



RAMSEY-WASHINGTON
METRO WATERSHED DISTRICT

September 2018 Board Packet

* * * * *

Agenda

* * * * *



RAMSEY-WASHINGTON

METRO WATERSHED DISTRICT

Regular Board Meeting Agenda

Wednesday, September 5, 2018

6:30 P.M.

District Office Board Room

2665 Noel Drive, Little Canada, MN

NOTE: Ahead of the meeting, at 5:00 p.m., board and staff will be visiting Wakefield Park in Maplewood to discuss a future project that is currently being planned and designed.

1. Call to Order – 6:30 PM
2. **Approval of Agenda**
3. **Consent Agenda**
 - A. Approval of Minutes August 1, 2018
4. **Treasurer's Report and Bill List**
5. Visitor Presentations
6. Permit Program
 - A. Applications
 - i. **18-23 Tamarack Hills Medical Office Building – Woodbury**
 - ii. **18-24 Roseville Luxury Apartments – Roseville**
 - iii. **18-25 Windwood Passage Park Improvements – Woodbury**
 - iv. **18-26 MnDOT I694/I494/I94 Loop – Woodbury, Oakdale**
 - B. Enforcement Action Report
7. Stewardship Grant Program
 - A. Applications
 - i. **18-20 CS Hollow Ponds, rain garden**
 - B. Budget Status Update
8. **2019 Preliminary Budget and Levy Public Hearing**
9. Action Items
 - A. **Approval of the 2019 Preliminary Budget and Levy Certification to Ramsey and Washington Counties – Resolution 18-06**
10. PRESENTATION: Communications and Education Program Planning – Chris O'Brien and Sage Passi

11. Administrator's Report
 - A. Meetings Attended
 - B. Upcoming Meetings and Dates
 - C. MAWD Updates and Resolution Information
12. Project and Program Status Reports
 - A. New Project Memo: District Office Porous Pavement Retrofit
 - B. Ongoing Project and Program Updates
 - i. Owasso Park Stormwater Master Plan
 - ii. Beltline Resiliency Study
 - iii. At Risk Subwatershed Feasibility Studies
 - iv. Emergency Response Planning
 - v. FEMA Flood Mapping Updates
 - vi. Snail Lake and Grass Lake Study and Berm Raise Project
 - vii. Snail, Grass and West Vadnais Lakes Outlet Permitting
 - viii. West to East Vadnais Gravity Flow Evaluation
 - ix. 500-Year Atlas 14 Modeling
 - x. Auto Lake Monitoring Systems
 - xi. Maplewood Mall Monitoring
 - xii. 2018 Grant Applications
 - xiii. Wakefield Lake Sediment Removal
 - xiv. Wakefield Park/Frost Avenue Project
 - xv. Frost/Kennard Spent Lime Project
 - xvi. Targeted Retrofit Projects
 - xvii. Roseville High School Campus Retrofit Feasibility Study
 - xviii. BMP Design Assistance and Review
 - xix. Willow Pond CMAC Project
 - xx. Beltline/Battle Creek Tunnel
 - xxi. CIP Maintenance/Repair 2018
 - xxii. Natural Resources Program
 - xxiii. Education Program
 - xxiv. Communications Program
13. Informational Items
14. Report of Managers
15. **Adjourn**

Items in **bold signify that an action needs to be taken by the Board.*

* * * * *

Consent Agenda

* * * * *



**Ramsey-Washington Metro Watershed District
Minutes of Regular Board Meeting
August 1, 2018**

The Regular Meeting of August 1, 2018, was held at the District Office Board Room, 2665 Noel Drive, Little Canada, Minnesota, at 6:30 p.m.

PRESENT:

Marj Ebensteiner, President
Cliff Aichinger, Vice President
Dianne Ward, Treasurer
Dr. Pam Skinner, Secretary
Lawrence Swope, Manager

ABSENT:

ALSO PRESENT:

Tina Carstens, District Administrator
Amanda Staple, Recording Secretary
Brad Lindaman, Barr Engineering
Brandon Barnes, Barr Engineering

Bill Bartodziej, Natural Resource Specialist
Viet-Hanh Winchell, Attorney for District
Nicole Soderholm, Permit Inspector
Chris O'Brien, Communications Coordinator

1. CALL TO ORDER

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

2. APPROVAL OF AGENDA

Motion: Dianne Ward moved, Dr. Pam Skinner seconded, to approve the agenda as presented. Motion carried unanimously.

3. CONSENT AGENDA

- A. Approval of Minutes from July 11, 2018
- B. Order Public Hearing for Review of the Preliminary 2018 Budget and Levy
- C. Approval of Local Water Management Plans
 - i. City of Roseville – Resolution 18-02
 - ii. City of Vadnais Heights – Resolution 18-03
 - iii. City of Shoreview – Resolution 18-04

Manager Swope reference the July 11, 2018, meeting minutes and noted that Brad Lindaman was not present and should not be listed. Tyler Olsen of Barr Engineering should be added.

Motion: Cliff Aichinger moved, Lawrence Swope seconded, to approve the consent agenda with the amendment to the July 11, 2018, minutes. Motion carried unanimously. (Ward abstained)

4. TREASURER'S REPORT AND BILL LIST

Motion: Dianne Ward moved, Dr. Pam Skinner seconded, to approve the August 1, 2018, bill list as submitted.

Motion carried unanimously.

5. VISITOR PRESENTATIONS There were none.

6. PERMIT PROGRAM

A. Applications

Permit #18-19: Roseville Area High School Remodel

Nicole Soderholm noted that these would be improvements to the existing high school. She stated that Barr Engineering is looking at a larger retrofit opportunity and will continue to discuss those options with the applicant. She noted that the proposed application does meet the necessary requirements of the District and confirmed that approving this permit would not preclude staff from continuing discussions with the applicant.

Motion: Dr. Pam Skinner moved, Cliff Aichinger seconded, to approve Permit #18-19.

Further discussion: Manager Skinner stated that it appears that more applications are using underground treatment options and asked if the percentage of impervious surface could be tracked. Tina Carstens stated that even with underground BMPs, the trend is to have similar or less impervious surface. Brad Lindaman agreed that developers are not going to build more than they need because of the costs.

Motion carried unanimously.

Permit #18-20: 3M Building 208 Annex – Maplewood

Motion: Cliff Aichinger moved, Lawrence Swope seconded, to approve Permit #18-20. Motion carried unanimously.

Permit #18-21: Margaret Street Pedestrian & Bike Improvements – St. Paul

Motion: Dianne Ward moved, Cliff Aichinger seconded, to approve Permit #18-21.

Further discussion: Manager Aichinger asked for details on the project. Nicole Soderholm reviewed the elements that would be included in the project.

Motion carried unanimously.

Permit #18-22: Richardson Elementary Addition – North St. Paul

Nicole Soderholm stated that this is another project where staff is speaking with the applicant to discuss additional options. She stated that the proposed permit would meet the requirements of the District and staff will continue discussions about the possibility of stormwater reuse.

Motion: Cliff Aichinger moved, Lawrence Swope seconded, to approve Permit #18-22. Motion carried unanimously.

B. Monthly Enforcement Report

During July, 20 notices were sent to address: install/maintain inlet protection (4), install/maintain perimeter control (4), install/maintain construction entrance (3), sweep streets (2), stabilize exposed soils (2), contain liquid/solid wastes (2), remove discharged sediment (1), protect/maintain permanent BMPs (1), and install/maintain ditch checks (1).

7. STEWARDSHIP GRANT PROGRAM

A. Applications None.

B. Budget Status Update No additional comments.

8. ACTION ITEMS

A. Willow Pond CMAC Bid Review and Approval

Brad Lindaman reported that there were three bidders. He stated that the engineer's estimate was \$275,000 and all three bids were within a small range. He stated that the low bidder has fulfilled all the bidding requirements and staff spoke with two of the three references and received positive feedback. He recommended awarding the contract to Peterson Companies, the lowest responsive and responsible bidder.

Motion: Cliff Aichinger moved, Dianne Ward seconded, to accept the bids and award the Willow Pond CMAC Project to Peterson Companies and direct staff to prepare and mail the notice of award, prepare the draft agreements, and review the required submittals. Motion carried unanimously.

9. PRESENTATION

A. Overview of Updates to District Stormwater Model and Results from Phase 1, Beltline Resiliency Study

Brandon Barnes, Barr Engineering, stated that the study looked for ways to mitigate flood risk and looked for modifications that could be made to the system without purchasing additional property. He highlighted previous District flood risk reduction projects that have been completed. He provided background information, noting that the District began updating its modeling in 2014 to use the Atlas 14 figures. He reviewed the steps in the process which included updating hydrologic/hydraulic models, identifying/prioritizing flood risk areas, and validating models with monitoring data. He stated that using that updated information, staff identified potential flood prone structures. He explained that this is a desktop model and no survey data was collected to verify the flood prone structures. He noted that only residential and public buildings were identified based on the simulation of surface runoff. He noted that there may be areas impacted by groundwater which are not shown. He explained that the phasing was developed with the intent of working from upstream to downstream. He stated that this information provides the starting point for phase one and provided figures of the inundation that currently occurs for some homeowners within the mobile home park near Owasso Basin. He stated that the resiliency analysis intends to show the magnitude of modifications that would be needed to avoid the buyout of properties. He stated that staff was able to find modifications to the system that could remove the inundated areas near Owasso basin. He noted that in some cases the modifications would be expensive and fairly significant and therefore modifications were grouped into four categories. He reviewed the system modifications within each of the four categories that could be made around the Owasso basin area to resolve the issue of inundation. He noted that each of the modifications within the four categories would be needed in order to resolve the issue.

Manager Aichinger stated that these improvements would need to be weighed against the cost of buying out the mobile home park to determine what would be more feasible. President Ebensteiner asked if the last row of homes could be purchased and then the berm in that location could be made larger. Brandon noted that elements of the different alternatives that were developed can be combined together to find an optimized cost for a project. Manager Skinner stated that these models seem to take into account previous data and perhaps predictions for the future would change the direction the District would like to go. Brandon confirmed that this model was developed to match what the District currently designs to and advised that the model can be flexed to show predictions for the future. He stated that this was just the first step in the process.

Manager Aichinger stated that public agencies are not obligated to do everything feasibly possible. He stated that there is a possibility that the mobile home park will flood and perhaps there is something the District can do in between to limit the loss of belongings and damage to vehicles rather than attempting to resolve the problem completely. Tina Carstens stated that the District continues to work on emergency management plans. Brad Lindaman confirmed that is a reasonable approach. He explained that the start is to develop this high-level plan to determine what could be done and then work down from there to determine what would actually be feasible. He provided an example of another District project which was completed and still left two homes within a floodplain because the cost to remove those homes would have been significantly higher.

Manager Skinner asked whose responsibility it would ultimately be to fix the problems that arise. Tina stated that is part of the discussion. She stated that the District developed this data in order to share the information on flood prone areas and confirmed that the District is not obligated to fix the problems. Brandon stated that the next step would be to move to phase two and identify additional tools that would not involve buyouts. He stated that the modeling will also be updated to reflect predictive weather trends and to update the FEMA flood maps.

Manager Skinner left the meeting at 7:50 p.m.

10. ADMINISTRATOR'S REPORT

A. Meetings Attended

Tina Carstens provided an update on a tour that occurred on July 26th with the Legislative Water Commission.

B. Upcoming Meetings and Dates No comments.

C. Minnesota Stormwater Research Council Funding Request

President Ebensteiner asked and received confirmation that this is a state-wide effort and that the District was one of seven funders the previous year. She asked why some of the other watersheds are not participating. Manager Aichinger stated that the group is attempting to bring in funding from other entities. He stated that last year was the first year and now that some work has been done they are hoping to gain additional funders. Tina stated that \$25,000 was contributed through the 2018 budget and confirmed the consensus of the Board to continue that contribution amount for 2019.

