREA WHERE THE SLOPE EXCEEDS 1 FOOT HORIZONTAL TO 1 FOOT VERTICAL (1:1).
10. FINISHED GRADING SHALL BE COMPLETED, CONTRACTOR SHALL UNIFORM GRADE AREAS WITHIN UNITS OF GRADING, INCLUDING ADJACENT TRANSITION AREAS. PROVIDE A SMOOTH FINISHED SURFACE WITHIN SPECIFIED TOLERANCES, WITH UNIFORM LEVELS ON SLOPES BETWEEN POINTS WHERE ELEVATIONS ARE SHOWN, OR BETWEEN SURFACE POINTS AND EXISTING GRADIES. AREAS THAT HAVE BEEN FINISHED GRADIED SHALL BE PROTECTED FROM SUBSEQUENT CONSTRUCTION OPERATIONS, TRAFFIC AND EROSION. REPAIR ALL AREAS THAT HAVE BECOME RUINED, ERODED OR HAS SETTLED BELOW THE CORRECT GRADE. ALL AREAS DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED TO EQUAL OR BETTER THAN ORIGINAL CONDITION OR TO THE REQUIREMENTS OF THE NEW WORK.
11. TOLERANCES:
 - a. THE RESIDENTIAL BUILDING SUBGRADE FINISHED SURFACE ELEVATION SHALL NOT VARY BY MORE THAN 0.30 FOOT ABOVE, OR 0.30 FOOT BELOW, THE PRESCRIBED ELEVATION AT ANY POINT WHERE MEASUREMENT IS MADE.
 - b. THE COMMERCIAL BUILDING SUBGRADE FINISHED SURFACE ELEVATION SHALL NOT VARY BY MORE THAN 0.30 FOOT ABOVE, OR 0.30 FOOT BELOW, THE PRESCRIBED ELEVATION AT ANY POINT WHERE MEASUREMENT IS MADE.
 - c. THE STREET OR PARKING AREA SUBGRADE FINISHED SURFACE ELEVATION SHALL NOT VARY BY MORE THAN 0.30 FOOT ABOVE, OR 0.30 FOOT BELOW, THE PRESCRIBED ELEVATION OF ANY POINT WHERE MEASUREMENT IS MADE.
12. AREAS WHICH ARE TO RECEIVE TOPSOIL SHALL BE GRADED TO WITHIN 0.30 FOOT ABOVE OR BELOW THE REQUIRED ELEVATION, UNLESS DIRECTED OTHERWISE BY THE ENGINEER.
13. TOPSOIL SHALL BE GRADED TO PLUS OR MINUS 1/2 INCH OF THE SPECIFIED THICKNESS.
14. AFTER THE SITE GRADING IS COMPLETED, IF EXCESS OR SHORTAGE OF SOIL MATERIAL EXISTS, CONTRACTOR SHALL TRANSPORT ALL EXCESS SOIL MATERIAL OFF THE SITE TO AN AREA SELECTED BY THE CONTRACTOR, OR AS DIRECTED OTHERWISE BY THE ENGINEER.
15. CONTRACTOR SHALL DETERMINE THE LOCATION OF ANY PAUL ROADS THAT MAY BE REQUIRED TO COMPLETE THE SITE GRADING CONSTRUCTION AND SHALL LOCATE PAUL ROADS ON EROSION AND EROSION CONTROL "SITE MAP". CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE GOVERNMENT'S AUTHORITY OF EACH ROADWAY. CONTRACTOR SHALL FORT WHATEVER SECURITY AND LOCATE WITH ALL CONDITIONS WHICH ARE REQUIRED BY EACH GOVERNING AUTHORITY OF EACH ROADWAY.
16. DISTURBED AREAS WITHIN WETLANDS AND/OR OTHER AREAS SHALL BE RESTORED TO ORIGINAL CONDITION OR BETTER. PREVIOUSLY EXISTING FROM WETLAND AREAS, INCLUDING THE WETLANDS AND/OR OTHER AREAS ABOVE THE NORMAL WATER LEVEL SHALL BE REFINISHED WITH MIX 30-271, VERT WEEDING SOUTH AND WEST, OR APPROVED EQUAL, FOR STATE DEER PASTURE, OATS AND WINTER WHEAT SHOULD BE SELECTED BASED ON THE TYPE OF YEAR THAT THE MIX IS USED. OATS SHOULD BE INCLUDED IN MIXES PLANTING BETWEEN OCTOBER 15TH AND AUGUST 1ST. WINTER WHEAT SHOULD BE INCLUDED BETWEEN AUGUST 1ST AND OCTOBER 15TH. THE SEEDING RATE IS THE SHARE FOR OATS AND WINTER WHEAT. MIX 30-271 SHOULD BE APPLIED AT 12 POUNDS PER ACRE. SEED SHALL BE WATERED UNTIL A PERMANENT STAND OF VEGETATION IS OBTAINED.
17. FILL PLACED WITHIN THE BUILDING PAD AREAS SHALL BE IN CONFORMANCE WITH MINNAPOLIS PROCEDURES AND DATA SHEET 701.
18. RETAINING WALLS SHALL BE CONSTRUCTED OF PRECAST CONCRETE. CONTRACTOR SHALL SUBMIT TO THE ENGINEER AND LOCAL AUTHORITY CERTIFIED ENGINEERING DRAWINGS, DESIGN CALCULATIONS AND SOIL BORINGS. THE CERTIFIED ENGINEER FOR THE RETAINING WALLS SHALL PROVIDE CONSTRUCTION OBSERVATIONS OF THE RETAINING WALL IMPROVEMENT, AND A LETTER CERTIFYING THE INSTALLATION OF THE WALLS) WAS CONSTRUCTED IN CONFORMANCE WITH THE PLANS AND SPECIFICATIONS.

ONE 3D MODEL CONSTRUCTION
SAMBATEK'S DELIVERABLE AND GOVERNING DOCUMENTS FOR CONSTRUCTION SHALL BE A HARD COPY AND/OR PDF PLANS SHEETS. IF A CIVIL 3D MODEL IS GENERATED IN THE PROCESS OF PREPARING THE PLANS SHEETS, IT IS AS A DESIGN TOOL ONLY AND NOT AS A SEPARATE DELIVERABLE. AT THE OWNER'S REQUEST, WE WILL RELEASE OUR CIVIL 3D MODEL FOR THE CONTRACTOR'S USE. HOWEVER, ITS USE IS AT THE CONTRACTOR'S RISK AND SHALL NOT BE USED FOR STAKING OF CURBS, SIDEWALKS, OR OTHER HARD SURFACE IMPROVEMENTS. IF A CIVIL 3D MODEL FOR STAKING HARD SURFACE IMPROVEMENTS IS REQUIRED, WE CAN PROVIDE A SUPPLEMENTAL AGREEMENT FOR RETINEMENT AND PREPARATION OF THE CIVIL 3D MODEL.
REV. DATE



THE SURFACE ELEVATION INFORMATION SHOWN ON THESE PLANS IS A PRELIMINARY DESIGN. THIS SURFACE ELEVATION INFORMATION IS NOT TO BE USED FOR CONSTRUCTION. THE SURFACE ELEVATION INFORMATION SHOWN ON THESE PLANS IS A PRELIMINARY DESIGN. THIS SURFACE ELEVATION INFORMATION IS NOT TO BE USED FOR CONSTRUCTION. THE SURFACE ELEVATION INFORMATION SHOWN ON THESE PLANS IS A PRELIMINARY DESIGN. THIS SURFACE ELEVATION INFORMATION IS NOT TO BE USED FOR CONSTRUCTION.

Stewardship Grant Application Summary

Project Name: Loewen

Application Number: 21-33 CS

Board Meeting Date: 10/6/2021

Applicant Name: Jacob Loewen

Residential ☒

Commercial/Government ☐

Project Overview:

This project is located at a property on Snail Lake that was interested in being part of our restoration program last year but conditions were not conducive to a restoration at the time. Now that water levels have gone down, the homeowner is prepared to move forward with a native shoreline restoration project. They will be working with RES, the contractor responsible for the RWMWD shoreline project on Snail Lake. The contractor is very familiar with the conditions on Snail Lake and will work closely with the homeowner to ensure a viable project.

This project is eligible for 100% coverage up to \$15,000.

BMP type(s):

Shoreline Restoration(1)

Grant Request:

\$6,000.00

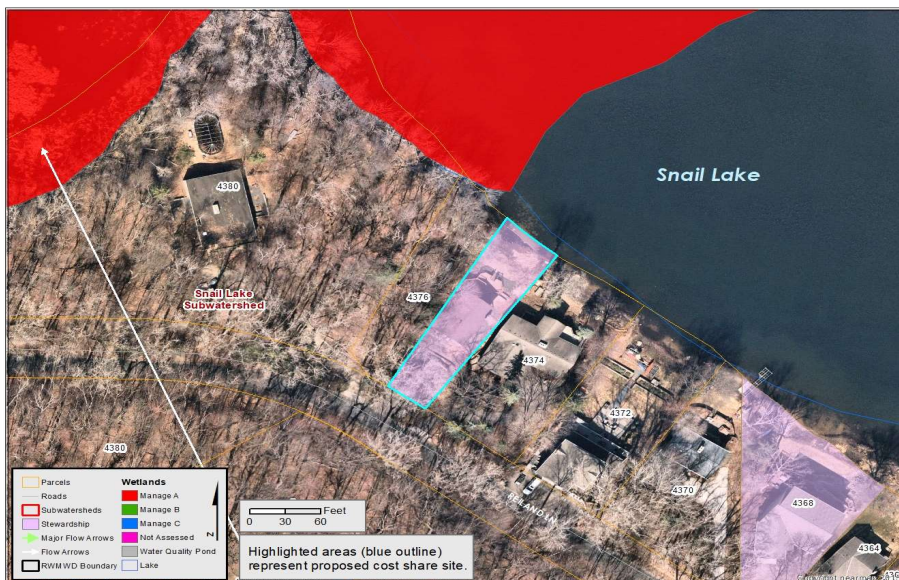
Recommendation:

Staff recommends approval of this application.

Subwatershed:

Snail Lake

Location Maps:



www.ramseycounty.us

PROJECT: LOEWEN RESIDENCE

LOCATION:

4376 REILAND LN

SHOREVIEW, MN 55126

WATERSHED DISTRICT:



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

Rel. no. Marti... Date: 03/13/2010

Rebecca Nestingen Date: 02/13/2019
Rebecca Nestingen Reg. No. 49246

NOTES:

ORIGINAL SHEET SIZE: 11" x 17"

SCALE: 1"=20'0"

SITE LAYOUT



L107

MATERIALS SCHEDULE			
ID	ITEM	QTY	UNIT
E	Category 3N Erosion Control Blanket	57	100
F	Category 4NCS Erosion Control Blanket	57	10
G	Coir Log (1' x 10' Dk)	LF	0
H	Twice-Shredded, MNDOT Type 6 Mulch	CY	2
I	Rebar Endless Rebar	235	0
J	Rebar Reinforcing 4" Dia	EA	30
K	Native Shrub, 4' to 6'	EA	0
L	Native Shrub, 12' to 20'	EA	0
M	2" B&B Deciduous Tree	EA	0
N	Low-Grow, Perennial, Shade Mix	SF	90
O	Native Seed, Upland Shrub-Dry Grass Mix	SF	0
P	Native Seed, Wet/Tropical Mix	SF	1140

LEGEND

ORDINARY HIGH WATER LEVEL ELEVATION: 883.70'

 PARCEL BOUNDARY

DISTURBANCE LIMITS / EVOLUTION FENCE

NEIGHBORING SHORELINE RESTORATION PROJECT

REVEGETATION UNIT-1

TOTAL AREA: ± 0 SF

REVEGETATION UNIT-2

TOTAL AREA: +/- 1140 SF

REVEGETATION UNIT-3

TOTAL AREA: +/- 320 SF

NOTES

1. HEREDIN APPLICATIONS AND SITE PREPARATION SHALL OCCUR PER THE FOLLOWING SCHEDULE:

2. DEAD TOY TO REMAIN FOR SOIL STABILIZATION, CONTRACTOR SHALL INSTALL ADDITIONAL EROSION CONTROL FACILITIES IF REQUIRED, AS APPROVED BY OWNER REPRESENTATIVE.
3. AQUATIC EMERGENCY PLANTINGS SHALL NOT EXCEED BOWEN 10' MAX. PLANTING DENSITY OF 10 PLANTS PER 10' X 10' AREA.
4. ALL PLANTINGS INSTALLED BELOW WATER LINE IN SOFT SOILS OR IN AREAS SUBMERGED DUE TO WATER FLUCTUATIONS SHALL BE STAKED TO ANCHOR IN PLACE.
5. OWNER REPRESENTATIVE SHALL MARK SELECT SHRUBS AND TREES TO BE REMOVED.
6. HERM OR EXCLUSION FENCE LOCATION IS OFFSET FOR PLAN VIEW REMEDIATION ONLY.

Stewardship Grant Application Summary

Project Name: Adrian

Application Number: 21-34 CS

Board Meeting Date: 10/6/2021

Applicant Name: Jennifer Adrian

Residential ☒

Commercial/Government ☐

Project Overview:

This project is located at a residential property off McKnight Rd N and Maryland Ave E. The applicant is proposing to install a permeable paver driveway. She is doing her entire driveway in permeable pavers however after staff review, it was deemed that only a small portion of the driveway needs to be permeable to meet our water quality goals. The total project cost is about \$26,500. Project related eligible expenses equals a total of \$7,100 for a 75% grant award of \$5,325.

This project is eligible for 75% coverage up to \$15,000.

BMP type(s):

Porous Pavers(1)

Grant Request:

\$5,325.00

Recommendation:

Staff recommends approval of this application.

Subwatershed:

Beaver Lake

Location Maps:



Consent Agenda Action Item

Board Meeting Date: October 6, 2021

Agenda Item No: 3E

Preparer: Tina Carstens, Administrator

Item Description: Change Order No. 3 for the North St. Paul Target Store Retrofit Project

Background:

Attached is change order number 3 for the North St. Paul Target Store Retrofit Project. This change order includes a number of quantities changes and costs to elongate the splash block assembly on rain garden 4. The totality of the changes increases the contract price of the project by \$7,980.54. The change order details can be found in the attached document.

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 Items: Implement retrofit water quality improvement projects.

Staff Recommendation:

Approve Change Order No. 3.

Financial Implications:

This request increases the contract price by \$7,980.54.

Board Action Requested:

Approve Change Order No. 3.

Change Order No. 3
Ramsey-Washington Metro Watershed District
North St. Paul Target Retail Store Stormwater Retrofits

DATE OF ISSUANCE: September 23, 2021

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

Contractor: Peterson Companies, Inc.
8326 Wyoming Trail
Chisago City, MN 55013
Attn: Jake Sikora, Johnathan Peterson

Engineer: Barr Engineering Company
4300 MarketPointe Drive, Suite 200
Minneapolis, MN 55435
Attn: Brad Lindaman, Katie Turpin-Nagel, Leslie DellAngelo

C.O.3.A Rain Garden 4 Large Splash Block Assembly and FES

Description of Change:

To reduce erosion in Rain Garden 4, Barr recommends the elongation of the splash block assembly and the addition of a flared end section (FES) on the 18" RCP inlet. This design change requires the Contractor to perform additional work. The Contractor completed the splash block assembly modification this fall. The addition of a FES will occur in winter 2021 or spring 2022 when a FES becomes available (There is a material shortage currently). This work includes:

- Large Splash Block Assembly
 - Excavate basin bottom for additional class 5 and splash block install.
 - Haul excavated material offsite
 - Furnish and install 6"-depth of Class 5 aggregate base under new blocks
 - Furnish and install 17 additional 16" x 16" x 6" splash blocks
- 18" RCP FES
 - Re-mobilize equipment and staff to the site for FES install
 - Dispose of existing RCP section
 - Furnish and install 18" RCP FES
 - Re-grade disturbed work area
 - Restoration
- See figure on next page.