D. 2019 Budget Discussion

Tina Carstens provided details on certain line items including personnel costs, building maintenance, and water quality equipment. She stated that this budget does not include the carryover that will occur from the specific line items and confirmed that there will be carryover for certain line items. Manager Ward asked for information on the amount the District should hold in reserves and stated that she would want to avoid raising the levy to the extent possible. President Ebensteiner stated that in her opinion the District is here to complete projects and would want to ensure that there are adequate funds to complete those projects rather than reducing the ability to complete those projects. Tina provided additional details on proposed projects and capital improvements to obtain input from the Board.

Manager Aichinger stated that he has noticed the WaterFest budget increasing over the years and asked if a cost/benefit analysis has been done. He suggested that perhaps additional watersheds be brought in to share the cost. Tina stated that Capitol Region Watershed District has been brought in as a partner. She stated that the cost for the event has remained stable for the past two or three years. She noted that a full cost/benefit analysis has not been done on the event. She stated that participation has increased over the years, but noted that participation is weather dependent. Manager Aichinger stated that there are tangible results for the day of the event, but even more so, leading up to the event because of the marketing and publicity that occur prior to the event and the connections with the schools. He stated that it is a valuable event and he would like it to become even larger, but with the additional funding coming from outside of the District funds. Tina stated that there is a new coordinator this year and additional opportunities will be explored.

She stated that after tonight she will send the proposed budget with modifications, to the member cities to obtain comments and the document will also be posted on the District website in anticipation for the public hearing that will occur at the Board's September meeting. She stated that the preliminary budget will be adopted at the September meeting and advised that the Board will adopt the final budget at their meeting in December.

11. PROJECT AND PROGRAM STATUS REPORTS

A. Ongoing Project and Program Updates

- i. Beltline Resiliency Study
- ii. At Risk Subwatershed Feasibility Studies
- iii. Snail Lake and Grass Lake Study and Berm Raise Project

Brad Lindaman reported that the Grass Lake berm project is slow going, but there is quality work being completed. He stated that pipes at Vadnais Boulevard are in and the paving has been completed.

- iv. Snail, Grass and West Vadnais Lakes Outlet Permitting
- v. West to East Vadnais Gravity Flow Evaluation
- vi. District Wide Atlas 14 Modeling
- vii. Kohlman Weir Test System
- viii. Roseville High School Campus Retrofit Feasibility Study
- ix. Frost/Kennard Spent Lime Project
- x. Wakefield Park/Frost Avenue Project
- xi. Targeted Retrofit Projects

Tina noted that two projects within the targeted retrofit projects list will be sent out for bid.

- xii. BMP Design Assistance and Review
- xiii. Owasso Basin Improvements
- xiv. Beltline/Battle Creek Tunnel
- xv. CIP Maintenance/Repair 2018
- xvi. New Technology Case Study: FilterPave
- xvii. Natural Resources Program
- xviii. Education Program

Manager Aichinger asked and received confirmation that new pumps were installed on the cistern at Maplewood Mall that are working better.

- xix. Communications Program

12. INFORMATIONAL ITEMS No comments.

13. REPORTS OF MANAGERS No comments.

14. ADJOURN

Motion: Dianne Ward moved, Cliff Aichinger seconded, to adjourn the meeting at 8:38 p.m. Motion carried 4-0. (Dr. Pam Skinner absent.)

Respectfully submitted,

| Dr. Pam Skinner, Secretary

* * * * *

Bill List

* * * * *

RWMWD BUDGET STATUS REPORT
Administrative & Program Budget
Fiscal Year 2018
8/31/2018

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	\$6,500.00	-	-	2,180.00	\$4,320.00	33.54%
	Manager expenses	4360	3,500.00	-	-	729.18	2,770.82	20.83%
Committees	Committee/Bd Mtg. Exp.	4365	3,500.00	-	491.00	2,093.96	1,406.04	59.83%
Employees	Staff salary/taxes/benefits	4010	1,300,000.00	-	97,222.90	792,066.21	507,933.79	60.93%
	Employee expenses	4020	10,000.00	-	1,343.00	3,315.75	6,684.25	33.16%
	District training & education	4350	25,000.00	-	2,575.97	11,354.95	13,645.05	45.42%
Administration/ Office	GIS system maint. & equip.	4170	15,000.00	-	-	3,639.02	11,360.98	24.26%
	Data Base/GIS Maintenance	4171	15,000.00	-	-	1,300.00	13,700.00	8.67%
	Equipment maintenance	4305	3,000.00	-	-	1,430.83	1,569.17	47.69%
	Telephone	4310	8,000.00	-	661.04	2,260.12	5,739.88	28.25%
	Office supplies	4320	5,000.00	-	97.75	3,081.85	1,918.15	61.64%
	IT/Internet/Web Site/Software Lic.	4325	42,000.00	-	4,558.57	22,133.15	19,866.85	52.70%
	Postage	4330	10,000.00	-	-	2,132.12	7,867.88	21.32%
	Printing/copying	4335	8,000.00	-	893.29	3,403.89	4,596.11	42.55%
	Dues & publications	4338	11,000.00	-	-	7,739.00	3,261.00	70.35%
	Janitorial/Trash Service	4341	17,000.00	-	36.13	7,502.20	9,497.80	44.13%
	Utilities/Bldg.Contracts	4342	18,000.00	-	1,357.21	12,013.05	5,986.95	66.74%
	Bldg/Site Maintenance	4343	70,000.00	-	3,520.00	26,511.27	43,488.73	37.87%
	Miscellaneous	4390	5,000.00	-	-	325.19	4,674.81	6.50%
	Insurance	4480	35,000.00	-	-	33,814.00	1,186.00	96.61%
	Office equipment	4703	40,000.00	-	8.99	11,737.91	28,262.09	29.34%
	Vehicle lease, maintenance	4810-40	43,000.00	-	1,260.87	32,134.16	10,865.84	74.73%
Consultants/ Outside Services	Auditor/Accounting	4110	50,000.00	-	3,266.75	40,986.51	9,013.49	81.97%
	Engineering-administration	4121	93,000.00	-	7,099.66	44,025.84	48,974.16	47.34%
	Engineering-permit I&E	4122	15,000.00	-	-	3,155.00	11,845.00	21.03%
	Engineering-eng. review	4123	55,000.00	-	4,218.62	37,774.56	17,225.44	68.68%
	Engineering-permit review	4124	50,000.00	-	2,660.00	24,048.50	25,951.50	48.10%
	Project Feasibility Studies	4129	735,000.00	-	37,799.65	227,739.21	507,260.79	30.98%
	Attorney-permits	4130	10,000.00	-	136.00	1,161.28	8,838.72	11.61%
	Attorney-general	4131	40,000.00	-	1,685.00	9,531.00	30,469.00	23.83%
	Outside Consulting Services	4160	40,000.00	-	-	7,832.00	32,168.00	19.58%
Programs	Educational programming	4370	60,000.00	-	102.17	16,780.82	43,219.18	27.97%
	Communications & Marketing	4371	25,000.00	-	804.95	4,882.11	20,117.89	19.53%
	Events	4372	50,000.00	-	1,232.02	31,194.12	18,805.88	62.39%
	Water QM-Engineering	4520-30	513,000.00	-	13,651.36	68,893.64	444,106.36	13.43%
	Project operations	4650	140,000.00	-	455.40	89,133.82	50,866.18	63.67%
	SLMP/TMDL Studies	4661	115,000.00	-	8,233.97	14,952.67	100,047.33	13.00%
	Natural Resources/Keller Creek	4670-72	100,000.00	-	17,918.66	66,212.22	33,787.78	66.21%
	Outside Prog.Support/Weed Mgmt.	4683-84	70,000.00	-	639.45	32,301.91	37,698.09	46.15%
	Research Projects	4695	100,000.00	-	480.50	37,012.13	62,987.87	37.01%
	Health and Safety Program	4697	2,000.00	-	730.77	2,747.54	(747.54)	137.38%
	NPDES Phase II	4698	20,000.00	-	21.00	3,958.00	16,042.00	19.79%
	Atlas 14 Watershed Modeling	4732	-	-	-	-	-	0.00%
GENERAL FUND TOTAL			\$3,976,500.00	\$0.00	\$215,162.65	\$1,747,220.69	\$2,229,279.31	43.94%
CIP's	CIP Project Repair & Maintenance	516	1,000,000.00	-	144,767.74	661,126.82	338,873.18	66.11%
	Targeted Retrofit Projects	518	800,000.00	-	8,592.00	51,190.43	748,809.57	6.40%
	District Office Building Solar Energy Retrofit	519	150,000.00	-	29,690.00	68,410.00	81,590.00	45.61%
	Flood Damage Reduction Fund	520	2,000,000.00	-	3,746.66	69,292.86	1,930,707.14	3.46%
	Debt Services-96-97 Beltline/MM/Battle Creek	526	448,951.00	-	-	387,618.43	61,332.57	86.34%
	Stewardship Grant Program Fund	528-529	800,000.00	-	35,206.37	387,741.75	412,258.25	48.47%
	Impervious Surface Volume Reduction Opportunity	531	1,500,000.00	-	-	-	1,500,000.00	0.00%
	Beltline & Battle Creek Tunnel Repair	549	-	-	4,838.50	1,568,565.59	(1,568,565.59)	---
	Frost/Kennard Enhanced WQ BMP	550	400,000.00	-	287.00	24,584.71	375,415.29	6.15%
	Markham Pond Dredging & Aeration	551	25,000.00	-	-	-	25,000.00	0.00%
	Wakefield Park Project	553	1,100,000.00	-	2,697.00	37,585.93	1,062,414.07	3.42%
	Willow Pond CMAC	554	400,000.00	-	20,477.69	105,515.23	294,484.77	26.38%
	District Office Bond Payment	585	194,885.00	-	-	196,983.53	(2,098.53)	101.08%
CIP BUDGET TOTAL			\$8,818,836.00	-	\$250,302.96	\$3,558,615.28	\$5,260,220.72	40.35%
TOTAL BUDGET			\$12,795,336.00	\$0.00	\$465,465.61	\$5,305,835.97	\$7,489,500.03	41.47%

Current Fund Balances:

Fund:	Beginning Fund Balance @ 12/31/17	Fund Transfers	Year to date Revenue	Current Month Expenses	Year to Date Expense	Fund Balance @ 08/31/18
101 - General Fund	\$4,329,903.56	-	1,508,309.42	215,162.65	1,747,220.69	4090992.29
516 - CIP Project Repair & Maintenance	615,041.00	-	576,098.50	144,767.74	661,126.82	530012.68
518 - Targeted Retrofit Projects	836,989.00	-	171,505.91	8,592.00	51,190.43	957304.48
519 - District Office Building Solar Energy Retrofit	129,623.00	-	-	29,690.00	68,410.00	61213
520 - Flood Damage Reduction Fund	1,118,749.00	-	438,713.72	3,746.66	69,292.86	1488169.86
526 - Debt Services-96-97 Beltline/MM/Beltline-Battle Creek Tunnel Repair	359,578.00	-	234,211.69	-	387,618.43	206171.26
528/529 - Stewardship Grant Program Fund	561,388.00	-	223,674.61	35,206.37	387,741.75	397320.86
531 - Impervious Surface Volume Reduction Opportunity	1,484,215.00	-	-	-	-	1484215
549 - Beltline & Battle Creek Tunnel Repair	2,407,984.00	-	-	4,838.50	1,568,565.59	839418.41
550 - Frost/Kennard Enhanced WQ BMP	119,513.00	-	13,042.17	287.00	24,584.71	107970.46
551 - Markham Pond Dredging & Aeration	110,411.00	-	-	-	-	110411
553 - Wakefield Park Project	351,874.00	-	391,264.88	2,697.00	37,585.93	705552.95
554 - Willow Pond CMAC	-	-	208,674.61	20,477.69	105,515.23	103159.38
580 - Contingency Fund	476,100.94	-	-	-	-	476100.94
585 - Certificates of Participation	133,637.00	-	101,668.87	-	196,983.53	38322.34
Total District Fund Balance	\$13,035,006.50	-	\$ 3,867,164.38	\$ 465,465.61	\$5,305,835.97	\$11,596,334.91

Ramsey Washington Metro Watershed Dist.
Check Register
For the Period From Aug 1, 2018 to Aug 31, 2018

Check #	Date	Payee ID	Payee	Description	Amount
EFT	08/01/18	met008	MetLife-Group Benefits	Employee Benefits	\$1,196.21
EFT	08/10/18	hea002	HealthPartners	Employee Benefits	10,094.01
70017V	08/01/18	bar001	Barr Engineering	VOID	(\$147,896.92)
70022V	08/01/18	cad003	Cady Building Maintenance, Inc.	VOID	(773.44)
70128	08/09/18	ada002	Adam's Pest Control, Inc.	Utilities/Building Contracts	79.00
70129	08/09/18	aws001	AWS Service Center	Janitorial/Trash Service	187.57
70130	08/09/18	bar001	Barr Engineering	Re-Issue Check #70017	147,896.92
70131	08/09/18	bro001	Brock White, Inc.	Natural Resources Project	161.83
70132	08/09/18	cit001	City of Little Canada	Utilities/Building Contracts	140.93
70133	08/09/18	gil001	Gilbert Mechanical Contractors, Inc.	Building/Site Maintenance	3,520.00
70134	08/09/18	hej001	Hejny Rental	Natural Resources Project	175.22
70135	08/09/18	hen002	Henriksen Ace Hardware	Natural Resources Project	26.11
70136	08/09/18	hom001	Home Depot Credit Services	Water QM Staff/Natural Res	544.71
70137	08/09/18	ing002	INGCO International, Inc.	Communications & Marketing	250.00
70138	08/09/18	ncp001	NCPERS Minnesota	Employee Benefits	16.00
70139	08/09/18	pre003	Premium Waters, Inc.	Utilities/Building Contracts	19.00
70140	08/09/18	vik001	Viking Industrial Center	Health & Safety Program	234.10
70141	08/09/18	voy001	US Bank Voyager Fleet Sys.	Vehicle Expense	528.45
70142	08/28/18	ada002	Adam's Pest Control, Inc.	Utilities/Building Contracts	79.00
70143	08/28/18	ahl001	Paige Ahlborg	Employee Reimbursement	191.73
70144	08/28/18	all004	allstream	Project Operations	64.76
70145	08/28/18	all005	All Energy Solar, Inc.	Eng-District Office Solar Energy	29,116.00
70146	08/28/18	att002	AT & T Mobility - ROC	IT/Website/Software	44.03
70147	08/28/18	bar001	Barr Engineering	July/August Engineering	118,814.38
70148	08/28/18	bar002	Bill Bartodziej	Employee Reimbursement	1,398.69
70149	08/28/18	bar004	Deborah Barnes	Employee Reimbursement	66.87
70150	08/28/18	bis001	Bismark Builders, LLC	Dev.Escrow-General	360.00
70151	08/28/18	car007	Carp Solutions, LLC	Natural Resources Project	3,185.70
70152	08/28/18	cit011	City of Roseville	Telephone/IT/Website/Software	5,027.64
70153	08/28/18	dav002	Davis Real Estate Services Group, LLC	Dev.Escrow-General	46,200.00
70154	08/28/18	dun001	Samuel P. Duncanson	Employee Reimbursement	111.18
70155	08/28/18	fit001	Fitzgerald Excavating & Trucking, Inc.	Progress Pays #1 & #4	103,902.60
70156	08/28/18	gal001	Galowitz Olson, PLLC	July Legal Expense	1,821.00
70157	08/28/18	gou001	Ryan J. Gould	Employee Reimbursement	35.97
70158	08/28/18	gra005	Grainger	Health & Safety Program	413.00
70159	08/28/18	hej001	Hejny Rental	Natural Resources Project	83.92
70160	08/28/18	hmo001	Hmong Village, Inc.	Dev.Escrow-General	8,040.00
70161	08/28/18	inn002	Innovative Office Solutions LLC	Office Supplies	50.76
70162	08/28/18	int001	Office of MN, IT Services	Telephone Expense	55.40
70163	08/28/18	ipa001	IPAW	Training & Education	290.00
70164	08/28/18	kor001	Eric Korte	Employee Reimbursement	138.43
70165	08/28/18	lak007	Lakes Aquatic Weed Removal	Natural Resources Project	6,022.50
70166	08/28/18	lan003	Lancer Catering	Events	750.00
70167	08/28/18	lan009	Landbridge Ecological	Construction-Maint. & Repair	9,353.35
70168	08/28/18	mel001	Michelle L. Melsner	Employee Reimbursement	82.16
70169	08/28/18	met004	Metro Sales, Inc.	Printing Expense	607.62
70170	08/28/18	min007	Minger Construction Co., Inc.	Progress Pay #3-Final	17,654.50
70171	08/28/18	min008	Minnesota Native Landscapes, Inc.	Keller Creek Project	60.00
70172	08/28/18	nat003	Michelle Natarajan	Stewardship Grant	758.45

Ramsey Washington Metro Watershed Dist.
Check Register
For the Period From Aug 1, 2018 to Aug 31, 2018

Check #	Date	Payee ID	Payee	Description	Amount
70173	08/28/18	ncp001	NCPERS Minnesota	Employee Benefits	16.00
70174	08/28/18	nsp001	Xcel Energy	Utilities/Project Operations	1,185.75
70175	08/28/18	obr001	Christopher O'Brien	Employee Reimbursement	110.76
70176	08/28/18	omo001	Nicholas D. Omodt	Employee Reimbursement	13.63
70177	08/28/18	out001	Outdoor Lab Landscape Design, Inc.	Construction-Maint. & Repair	8,527.50
70178	08/28/18	pac001	Pace Analytical Services, Inc.	Water QM Staff-General	2,604.00
70179	08/28/18	pac001	Pace Analytical Services, Inc.	Water QM Staff-General	3,536.00
70180	08/28/18	pas002	Sage Passi	Employee Reimbursement	220.17
70181	08/28/18	pau001	David Paulu & Melissa Wenzel	Stewardship Grant	1,378.44
70182	08/28/18	pec001	Melissa Peck	Stewardship Grant	1,229.12
70183	08/28/18	pro003	Lyndsey R. Provos	Employee Reimbursement	457.93
70184	08/28/18	qwe001	CenturyLink	Project Operations	230.67
70185	08/28/18	ram002	Ramsey County	Keller Creek/Natural Res/Stewardship	6,184.25
70186	08/28/18	red002	Redpath & Company, Ltd	July Accounting Services	3,266.75
70187	08/28/18	ros004	Roseville Midway Ford	Vehcile Expense	146.77
70188	08/28/18	sab001	Troy Sabean	Stewardship Grant	882.36
70189	08/28/18	sch009	Schlomka Services, LLC	Construction-Maint. & Repair	1,480.00
70190	08/28/18	sod001	Nicole Soderholm	Employee Reimbursement	78.15
70191	08/28/18	tim002	Timesaver Off-Site Secretarial, Inc.	Committee/Board Meeting Expense	491.00
70192	08/28/18	uni006	University of Minnesota	Training & Education	140.00
70193	08/28/18	usb002	U.S. Bank	Monthly Credit Card Expense	6,561.44
70194	08/28/18	usb005	US Bank Equipment Finance	Printing Expense	285.67
70195	08/28/18	van001	Vanguard Cleaning Systems of Minnesota	Janitorial/Trash Service	550.00
70196	08/28/18	ves001	Peter Vesterholt	Stewardship Grant	13,251.50
70197	08/28/18	voy001	US Bank Voyager Fleet Sys.	Vehcile Expense	483.51
70198	08/28/18	wal005	Heidi Walz	Stewardship Grant	4,587.50
70199	08/28/18	was007	Washington Conservation District	Stewardship Grant	5,493.50
70200	08/28/18	wil007	Patrick Williamson	Employee Reimbursement	38.15
70201	08/28/18	wil008	Wilson II Apartments, LP	Dev.Escrow-General	15,000.00
70202	08/28/18	win002	Windmill Design Incorporated	Communications & Marketing	420.00
Total					<u>\$450,029.86</u>

Ramsey Washington Metro Watershed Dist.
Cash Disbursements Journal
For the Period From Aug 1, 2018 - Aug 31, 2018

Date	Check #	Vendor ID	Name	Account ID	Account Description	Amount	Check Detail
08/01/18	EFT	met008	MetLife-Group Benefits			\$1,196.21	
				4040-101-000	Employee Benefits-General		988.14
				2015-101-000	Employee Health-General		208.07
08/10/18	EFT	hea002	HealthPartners			10,094.01	
				4040-101-000	Employee Benefits-General		8,123.52
				2015-101-000	Employee Health-General		1,970.49
08/01/18	70017V	bar001	Barr Engineering-VOID	---	VOID	(147,896.92)	
08/01/18	70022V	cad003	Cady Building Maintenance-VOID	4341-101-000	Janitorial/Trash Service	(773.44)	
08/09/18	70128	ada002	Adam's Pest Control	4342-101-000	Utilities/Bldg. Contracts	79.00	
08/09/18	70129	aws001	AWS Service Center	4341-101-000	Janitorial/Trash Service	187.57	
08/09/18	70130	bar001	Barr Engineering-Re-Issue for Check. #70017	---	Re-Issue Check #70017	147,896.92	
08/09/18	70131	bro001	Brock White, Inc.	4670-101-000	Nataural Resources Project-General	161.83	
08/09/18	70132	cit001	City of Little Canada	4342-101-000	Utilities/Bldg. Contracts	140.93	
08/09/18	70133	gil001	Gilbert Mechanical Contractors, Inc.	4343-101-000	Bldg./Site Maintenance	3,520.00	
08/09/18	70134	hej001	Hejny Rental	4670-101-000	Nataural Resources Project-General	175.22	
08/09/18	70135	hen002	Henriksen Ace Hardware	4670-101-000	Nataural Resources Project-General	26.11	
08/09/18	70136	hom001	Home Depot Credit Services			544.71	
				4530-101-000	Water QM Staff-General		233.84
				4670-101-000	Natural Resources Project-General		310.87
08/09/18	70137	ing002	INGCO International, Inc.	4371-101-000	Communications & Marketing	250.00	
08/09/18	70138	ncp001	NCPERS Minnesota	2015-101-000	Employee Health-General	16.00	
08/09/18	70139	pre003	Premium Waters, Inc.	4342-101-000	Utilities/Bldg. Contracts	19.00	
08/09/18	70140	vik001	Viking Industrial Center	4697-101-000	Health & Safety Program	234.10	
08/09/18	70141	voy001	US Bank Voyager Fleet Sys.	4830-101-000	Vehicle-Fuel	528.45	
08/28/18	70142	ada002	Adam's Pest Control	4342-101-000	Utilities/Bldg. Contracts	79.00	
08/28/18	70143	ahl001	Paige Ahlborg			191.73	
				4040-101-000	Employee Benefits-General		80.00
				4020-101-000	Employee Expenses-General		111.73
08/28/18	70144	all004	allstream	4650-101-000	Project Operations-General	64.76	
08/28/18	70145	all005	All Energy Solar, Inc.	4128-519-000	Engineering-District Office Solar Energy	29,116.00	
08/28/18	70146	att002	AT & T Mobility - ROC	4325-101-000	IT/Website/Software	44.03	
08/28/18	70147	bar001	Barr Engineering			118,814.38	
				4121-101-000	Engineering Admin-General Fund		7,099.66
				4697-101-000	Health & Safety Program		29.43
				4698-101-000	Engineering-NPDES Phase II		21.00
				4123-101-000	Engineering-Review		4,218.62
				4129-101-000	Project Feasability-General		3,456.50
				4129-101-000	Project Feasability-General		8,549.43
				4129-101-000	Project Feasability-General		1,453.00
				4129-101-000	Project Feasability-General		2,224.00
				4129-101-000	Project Feasability-General		2,541.50
				4129-101-000	Project Feasability-General		6,519.06
				4129-101-000	Project Feasability-General		330.00
				4129-101-000	Project Feasability-General		330.00