Bid Form and Base Bid:

Add the following to Section 00 41 00 ARTICLE 4.01.A. BID ITEMS:

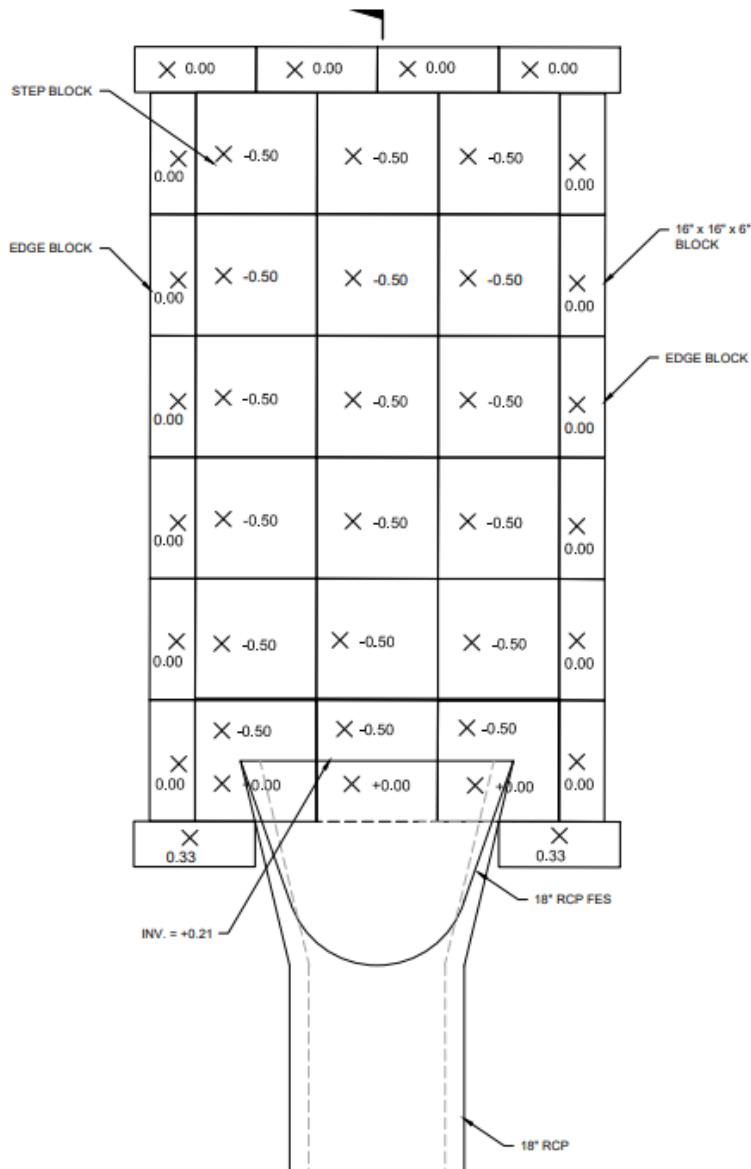
Bid Item	Description	Unit	Estimated Quantity	Unit Price	Estimated Cost
C.O.3.A	Large Splash Block Assembly	EA	1	3,908.10	\$3,908.10
C.O.3.B	18" RCP FES	EA	1	\$6,009.87	\$6,009.87

Delete the following from Section 00 41 00 ARTICLE 4.01.A. BID ITEMS:

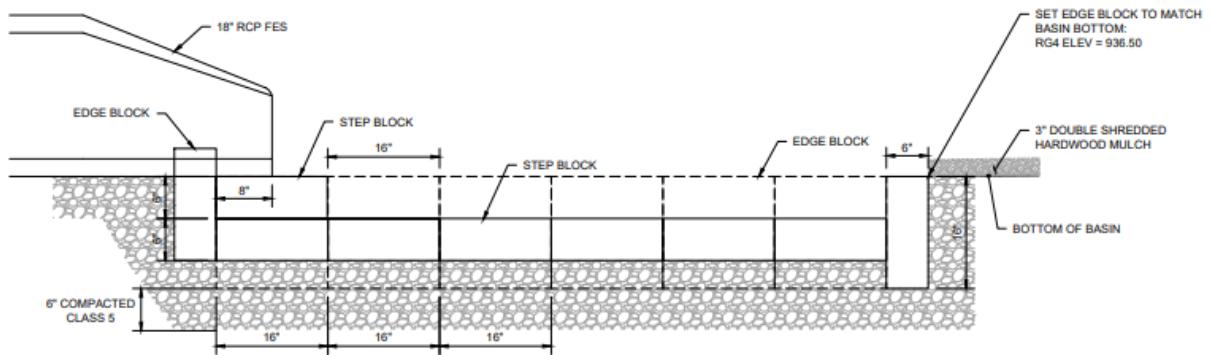
Bid Item	Description	Unit	Estimated Quantity	Unit Price	Estimated Cost
VV	Small Splash Block Assembly (Pipe Discharge)	EA	6	\$1,937.43	\$11,624.58

Add the following to Section 00 41 00 ARTICLE 4.01.A. BID ITEMS:

Bid Item	Description	Unit	Estimated Quantity	Unit Price	Estimated Cost
VV	Small Splash Block Assembly (Pipe Discharge)	EA	5	\$1,937.43	\$9,687.15



1 PLAN: LARGE SPLASH BLOCK ASSEMBLY



2 SECTION: LARGE SPLASH BLOCK ASSEMBLY

Change in Contract Time:

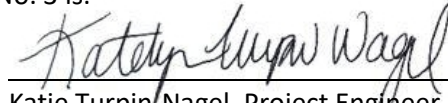
Final Project Completion Date is revised to be May 15, 2022.

Total Impact on Contract Price:

These changes are anticipated to **increase** the contract price by **\$7,980.54**.

This Change Order No. 3 is:

Submitted By:
(ENGINEER)


Katie Turpin-Nagel, Project Engineer
Barr Engineering Company


Date: September 23, 2021

Authorized By:
(OWNER)

Lawrence Swope, President
Ramsey-Washington Metro Watershed District

Date: _____

Approved By:
(CONTRACTOR)


Jake Sikora, Project Manager
Peterson Companies, Inc.

Date: 9/27/2021

Consent Agenda Action Item

Board Meeting Date: October 6, 2021

Agenda Item No: 3F

Preparer: Tina Carstens, Administrator

Item Description: Change Order No. 6 for the Keller Channel Weir and Phalen Outlet Resiliency Modification Project

Background:

Attached is change order number 6 for the Keller Channel Weir and Phalen Outlet Resiliency Modification Project. This change order includes two items that in total increase the contract price by \$7,401.33. The first item is to install a cover for exposed equipment mounted on the structure wall. The second is additional electrical infrastructure. The change order details can be found in the attached document.

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. 6.

Financial Implications:

This change order would increase the contract price by \$7,401.33.

Board Action Requested:

Approve Change Order No. 6.

Change Order No. 6
Ramsey-Washington Metro Watershed District
Keller Channel Weir and Phalen Outlet Resiliency

DATE OF ISSUANCE: September 14, 2021

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

Contractor: Pember Companies, Inc.
N4449 469th St.
Menomonie, WI 54751
Attn: Joe Pember

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

C.O.6.A Protective Cover for Transducer and Wire

Description of Change:

Following the installation of a surface water radar level transducer at the Keller channel weir, it became apparent that the equipment was vulnerable to vandalism. The Owner's representative requested a sketch and price quote to fabricate and install a cover to protect the exposed equipment mounted to the existing structure wall.

The owner's representative in consultation with the project engineer found the design sketch and pricing acceptable and directed the contractor to furnish and install the protective cover. The contractor completed the work, in good faith, under that verbal authorization and direction by the owner's representative.

Measurement and Payment:

The contractor will be paid on a lump sum (L.S.) unit price basis to complete all work as shown in the sketch drawing and as specified and as directed. This unit price shall be payment in full for the costs of all supervision, materials, equipment, labor, supplies profit and overhead, and perform all operations as are necessary to complete the work.

Change in Contract Time:

None

Total Impact on Contract Price:

\$550.00

C.O.6.B Keller Regional Park Lighting Conduits and Handholes

Description of Change:

As a part of obtaining the access agreement from Ramsey County for this project, RWMWD agreed to provide underground electrical infrastructure, including the cost for all PVC conduits and terminal boxes, to allow for future wiring and light fixtures in the park by the county.

This work was incorporated into the scope of work for a new electrical drop and power transformer from Xcel Energy to support the electrical/electronic gate system. During construction, the location of underground conduit and boxes were determined in the field with county staff and the electrical subcontractor. A price was provided by the contractor and the owner accepted the price and directed the contractor to complete the work through its subcontractor.

The contractor, through its subcontractor, completed the work, in good faith, under verbal authorization and direction by the owner's representative.

Measurement and Payment:

The contractor will be paid on a lump sum (L.S.) unit price basis to complete all work as stated in the field. This unit price shall be payment in full for the costs of all supervision, materials, equipment, labor, supplies profit and overhead, and perform all operations as are necessary to complete the work.

Change in Contract Time:

None

Total Impact on Contract Price:

\$7,401.33 (which includes a 10% standard markup per the contract documents)

This Change Order No. 6 is:

Submitted By: _____ Date: _____
(ENGINEER) Bradley J. Lindaman, Project Engineer
Barr Engineering Company

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

Approved By: Joe Pember Date: September 21, 2021
(CONTRACTOR) Joe Pember, Project Manager
Pember Companies, Inc.

Attachments:

From: Joe Pember <JPember@pembercompanies.com>
Sent: Wednesday, August 11, 2021 5:16 AM
To: Greg Nelson
Subject: RE: Keller Build transducer protection

CAUTION: This email originated from outside your organization. Exercise caution when opening attachments or clicking links, especially from unknown senders.

Hi Greg,

Mark completed this work. I would like to get paid \$550 for this work. It went a little better than the \$620.50 that I quoted you.

Thanks,

Joe Pember
Senior Project Manager
Pember Companies, Inc.
N4449 469th Street
Menomonie, WI 54751
jpember@pembercompanies.com
Office 715.235.0316
Mobile 715.556-0602
Fax 715.235.9006

From: Joe Pember
Sent: Thursday, July 15, 2021 8:42 AM
To: 'Greg Nelson' <GNelson@barr.com>
Cc: markpolen81@gmail.com; Dave Vlasin <david.vlasin@rwmwd.org>
Subject: RE: Keller Build transducer protection

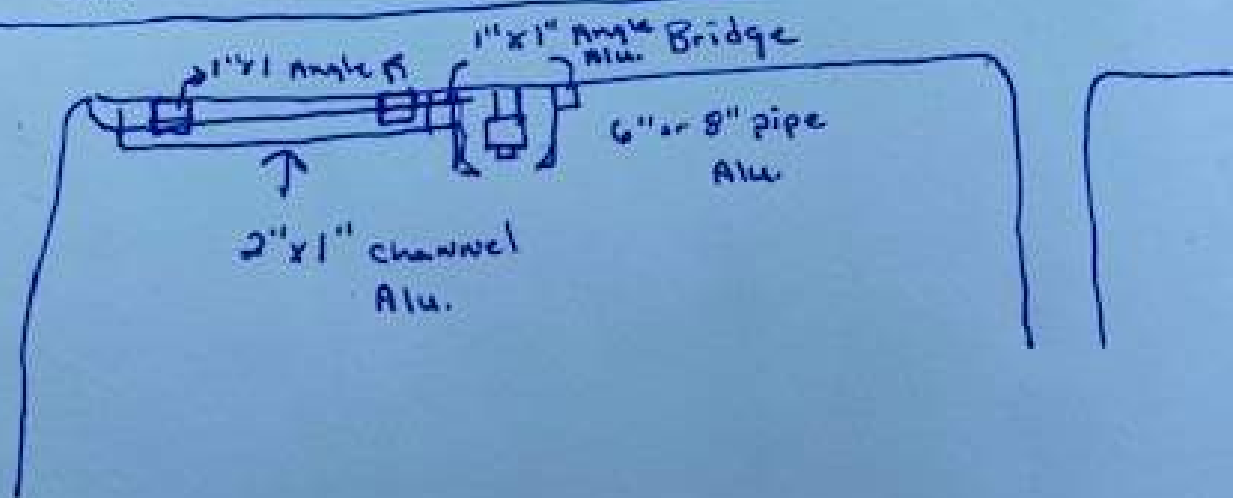
Hi Greg,

Yes, we will see how it goes. If Mark can get it done in less time I will adjust the invoice.

Thanks,

Joe Pember
Senior Project Manager
Pember Companies, Inc.
N4449 469th Street
Menomonie, WI 54751
jpember@pembercompanies.com
Office 715.235.0316
Mobile 715.556-0602

- Quantity
6 - stainless bolts + nuts $\frac{3}{8}$
1 - 2' - 1" x 1" Angle Alu.
1 - 4' x 2" x 1" channel Alu.
1 - 8" or 6" pipe Alu.
6 - stainless Anchors $\frac{3}{8}$



From: Joe Pember <JPember@pembercompanies.com>
Sent: Friday, March 26, 2021 7:03 AM
To: Greg Nelson
Cc: Terry Ludtke; Haley Pember
Subject: Maplewood Keller price for extra conduits & hanholes

CAUTION: This email originated from outside your organization. Exercise caution when opening attachments or clicking links, especially from unknown senders.

Hi Greg,

Killmer's price for the extra conduits approx. 350 lf and 2 handholes is \$6728.48. This includes string blown down the pipe. Pember needs a 10% GC markup on this for \$672.85. Total change order is \$7401.33. Let me know if this is approved.

Thanks,

Joe Pember
Senior Project Manager
Pember Companies, Inc.
N4449 469th Street
Menomonie, WI 54751
jpember@pembercompanies.com
Office 715.235.0316
Mobile 715.556-0602
Fax 715.235.9006

KILLMER ELECTRIC CO., INC.
5141 LAKELAND AVE. N.
CRYSTAL, MN 55429

PH.: 763-425-2525
FAX: 763-424-1258

TO: Pember

DATE: 3/25/2021

ATTN.: Joe

JOB NO. 3083-21

RE.: Phalen/Keller Channel Weir

EXTRA #1-Conduit/Handholes for Future Service

MATERIAL	1970 TAX	8.00%	\$2,127.60
LABOR	40 HRS. AT	\$99.73	\$3,989.20
FOREMAN	HRS. AT		\$0.00
GENERAL FOREMAN	HRS. AT		\$0.00
OVERTIME	HRS. AT		\$0.00
DOUBLETIME	0 HRS. AT	\$199.46	\$0.00
SUBCONTRACT	0 Under ground	10.0%	\$0.00
PROJECT MANAGEMENT	HRS. AT		\$0.00
FIELD DESIGN/DRAFTING	HRS. AT		\$0.00
AS BUILT DWNGS	HRS. AT		\$0.00
HANDHOLES	0 HRS. AT	\$107.00	\$0.00
CLEAN UP	HRS. AT		\$0.00
TESTING	HRS. AT		
PARKING	HRS. AT		
SPECIAL REQUIREMENTS	HRS. AT		
LARGE TOOL & EQUIPMT RENTAL			
SMALL TOOL & CONSUMABLES		% OF LABOR	
PERMITS			\$0.00
SUB TOTAL			
OVERHEAD	10% M/U Overhead		\$611.68
MARGIN			
BOND			
TOTAL THIS CHANGE			\$6,728.48
A TIME EXTENSION OF	DAYS WILL BE REQUIRED FOR THIS CH		\$0.00

THE ABOVE QUOTATION COVERS THE PRESENTLY ASCERTAINABLE DIRECT COSTS OF THIS CHANGE IT EXCLUDES COSTS ASSOCIATED WITH THE IMPACT OF THIS PROPOSED CHANGE REQUEST UPON THE PROJECT SCHEDULE. (WE THEREFORE, RESERVE THE RIGHT TO AMEND THIS QUOTATION WHEN SUCH IMPACT COSTS BECOME REASONABLY DETERMINABLE.
THIS QUOTATION IS VALID UNTIL

BY:



PROJECT MANAGER

PRICING SHEET



JOB KEUER WICK
 WORK EXTRA #1 - EXTRA NORMAL SERVICE

ESTIMATE NO.	
Sheet No.	Of Sheets

ESTIMATE NO.	PRICED BY	EXTENDED BY	CHECKED BY	DATE

	✓	MATERIAL	QUANTITY	MATERIAL PRICE	PER	MATERIAL EXTENSION	LABOR UNIT	PER	LABOR EXTENSION
1		11K17 QUIZES	2			520-			8
2		TRONCUT	350			350-			12
3		BACKFILL / CONCRETE	350			175-			10
4		2" PVC SUT 40	350	2.50		875-			7
5		2" PVC CAPS	2			20-			1
6		STALING / AIR COMPRESS	400-			30-			2
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Totals This Sheet Transferred to Recap By—INITIAL ►

MATERIAL ►

LABOR ►

Permit Program



RAMSEY-WASHINGTON

METRO WATERSHED DISTRICT

MEMORANDUM

Date: October 6, 2021

To: Board of Managers and Staff

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

Subject: September Enforcement Action Report

During September 2021:

Number of Violations:	16
Install/Maintain Inlet Protection	4
Install/Maintain Perimeter Control	5
Install/Maintain Construction Entrance(s)	2
Stabilize Exposed Soils	1
Contain Liquid/Solid Waste Materials	2
Remove Discharged Sediment	1
Maintain Permanent BMPs	1

Activities:

Permitting assistance to private developers and public entities, miscellaneous resident inquiries, ongoing ESC site inspections and reporting, WCA administration and site visits, new permit review with Barr Engineering, initial erosion control walk-throughs with contractors, BMP maintenance site visits, underground BMP inspections and reporting, permit close-out inspections, Gold Line BMP credits discussion with City of Woodbury, RWMWD Website stakeholder meeting, Hydric Soils workshop

Project Updates:

#19-22 Sterling Street Bridge Replacement (Maplewood)

Sterling Street's bridge replacement began late August and continues through the month of September. The beginning of the project had some delays due to utility access conflicts but is now in full swing with hopes of project completion in the next coming weeks. Staff have been

conducting weekly inspections at this site due to its proximity to Fish Creek. A temporary stream diversion, slope cover with poly sheeting, riprap, and perimeter control are all continually being inspected, installed, and maintained to protect the creek. Staff will continue to regularly visit the site until the project is complete and all disturbed areas are fully restored and vegetated.

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

Two demolition projects have started in the month of September at the 3M Maplewood Campus. Both projects will be restored to vegetative cover once demolition is complete, with an expected end date in late November. Staff conducted an initial erosion and sediment control walkthrough at both sites with contractors and 3M staff. Staff communicated the importance of perimeter control inspection and maintenance, regular sweeping, and proper disposal of all demo material. Staff will continue to inspect both sites with contractors and 3M staff on a biweekly basis.