Ramsey Washington Metro Watershed Dist.
Cash Disbursements Journal
For the Period From Aug 1, 2018 - Aug 31, 2018

Date	Check #	Vendor ID	Name	Account ID	Account Description	Amount	Check Detail
				4129-101-000	Project Feasability-General		82.50
				4129-101-000	Project Feasability-General		1,494.16
				4129-101-000	Project Feasability-General		984.00
				4129-101-000	Project Feasability-General		587.00
				4129-101-000	Project Feasability-General		9,248.50
				4520-101-000	Water QM-Engineering		2,209.50
				4520-101-000	Water QM-Engineering		4,691.70
				4124-101-000	Engineering-Permit Review		2,660.00
				4661-101-000	SLMP/TMDL Studies		412.50
				4661-101-000	SLMP/TMDL Studies		7,821.47
				4695-101-000	Research Projects-General		400.50
				4695-101-000	Research Projects-General		80.00
				4650-101-000	Project Operations-General		13.50
				4128-553-000	Engineering-Wakefield		2,697.00
				4128-550-000	Engineering-Frost/Kennard		287.00
				4128-518-000	Engineering-School/Commer Retrofit		2,091.00
				4128-518-000	Engineering-School/Commer Retrofit		2,212.00
				4128-518-000	Engineering-School/Commer Retrofit		2,249.00
				4128-518-000	Engineering-School/Commer Retrofit		2,040.00
				4682-529-000	Stewardship Grant Program		5,848.50
				4128-528-000	Engineering-Faith Based		1,705.00
				4128-554-000	Engineering-Willow Pond		19,477.69
				4128-520-000	Engineering-Flood Damage		3,298.16
				4128-520-000	Engineering-Flood Damage		448.50
				4128-519-000	Engineering-District Office Solar Energy		574.00
				4128-549-000	Engineering-Beltline/Battle Creek		4,838.50
				4128-516-000	Engineering-Projects Maint. & Repair		949.00
				4128-516-000	Engineering-Projects Maint. & Repair		2,641.50
08/28/18	70148	bar002	Bill Bartodziej			1,398.69	
				4040-101-000	Employee Benefits-General		587.79
				4020-101-000	Employee Expense-General		771.18
				4670-101-000	Natural Resources Project-General		39.72
08/28/18	70149	bar004	Deborah Barnes			66.87	
				4040-101-000	Employee Benefits-General		46.87
				4020-101-000	Employee Expenses-General		20.00
08/28/18	70150	bis001	Bismark Builders, LLC	2024-101-000	Dev Escrow-General	360.00	
08/28/18	70151	car007	Carp Solutions, LLC	4670-101-000	Natural Resources Project-General	3,185.70	
	70152	cit011	City of Roseville			5,027.64	
				4325-101-000	IT/Website/Software		2,211.00
				4310-101-000	Telephone-General		302.82
				4325-101-000	IT/Website/Software		2,211.00
				4130-101-000	Attorney General-Permits		302.82
08/28/18	70153	dav002	Davis Real Estate Services Group, LLC	2024-101-000	Dev Escrow-General	46,200.00	
08/28/18	70154	dun001	Samuel P. Duncanson	4020-101-000	Employee Expenses-General	111.18	

Ramsey Washington Metro Watershed Dist.
Cash Disbursements Journal
For the Period From Aug 1, 2018 - Aug 31, 2018

Date	Check #	Vendor ID	Name	Account ID	Account Description	Amount	Check Detail
08/28/18	70155	fit001	Fitzgerald Excavating & Trucking, Inc.			103,902.60	
				4630-516-000	Construction Imp-Maint. & Rep.		59,890.60
				4630-516-000	Construction Imp-Maint. & Rep.		44,012.00
08/28/18	70156	gal001	Galowitz Olson, PLLC			1,821.00	
				4131-101-000	Attorney General-General Fund		1,685.00
				4130-101-000	Attorney General-Permits		136.00
08/28/18	70157	gou001	Ryan J. Gould	4020-101-000	Employee Expenses-General	35.97	
08/28/18	70158	gra005	Grainger	4697-101-000	Health & Safety Program	413.00	
08/28/18	70159	hej001	Hejny Rental	4670-101-000	Natural Resources Project-General	83.92	
08/28/18	70160	hmo001	Hmong Village, Inc.	2024-101-000	Dev Escrow-General	8,040.00	
08/28/18	70161	inn002	Innovative Office Solutions, LLC	4320-101-000	Office Supplies-General	50.76	
08/28/18	70162	int001	Office of MN, IT Services	4310-101-000	Telephone-General	55.40	
08/28/18	70163	ipa001	IPAW	4350-101-000	Training & Education-General	290.00	
08/28/18	70164	kor001	Eric Korte			138.43	
				4040-101-000	Employee Benefits-General		40.00
				4020-101-000	Employee Expenses-General		98.43
08/28/18	70165	lak007	Lake Aquatic Weed Removal	4670-101-000	Natural Resources Project-General	6,022.50	
08/28/18	70166	lan003	Lancer Catering	4372-101-000	Events	750.00	
08/28/18	70167	lan009	Landbridge Ecological			9,353.35	
				4630-516-000	Construction Imp-Maint. & Rep.		6,733.35
				4630-516-000	Construction Imp-Maint. & Rep.		2,620.00
08/28/18	70168	mel001	Michelle Melser			82.16	
				4040-101-000	Employee Benefits-General		30.17
				4020-101-000	Employee Expense-General		51.99
08/28/18	70169	met004	Metro Sales, Inc.	4335-101-000	Printing-General	607.62	
08/28/18	70170	min007	Minger Construction Co., Inc.	4630-516-000	Construction Imp-Maint. & Rep.	17,654.50	
08/28/18	70171	min008	Minnesota Native Landscape, Inc.	4672-101-000	Keller Creek Project	60.00	
08/28/18	70172	nat003	Michelle Natarajan	4682-529-000	Stewardship Grant Program	758.45	
08/28/18	70173	ncp001	NCPERS Minnesota	2015-101-000	Employee Health-General	16.00	
08/28/18	70174	nsp001	Xcel Energy			1,185.75	
				4342-101-000	Utilities/Bldg. Contracts		1,039.28
				4650-101-000	Project Operations-General		146.47
08/28/18	70175	obr001	Christopher O'Brien			110.76	
				4371-101-000	Communications & Marketing		54.95
				4020-101-000	Employee Expenses-General		15.81
				4040-101-000	Employee Benefits-General		40.00
08/28/18	70176	omo001	Nicholas Omodt	4020-101-000	Employee Expense-General	13.63	
08/28/18	70177	out001	Outdoor Lab Landscape Design, Inc.	4630-516-000	Construction Imp-Maint. & Rep.	8,527.50	
08/28/18	70178	pac001	Pace Analytical Services, Inc.			2,604.00	
				4530-101-000	Water QM Staff-General		277.00
				4530-101-000	Water QM Staff-General		277.00
				4530-101-000	Water QM Staff-General		188.00
				4530-101-000	Water QM Staff-General		120.00
				4530-101-000	Water QM Staff-General		426.00

Ramsey Washington Metro Watershed Dist.
Cash Disbursements Journal
For the Period From Aug 1, 2018 - Aug 31, 2018

Date	Check #	Vendor ID	Name	Account ID	Account Description	Amount	Check Detail
				4530-101-000	Water QM Staff-General		408.00
				4530-101-000	Water QM Staff-General		92.00
				4530-101-000	Water QM Staff-General		207.00
				4530-101-000	Water QM Staff-General		323.00
				4530-101-000	Water QM Staff-General		286.00
08/28/18	70179	pac001	Pace Analytical Services, Inc.			3,536.00	
				4530-101-000	Water QM Staff-General		385.00
				4530-101-000	Water QM Staff-General		307.00
				4530-101-000	Water QM Staff-General		426.00
				4530-101-000	Water QM Staff-General		262.00
				4530-101-000	Water QM Staff-General		323.00
				4530-101-000	Water QM Staff-General		408.00
				4530-101-000	Water QM Staff-General		426.00
				4530-101-000	Water QM Staff-General		277.00
				4530-101-000	Water QM Staff-General		399.00
				4530-101-000	Water QM Staff-General		323.00
08/28/18	70180	pas002	Sage Passi			220.17	
				4040-101-000	Employee Benefits-General		118.00
				4370-101-000	Educational Program-General		102.17
08/28/18	70181	pau001	David Paulu & Melissa Wenzel			1,378.44	
08/28/18	70182	pec001	Melissa Peck			1,229.12	
08/28/18	70183	pro003	Lyndsey R. Provos			457.93	
				4020-101-000	Employee Expenses-General		36.78
				4040-101-000	Employee Benefits-General		80.00
				4350-101-000	Training & Education-General		341.15
08/28/18	70184	qwe001	CenturyLink			230.67	
08/28/18	70185	ram002	Ramsey County			6,184.25	
				4672-101-000	Keller Creek Project		326.00
				4670-101-000	Natural Resources Project-General		700.00
				4672-101-000	Keller Creek Project		4,292.00
				4670-101-000	Natural Resources Project-General		62.25
				4672-101-000	Keller Creek Project		732.00
				4682-529-000	Stewardship Grant Program		72.00
08/28/18	70186	red002	Redpath & Company, Ltd.			3,266.75	
08/28/18	70187	ros004	Roseville Midway Ford			146.77	
08/28/18	70188	sab001	Troy Sabean			882.36	
08/28/18	70189	sch009	Schlomka Services, LLC			1,480.00	
08/28/18	70190	sod001	Nichole Soderholm			78.15	
				4040-101-000	Employee Benefits-General		40.00
				4020-101-000	Employee Expenses-General		38.15
08/28/18	70191	tim002	Timesaver Off-Site Secretarial, Inc.			491.00	
				4365-101-000	Committee/Board Meeting Expense		245.50
				4365-101-000	Committee/Board Meeting Expense		245.50
08/28/18	70192	uni006	University of Minnesota			140.00	
				4350-101-000	Training & Education-General		

Ramsey Washington Metro Watershed Dist.
Cash Disbursements Journal
For the Period From Aug 1, 2018 - Aug 31, 2018

Date	Check #	Vendor ID	Name	Account ID	Account Description	Amount	Check Detail
08/28/18	70193	usb002	U.S. Bancorp			6,561.44	
				4840-101-000	Vehicle-Misc.		102.14
				4630-516-000	Construction Imp.-Maint. & Repair		39.30
				4341-101-000	Janitorial/Trash Service		20.00
				4325-101-000	IT/Website/Software		92.54
				4670-101-000	Natural Resources Project-General		67.48
				4320-101-000	Office Supplies-General		15.95
				4320-101-000	Office Supplies-General		12.79
				4703-101-000	Office Equipment-General		8.99
				4530-101-000	Water QM Staff-General		35.36
				4320-101-000	Office Supplies-General		5.36
				4697-101-000	Health & Safety Program		29.08
				4697-101-000	Health & Safety Program		25.16
				4350-101-000	Training & Education-General		13.96
				4320-101-000	Office Supplies-General		12.89
				4372-101-000	Events		158.16
				4630-516-000	Construction Imp.-Maint. & Repair		219.99
				4350-101-000	Training & Education-General		239.88
				4350-101-000	Training & Education-General		121.98
				4670-101-000	Natural Resources Project-General		101.70
				4372-101-000	Events		122.56
				4670-101-000	Natural Resources Project-General		246.38
				4530-101-000	Water QM Staff-General		340.96
				4372-101-000	Events		182.35
				4630-554-000	Construction Imp.-Willow Pond CMAC		1,000.00
				4350-101-000	Training & Education-General		535.00
				4350-101-000	Training & Education-General		679.00
				4372-101-000	Events		18.95
				4670-101-000	Natural Resources Project-General		1,324.98
				4341-101-000	Janitorial/Trash Service		52.00
				4371-101-000	Communications & Marketing		80.00
				4040-101-000	Employee Benefits-General		441.55
				4350-101-000	Training & Education-General		215.00
08/28/18	70194	usb005	US Bank Equipment Finance	4335-101-000	Printing-General	285.67	
08/28/18	70195	van001	Vanguard Cleaning Systems of Minnesota	4341-101-000	Janitorial/Trash Service	550.00	
08/28/18	70196	ves001	Peter Vesterhold	4682-529-000	Stewardship Grant Program	13,251.50	
08/28/18	70197	voy001	US Bank Voyager Fleet Sys.	4830-101-000	Vehicle Expense-Fuel	483.51	
08/28/18	70198	wal005	Heidi Halz	4682-529-000	Stewardship Grant Program	4,587.50	
08/28/18	70199	was007	Washington Conservation District	4682-529-000	Stewardship Grant Program	5,493.50	
08/28/18	70200	wil007	Patrick Williamson	4020-101-000	Employee Expense-General	38.15	
08/28/18	70201	wil008	Wilson II Apartments, LP	2024-101-000	Dev Escrow-General	15,000.00	
08/28/18	70202	win002	Windmill Design Incorporated	4371-101-000	Communications & Marketing	420.00	
						\$450,029.86	