#21-28 White Bear Lake High School South Phase 2 (White Bear Lake)

White Bear Lake High School South's improvements began earlier this year with a new gym and associated stormwater facilities (#20-23). Now phase 2 has begun which will include two new building additions, a parent drop-off lane, parking reconfiguration, and two stormwater basins. Phase 2 work is with the same contractor as phase 1, but with a new superintendent. Staff met with this superintendent on September 10th to discuss erosion and sediment control items and to conduct an initial erosion control walkthrough. Staff will continue to inspect the site regularly and perform a 48-hour rainfall inspection of the phase 1 infiltration basin once vegetation has established.

#18-27 McKnight Road Development (North St. Paul)

The 100-unit townhome subdivision project continues through another season, with only a few remaining townhomes to be constructed. A large portion of the site is complete with final landscaping installed and residents moved in. Both the infiltration basin and filtration basin are acting as temporary sedimentation basins through active construction and will be converted to permanent stormwater BMPs likely in late fall. Staff will continue to inspect the site regularly and conduct observations through the permanent BMP install process.

Single Lot Residential Permits Approved by Staff:

None

Permits Closed:

- 11-19 Gladstone Area Phase I (Maplewood)
- 17-18 Owasso Park Improvements (Shoreview)
- 19-18 Ferndale-Ivy Street Improvements (Maplewood)
- 19-29 North Owasso Boulevard (Shoreview)
- 19-30 White Bear Lake Apartments (White Bear Lake)
- 21-04 Chick-fil-A Woodbury (Woodbury)
- 21-10 Xcel Energy Vehicle Storage Building (White Bear Lake) *WITHDRAWN*

Stewardship Grant Program

Stewardship Grant Program Budget Status Update

October 6, 2021

Homeowner	Coverage	Number of Projects: 23	Funds Allocated
Habitat Restoration and rain garden w/o hard surface drainage	50% Cost Share \$15,000 Max	15	\$27,348.90
Rain garden w/hard surface drainage, pervious pavement, green roof	75% Cost Share \$15,000 Max	6	\$45,435*
Master Water Steward Project	100% Cost Share \$15,000 Max	0	\$0
Shoreland Restoration	100% Cost Share \$15,000 Max	2	\$8,500*

Commercial, School, Government, Church, Associations, etc.	Coverage	Number of Projects: 11	Funds Allocated
Habitat Restoration	50% Cost Share \$15,000 Max	6	\$61,925
Shoreland Restoration (below 100-year flood elevation w/actively eroding banks)	100% Cost Share \$100,000 Max	1	\$110,000
Priority Area Projects	100% Cost Share \$100,000 Max	0	\$0
Non-Priority Area Projects	75% Cost Share \$50,000 Max	0	\$0
Public Art/Project Research	50% Cost Share	2	\$19,000
Aquatic Veg Harvest/LVMP Development	50% Cost Share \$15,000 Max	2	\$17,460

Maintenance	50% Cost Share \$5,000 Max for 5 Years	60	\$44,750
Consultant Fees			\$56,832
Total Allocated			\$391,250.90

2021 Stewardship Grant Program Budget	
Budget	\$1,000,000
Total Funds Allocated	\$391,250.90
Total Available Funds	\$608,749.10

**This includes applications pending approval at the October 6, 2021 board meeting.*

* * * * *

Action Items

* * * * *

Request for Board Action

Board Meeting Date: October 6, 2021

Agenda Item No: 7A

Preparer: Tina Carstens, Administrator

Item Description: Watershed Excellence Awards Approval

Background:

Annually, the District seeks out nominations for the Watershed Excellence Awards. This year's awards will be held on Thursday, November 18, either at Keller Golf Course Clubhouse or on a virtual platform.

Nominations were received by staff and then were reviewed by the awards subcommittee of the citizen advisory committee (CAC). The subcommittee asked the CAC to accept the awardees at their September 28th meeting and to make a recommendation to the RWMWD Board of Managers to approve the nominees as this year's award winners.

The suggested award winners will be sent ahead of the October Board meeting for discussion and approval.

Applicable District Goal and Action Item:

Goal: Inform and empower communities – The District will inform and empower communities to become partners in improving and protecting the watershed through their own efforts.

Action Items: Hold events to celebrate community connections and participation, showcase partner accomplishments, and educate youth, families, and residents about clean water.

Staff Recommendation:

Staff recommends approval of the proposed Watershed Excellence Award winners.

Financial Implications:

The Watershed Excellence Awards event is included in this year's budget under education events. There are funds available for this event.

Board Action Requested:

Recommend and approve the proposed Watershed Excellence Award winners.



MEMO

TO: Board of Managers and Staff
FROM: Tina Carstens, Administrator
SUBJECT: District Public Art Policy Discussion
DATE: September 30, 2021

Over the Stewardship Grant Program years, there have been a couple of requests for funding of public art installations. The board of managers has taken each of those under consideration on a case-by-case basis but has also requested that staff bring forward a policy and procedure for when we would support public art and when we wouldn't.

Background

The district has a long history of incorporating public art and artful design in our district projects. These components in a project help educate the public on the benefits of treating stormwater in a more visual and interpretative way. Public art can also increase a project's aesthetics and facilitate community involvement, especially when the art is interactive. You can see examples of art in our projects at the Maplewood Mall, Living Streets, Enhanced Sand Filter projects. We also incorporate artful design in many of our projects with our planting plans or the shape of BMPs. Interpretive signage is another way we can incorporate art and design.

In developing the current watershed management plan, an action item was approved to "develop a program to incorporate public art into District programs and projects." (IE16). Art is considered in district-led projects depending on the location, the potential interaction with the public, and the education opportunities.

For the Stewardship Grant Program, the board had approved the development of funding for public art within the program several years ago. It is considered an eligible project with the potential for a 50% cost share. And while that has been available, a clear definition of the goals and acceptable project under the public art category hasn't been established. It would be the goal of this discussion.

The following are several discussion points that can feed into an approved public art policy.

Public Art Mission

To further **communicate and educate** through public art and artful design, the overall district mission of protecting, managing, and improving our natural resources.

Goals

Public art funded through the district, whether through our projects or our programs, shall further one or more of the goals below:

1. Making invisible water systems visible.
2. Creating features that bring attention to water features in a public space.
3. Creating features that inspire the implementation of other water projects.
4. Creating an aesthetic interface between the natural and built environments.
5. Creating innovative best management water practices.

Process for Public Art on District Projects

If the district wishes to incorporate public art in our projects, we shall meet one or more of the above goals. The board would approve those art components as part of the project approval process.

Process for Community Art Grants

Community applicants for public art installations shall come through the Stewardship Grant Program and support a past or current awarded stewardship grant project. This is to say that an art project proposal shall be in conjunction with a water or natural resources project and not be considered a standalone art project. Applications will be accepted year-round.

Projects are eligible for 50% funding up to \$15,000 per application. Additional funding may be requested by the applicant, and that decision would be based on location in the watershed, audience served, and the type of project proposed. If the board would like, a total of \$50,000 could be earmarked for potential public art projects in the Stewardship Grant Fund. The board would need to approve additional funds to go that way if that pot was exhausted. This would also prevent money from being unavailable for the main purpose of the grant program. \$50,000 is 5% of the total Stewardship Grant Fund budget for 2022.

To follow the current grant program, projects are funded through reimbursement upon completion and final inspection. Materials and labor are eligible for reimbursement. The project must be approved by the board before starting work. In-kind services are not eligible for reimbursement and will not be considered for matching contributions.

Next Steps

The board should discuss the mission, goals, and process and direct staff on developing a policy document that the board would approve as part of the 2022 Stewardship Grant Program at the December board meeting. Staff will take feedback and discussion from the board to develop the official policy.

* * * * *

Presentations

* * * * *

Grass Lake Berm Raise Wetland Replacement Site

The Minnesota Wetland Conservation Act (WCA) required 2:1 wetland replacement for unavoidable 4,294 square feet of wetland fill impacts associated with the Grass Lake Berm Raise flood control project.

4,704 square feet of wetland replacement was purchased from a wetland bank outside of RWMWD.

5,178 square feet of onsite wetland creation was planned and approved in 2018 to meet the RWMWD no net loss policy.

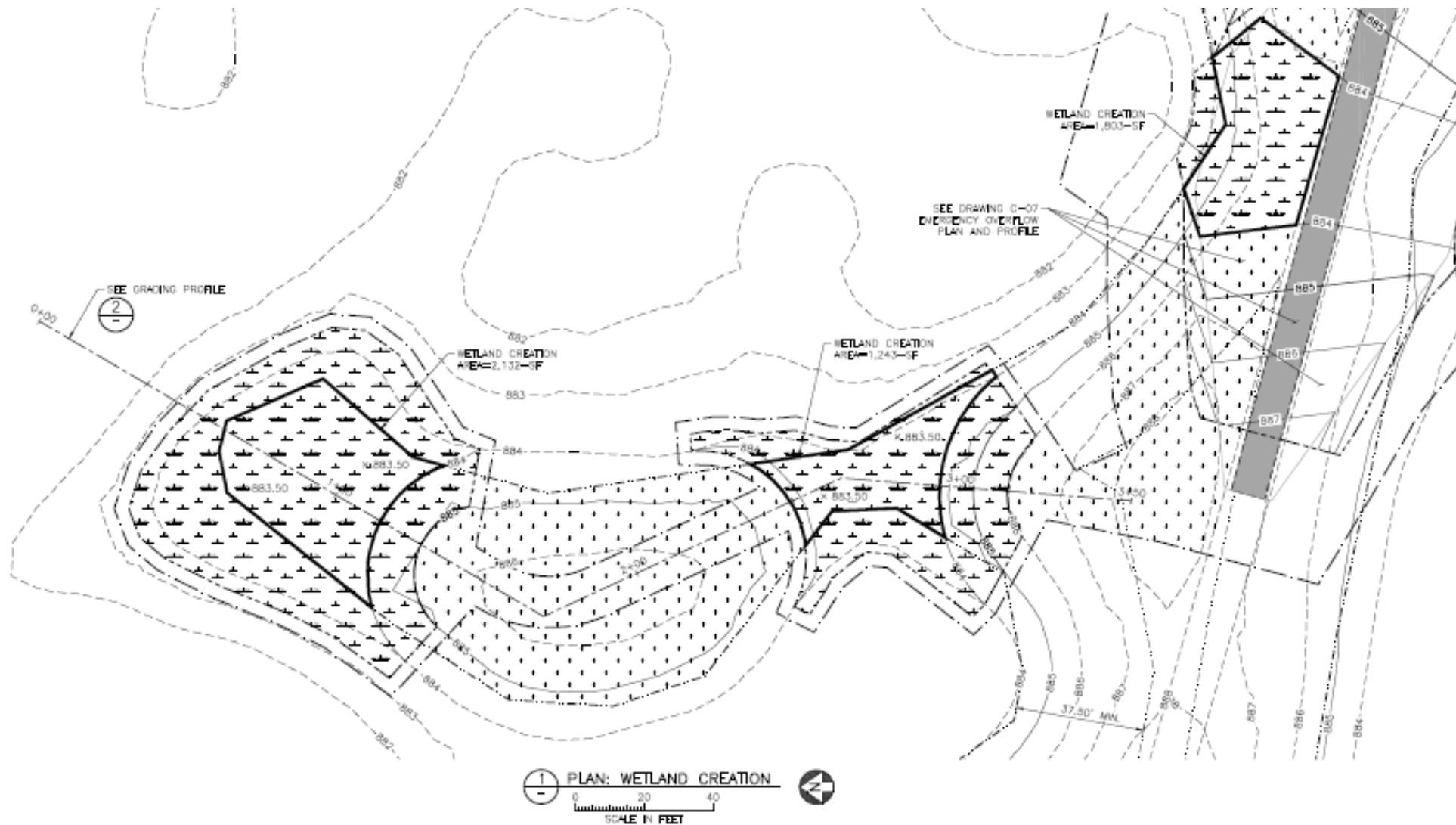
(Note that areas are different, since WCA allows for 75% credit for created wetland area.)

Wetland Replacement Site Location



Planned Wetland Replacement Areas

-Three wetland creation areas



RWMWD is responsible for WCA Requirements

- Project specific onsite wetland replacement areas require 5 years of monitoring and vegetation maintenance.
- If three years of monitoring reports document that the site meets requirements, the WCA Technical Evaluation Panel can determine that further monitoring is not required.
- The RWMWD is responsible for recording the Declaration of Restrictions and Covenants.
- Long term vegetation management as needed to maintain site conditions.

Initial Work and Conditions

- The wetland replacement areas were excavated and seeded with a native seed mix during construction of the berm raise project in 2018.
- Minnesota Native Landscapes was contracted to conduct vegetation management.
- Due to flooded conditions at the time of construction, the overflow swale was reinforced with rock.
- After hydrology was stabilized, rock was removed in 2021.

Technical Evaluation Panel Findings

- The Minnesota Wetland Conservation Act Technical Evaluation Panel Findings Report based on a site review conducted on August 10, 2021 recommended the following:
 - Installation of monitoring wells to document whether adequate hydrology is present
 - Consider frost over-seeding to increase native species coverage, prevalence, and diversity.
 - Confirm square footage of wetland areas meet replacement plan requirements.

Wetland Monitoring

- An access agreement was approved by the Ramsey County Parks board in July 2021 to allow for wetland replacement monitoring and maintenance.
- Barr began monitoring in August 2021
 - Vegetation monitoring was conducted
 - Two wells were installed with automated data loggers
 - Existing wetland creation areas were surveyed
 - A monitoring report will be prepared this fall to summarize progress, identify whether performance standards are met, and provide recommendations.

Initial Monitoring Results

- During the first year of monitoring in 2021, Barr documented that:
 - The rock has been removed from the overflow swale area, however this area is unlikely to meet wetland characteristics.
 - It was graded higher in elevation than the adjacent wetland.
 - It doesn't appear to have been seeded with a native seed mix. This area is dominated by weedy upland vegetation.
 - Wells were installed in the other two wetland creation areas to determine whether sufficient hydrology is present.
 - Vegetation is sparse in the other two wetland creation areas, though dominated by native wetland species.



Existing Conditions

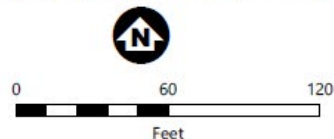


Approximate potential wetland replacement areas based on existing wetland vegetation:

Area ID	Planned size (SF)	Existing size (SF)
North	2,132	2,192
Central	1,245	1,988
South	1,803	0
total	5,180	4,180

Approximately 1,000 SF short due to lack of wetland characteristics in overflow swale.

- Well Location
- Wetland Replacement Area 2021
- Wetland Delineation 2017



WETLAND REPLACEMENT
GRASS LAKE BERM RAISE
Ramsey-Washington Metro
Watershed District

Existing Vegetation



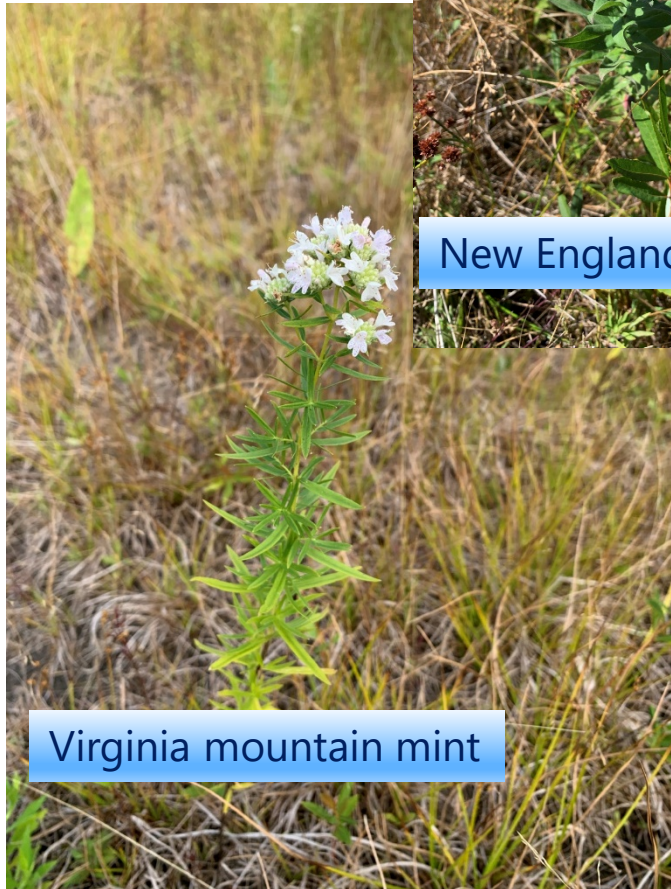
Some volunteer shrub and tree seedlings are present.

Native rushes, grasses, sedges, and forbs are present within the two northern wetland creation areas.



Reed canary grass at the edge of the adjacent wetland should be treated to prevent spread into wetland creation areas.

Existing Vegetation



Virginia mountain mint



New England Aster



Blue Lobelia



Sneezeweed



Slender Agalinis



Monarch with boneset and woolgrass

Native vegetation in wetland creation areas and adjacent upland buffer provides pollinator habitat.

Bare Soil in Wetland Creation Areas needs over-seeding



Initial Recommendations

- Vegetation management should continue for at least three years
 - recommend that RWMWD renew contract with Minnesota Native Landscapes
 - over-seeding is needed to cover bare soil areas
- The total wetland creation area appears to be insufficient due to overflow swale not meeting wetland criteria. Options to meet required replacement area:
 - Keep monitoring overflow swale area to evaluate whether wetland criteria will be met during normal precipitation conditions.
 - Excavate overflow swale lower in elevation
 - Excavate more of the adjacent upland
 - Include the adjacent upland buffer areas to meet credit requirements
 - Purchase credits to make up for shortfall



RAMSEY-WASHINGTON

METRO WATERSHED DISTRICT

Phalen Chain of Lakes Flood-Risk Resiliency Project

October 6, 2021

RWMWD Board of Managers Meeting

Brandon Barnes, Barr

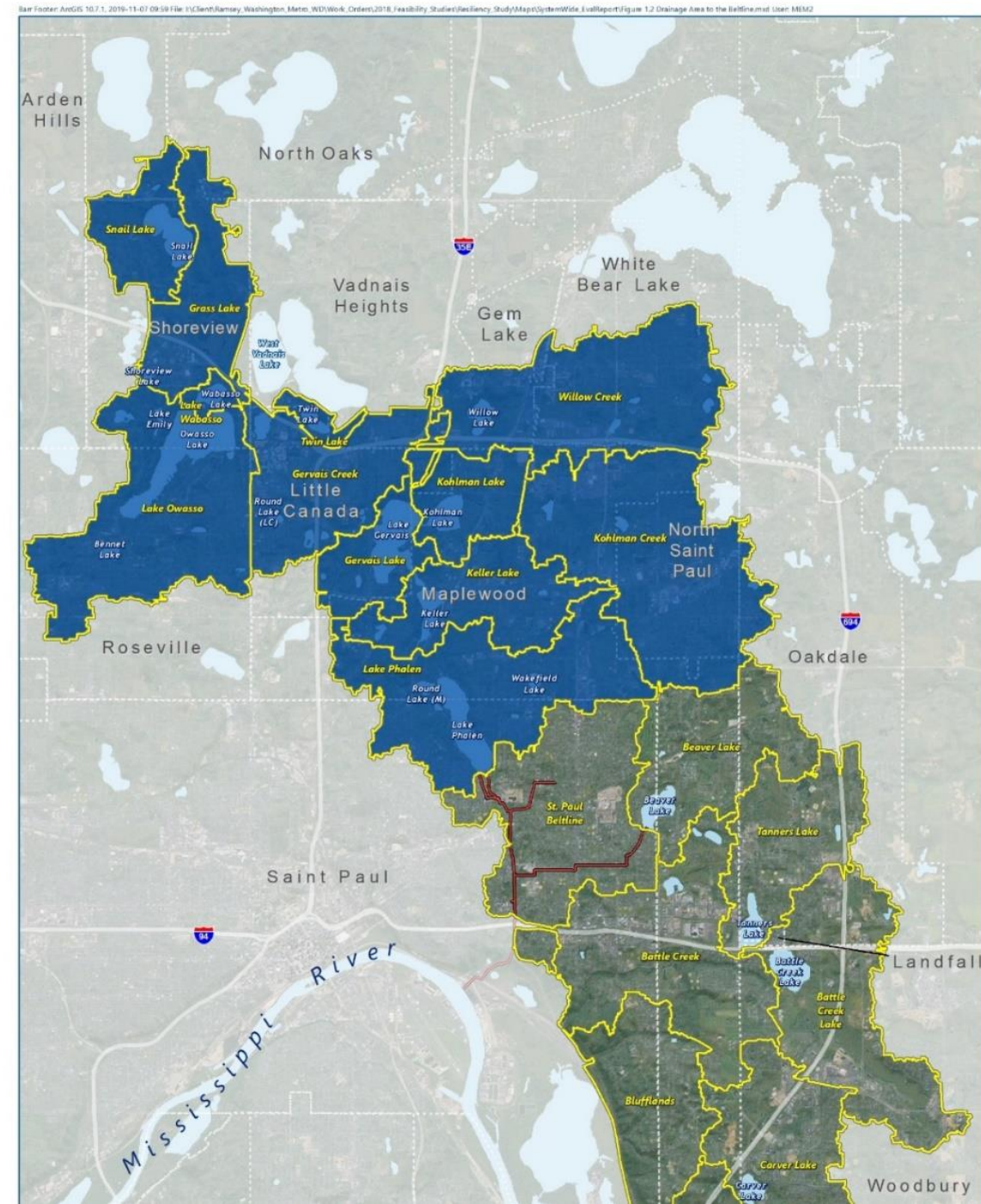


Overview

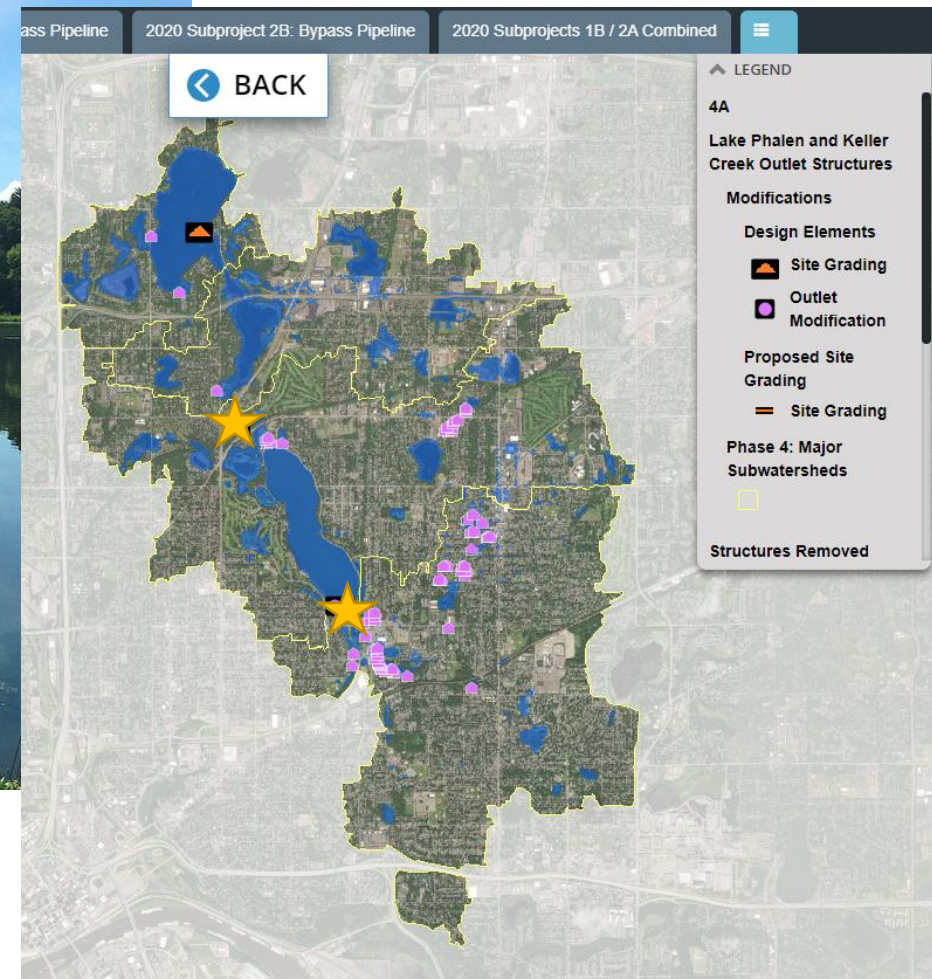
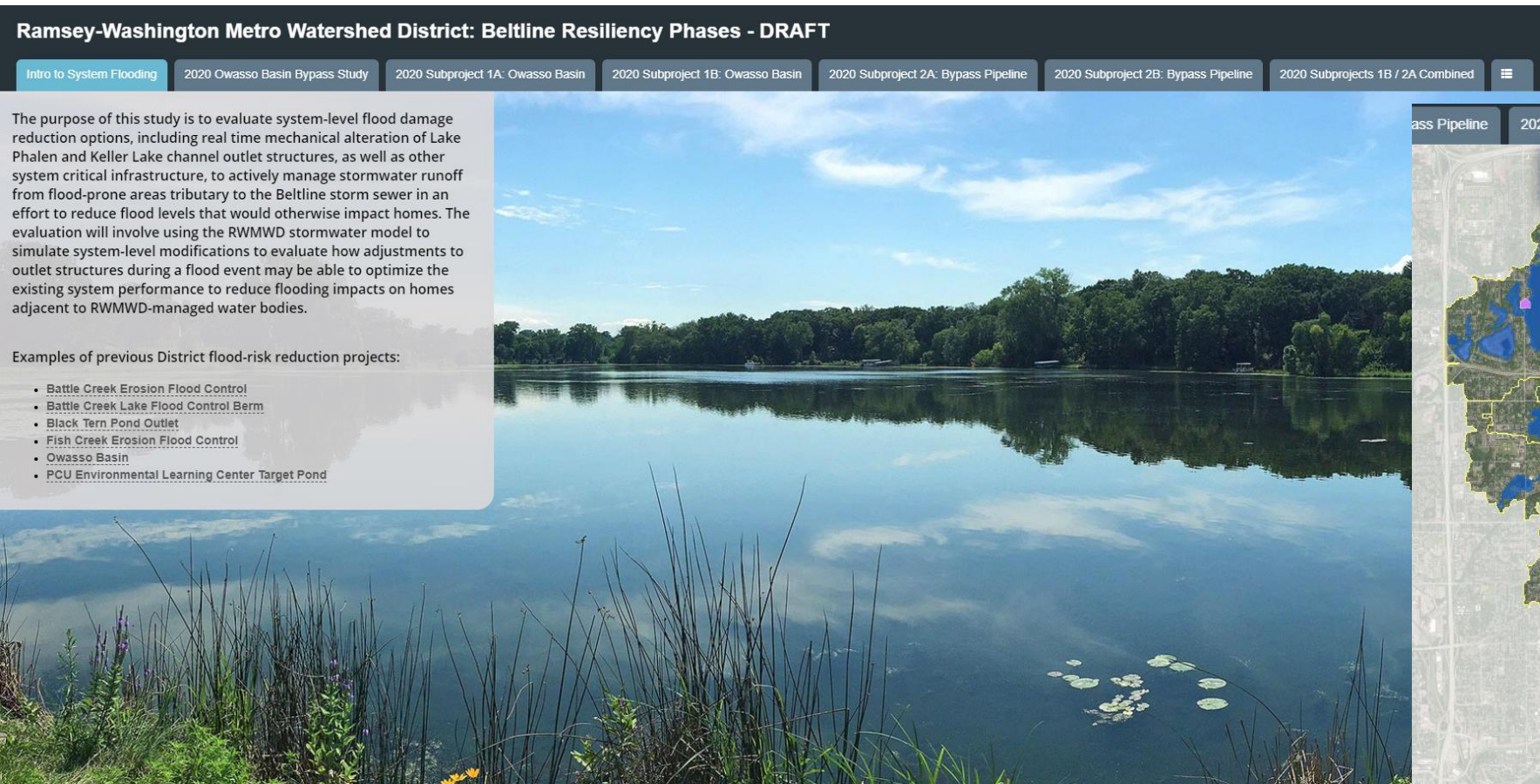
- modifications to outlet structures
- system resiliency



- *The purpose of this study is to:*
 - *evaluate system-level flood damage reduction options, including real-time mechanical alteration of Lake Phalen and Keller Lake channel outlet structures, as well as other critical system infrastructure, to actively manage stormwater runoff from flood-prone areas tributary to the Beltline storm sewer in an effort to reduce flood levels that would otherwise impact homes.*



GIS web map



Web map

<https://maps.barr.com/RWMWD/BeltlineResiliency/StoryMapSeries/index.html>

Keller Creek outlet: pre-project condition



Lake Phalen outlet: pre-project condition



Keller Creek modified outlet



Keller Creek modified outlet



Keller Creek modified outlet



Lake Phalen modified outlet



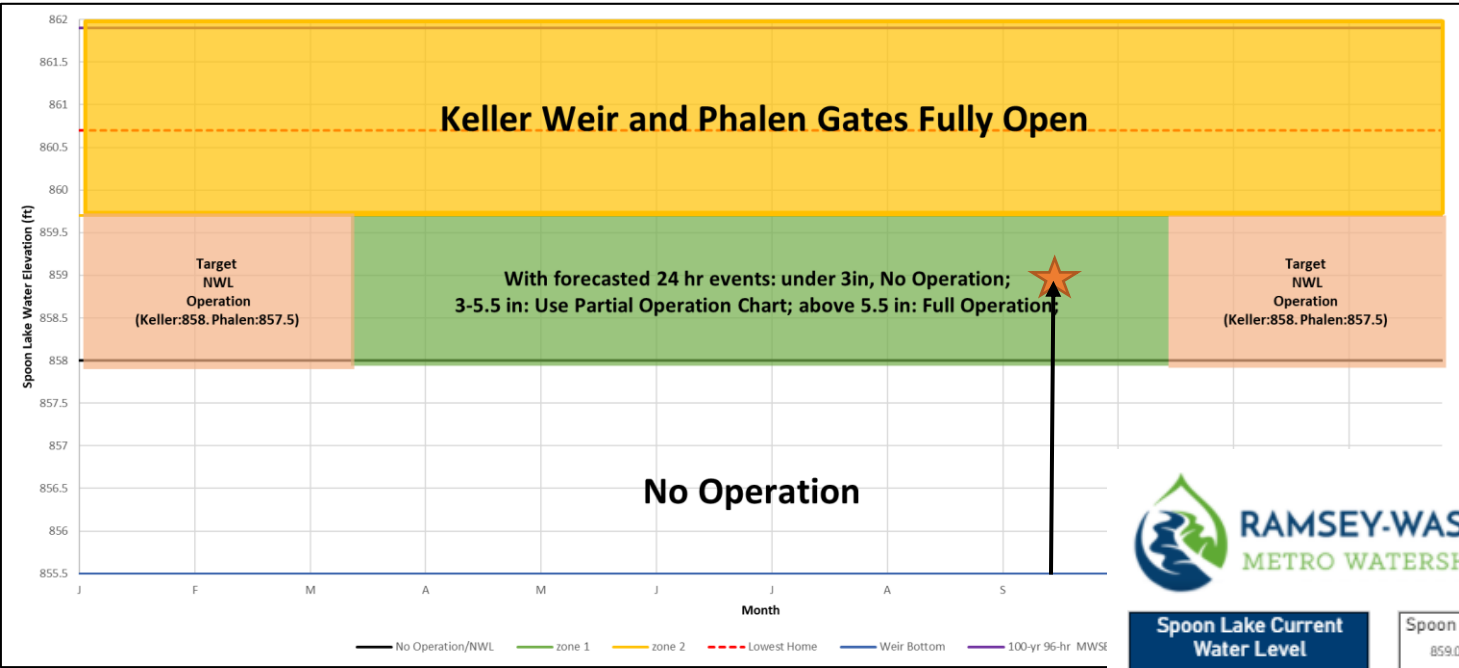
Lake Phalen modified outlet



Lake Phalen modified outlet

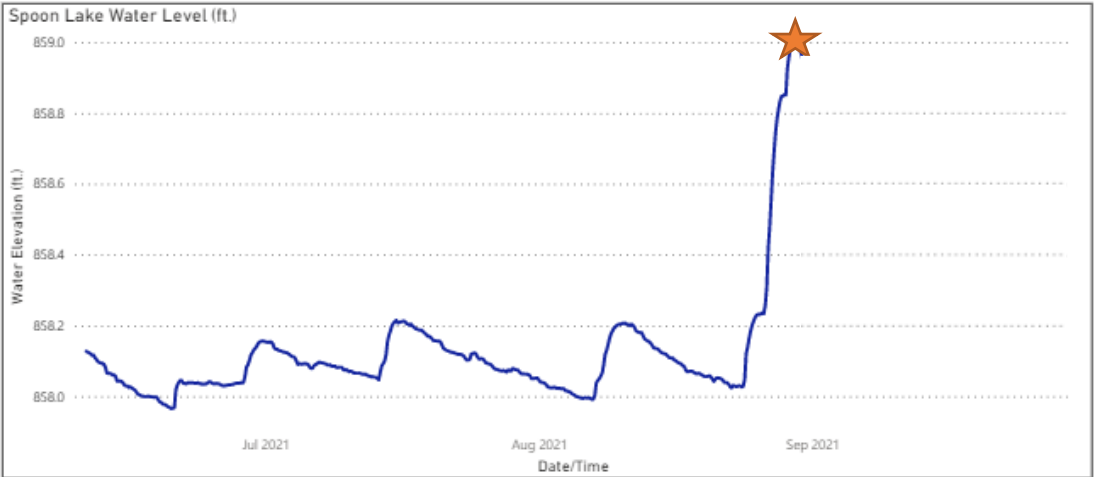


operation (hypothetical example)