**Summary of Professional Engineering Services During the Period
July 14, 2018 through August 17, 2018**

	Total Budget* (2018)	Total Fees to Date (2018)	Budget Balance (2018)	Fees During Period	District Accounting Code	Plan Imple- mentation Task Number
Engineering Administration						
General Engineering Administration	\$76,000.00	\$44,025.84	\$31,974.16	\$7,099.66	4121-101	DW-13
RWMWD Health and Safety/ERTK Program	\$2,000.00	\$1,385.43	\$614.57	\$29.43	4697-101	DW-13
Educational Program/Educational Forum Assistance	\$20,000.00	\$3,558.00	\$16,442.00	\$21.00	4698-101	DW-11
Engineering Review						
Engineering Review	\$55,000.00	\$37,774.56	\$17,225.44	\$4,218.62	4123-101	DW-13
Project Feasibility Studies						
Aquifer Recharge Site Search and Feasibility Study	\$15,000.00	\$0.00	\$15,000.00		4129-101	DW-10
Owasso County Park Stormwater Master Plan and Detailed Design: Phase 1 and Phase 2	\$75,000.00	\$5,182.50	\$69,817.50	\$3,456.50	4129-101	DW-5
Beltline Resiliency and Phalen Chain Water Level Management	\$250,000.00	\$25,308.43	\$224,691.57	\$8,549.43	4129-101	BELT-3
Beaver Lake Subwatershed Feasibility Study	\$15,000.00	\$10,590.35	\$4,409.65	\$1,453.00	4129-101	BL-1
Owasso Lake Subwatershed Feasibility Study	\$15,000.00	\$12,278.85	\$2,721.15	\$2,224.00	4129-101	LO-3
Battle Creek Lake Subwatershed Feasibility Study	\$15,000.00	\$15,200.73	-\$200.73	\$2,541.50	4129-101	BCL-3
Create an Emergency Response Plan for Twin Lake	\$15,000.00	\$9,444.06	\$5,555.94	\$6,519.06	4129-101	DW-19
Create an Emergency Response Plan for Grass Lake	\$15,000.00	\$893.00	\$14,107.00	\$330.00	4129-101	DW-19
Create an Emergency Response Plan for Snail Lake	\$15,000.00	\$2,549.50	\$12,450.50	\$330.00	4129-101	DW-19
Create an Emergency Response Plan for Lake Owasso	\$5,000.00	\$4,216.50	\$783.50	\$82.50	4129-101	LO-2
FEMA Flood Mapping Update	\$100,000.00	\$1,494.16	\$98,505.84	\$1,494.16	4129-101	DW-9
West Vadnais Lake to East Vadnais Lake Water Quality Treatment	\$24,400.00	\$36,601.80	-\$12,201.80		4129-101	DW-9
West Vadnais Lake to East Vadnais Lake Gravity Flow	\$66,000.00	\$7,481.00	\$58,519.00	\$984.00	4129-101	DW-9
Snail Lake to Sucker Lake Reverse Pumping Evaluation	\$9,100.00	\$9,715.50	-\$615.50		4129-101	DW-9
Snail, Grass, and West Vadnais outlet permitting with the MnDNR	\$10,000.00	\$32,915.35	-\$22,915.35	\$587.00	4129-101	DW-9
Modeling of 95% Confidence Limit Atlas 14 District-wide (Climate Change Scenario); Flood Map Generation for Future Outreach	\$129,500.00	\$53,867.48	\$75,632.52	\$9,248.50	4129-101	DW-9
GIS Maintenance						
GIS Maintenance	\$5,000.00	\$1,102.00	\$3,898.00		4170-101	DW-13
Monitoring Water Quality/Project Monitoring						
Lake Water Quality Monitoring (Misc QA/QC)	\$10,000.00	\$238.50	\$9,761.50		4520-101	DW-2
Grass Lake WOMP station	\$10,000.00	\$0.00	\$10,000.00		4520-101	DW-3
Battle Creek longitudinal monitoring of TSS	\$15,000.00	\$843.00	\$14,157.00		4520-101	BC-3
Auto Lake monitoring systems (5)	\$50,000.00	\$11,533.93	\$38,466.07	\$2,209.50	4520-101	DW-18
Maplewood Mall Monitoring	\$10,000.00	\$8,809.20	\$1,190.80	\$4,691.70	4520-101	DW-12
Permit Processing, Inspection and Enforcement						
Permit Application Inspection and Enforcement	\$15,000.00	\$3,155.00	\$11,845.00		4122-101	DW-7
Permit Application Review	\$50,000.00	\$24,048.50	\$25,951.50	\$2,660.00	4124-101	DW-7
Lake Studies/WRPPs/TMDL Reports						
2018 Grant Applications	\$30,000.00	\$412.50	\$29,587.50	\$412.50	4661-101	--
Tanners Flood Response Tool Model Update	\$3,000.00	\$2,232.00	\$768.00		4661-101	TaL-1
Evaluate water quality benefit of removing accumulated sediment from south end of Wakefield Lake to improve Lake Phalen water quality	\$10,000.00	\$12,308.17	-\$2,308.17	\$7,821.47	4661-101	WL-5
Research Projects						
New Technology Mini Case Studies (average 6 per year)	\$12,000.00	\$3,413.00	\$8,587.00	\$400.50	4695-101	DW-12
Kohlman Permeable Weir Test System - Implement Monitoring Plan	\$15,000.00	\$8,972.13	\$6,027.87	\$80.00	4695-101	DW-12
Project Operations						
2018 Tanners Alum Facility Monitoring	\$15,000.00	\$13,633.12	\$1,366.88	\$13.50	4650-101	TaL-3
Capital Improvements						
Wakefield Park/Frost Avenue Stormwater Project	\$75,000.00	\$37,585.93	\$37,414.07	\$2,697.00	4128-553	WL-1
Frost Kennard Spent Lime BMP	\$24,000.00	\$24,584.71	-\$584.71	\$287.00	4128-550	WL-1
Commercial Sites Retrofit Projects 2018	\$55,000.00	\$15,371.95	\$39,628.05	\$2,091.00	4128-518	DW-6
School Sites Retrofit Projects 2018	\$55,000.00	\$17,863.23	\$37,136.77	\$2,212.00	4128-518	DW-6
Church Sites Retrofit Projects 2018	\$55,000.00	\$14,447.25	\$40,552.75	\$2,249.00	4128-518	DW-6
Roseville High School Campus Stormwater Retrofit (Bennett Lake Subwatershed)	\$30,000.00	\$3,508.00	\$26,492.00	\$2,040.00	4128-518	DW-6
BMP Incentive Fund: General BMP Design Assistance and Review	\$30,000.00	\$38,105.40	-\$8,105.40	\$5,848.50	4682-529	DW-6
BMP Incentive Fund: Faith-Based Organizations	\$20,000.00	\$3,039.50	\$16,960.50	\$1,705.00	4128-528	DW-6
Willow Pond CMAC Implementation	\$100,000.00	\$104,515.23	-\$4,515.23	\$19,477.69	4128-554	BeL-4
Grass Lake Berm Construction Administration	\$75,000.00	\$49,740.94	\$25,259.06	\$3,298.16	4128-520	GrL-1
Phase 1 implementation from Owasso Basin Improvements Feasibility Study	\$75,000.00	\$9,420.00	\$65,580.00	\$448.50	4128-520	GC-3
District Office Solar Energy Retrofit	\$20,000.00	\$11,667.00	\$8,333.00	\$574.00	4128-519	DW-13
CIP Project Repair & Maintenance						
2017-2018 Beltline Repairs Construction Services	\$360,000.00	\$434,287.07	-\$74,287.07	\$4,838.50	4128-549	BELT-2
Routine CIP Inspection and Unplanned Maintenance Identification	\$75,000.00	\$12,219.25	\$62,780.75	\$949.00	4128-516	DW-5
2018 CIP Maintenance and Repairs	\$90,000.00	\$79,337.80	\$10,662.20	\$2,641.50	4128-516	DW-5
2019 CIP Maintenance and Repairs	\$150,000.00	\$0.00	\$150,000.00		4128-516	DW-5

*For projects carried over from previous years, the total budget reflects the total project budget, and not just the 2018 portion.

Subtotal \$118,814.38

TOTAL PAYABLE FOR PERIOD 7/14/2018 - 8/17/2018

\$118,814.38

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

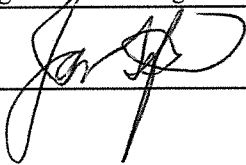
Capital Improvement Project Maintenance/Repairs 2018
Progress Payment Number 4

1.0	Total Completed Through This Period:	<u>\$199,802.00</u>	
2.0	Total Completed Previously Completed:	<u>\$155,790.00</u>	
3.0	Total Completed This Period:		<u>\$44,012.00</u>
4.0	Amount Previously Retained:	<u>\$13,891.00</u>	
5.0	Amount Retained This Period (See Note 1):		<u>\$0.00</u>
6.0	Total Amount Retained (See Note 2):	<u>\$13,891.00</u>	
7.0	Retainage Released Through This Period:		<u>\$0.00</u>
8.0	Total Retainage Remaining:	<u>\$13,891.00</u>	
9.0	Amounts Previously Paid:	<u>\$135,919.00</u>	
10.0	Amount Due This Estimate:		<u><u>\$44,012.00</u></u>


Note 1: At rate of 10% until Completed to Date equals 50% of current Contract Price and a rate of 0% thereafter.