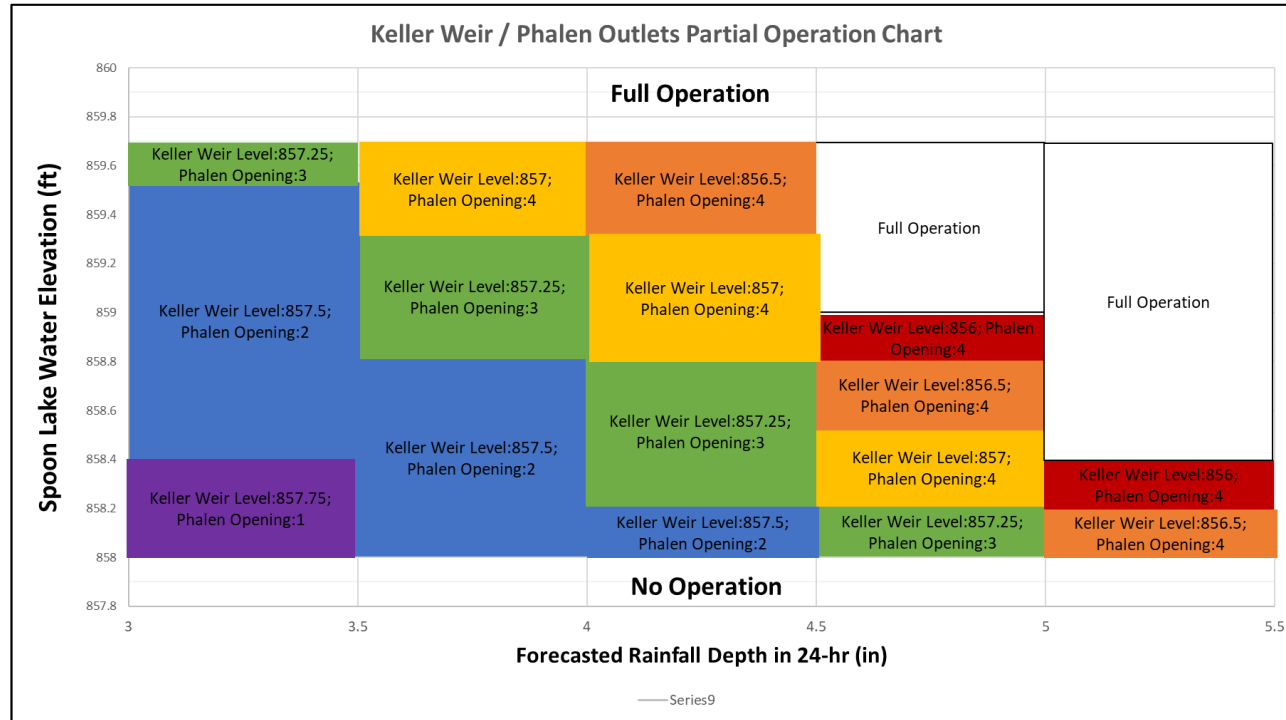


Spoon Lake Current Water Level

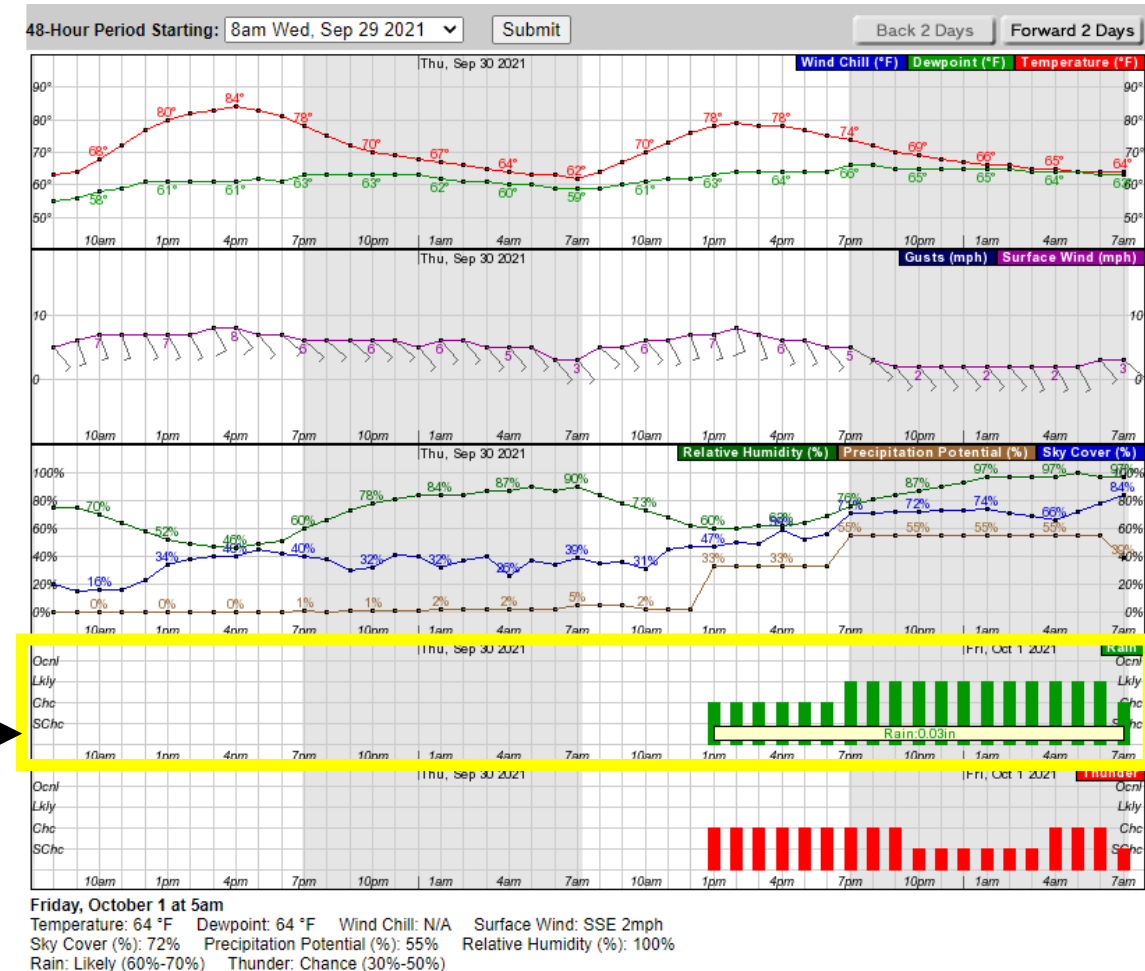
959.00



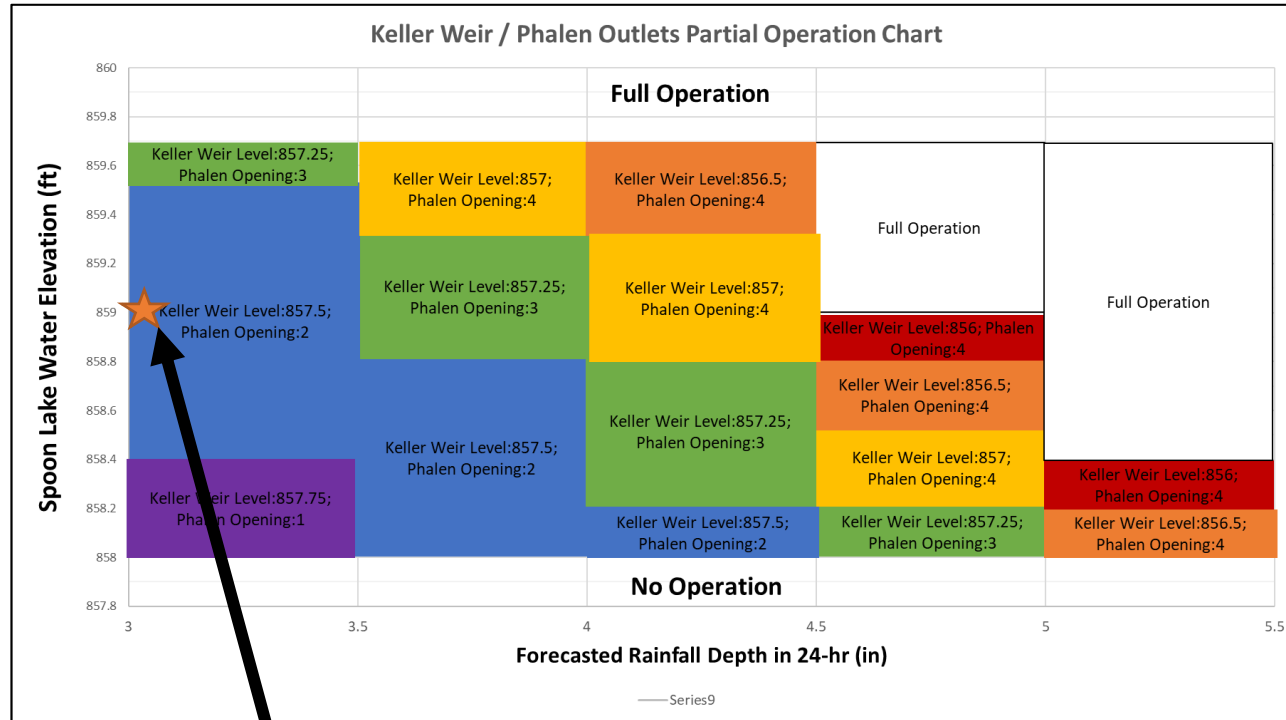
operation (*hypothetical example*)



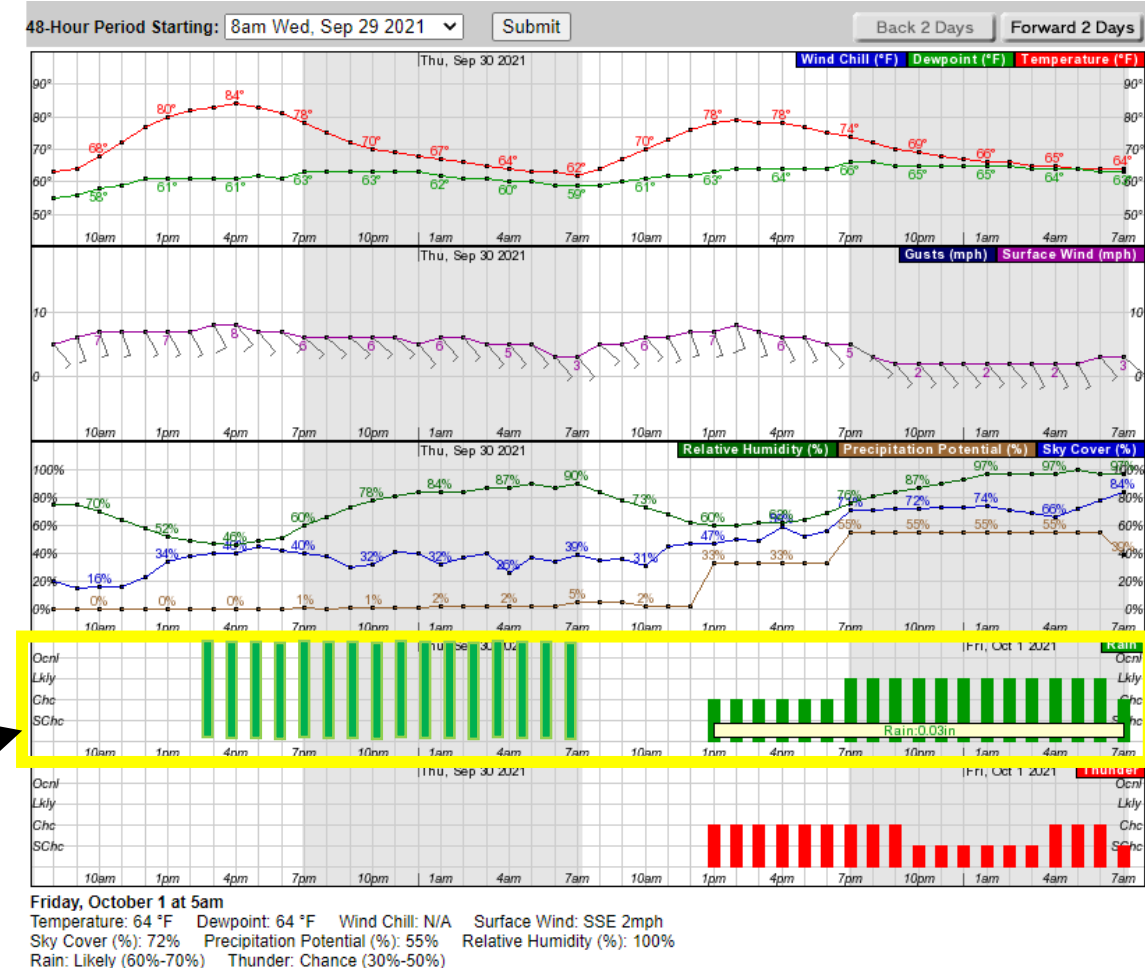
Only 0.03-inches in the forecast.
No need to operate the outlets.



operation (*hypothetical example*)



BUT IF 3.03-inches in the forecast.
Can operate the outlets.
Keller weir set to 857.5
Open 2 Phalen gates



what's next....

- finalize operation and maintenance plan
- Implement operation plan
evaluate and implement
- flood-risk reduction system
modifications upstream



questions



Operation and Maintenance Plan

Keller Channel Weir and Phalen Outlet

Prepared for
Ramsey-Washington Metro Watershed District

July 2021

DRAFT

Operation and Maintenance Plan

July 2021

Contents

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2.2	Maintenance	6
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Figure 2	Keller and Phalen Control Structures Operation Plan	8
Figure 3	Keller and Phalen Control Structures Operation Plan – Control Structure Position.....	8

List of Attachments

Attachment 1	Record Drawings
Attachment 2	Manufacturer’s Recommendations for Inspection and Maintenance (Fontaine Aquanox)
Attachment 3	Manufacturer’s Recommendations for Inspection and Maintenance (Auma)
Attachment 4	Manufacturer’s Recommendations for Inspection and Maintenance (InControl)
Attachment 5	Inspection Checklist
Attachment 6	Operation Log

1 General

1.1 Purpose

The purpose of this plan is to describe the responsibilities for operation and maintenance procedures at the Keller Channel and Lake Phalen outlet control structures.

1.2 Background

The Phalen Chain of Lakes is a group of lakes and streams that are interconnected and all drain to Lake Phalen. The Phalen Chain of Lakes includes the following waterbodies (listed from upstream to downstream):

- Lake Owasso
- Lake Wabasso
- Grass Lake
- West Vadnais Lake
- Willow Creek
- Willow Lake
- Twin Lake
- Kohlman Creek
- Kohlman Lake
- Round Lake (Little Canada)
- Gervais Creek
- Gervais Lake
- Keller Lake
- Wakefield Lake
- Round Lake (Maplewood)
- Lake Phalen

The subwatersheds associated with these water bodies cover the northern half of the District and are often grouped and referred to as the Phalen Chain of Lakes Watershed, as shown in Figure 1.

Major lakes within the Phalen Chain of Lakes include Phalen, Round – Maplewood, Keller, Gervais, and Kohlman. Water levels of lakes are controlled by outlet structures downstream of Keller Lake and Lake Phalen. Lakes upstream of the Keller Lake outlet structure include Kohlman, Gervais, and Keller are referred to as the upper chain. Lakes downstream of the Keller Lake outlet structure include Round (Maplewood) and Phalen are referred to as the lower chain.

The outlet from Keller Lake is a channel that is connected to Lake Phalen. The water level in the channel is typically near elevation 858.0, which is the elevation of the existing control structure downstream of Keller Lake. The existing control structure is a fix-crest weir that spans the entire width of the creek. The Keller Lake outlet structure was constructed in 1992. During high-water conditions, the control structure affects upstream water levels in Keller Lake, Gervais Lake, and Kohlman Lake.

Lake Phalen has two outlets at elevation 857.5. One outlet is on the southeast side and one of the southwest side of the lake. The Phalen outlets were constructed in 1989 and 1992. Each outlet consists of a weir structure upstream of larger diameter storm sewer pipes.

Modification of the control structures (i.e., the outlets from Keller Lake and Lake Phalen) allow for operation prior to or during a flood event.

Modifications to the control structures on Keller Creek (downstream of Keller Lake) and Lake Phalen include adjustments to actively manage water levels on the chain. Active management allows for adjusting

the timing of when water is conveyed into the Beltline, while minimizing the impact to low water levels in the Phalen Chain.

The Keller Lake outlet has been modified to replace the fix crest weir, with an adjustable weir. The adjustable weir allows for modifying the weir crest prior to or during 24-hour rainfall events greater than 3-inches, to increase the discharge out of Keller Lake. The modified outlet would allow the weir crest to be set at elevations between 858.0 (the existing outlet elevation) and 856.0.

The Lake Phalen outlets have been modified to include four 36-inch pipes that would allow water to bypass the existing weir structures at 857.5. Each pipe includes an inline drop-down weir to allow for variable adjustment of discharge out of Lake Phalen. The invert of each pipe will be at the invert of the existing control structure (approximately 853.0 or 855.0)

The following sections describe operation and maintenance activities and responsibilities for the Keller Channel weir and Phalen Outlet. RWMWD will review and, if necessary, update operation and maintenance tasks listed in this plan annually.

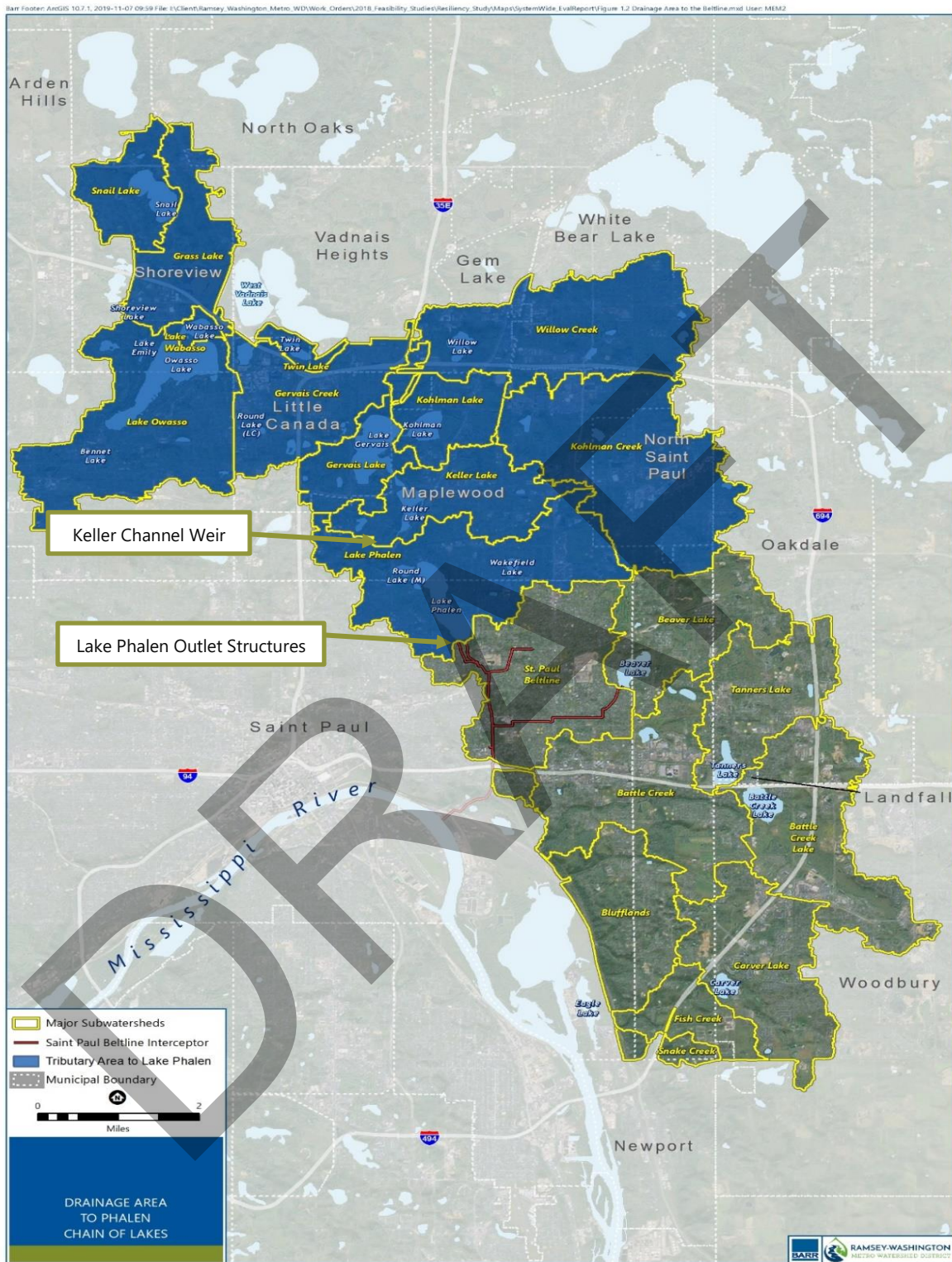


Figure 1 Tributary Area to Lake Phalen

1.3 Authority and Responsible Agency

The Ramsey-Washington Metro Watershed District is responsible for operation and maintenance of the Keller Channel and Lake Phalen outlet control structures. The Watershed District will enter into contracts or other forms of agreement with private contractors or other governmental agencies for the necessary maintenance work.

Operation of the control structures will follow the methodology presented in Section 0.

The control structures will be operated through motorized actuators that will allow District staff to control and monitor the outlet elevations remotely follow the methodology presented in Section 0. District staff will also monitor water elevation readings from Spoon Lake and 24-hour rain forecasts to inform when to adjust the outlet structures. A notification system may be utilized to alert District staff if the Spoon Lake elevation exceeds 859.5 or is below 858. The notification system may also be utilized to notify District staff if the gates are lowered for an extended period of time.

Correspondence regarding the operation and maintenance of the Keller Channel weir and Phalen Lake outlet should be addressed to:

Tina Carstens, Administrator
District Administrator
Ramsey-Washington Metro Watershed District
2665 Noel Dr.
Little Canada, MN 55117
651-792-7960
tina.carstens@rwmwd.org

Brad Lindaman
District Engineer
4300 MarketPointe Drive
Suite 200
Minneapolis, MN 55435
952-832-2808
blindaman@barr.com

1.4 Locations

The Keller Control Structure is located on Keller Creek, in Keller Regional Park, approximately 400 feet upstream of the Frost Avenue Bridge in Maplewood, Minnesota.

The Phalen Lake outlet structures are located in on the southern side of Lake Phalen. One outlet is on the southeast side and one of the southwest side of the lake, in Phalen Regional Park, approximately 150 feet north of the East Wheelock Parkway & East Shore Drive intersection in St. Paul, Minnesota.

Locations of both structures are shown in Figure 1 and Attachment 1.

1.5 Datum

The project design and construction documents were completed using the following horizontal and vertical datum.

Horizontal Datum: MnDOT, Ramsey County, US feet, referenced to NAD83 (2011)

Vertical Datum: North American Vertical Datum 1988 (NAVD88)

DRAFT

2 Inspections and Maintenance

2.1 Inspections

Observation of the Keller Channel weir and Lake Phalen outlets should be viewed whenever possible for operational concerns during periods when the outlets are operated. At least once every six months and following each time the outlets are operated. District staff will maintain a record of inspections in (Attachment 5).

2.2 Maintenance

Ordinary maintenance of the project shall follow an established schedule, and include removal of vegetation or debris affecting discharge, and following the routine maintenance activities as recommended by the manufacture.

2.2.1 Auma Water Control Actuators

Maintenance of the Auma Water Control Actuators will follow the manufacture recommendations, included in Attachment 3. District inspector, engineer, or contractor shall record inspections in the Inspection Checklist included in Attachment 5.

Maintenance inspections will be completed once a year:

- Visual inspection: checking threaded plugs, cable entries, cable glands, blanking plugs for correct tightness and sealing.
- Check fastening screws between actuator and gearbox/valve for tightness.
- If operated infrequently, perform a test run.

Each inspection will include the items noted in Attachment 5. See Section 12 of Attachment 3 for additional information maintenance activities.

2.2.2 Fontaine Aquanox Water Control Gates

Maintenance of the Fontaine Aquanox Water Control gates will follow the manufacture recommendations, included in Attachment 2. District inspector, engineer, or contractor shall record inspections in the Inspection Checklist included in Attachment 5.

Maintenance inspections will be completed at the following frequency:

- **Initial inspection:** after 25 operation cycles or two weeks after start up, whichever comes first.
- **Second inspection:** 50 cycles after the initial inspection or six months after start up, whichever comes first.
- **Subsequent inspections:** Every 100 operation cycles or every six months, whichever comes first. If the gate is used intensively or in extreme conditions, perform inspection every three months. One complete operation cycle corresponds to the opening and closing of the gate.

- **Maintenance:** Clean the gate with clean water to get rid of any deposit. Verify whether the guides and seals are in good condition.

Each inspection will include the items noted in Attachment 5. Inspection of the Fontain Aquanox Water Control Gates shall include verification the stem and lift nut thread conditions in order to detect excessive wear. Open the gate to expose the stem threads. Thoroughly clean the stem thread using a plastic or stainless steel brush to prevent contamination of the stem. See Appendix 3 of attachment 2 for additional information on stainless steel contamination. Lubricate the stem threads with the proper grease. Refer to Appendix 2 of Attachment 2, Stem lubrication. Verify all bolts and fasteners on the stem.

Gate and stem maintenance should be performed at each inspection. See Attachment 2 for more information.

2.3 SCADA Systems

Insert inspection and maintenance text once received

3 Operation

The control structures will be operated through motorized actuators that will allow District staff to control and monitor the outlet elevations remotely. District staff will also monitor water elevation readings from Spoon Lake and 24-hour rain forecasts to inform when to adjust the outlet structures. A notification system may be utilized to alert District staff if the Spoon Lake elevation exceeds 859.5 or is below 858. The notification system may also be utilized to notify District staff if the gates are lowered for an extended period of time.

3.1 Operation of Phalen and Keller Outlets

The general operation of the outlet structures includes: 1) lowering the outlets as water levels increase so more water will be conveyed to the Beltline during periods when there is capacity in the downstream system, and 2) raising the outlets to their existing levels when the downstream system is near capacity to reduce downstream impacts.

Operation of the control structures will be dependent on water levels in the Phalen Chain, forecasted rainfall, and downstream water levels. The preliminary outlet settings described below were identified to reduce flood-risk in the Phalen Chain, convey water into the downstream system when there is available capacity, and minimize the impact to water levels during periods when water levels are low.

Figure 2 shows how operation of the control structures are anticipated to vary during the year. In general, operation is divided into four zones.

1. **Spoon Lake (or Keller Lake) Water Level is lower than 858.0.** In this zone, the water level in Keller Lake is lower than the existing outlet structure. This may occur during dry periods when there is very little inflow to the upper chain. When water levels are lower than 858.0, the risk of flooding is low, and the outlet structures will not be operated.

In this zone, the Keller Lake adjustable weir outlet would be set at an elevation of 858 and the Phalen outlets would be set at 857.5. These elevations are the same as the current outlet elevations for each lake. Depending on the amount of precipitation, baseflow, and ground water levels, lake levels may decrease below the existing outlet elevation.

2. **Spoon Lake (or Keller Lake) Water Level is above than 859.6.** In this zone, the water level in Keller Lake is high, and a very small rainfall may result in flooding of the low homes on the upper chain. When water levels are above 859.6, the outlet structure on Keller Creek would be lowered to 856.0, and the new outlets on Lake Phalen would be open to lower water levels on the Phalen Chain back to the 858.0 (in Keller Lake) and 857.5 (in Lake Phalen).

In this zone, the outlet would be operated to utilize the capacity in the downstream system to reduce flood-risk for homes on the Phalen chain.

3. **Mid-October to Mid-March.** During the fall and winter the outlet structures would be operated to maintain a target elevation of 858.0 in the upper chain and 857.5 in the lower

chain prior to ice-in to maximize the storage volume in the lakes prior to spring snowmelt.

4. **Mid-March to Mid-October.** During the summer, when lake levels in the upper chain are above 858.0, the outlet control structures would be adjusted depending on the water level in Keller Lake and the forecasted rainfall depth. Outlet settings during this period are shown Figure 3. In general, the outlet would be adjusted prior to a forecasted rainfall event greater than 3-inches. The larger the forecasted rainfall, the more the outlets would be opened/lowered, to create storage volume in the Phalen Chain.

Prior to large rainfall events, the lake levels may temporarily be lowered below the existing outlet elevation by approximately 0.5-feet. However, the lower water levels would be temporary prior to a rainfall event.

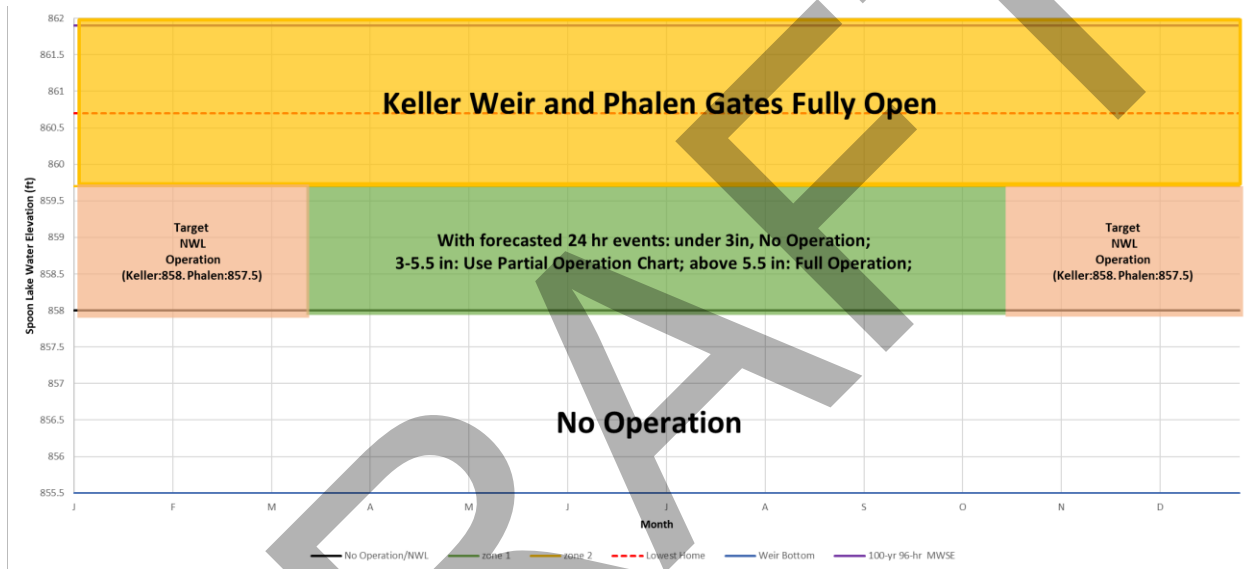


Figure 2 Keller and Phalen Control Structures Operation Plan

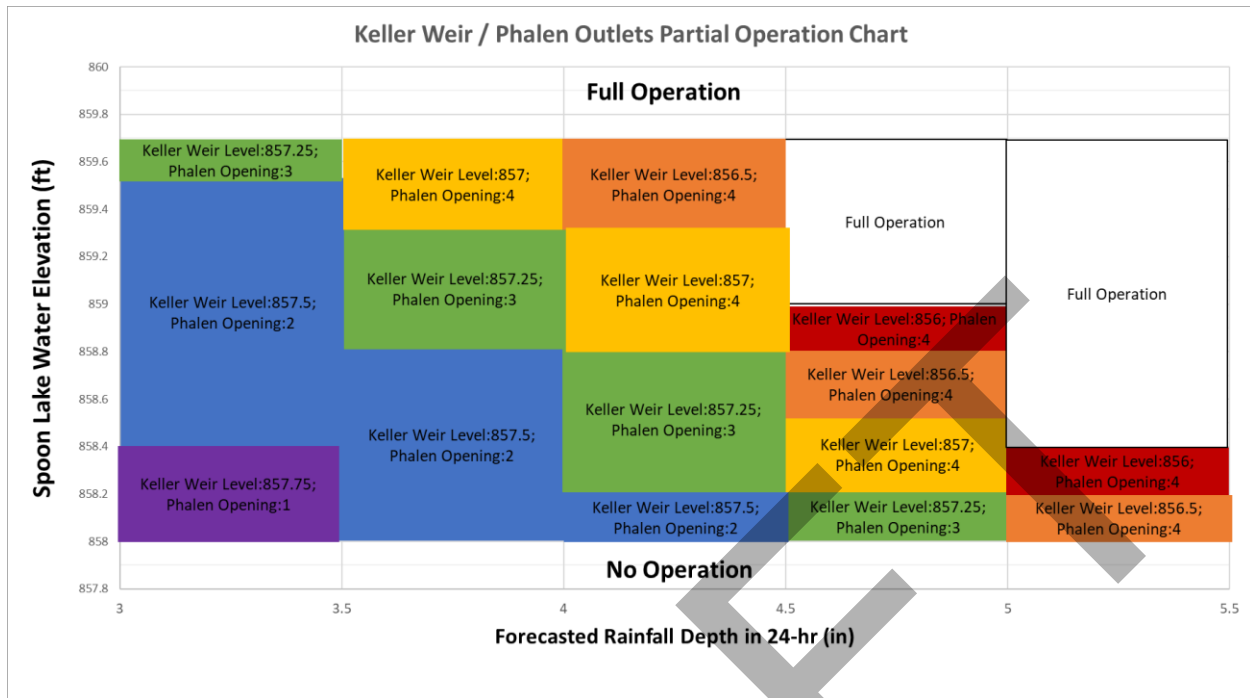


Figure 3 Keller and Phalen Control Structures Operation Plan – Control Structure Position

Operation of the Keller Weir and Phalen Lake outlet structures will be documented in the operation log (Attachment 6).