Note 2: Maximum amount is 5% of current Contract Price (\$277,822.00)

SUBMITTED BY:

Name: Jason Fitzgerald Date: 8-28-18
Title: President
Contractor: Fitzgerald Excavating & Trucking, Inc.
Signature: 

RECOMMENDED BY:

Name: Brad Lindaman Date: 8/28/2018
Title: District Engineer
Engineer: Barr Engineering Company
Signature: 

APPROVED BY:

Name: Marj Ebensteiner Date: _____
Title: President
Owner: Ramsey-Washington Metro Watershed District
Signature: _____

Capital Improvement Project Maintenance/Repairs 2018
Ramsey-Washington Metro Watershed District
Summary of Work Completed Through August 21, 2018 for Progress Payment Number 4

1.04 Item	Description	Unit	Estimated Quantity	Unit Price	Extension	(1) Total Completed Through This Period		(2) Total Completed Previous Period		(3) Total Completed This Period	
						Quantity	Amount	Quantity	Amount	Quantity	Amount
A	Mobilization/Demobilization	L.S.	1	20,000.00	20,000.00	0.65	\$13,000.00	0.65	\$13,000.00	0	\$0.00
Site 1 – Lower Afton Road, St. Paul											
B	Sediment/Muck Cleanout of Drainageway (Landfill Disposal)	L.S.	1	4,000.00	4,000.00	1	\$4,000.00	1	\$4,000.00	0	\$0.00
B	Site Restoration (Seeding and Erosion Control Blanket)	S.Y.	220	4.00	880.00	0	\$0.00	0	\$0.00	0	\$0.00
Site 2 – Tanners Boat Ramp, Oakdale											
B	Sediment/Muck Cleanout from Pond (Landfill Disposal)	L.S.	1	8,000.00	8,000.00	1	\$8,000.00	1	\$8,000.00	0	\$0.00
D	Construction of Sedimentation Barrier (Mn/DOT Super Duty Silt Fence 3886.1)	L.F.	80	15.00	1,200.00	80	\$1,200.00	0	\$0.00	80	\$1,200.00
C	Site Restoration (Seeding and Erosion Control Blanket)	S.Y.	150	4.00	600.00	100	\$400.00	0	\$0.00	100	\$400.00
Site 3 – Tanners Wetland Weir Maintenance, Oakdale											
E	Permeable Weir Maintenance (Reopening Drainage Slots and Remove all Brush and Debris)	L.F.	580	10.00	5,800.00	580	\$5,800.00	580	\$5,800.00	0	\$0.00
Site 4 – 5TH Street Wetland, Oakdale											
F	Excavation/Dredging and Removal of Sediment from Treatment Basin (Disposal on Site)	L.S.	1	20,000.00	20,000.00	1	\$20,000.00	1	\$20,000.00	0	\$0.00
E	Permeable Weir Maintenance (Reopening Drainage Slots and Remove all Brush and Debris)	L.F.	65	10.00	650.00	65	\$650.00	65	\$650.00	0	\$0.00
C	Site Restoration (Seeding and Erosion Control Blanket)	S.Y.	210	4.00	840.00	500	\$2,000.00	500	\$2,000.00	0	\$0.00
Site 5 – Hills & Dales/County Road B, Maplewood											
G	Pipe and Structures Cleanout Sediment/Muck Removal (Disposal at Landfill)	L.S.	1	4,000.00	4,000.00	1	\$4,000.00	0	\$0.00	1	\$4,000.00
C	Site Access Restoration (Seeding and Erosion Control Blanket, Repair Wood Chip Path)	S.Y.	50	4.00	200.00	0	\$0.00	0	\$0.00	0	\$0.00
Site 6 – Tamarac Swamp PFS Basins Paver Cleaning and Sweeping, Woodbury											
H	Sediment Log (6-Inch Diameter)	L.F.	60	4.00	240.00	0	\$0.00	0	\$0.00	0	\$0.00
B	Sediment/Muck Cleanout (Tier 2 & 3 Landfill Disposal)	L.S.	1	2,000.00	2,000.00	1	\$2,000.00	1	\$2,000.00	0	\$0.00
I	Paver Sweeping	S.Y.	1400	2.00	2,800.00	1400	\$2,800.00	1400	\$2,800.00	0	\$0.00
C	Site Restoration (Native Seeding and Erosion Control Blanket)	S.Y.	100	4.00	400.00	45	\$180.00	45	\$180.00	0	\$0.00
Site 7 – Gervais Creek, Little Canada											
J	Removal of Trees, Brush, Deadfalls, and Debris (Disposal Off Site)	L.S.	1	5,000.00	5,000.00	1	\$5,000.00	1	\$5,000.00	0	\$0.00
B	Sediment/Muck Cleanout (Disposal at Landfill)	L.S.	1	5,000.00	5,000.00	1	\$5,000.00	0	\$0.00	1	\$5,000.00
C	Site and Access Restoration (Seeding and Erosion Control Blanket)	S.Y.	650	4.00	2,600.00	207	\$828.00	0	\$0.00	207	\$828.00
Site 8 – Owasso Basin, Little Canada											
B	Sediment/Muck Cleanout (Disposal at Landfill)	L.S.	1	6,000.00	6,000.00	1	\$6,000.00	1	\$6,000.00	0	\$0.00
L	Excavate and Regrade Channel Inlet Basin (Landfill Disposal)	L.S.	1	8,000.00	8,000.00	1	\$8,000.00	0	\$0.00	1	\$8,000.00
M	Riprap Channel Basin and Inlet Pipe, MnDOT Class 4	Ton	14	50.00	700.00	14	\$700.00	0	\$0.00	14	\$700.00
C	Site and Access Restoration (Seeding and Erosion Control Blanket)	S.Y.	300	4.00	1,200.00	118	\$472.00	0	\$0.00	118	\$472.00
Site 9 – Johnson Pond, Maplewood											
N	Remove and Replace Existing Guardrail for Access	L.S.	1	500.00	500.00	0	\$0.00	0	\$0.00	0	\$0.00
H	Cleanout Debris, Sediment/Muck From Structures and Pipe (Disposal at Landfill)	L.S.	1	4,000.00	4,000.00	1	\$4,000.00	0	\$0.00	1	\$4,000.00
C	Site Access Restoration (Seeding and Erosion Control Blanket)	S.Y.	244	4.00	976.00	0	\$0.00	0	\$0.00	0	\$0.00
Site 10 – Maplewood Mall, Maplewood											
O	Repair Catch Basin and Sinkhole	L.S.	1	2,000.00	2,000.00	1	\$2,000.00	0	\$0.00	1	\$2,000.00

Capital Improvement Project Maintenance/Repairs 2018
Ramsey-Washington Metro Watershed District
Summary of Work Completed Through August 21, 2018 for Progress Payment Number 4

						(1) Total Completed Through This Period		(2) Total Completed Previous Period		(3) Total Completed This Period	
1.04 Item	Description	Unit	Estimated Quantity	Unit Price	Extension	Quantity	Amount	Quantity	Amount	Quantity	Amount
Site 11 – Battle Creek Lower Ravine Park, St. Paul											
H	Cleanout/Remove Debris from Pipe and Structures	L.S.	1	6,000.00	6,000.00	1	\$6,000.00	0	\$0.00	1	\$6,000.00
P	Televise and Inspect Storm Sewer Pipe (12", 15", 18" RCP)	L.F.	768	2.00	1,536.00	768	\$1,536.00	0	\$0.00	768	\$1,536.00
Q	Repair Manhole and Pipe with Cured-In-Place Pipe Liner	L.S.	1	4,000.00	4,000.00	0	\$0.00	0	\$0.00	0	\$0.00
R	Remove and Replace One (1) Trash Rack and Install Fasteners on The New Trash Rack and Two (2) Existing Trash Racks	L.S.	1	3,000.00	3,000.00		\$0.00	0	\$0.00	0	\$0.00
S	MnDOT Common Borrow 2105.1A.6 "Select Grading Material"	Ton	140	15.00	2,100.00		\$0.00	0	\$0.00	0	\$0.00
T	MnDOT 3149.2H Coarse Filter Aggregate	Ton	140	50.00	7,000.00		\$0.00	0	\$0.00	0	\$0.00
U	Topsoil Borrow	C.Y.	50	15.00	750.00		\$0.00	0	\$0.00	0	\$0.00
V	Futerra R45 HP Turf Reinforcement Mat	S.Y.	422	10.00	4,220.00		\$0.00	0	\$0.00	0	\$0.00
K	Site Restoration (Seeding and HP-FGM Hydro Mulch)	S.Y.	1125	4.00	4,500.00		\$0.00	0	\$0.00	0	\$0.00
Site 12 – Grass Lake, Shoreview											
B	(Site 12A) – Sediment/Muck and Vegetation Cleanout, Grass Lake Area (Unregulated Fill	L.S.	1	18,000.00	18,000.00	1	\$18,000.00	1	\$18,000.00	0	\$0.00
B	(Site 12B) - Sediment/Muck and Vegetation Cleanout, Wetland Triangle Area (Unregulated	L.S.	1	18,000.00	18,000.00	1	\$18,000.00	1	\$18,000.00	0	\$0.00
B	(Site 12C) - Sediment/Muck and Vegetation Cleanout, West Vadnais Lake Channel	L.S.	1	18,000.00	18,000.00	0	\$0.00	0	\$0.00	0	\$0.00
X	Remove and Replace Bituminous Trail	S.Y.	26	50.00	1,300.00		\$0.00	0	\$0.00	0	\$0.00
X	Remove and Replace Bituminous Roadway	S.Y.	80	88.00	7,040.00	102	\$8,976.00	0	\$0.00	102	\$8,976.00
Y	Remove Existing 12" CPEP	L.F.	60	15.00	900.00	60	\$900.00	0	\$0.00	60	\$900.00
Y	Remove existing 15" RC Pipe Apron	Each	1	200.00	200.00		\$0.00	0	\$0.00	0	\$0.00
Z	RC Transition Pipe Reducer	Each	2	1,500.00	3,000.00		\$0.00	0	\$0.00	0	\$0.00
AA	24" RC Pipe Apron and Trash Rack	Each	1	3,500.00	3,500.00		\$0.00	0	\$0.00	0	\$0.00
AB	44" Span RC Pipe Arch	L.F.	312	90.00	28,080.00	144	\$12,960.00	144	\$12,960.00	0	\$0.00
AC	44" Span RC Pipe Arch Apron	Each	6	2,000.00	12,000.00	4	\$8,000.00	4	\$8,000.00	0	\$0.00
M	Random Riprap Class III Fieldstone with Type 4 Filter Fabric	Ton	159	90.00	14,310.00		\$0.00	0	\$0.00	0	\$0.00
C	Site restoration (Seeding and Erosion Control Blanket)	S.Y.	3200	4.00	12,800.00	7350	\$29,400.00	7350	\$29,400.00	0	\$0.00
Total of Extensions = \$						277,822.00	\$199,802.00		\$155,790.00		\$44,012.00
GRAND TOTALS							\$199,802.00		\$155,790.00		\$44,012.00

**Frost/Kennard Stormwater Filter
Progress Payment Number 3_Final**

1.0	Total Completed Through This Period:	<u>\$265,317.50</u>	
2.0	Total Completed Previously Completed:		<u>\$260,519.00</u>
3.0	Total Completed This Period:		<u>\$4,798.50</u>
4.0	Amount Previously Retained:	<u>\$12,856.00</u>	
5.0	Amount Retained This Period (See Note 1):		<u>\$0.00</u>
6.0	Total Amount Retained (See Note 2):	<u>\$12,856.00</u>	
7.0	Retainage Released Through This Period:		<u>\$12,856.00</u>
8.0	Total Retainage Remaining:	<u>\$0.00</u>	
9.0	Amounts Previously Paid:	<u>\$247,663.00</u>	
10.0	Amount Due This Estimate:		<u><u>\$17,654.50</u></u>

Note 1: At rate of 10% until Completed to Date equals 50% of current Contract Price and a rate of 0% thereafter.

Note 2: Maximum amount is 5% of current Contract Price (\$257,127.00)

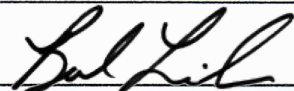
SUBMITTED BY:

Name: Aaron Hoefs Date: 8/22/2018
Title: Project Manager
Contractor: Minger Construction Companies, Inc.

Signature: 

RECOMMENDED BY:

Name: Brad Lindaman Date: 8/28/2018
Title: District Engineer
Engineer: Barr Engineering Company

Signature: 

APPROVED BY:

Name: Marj Ebensteiner Date: _____
Title: President
Owner: Ramsey-Washington Metro Watershed District

Signature: _____

**Frost/Kennard Stormwater Filter
Ramsey-Washington Metro Watershed District
Summary of Work Completed Through August 21, 2018 for Progress Payment Number 3_Final**

1.04 Item	Description	Unit	Estimated Quantity	Unit Price	Extension	(1) Total Completed Through This Period		(2) Total Completed Previous Period		(3) Total Completed This Period	
						Quantity	Amount	Quantity	Amount	Quantity	Amount
A	Mobilization/Demobilization	L.S.	1	27,500.00	27,500.00	1	\$27,500.00	1	\$27,500.00	0	\$0.00
B	Erosion Control Construction Entrance	Each	1	1,000.00	1,000.00	1	\$1,000.00	1	\$1,000.00	0	\$0.00
C	Erosion Control Silt Fence	L.F.	600	1.80	1,080.00	600	\$1,080.00	600	\$1,080.00	0	\$0.00
D	Erosion Control Blanket	S.Y.	1,070	1.20	1,284.00	1475	\$1,770.00	1070	\$1,284.00	405	\$486.00
E	Remove & Salvage Topsoil (P)	S.Y.	980	2.00	1,960.00	980	\$1,960.00	980	\$1,960.00	0	\$0.00
F	Sawcut and Remove Concrete Curb from Existing B618 Concrete Curb and Gutter for Drive Opening	L.S.	1	1,500.00	1,500.00	1	\$1,500.00	1	\$1,500.00	0	\$0.00
G	96-inch Precast Manhole with Casting	L.F.	14	1,700.00	23,800.00	14	\$23,800.00	14	\$23,800.00	0	\$0.00
H	48-inch Precast Manhole with Casting	L.F.	11	500.00	5,500.00	11	\$5,500.00	11	\$5,500.00	0	\$0.00
I	8-ft wide, Precast Concrete and FRP Stop Log Weir	L.S.	1	20,000.00	20,000.00	1	\$20,000.00	1	\$20,000.00	0	\$0.00
J	27-inch Access Manhole with Casting Assembly	Each	4	850.00	3,400.00	4	\$3,400.00	4	\$3,400.00	0	\$0.00
K	Common Excavation for Vault (P)	C.Y.	950	15.00	14,250.00	950	\$14,250.00	950	\$14,250.00	0	\$0.00
L	Disposal of Excess Excavated Material (P)	C.Y.	350	15.00	5,250.00	350	\$5,250.00	350	\$5,250.00	0	\$0.00
M	Existing Structure Connection	Each	1	4,000.00	4,000.00	1	\$4,000.00	1	\$4,000.00	0	\$0.00
N	10-inch Ductile Iron Pipe (DIP)	L.F.	20	95.00	1,900.00	20	\$1,900.00	20	\$1,900.00	0	\$0.00
O	12-inch Corrugated Polyethylene Pipe (CPEP) Dual-Wall (Smooth Interior)	L.F.	145	86.00	12,470.00	145	\$12,470.00	145	\$12,470.00	0	\$0.00
P	12-inch CPEP 22.5 Degree Bend	Each	2	75.00	150.00	3	\$225.00	3	\$225.00	0	\$0.00
Q	Stormwater Filter Piping and Fittings, All Complete	L.S.	1	13,000.00	13,000.00	1	\$13,000.00	1	\$13,000.00	0	\$0.00
R	Concrete Fore bay	Each	1	2,400.00	2,400.00	1	\$2,400.00	1	\$2,400.00	0	\$0.00
S	Anchor Underdrain Pipe to Vault	L.S.	1	5,500.00	5,500.00	1	\$5,500.00	1	\$5,500.00	0	\$0.00
T	10-inch Stainless Steel Plug Valve w/Box ASM	Each	1	3,500.00	3,500.00	1	\$3,500.00	1	\$3,500.00	0	\$0.00
U	Fine Filter Aggregate	Ton	18	75.00	1,350.00	18	\$1,350.00	18	\$1,350.00	0	\$0.00
V	Plastic Netting	S.Y.	75	13.00	975.00	75	\$975.00	75	\$975.00	0	\$0.00
W	Spent Lime	L.S.	1	4,600.00	4,600.00	1	\$4,600.00	1	\$4,600.00	0	\$0.00
X	Precast 3-sided Box Culvert Vault & Cover (6 Sections)	L.S.	1	73,000.00	73,000.00	1	\$73,000.00	1	\$73,000.00	0	\$0.00
Y	Precast End Walls (2 Sides)	L.S.	1	12,000.00	12,000.00	1	\$12,000.00	1	\$12,000.00	0	\$0.00
Z	Non-Shrink Grouting	C.Y.	7	200.00	1,340.00	7	\$1,400.00	7	\$1,400.00	0	\$0.00
AA	Ladder	L.S.	2	2,500.00	5,000.00	2	\$5,000.00	2	\$5,000.00	0	\$0.00
AB	Netlon Stabilizing Mesh Bales for Stabilized Turf Driveway	Each	5	500.00	2,500.00	7	\$3,500.00	7	\$3,500.00	0	\$0.00
AC	Special Planting Soil Mix for Netlon Turf Driveway	C.Y.	25	130.00	3,250.00	50	\$6,500.00	50	\$6,500.00	0	\$0.00
AD	Import Common Topsoil Borrow	C.Y.	50	15.00	750.00	0	\$0.00	0	\$0.00	0	\$0.00
AE	Seeding	S.Y.	1,070	2.50	2,675.00	1475	\$3,687.50	1070	\$2,675.00	405	\$1,012.50
AF	Seed Mix (Mn/DOT 25-131 Low Maintenance Turf)	LBS	49	5.00	243.00	0	\$0.00	0	\$0.00	0	\$0.00

Total of Extensions = \$ 257,127.00 \$262,017.50 \$260,519.00 \$1,498.50

Change Orders

C.O.1A	Contract Completion Extension				0.00	0	\$0.00	0	\$0.00	0	\$0.00
C.O.2A	CheckMate UltraFlex Inline Valve	Each	1	3,300.00	3,300.00	1	\$3,300.00	0	\$0.00	1	\$3,300.00

GRAND TOTALS \$265,317.50 \$260,519.00 \$4,798.50

**Grass Lake Berm Raise
Progress Payment Number 1**

1.0	Total Completed Through This Period:	<u>\$65,263.60</u>	
2.0	Total Completed Previously Completed:		<u>\$0.00</u>
3.0	Total Completed This Period:		<u>\$65,263.60</u>
4.0	Amount Previously Retained:		<u>\$0.00</u>
5.0	Amount Retained This Period (See Note 1):		<u>\$5,373.00</u>
6.0	Total Amount Retained (See Note 2):	<u>\$5,373.00</u>	
7.0	Retainage Released Through This Period:		<u>\$0.00</u>
8.0	Total Retainage Remaining:	<u>\$5,373.00</u>	
9.0	Amounts Previously Paid:	<u>\$0.00</u>	
10.0	Amount Due This Estimate:		<u><u>\$59,890.60</u></u>

Note 1: At rate of 10% until Completed to Date equals 50% of current Contract Price and a rate of 0% thereafter.

Note 2: Maximum amount is 5% of current Contract Price (\$107,479.00)

SUBMITTED BY:

Name: Jason Fitzgerald Date: 8-28-18
Title: President
Contractor: Fitzgerald Excavating & Trucking, Inc.

Signature: 

RECOMMENDED BY:

Name: Brad Lindaman Date: 8/28/2018
Title: District Engineer
Engineer: Barr Engineering Company

Signature: 

APPROVED BY:

Name: Marj Ebensteiner Date: _____
Title: President
Owner: Ramsey-Washington Metro Watershed District

Signature: _____

Grass Lake Berm Raise
Ramsey-Washington Metro Watershed District
Summary of Work Completed Through August 21, 2018 for Progress Payment Number 1

1.04 Item	Description	Unit	Estimated Quantity	Unit Price	Extension	(1) Total Completed Through This Period		(2) Total Completed Previous Period		(3) Total Completed This Period	
						Quantity	Amount	Quantity	Amount	Quantity	Amount
A	Mobilization/Demobilization	L.S.	1	15,000.00	15,000.00	0.5	\$7,500.00	0	\$0.00	0.5	\$7,500.00
B	Topsoil Stripping and Stockpiling	C.Y.	810	5.00	4,050.00	810	\$4,050.00	0	\$0.00	810	\$4,050.00
C	Bituminous Removal	S.Y.	1,475	3.00	4,425.00	1313	\$3,939.00	0	\$0.00	1313	\$3,939.00
D	Sandbag Removal	L.S.	1	3,000.00	3,000.00	1	\$3,000.00	0	\$0.00	1	\$3,000.00
E	Culvert Removal – 12" Corrugated Metal Pipe (CMP)	L.F.	50	6.00	300.00	50	\$300.00	0	\$0.00	50	\$300.00
F	Culvert Removal - Backfill (clay)	C.Y.	17	12.00	204.00	17	\$204.00	0	\$0.00	17	\$204.00
G	Clay Embankment	C.Y.	700	12.00	8,400.00	700	\$8,400.00	0	\$0.00	700	\$8,400.00
H	Sand Embankment	C.Y.	970	16.00	15,520.00	970	\$15,520.00	0	\$0.00	970	\$15,520.00
I	Aggregate Base	C.Y.	245	20.00	4,900.00		\$0.00	0	\$0.00	0	\$0.00
J	Asphalt Pavement	TON	226	85.00	19,210.00		\$0.00	0	\$0.00	0	\$0.00
K	Topsoil Placement	C.Y.	685	4.00	2,740.00		\$0.00	0	\$0.00	0	\$0.00
L	Seeding and Mulching	AC	1	2,000.00	2,000.00		\$0.00	0	\$0.00	0	\$0.00
M	Turf Reinforced Mat (TRM)	S.Y.	580	8.00	4,640.00	580	\$4,640.00	0	\$0.00	580	\$4,640.00
N	Emergency Overflow (EOF) Common Excavation	C.Y.	595	7.00	4,165.00	595	\$4,165.00	0	\$0.00	595	\$4,165.00
O	28" Span RC Pipe Arch	L.F.	72	50.00	3,600.00	72	\$3,600.00	0	\$0.00	72	\$3,600.00
P	28" Span RC Pipe Arch Apron	EA	2	700.00	1,400.00	2	\$1,400.00	0	\$0.00	2	\$1,400.00
Q	Silt Fence	L.F.	2,625	1.80	4,725.00	1692	\$3,045.60	0	\$0.00	1692	\$3,045.60
R	Inlet Protection - Filter Sack	EAC	4	150.00	600.00	0	\$0.00	0	\$0.00	0	\$0.00
S	Rock Construction Entrance	EAC	2	500.00	1,000.00	0	\$0.00	0	\$0.00	0	\$0.00
T	Control of Water	L.S.	1	3,000.00	3,000.00	1	\$3,000.00	0	\$0.00	1	\$3,000.00
U	Traffic Control	L.S.	1	5,000.00	5,000.00	0.5	\$2,500.00	0	\$0.00	0.5	\$2,500.00
Total of Extensions = \$						107,879.00	\$65,263.60	\$0.00		\$65,263.60	
Change Orders											
C.O.1A					0.00	0	\$0.00	0	\$0.00	0	\$0.00
GRAND TOTALS							\$65,263.60	\$0.00		\$65,263.60	

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
August 22, 2018
File No: 9M

	Balance
General Account	\$1,685.00
Owasso Park Improvement Permit Violation	\$136.00
	<u>\$1,821.00</u>

Permit Program

Permit Application Coversheet

Date September 05, 2018

Project Name Tamarack Hills Medical Office Building

Project Number 18-23

Applicant Name Gonzalo Medina, Kami Holdings, LLC

Type of Development Office

Property Description

This property is located at 580 Bielenberg Drive in the City of Woodbury, east of I-494. The applicant is proposing to construct a medical office building and associated parking. This parcel is part of a common plan of development. Stormwater treatment was provided during previously permitted phases of the project (permits #06-29, #14-07). The total site area is 0.8 acre.

Watershed District Policies or Standards Involved:

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

Water Quantity Considerations

There are no water quantity considerations.

Water Quality Considerations

Short Term

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

Long Term

There are no long term water quality considerations.