Administrator's Report

MEMO

TO: Board of Managers and Staff
FROM: Tina Carstens, Administrator
SUBJECT: October Administrator's Report
DATE: September 30, 2021

A. Meetings Attended

Monday, August 30	11:00 AM	Casey Lake Meeting Planning
Wednesday, September 1	6:30 PM	Board Meeting
Monday, September 13	9:30 AM	Edina Strategy Brainstorm Meeting
	1:00 PM	MAWD Events Committee
Thursday, September 16	11:00 AM	HR Webinar
Monday, September 20	2:00 PM	Metro-INET Board Meeting
Tuesday, September 21	8:00 AM	MAWD Board Meeting
	12:30 PM	BWSR WBIF Meeting
	2:00 PM	Website Staff Stakeholder Meeting
Wednesday, September 22	9:00 AM	MAWA Executive Committee
Tuesday, September 28	12:00 PM	Washington County HOPE Project

B. Upcoming Meetings and Dates

Minnesota Water Resources Conference	October 19-20, 2021
Metro MAWD	October 20, 2021
Board Workshop – Wetlands	October 25, 2021
CAC Meeting	October 26, 2021
November Board Meeting	November 3, 2021
MAWD Annual Meeting (Virtual)	December 1-4, 2021
December Board Meeting	December 8, 2021
CAC Meeting	December 7, 2021

C. Ongoing Administrator Updates

Ramsey County Permitting – This is ongoing. Ramsey County staff are drafting the agreement based on our discussions. We will be connecting with them soon regarding our 2022 projects and should have this in place.

Lake Level Stations – Staff monitor the stations and make improvements when necessary and as parts become available. District staff is also working with Barr staff to clean up the data and its representation on the website. A plan for this coming winter season is also being developed.

PFCs and Alum Use – Barr and district staff are talking about these two topics and how to bring information forward for the board. Barr staff are also communicating with the Minnesota Pollution Control Agency and will update that at a future meeting.

Victoria Shores/Reiling Development – The Roseville council determined that the Environmental Assessment Worksheet (EAW) was complete and submitted back to the Environmental Quality Board (EQB) for publication in the EQB Monitor starts a 30 day public comment period. The comment period is planned to extend to November 4th. District staff will be reviewing the EAW to be sure it is consistent with district rules and policies. We will submit a comment letter ahead of the November 4th deadline.

D. Wetlands Workshop

Based on the responses to the calendar for an October workshop, Monday, October 25th is the best date. Staff will continue to prepare materials to send to the board ahead of time, including an agenda, goals for the meeting, and background materials.

Project and Program Status Reports

Memorandum

To: Board of Managers and Staff
From: Tina Carstens and Brad Lindaman
Subject: Project and Program Status Report – October 2021
Date: September 29, 2021

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.

The processing of laser scan data is complete, and elevation data has largely been extracted, checked, and passed along to Barr's modeling group to help determine actual structures in the flood zone. We continue to develop the emergency response plans. In September and October, we are regenerating maps of structures deemed to be at risk of flooding by comparing newly surveyed low elevations against the updated 100-year flood inundation extent generated after model updates are completed. We are developing plans for individual sites shown to have low entry elevations below the 100-year flood elevation. A couple of example plans, both of a single-family home as well as a larger business or multi-family complex, will be presented at the November board meeting. These plans will show the activities that cities can pursue to reduce the risk of these properties flooding during a 100-year event.

Also, this period, district staff and Barr met with Bill Dircks and Chris Heineman of the City of Little Canada to discuss options for protecting low-lying manufactured homes in North Star Estates (adjacent to Owasso Basin) as well as options for capital improvements in the area. The city is exploring surveying and inspection options to help the RWMWD and the city better define where and when the low floor and utilities for low-lying manufactured homes could be affected by flooding, and to inform appropriate flood risk reduction options.

Kohlman Creek flood risk reduction feasibility study (Barr project manager: Erin Anderson Wenz; RWMWD project manager: Tina Carstens)

The purpose of this study is to evaluate the benefit-cost relationships of infrastructure changes throughout the Kohlman Creek subwatershed 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 this area. This study is a follow-up step to the Beltline resiliency study.

Surveying and modeling updates are now complete, and Barr is using the model to evaluate the flood damage reduction projects described conceptually in the Beltline resiliency study. In some cases, less extensive projects will be needed since the flood elevation and/or surveyed elevations revealed less risk than originally anticipated. In other areas, similar levels of effort will be required. An update on this work will be provided at the November board meeting.

Ames Lake flood risk reduction feasibility study (Barr project manager: Erin Anderson Wenz; RWMWD project manager: Tina Carstens)

The purpose of this study is to evaluate the benefit-cost relationships of infrastructure changes that would remove habitable structures from the floodplain in this area. This study will be phased. The first phase (currently underway) involves communications with the City of Saint Paul about how to approach flood management in this area, which involves both regional and localized flooding issues. The second phase (if pursued) will encompass 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, as defined in partnership with the city. This study is a follow-up step to the Beltline resiliency study.

Surveying and modeling updates are complete, and Barr is using the model to evaluate the flood damage reduction projects described conceptually in the Beltline resiliency study. In some cases, as with the Kohlman Creek study area, less extensive projects will be needed since the flood elevation and/or surveyed elevations revealed less risk than originally anticipated by the desktop analysis. In other areas, similar levels of effort will be required. An update will be provided at the November board meeting.

Monitoring water quality/project monitoring

Special project best management practice (BMP) monitoring (Barr project manager: Katie Turpin-Nagel; RWMWD project manager: Paige Ahlborg)

The objective is to monitor specific water quality BMPs that the RWMWD has implemented, particularly those that include filtration media such as iron-enhanced sand, spent lime, or CC17 crushed limestone aggregate, and/or which leverage continuous monitoring and adaptive control (CMAC) technology.

This period, Barr and district staff coordinated a virtual meeting with sales representatives from Novaspect (valve/actuator vendor), a technician/manager from Emerson (actuator manufacturer), and a Campbell Scientific engineer to discuss the Willow Pond CMAC system. We reviewed wiring drawings, wiring photos from the station, and video of the actuator indicator lights and asked the Emerson technician questions about the system. With written guidance from the technician, we completed a series of checks at the Willow Pond site to troubleshoot the actuator. During this process, we discovered that a plug under the circuit board in the actuator was not connected, which prevented the actuator from communicating with the valve and the Campbell system. After connecting the plug, we verified that the actuator was working; however, it was still out of sync with the Campbell system. We then worked with the Campbell engineer to reset and test the system. The valve system is now operating correctly; however, the levels in Willow Pond have once again dropped below the weir, so we have not been able to test the drainage in the basin itself. Next period, Barr will continue monitoring the pond and CMAC system to verify that it is functioning as intended, including being remotely connected to the system's modem.

Research projects

Kohlman permeable weir test system (Barr project manager: Keith Pilgrim; RWMWD project manager: Bill Bartodziej)

The objective of this current investigation is to develop one or more conceptual designs that will fit within the footprint of the existing Kohlman Basin permeable weir that will allow for ongoing testing of the system's effectiveness at removing total suspended solids and phosphorus.

Earlier this summer, Keith Pilgrim inspected the test cells, and minor field modifications were made to the filters to verify that the hydraulics can be evaluated properly once testing is fully underway. Temporary stilling well and level sensors were installed to identify the treatment capacity of the cells as a function of water height at the upstream weir. During the most recent period, the level sensors continued to record water levels. However, few useable data have been collected due to little rain since installation. Monitoring is ongoing, and level sensors will be removed prior to ice formation.

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.

In late June and July, sampling was conducted in both Frog and Markham ponds. Data received to date indicate that both ponds have internal phosphorus release; hence, the original intent of this study to determine if aeration can reduce internal phosphorus loading can be tested with these systems. Unfortunately, a fountain installed in mid-July at Frog Pond could affect the site's outcome. Barr has proceeded with sampling as planned since the data show clear internal loading (phosphorus release from lake bottom sediments) in the ponds. Markham Pond testing will proceed; an aerator has been installed for winter operation with the goals of eliminating fish kills and establishing a sunfish population to eat carp eggs. The final monitoring event was completed during the week of September 20. Data analysis is anticipated to be complete by December 2021.

Project Operations

Keller channel and Phalen outlet operations plans (Barr project manager: Greg Nelson; RWMWD project manager: Dave Vlasin)

The purpose of this project is to develop an operation plan for the Keller Lake and Lake Phalen outlet structures. Operating the structures under certain conditions will help reduce upstream flood levels where homes exist in the floodplain. This is an implementation item from the Beltline resiliency study.

This month, Barr received comments from the RWMWD on the draft operation and maintenance plan. Comments will be incorporated into the document, and a final plan will be provided to the RWMWD after the contractor submits the remaining documentation for the control system. The plan describes conditions in which the outlet gates should be operated, routine maintenance activities, frequency of maintenance activities, and logs for documenting operation and maintenance activities. Additional information will be presented at the October 6 board meeting.

Capital Improvements

Target store retrofit projects (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 at two Target retail stores.

Construction began on July 12 at the North Saint Paul Target project and is now largely complete. Outstanding tasks, including installing the railing on the retaining wall, placing plants in the rain gardens, and planting trees in the tree trenches, should be finished by early October. Due to concrete material shortages, a flared-end section needed in rain garden 4 is unable to be installed until this winter or spring 2022. This additional work is included in Change Order 3. Once the flared-end section is available, Barr will coordinate with Target to have Peterson return to the site to complete installation. Pay application 1 for the North Saint Paul Target work is included in this month's packet.

At the East Saint Paul Target project, the one-year tree warranty period expires in October 2021. Tree replacement/relocation will be discussed and determined next month.

Targeted retrofit projects (Barr project manager: Matt Kumka; 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.

Several sites have been identified for potential BMP retrofits in 2022. Sites being considered via the Equity Initiative and/or in prior subwatershed feasibility studies include Conway Recreation Center, Nokomis Montessori South Campus, Acorn Park, St. Pascal Regional Catholic School, Muriel Sahlon Arboretum, Pleasantview Park, and Wildlife Rehab Center. Barr is currently conceptualizing BMPs, including rain gardens and permeable pavers, to present to site's owners before prioritizing and bringing a recommendation back to the board for consideration. Pending site owner and district approval of the BMP concepts, project design will continue over the winter, with construction planned for 2022.

Keller channel weir and Phalen outlet resiliency modifications (Barr project manager: Greg Nelson; RWMWD project manager: Tina Carstens)

This project includes design, bid document development, bidding, permitting, and project procurement of modifications to the Keller channel structure and the Phalen outlet structure. The purpose is to implement a design that will allow the RWMWD to remotely adjust the weir heights on the Keller channel structure and the Phalen outlet structure in accordance with an approved operating plan. Operation of the structures under certain conditions will help reduce upstream flood levels where homes exist in the floodplain. This CIP is an implementation item from the Beltline resiliency study.

This period, Barr worked with the contractor to prepare for final payment and release of retainage. A meeting was held to provide the contractor with a list of items required by contract to be submitted, including final pay item quantities and requested payment amount, construction record plan elevations and changes, final electrical schematics and literature binders for control panels and equipment, and the IC-134 affidavit confirming completion. All items have been submitted, and the project is considered complete and ready for final payment.

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.

On September 7, Fitzgerald Excavating & Trucking, Inc. began construction at the Keller Parkway site, including installation of erosion control measures (i.e., downstream flotation silt curtain) and removal/demolition of the two existing arch culverts. The new box culverts have been installed and backfilled, and the concrete distribution slab over the new culverts has been placed and is curing. Over the next period, Fitzgerald anticipates finishing the Keller Parkway site and starting at the Ryan Drive site in early October. Completion of the full project scope is anticipated by the end of October or early November.

Fitzgerald, with the RWMWD and Barr's support, has coordinated the relocation of specific utilities that, once field-located, created a conflict with the work scope. This effort is progressing smoothly, and Fitzgerald has managed its schedule accordingly.

Twin Lake outlet (Barr project manager: Brandon Barnes; RWMWD project manager: Tina Carstens)

The purpose of this project is to design and construct an outlet system and develop an outlet operating plan in accordance with feasibility study recommendations. The outlet and associated operating plan help reduce flood risk to habitable structures in the Twin Lake watershed in Little Canada and Vadnais Heights.

Last month, Barr submitted a draft operation plan to the RWMWD for the Twin Lake outlet. The plan is consistent with permit approvals from the RWMWD and Minnesota Department of Transportation prior to construction. When complete, the plan will be shared with the City of Little Canada, which handles outlet operation as well as manhole and culvert maintenance. The RWMWD is responsible for maintenance of the conveyance ditch from the railroad to the outlet.

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. The work will include review of current methods, development of a scoring system, and implementation of mobile data collection.

This month, Barr obtained and reviewed information on the RWMWD's current inspection processes. The past three years of CIP inspection, the RWMWD management plan and strategic overview, and the RWMWD GIS model provided background on the district's infrastructure and maintenance needs. In addition, we reviewed inspection and prioritization practices related to maintenance and infrastructure management from other watershed districts (i.e., the Capitol Region Watershed District and the Riley-Purgatory-Bluff Creek Watershed District).

Barr also began categorizing the types of inspected infrastructure. Preliminary categories were developed based on CIP inspection data as well as information on stormwater pollution prevention plan structures located in the RWMWD. Initial evaluation shows that the majority of items can be grouped into about 15 categories, each of which has two to five criteria that should be inspected. However,

roughly 20 types of infrastructure do not fit squarely in a category, including the spent lime system, alum treatment system, and rock filter strips, among others. These systems may be best grouped by location/project. Barr will finalize the inspection categories, criteria, and rating system, but we would first like the managers' feedback:

- *How should Barr address miscellaneous infrastructure that does not fit into a typical infrastructure type/category? Should we group by project/location or have a "miscellaneous" category or are there other ideas you would like us to consider?*
- *How detailed should the scoring system be? It could range from a quick good/bad rating to a quantitative scale (i.e., 1 to 5, poor to good). Note that the more detailed the scoring system, the longer the inspection process will take at each location. Are there related suggestions you would like us to assess?*

Beltline/Battle Creek tunnel five-year inspection (Barr project manager: Sam Redinger; RWMWD project manager: Dave Vlasin)

The purpose of this project is to maintain the existing Beltline and Battle Creek tunnel systems and infrastructure owned and operated by the RWMWD.

With repairs complete, Barr is developing record drawings and a summary memorandum of the investigation and repairs conducted on McKnight Basin Structure 98. This memorandum may be provided to the Minnesota Department of Natural Resources in response to its dam inspection report from fall 2020 (the driver behind the McKnight Basin Structure 98 repairs).

The remaining portion of the 2020 inspection (the Mississippi River Branch and Battle Creek pipe), along with the Battle Creek pipe baseline survey, will be completed this fall/winter as flow conditions allow and the tunnel(s) can be accessed safely.

County Road D ravine (Barr project manager: Brandon Barnes; RWMWD project manager: Dave Vlasin)

The purpose of this project is to repair erosion and stabilize a ravine north of County Road D east of Highridge Court. The ravine conveys runoff from Maplewood and County Road D north into Vadnais Heights.

This month, Barr finished updating the district's stormwater model to calculate design flows. The model was updated using storm sewer information from the City of Maplewood for the drainage area tributary to the ravine. We are evaluating stabilization measures, including sizing riprap, turf reinforcement mat, and storm sewer. Evaluation of the watershed and design of restoration alternatives will continue for the next couple months. Final design of ravine restoration will be included in the RWMWD's 2022 CIP maintenance/repairs project.

CIP maintenance/repairs 2021 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 MS4 requirements.

As mentioned in last month's report, the contractor. the project is still on hold until actual work occurs at the Owasso Basin outlet channel. Channel cleanout has not been scheduled but is anticipated to be finished before the end of the year. The deadline for final contract payment is December 31, 2021.

New technology review: LG Sonic monitoring buoy and MPC-buoy (Barr project manager: Matt Kumka; RWMWD project manager: Tina Carstens)

The purpose of this project is to educate the board and RWMWD staff on new and interesting technologies and design strategies related to water quality improvement and other issues of concern within the district. The information below is based on manufacturer's claims and has not been a product that has been specifically tested by district staff or Barr unless stated as such.

Innovative technology	<ul style="list-style-type: none">▪ Real-time water quality (10-minute data intervals) delivered to user-friendly software accessed via the internet▪ The manufacturer claims it allows for algal bloom predictions▪ Can be equipped with sonic technology to stop algal blooms
Use	<ul style="list-style-type: none">▪ Monitoring buoy predicts future algal blooms with real-time data▪ MPC-buoy uses real-time data and applies sonar technology to reduce algal blooms
Benefits	<ul style="list-style-type: none">▪ Predicts algal blooms that may occur in three to 10 days with monitoring buoy▪ Reduce algal blooms by 70 to 90 percent with MPC-buoy▪ No chemicals▪ Safe for fish and other aquatic life▪ Autonomous with minimal maintenance▪ Solar powered▪ Monitors for a wide variety of parameters: dissolved oxygen, turbidity, pH, chlorophyll a, phycocyanin, redox conditions, temperature
Drawbacks	<ul style="list-style-type: none">▪ Ultrasonic sound waves do not go around corners or navigate around obstructions; therefore, multiple devices may be required for full coverage▪ High capital cost
Case studies	<ul style="list-style-type: none">▪ https://www.lgsonic.com/cases/three-rivers/▪ https://www.lgsonic.com/cases/clearwater-pmpc/
Suppliers/contacts	<ul style="list-style-type: none">▪ LG Sonic US (Scranton, PA)▪ 1-833-547-6642▪ us@lgsonic.com▪ https://www.lgsonic.com
Conclusion	<ul style="list-style-type: none">▪ IMonitoring buoy could be used to help warn the public about algal blooms, while MPC-buoy could minimize algal blooms with ultrasonic treatment▪ High capital cost for both types of buoys, but could be used to protect the public and prevent economic loss from lake closures

Technology description

LG Sonic has developed buoys that the manufacturer claims can predict or prevent algal blooms in a wide variety of scenarios and water bodies, such as lakes, ponds, and reservoirs. The monitoring buoy and the MPC-buoy share similar properties, including real-time monitoring sensors for dissolved oxygen, turbidity, pH, chlorophyll a, phycocyanin, redox conditions, and temperature. Data is collected every 10 minutes and can be accessed through user-friendly online software (figure 1). In addition, both systems are powered by solar panels. The primary difference: the monitoring buoy predicts algal blooms, while the MPC-buoy can be used to reduce algal blooms.

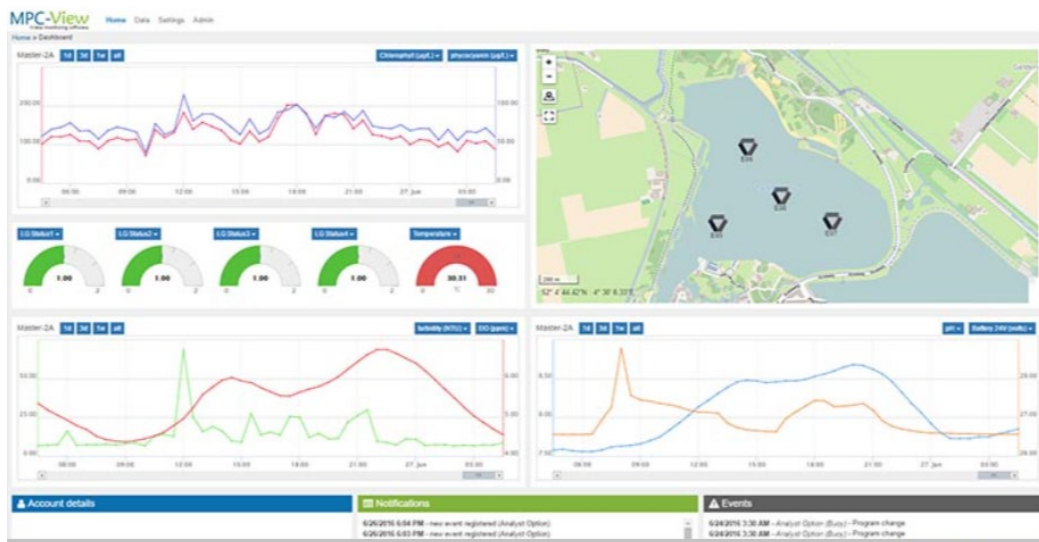


Figure 1: LG Sonic software display screen

LG Sonic monitoring buoy

The goal of the monitoring buoy (figure 2) is to use real-time data to identify and potentially predict algal blooms three to 10 days in advance. The monitoring buoy uses real-time data collected in 10-minute intervals and artificial intelligence to make future algal bloom predictions. If the artificial intelligence predicts an upcoming algal bloom, it will trigger an alarm to the software and alert the user. The user also has the option to upgrade the monitoring buoy to the MPC-buoy by equipping the buoy with sonar technology at a later date.



Figure 2: LG Sonic monitoring buoy

LG Sonic MPC-buoy

The MPC-buoy (figure 3) is the same as the monitoring buoy but with ultrasonic technology intended to reduce future algal blooms. (Ultrasonic technology was described in a previous RWMWD new technology review.) The difference is that ultrasonic treatment from the MPC-buoy is only emitted if the

artificial intelligence program has determined that an algal bloom has started or may potentially start soon. In addition, ultrasonic technology is most effective at minimizing algal blooms if released at the correct frequency. The appropriate ultrasonic frequency can be determined given current water quality conditions, which are monitored with the real-time sensors. The manufacturer claims the MPC-buoy can treat an area of up to 1,600 feet (500 meters) in diameter and, in some cases, the sonar technology can also reduce pH, total suspended solids, and biochemical oxygen demand. They also claim it can also eliminate 70 to 90 percent of existing and potential new algae and does not release toxins from algae, like most algae chemical treatment methods do. All of these claims would need to be tested prior to any recommendation by staff for wide-spread use.



Figure 3: LG Sonic MPC-Buoy

Video of LG Sonic MPC-buoy

- <https://www.youtube.com/watch?v=fOnla9QNwaw> (explanation of product)
- https://www.youtube.com/watch?v=vDe7fs_h-xc (application of product in New Jersey)

Cost

The cost of a monitoring buoy is \$35,302, which includes the buoy, sim card data with monthly use, anchor system, assistance with installation and online setup, and transport. The cost of an MPC-buoy is \$61,402 to incorporate the ultrasonic treatment technology.

Buoy selection

Selection will be dependent on the user's goal. If the primary objective is to warn the public about algal blooms, select the monitoring buoy. If the goal is to remove and minimize algal blooms, choose the MPC-buoy.

Installation and maintenance

The installation process starts with the buoy being constructed primarily on shore. Once assembly is complete, the buoy must be transported via boat to the appropriate location in the water body. LG Sonic selects the location, which is determined by the water body's size and shape. The buoy can be anchored to the water body and final installation, including mounting sensors, can be completed.

Both the MPC-buoy and monitoring buoy have minimal maintenance. All sensors on the buoys are equipped with wipers, which automatically clean sensors every 10 minutes (after each reading). The automated cleaning method means accurate readings and no user cleaning.

Conclusion

LG Sonic algae buoys present a new way to monitor, predict, and potentially control some algal blooms. The installation of the monitoring buoy allows for a convenient way to warn the public about upcoming algal blooms. (It is unclear whether the technology can identify harmful/toxic algal bloom specifically.) A

warning system of multiple days can be used instead of putting up signs the day of beach closures. Meanwhile, the installation of the MPC-buoy may allow for a unique method to treat and reduce future algal blooms in certain water bodies through a combination of real-time monitoring, artificial intelligence, and ultrasonic technology. Both LG Sonic buoys have a high capital cost but could be a technology that the RWMWD may want to test to determine if there are specific applications in the district that could benefit.

Natural Resources Update – Bill Bartodziej and Simba Blood

The extremely nice weather that we all experienced in September really maximized the NR team's productivity in the field. We were able to complete a seeding project at the new boat ramp at Phalen, conclude the plant survey of the Phalen restoration areas with the U of MN, continue site preparation and planting at Wetland A, and tackle maintenance activities at a variety of sites throughout the District. Hopefully, we will get a few more nice weeks in October that will allow for some bonus time in the field.



At the new Lake Phalen boat ramp, interns Mike and Emily stapled down biodegradable erosion control blanket after we broadcast a short grass prairie seed mix and an oats cover crop. Aggressive shoreland plant species like prairie cord grass, lake sedge, and Canada blue-joint were installed at the Normal Water Level.



We are teaming up with Dr. Sue Galatowitsch, U of MN, to conduct an extensive survey of the shore restoration areas on Phalen. The findings will be published in an ecological restoration journal. We were out two weeks ago to capture the asters in bloom. This is a very difficult group of plants to identify, thus we needed to observe the plants flowering to aid in their identification.



With the fairly persistent drawdown at Wetland A, we are seeing excellent germination of wetland species in exposed mudflat areas (shore areas). In the foreground, we see an extensive stand of soft-stem bulrush. Last fall, bulrush seed was harvested from sites around the watershed, and then broadcast along shore areas in the wetland.



In Keller Creek, this year, the emergent plant stands took advantage of the low water conditions and rapidly expanded along our shore restoration areas. We are even seeing one of our workhorse emergent species, burreed, establish in new areas along the shore. This is most likely from natural seed dispersal; seed floating on the water and settling in along the shore. This stretch of creek is likely the most ecologically diverse creek area that we have in our watershed.

Public Involvement and Education Program – Sage Passi

Boys and Girls Club Native Restoration Memorial Garden Nearing Completion



Boys and Girls Club Director, Koreena Moua, Watershed consultant, Cathy Troendle, Master Gardener, Cees Duijndam and youth from the Club prepare the front of the garden.

We are nearing the end of nine months of preparations and the creation of this 2650 square foot native garden that replaces a weedy compacted barren area in front of the Club. Components of the project have included: grant writing, planning, watershed education, initial design work, education and research about plants, garden and public art tours, sculpture design, site prep including weeding, mulch removal, fabric removal, bid securement, regrading, mulch replacement, layout for the final design, plant ordering and purchases, transporting the plants from multiple growers and stores and recruiting adult support including 9 Master Gardeners, 1 Master Naturalist and 3 Water Stewards. We are now in the final stretch of the garden project and are planting this largely native garden over the week of September 27 with youth volunteers and staff from the Club, adult volunteers and Watershed staff. L'Etoile du Nord fifth graders who can walk down the street a short distance from their school to the garden will also be helping with the planting. Behind the scenes, three youth artists from the Club have been working with artist-teacher, Aloun Phoulavan to design and create the sculpture models that will be used to create the molds for the two bronze sculptures that will be installed in the garden in coming months. Thank you to everyone who has contributed to this project including the St. Paul Garden Club who provided grant funding for plants and mulch and Watershed volunteers, Dana Boyle, Randee Edmundson and Stephanie Wang.





Looking at Battle Creek, Pigs Eye Lake and Čhokán Tanja Through Artists' Eyes

Lower Phalen Creek Project staff, East St. Paul artists and local community activists organized a public event called Painting in the Park on the bridge over Battle Creek in Pigs Eye Regional Park (see above middle photo) on September 18. Sage Passi, Kathy Sidles, an east St. Paul naturalist- pollinator watershed volunteer and several other residents from RWMWD, Capitol Region Watershed District and other communities around the Twin Cities participated in this tour and art experience.

Keeli Siyaka, a Sisseton Wahpeton Dakota and Environmental Justice Educator and Organizer for the Lower Phalen Creek Project (photo top left) led participants on a walk from the bridge down to Pigs Eye Lake following the flow of Battle Creek to this lake. She shared her knowledge about the Dakota's connections to this area known by the Dakota community as Čhokán Tanja (the "big middle") as it is referred to by their ancestors.

Watercolor artists Kiki Sonnen and Susan Dimond encouraged participants to observe the area's natural features, the creek, Pigs Eye Lake, its nearby ecology and plant and animal life, and then inspired the group to use these paints to capture their impressions of the area. Participants spread out on the bridge and painted for about forty-five minutes. After that, everyone shared their artwork with the group and talked about their observations and inspirations.

Tom Dimond and Kiki Sonnen, St. Paul residents who lead regular tours in the area, talked about the community's activism in the park, recent oil spills caused by the railroad in the area, remediation efforts and the impacts of this pollution on the creek and its ecology. They also touched on the long history of pollution in this area, the Super Fund waste dump in this area and efforts by the city of St. Paul to remediate these impacts as well as future plans for the area.

Kiki and Tom lead two weekly walking tours in the area on Tuesdays and Saturdays starting at 9:30 AM. Contact Kiki at kiki.sonnen@gmail.com to learn where to meet them and for more information. To learn more about this area, check out this recent blog entry from Lower Phalen Creek Project at <https://www.lowerphalencreek.org/lpcp-blog/2021/7/27/pollution-at-hok-taka-pigs-eye-regional-park>

Bikes and Blooms: A Water Steward Garden and Watershed Bike Tour in August



(Left) Tracy Leavenworth, RWMWD Education Consultant discussed the watershed issues in the Battle Creek subwatershed and the methods our Watershed District has used to address these challenges over the years. **(Right)** Karen Wenzel shows off the pollinator and watershed friendly landscaping in her front yard in East St. Paul. **(Right)** Bobbie Scott, the organizer and leader of the tour is the Water Steward who is wearing the blue bike helmet in this photo.

Bobbie Scott, RWMWD Minnesota Water Steward, organized a 10-mile bike ride on August 21 to introduce 20 participants to a wide variety of watershed friendly gardens, native plantings and landscaping projects on the East Side of St. Paul. This tour was a collaboration between Ramsey-Washington Metro Watershed District and SouthEast Community Organization (formerly called St. Paul's District 1 Community Council). Included in the tour were stops to see a variety of sites that included rain gardens at Sun Ray Library, a rain garden project completed by Battle Creek Middle School classes built with residents and Master Gardeners at a home near Battle Creek, native landscaping practices incorporated in Bobbie's boulevard garden that was converted from turf to native plants, a project she completed recently as her Water Steward capstone project.

This tour provided participants with the opportunity to learn about the history of water management in the Battle Creek area, view projects implemented to address flooding issues at the McKnight infiltration basins in Battle Creek Regional Park's Water Park and the weirs along the creek. The tour also introduced the group to a bee lawn/alternative turf project recently completed at a residence and a large front yard pollinator friendly native planting in Karen Wenzel's front yard. Thank you to the Water Stewards who assisted with this tour including Rachel Hanks, Bill Cranford, Bette Danielson, Stuart Knappmiller and Hallie Finucane and especially Bobbie Scott as well as the residents who hosted stops at the yards.

Communications Program Report – Lauren Hazenson

Website Redesign

St. Paul Media has conducted end-user interviews with eight people representing a wide range of interests, relationships with RWMWD, and website needs. City staff, a CAC member, Water Stewards, Businesses, Stewardship Grant recipients, nonprofit cultural organizations, residents, and event attendees are among those selected for end-user interviews. We also conducted stakeholder meetings with staff and the Board to assess stakeholder interests better.

A website analytics report and website health report were then completed to assess the current site performance. Lauren Hazenson, Simba Blood, and St. Paul Media will take this information and the interview content to compile a key findings report, create user personas, and present it to the Board at the November 3rd meeting.

The redesign process is proceeding on schedule, and if it continues, we expect to launch the new website at the beginning of May 2022.

Quarterly Emails and Content for City Communications Stakeholders

After conversations with various city communications staff over the past few months, I identified an opportunity to extend our messaging on seasonal watershed topics such as Adopt A Drain, smart salting, water-friendly yard care, and common concerns like algae. I will send periodic emails to city staff containing articles and social media content to share when they see fit during that particular season. This mailing allows city staff to address seasonal watershed questions and strengthens our relationship with our city stakeholders, which is useful when addressing more complex resident concerns promptly and efficiently. Our first mailing to this city audience covers fall yard care and Adopt A Drain.

Owasso Shoreline Restoration Outreach

I created a letter and a Nextdoor post for Lake Owasso's first neighborhood of shoreline restoration grants. These items are addressed to the first of three sections of Lake Owasso shoreline owners eligible for a grant during our multi-year project.

Phalen Chain Video Series

Videos on the Lake Phalen Chain beaches and Lake Gervais recreation opportunities were completed this month. I plan on presenting an expanded Phalen Lake Chain communication plan that includes feature articles, photos, and tabling materials at the October CAC meeting.

Stewardship Grant and Water Steward Videos

Sage requested videos featuring projects completed by individuals who are both Stewardship Grant Recipients and Minnesota Water Stewards to highlight the learning process when completing projects on their property. Lauren interviewed Paul Gardner, Rachel Hanks, and Bill Cranford and videotaped the

To: Board of Managers and Staff
From: Tina Carstens and Brad Lindaman
Subject: Project and Program Status Report October 2021
Date: September 29, 2021

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gardens on their properties. She will produce multiple small videos highlighting the Stewardship Grant and MN Water Steward programs from the footage.

Wetland A Project Feature Video

I interviewed Natural Resources staff, filmed the project location, and began editing a short video highlighting the extensive restoration completed at Wetland A over the last few years. This video and an article will be featured on the RWMWD homepage in late fall.

LEAP Award Recipient Videos

The five LEAP award recipient gardens were filmed in the event of online-only presentations or to supplement the award introductions for an in-person event.

Stewardship Grant Site Signage

These signs have been submitted for final design and fabrication, with planned installation in October.

ENewsletter September 17 Open rate: 33.2% Article link clicks: 10.7%

Note: MailChimp reported that a change in Apple privacy settings means we will no longer be able to track the open rate or clicks for emails viewed with Apple Mail. Apple Mail users make up 7.4% of our email recipients. This privacy setting change will likely cause a slight dip in the click and open rate percentages compared with previous emails.

Social Media (Facebook, Twitter, Instagram)

Numbers as of 9/27 for September:

Audience: 2,692

Impressions/Post Views: 12,673

Engagement (likes, comments, shares): 721

Nextdoor

Keller Parkway Construction, posted September 7 - 4 neighborhoods, 206 impressions

Miscellaneous Communications

- New Life Lutheran communications assistance
- Casey Lake communications assistance
- CAC meeting

Citizen Advisory Committee – Carrie Magnuson

The Citizen Advisory Committee met on September 28th, 2021. The group included staff members Carrie Magnuson, Sage Passi and Lauren Hazenson, and sixteen CAC members. The following initiatives were discussed and further developed

1. Watershed Excellence Awards – Selection of awardees and program planning: The CAC reviewed eight nominations and selected awardees (including two pairs of nominees) for the Board to review. Those nominations will be sent to the board for consideration ahead of the October 6th board meeting.

Following Board approval of candidates, a formal letter will go out to each individual.

The group also discussed the logistics of the Recognition Dinner including award presenters, commissioning the physical award, and managing time effectively.

2. Casey Lake Rain Garden Maintenance: With assistance from Simba Blood, the CAC would like to continue the service project to help clean up local rain gardens that need maintenance. The group decided on October 18th to do this again in 2021.
3. The CAC also reviewed major projects being done by RWMWD staff and partners.
4. Future meetings in 2021: October 26th, December 7th