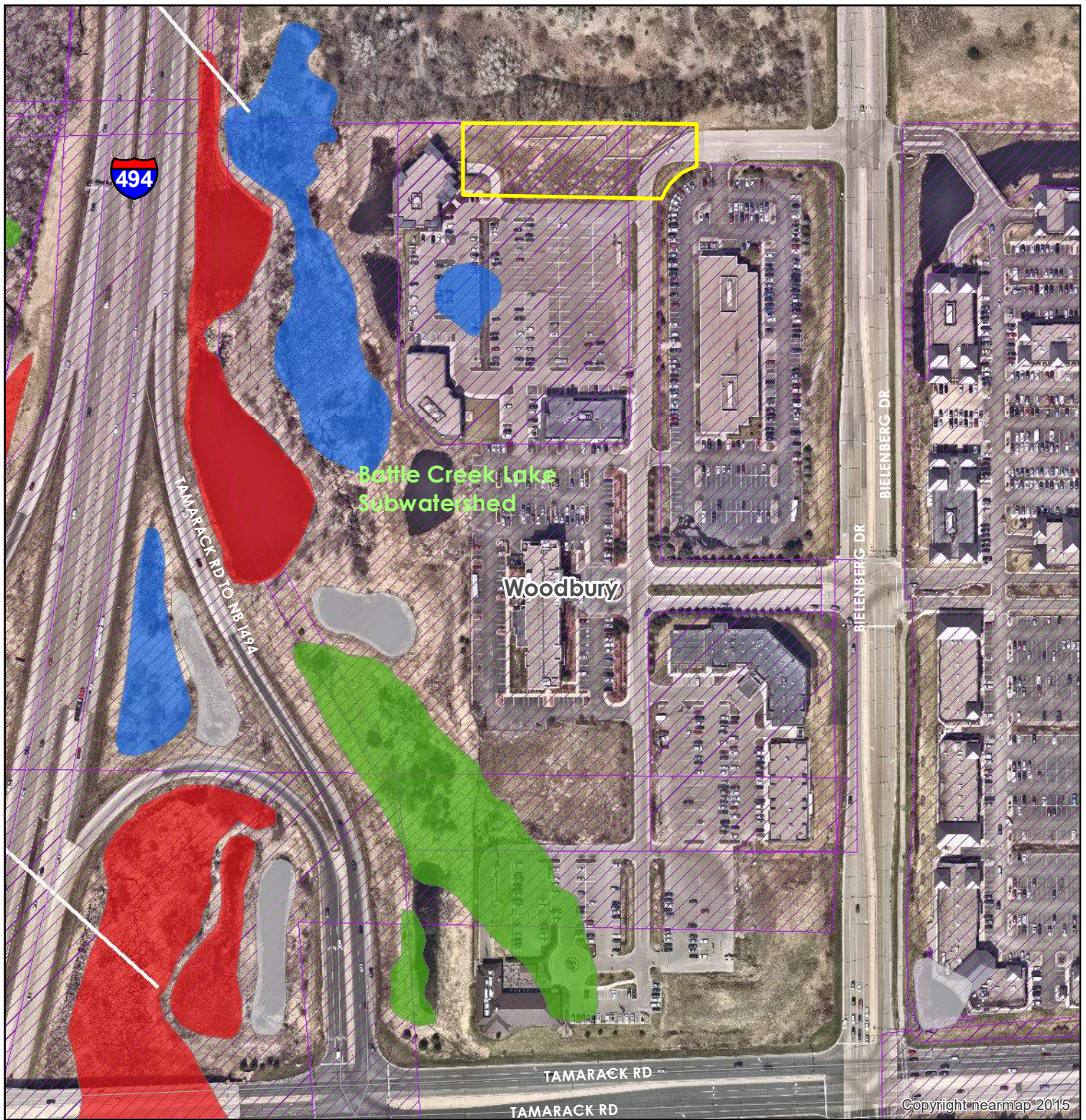
Staff Recommendation

Staff recommends approval of this permit with the special provisions.

Attachments:

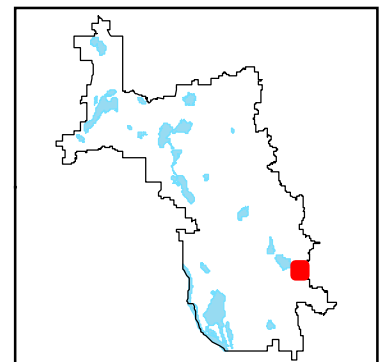
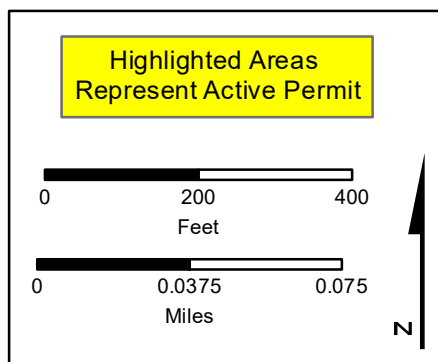
- ☒ **Project Location Map**
☒ **Project Grading Plan**

#18-23 Tamarack Hills Medical Office Building



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

	RWMWD Boundary
	Watershed Org
→	Flow Arrows
→	Major Flow Arrows
	Subwatersheds
—	Creeks
	Permits
	City Boundaries



Special Provisions

1. The applicant shall submit the escrow fee of \$1,600.
2. The applicant shall submit a project-specific Stormwater Pollution Prevention Plan (SWPPP).
3. The applicant shall add a note to the plans to notify Nicole Soderholm, Ramsey-Washington Metro Watershed District, at 651-792-7976 prior to beginning any and all construction activity to schedule an initial SWPPP inspection.
4. The applicant shall add a note to the plans that the specified erosion and sediment control practices are the minimum. Additional practices may be required during the course of construction.
5. The applicant shall submit a copy of the approved Minnesota Pollution Control Agency's NPDES Construction Permit.
6. The applicant shall revise the plans to include a detail for the proposed construction entrance. Specify location of proposed construction entrance on erosion control plan.
7. The applicant shall submit a final copy of the signed construction plans.

Permit Application Coversheet

Date September 05, 2018

Project Name Roseville Luxury Apartments

Project Number 18-24

Applicant Name Dave Young, United Properties

Type of Development Residential

Property Description

This project is located at 2656 Lexington Avenue North, just north of County Road C in the City of Roseville. The applicant is proposing to demolish the existing single-family homes on the site and construct an apartment building with associated parking. The total site area is 3.2 acres. Volume reduction and rate control will be provided through construction of four above-ground filtration basins and one underground filtration system. Pretreatment will include a sump structure and SAFL Baffle for the underground system. The above-ground basins will receive runoff directly from the roof. Due to site constraints, the applicant is short on treatment volume by 432 cubic feet and is requesting to submit a payment into the District's Stormwater Impact Fund in the amount of \$4,328.64. The proposed design results in fill within the adjacent wetland's floodplain, but sufficient compensatory storage has been provided. Wetland boundaries were approved by District staff on 6/18/18 (#18-06 WCA). The site design does not include any wetland impacts, but temporary impacts to the wetland buffer are proposed to accommodate site grading as discussed in the enclosed variance request. Disturbed buffer areas will be restored with a native seed mix.

Watershed District Policies or Standards Involved:

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

Water Quantity Considerations

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

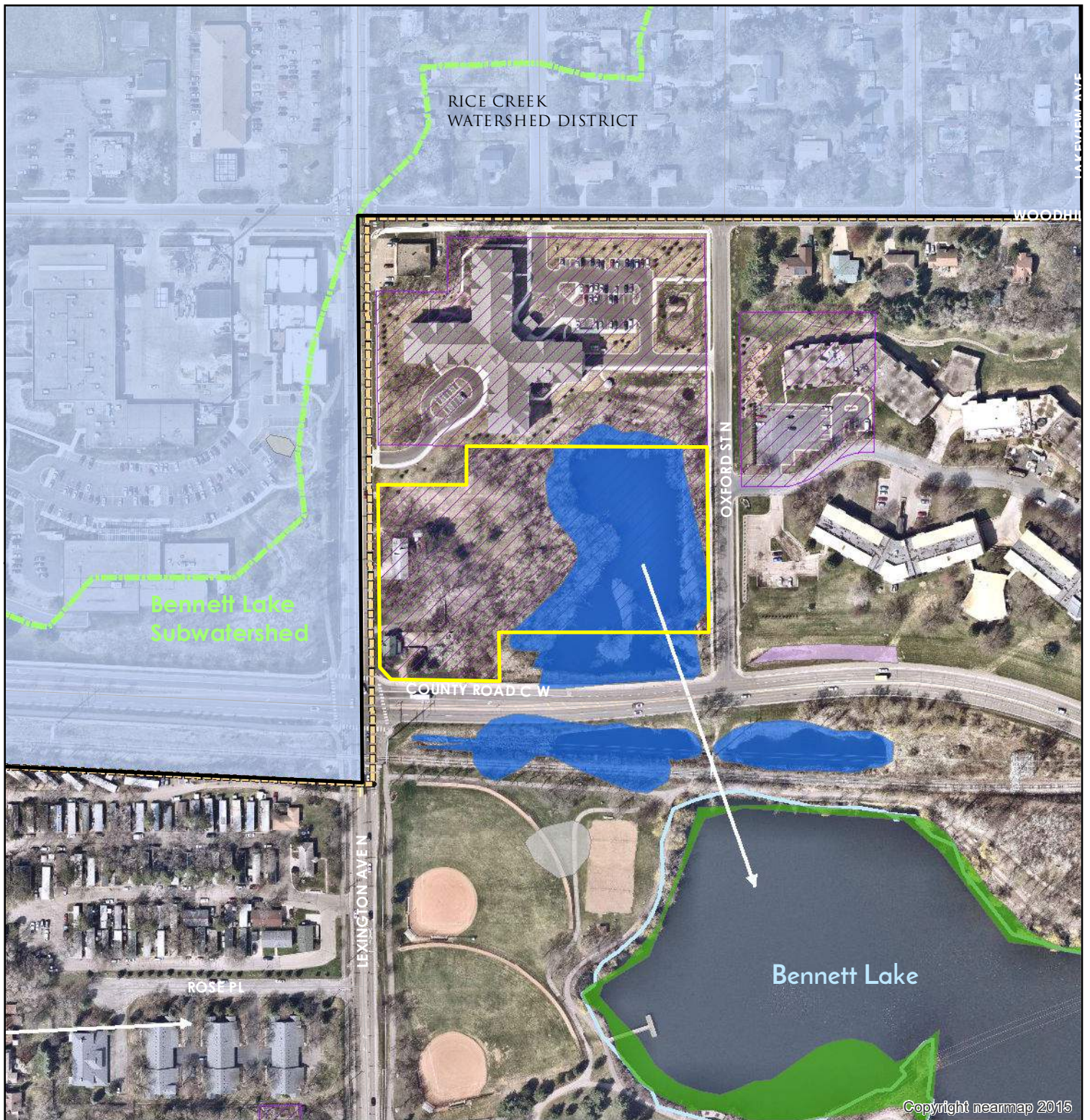
Staff Recommendation

Staff recommends approval of this permit with the special provisions and variance request.

Attachments:

- ☒ **Project Location Map**
- ☒ **Project Grading Plan**

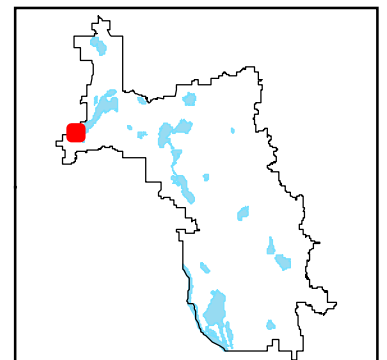
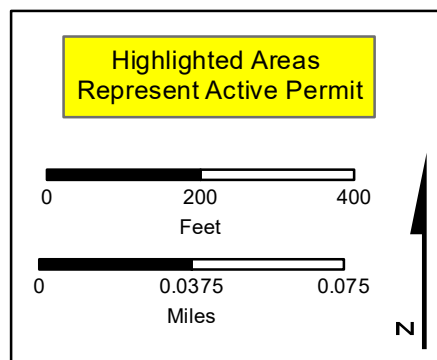
#18-24 Roseville Luxury Apartments



Note: Shaded area is outside RWMWD

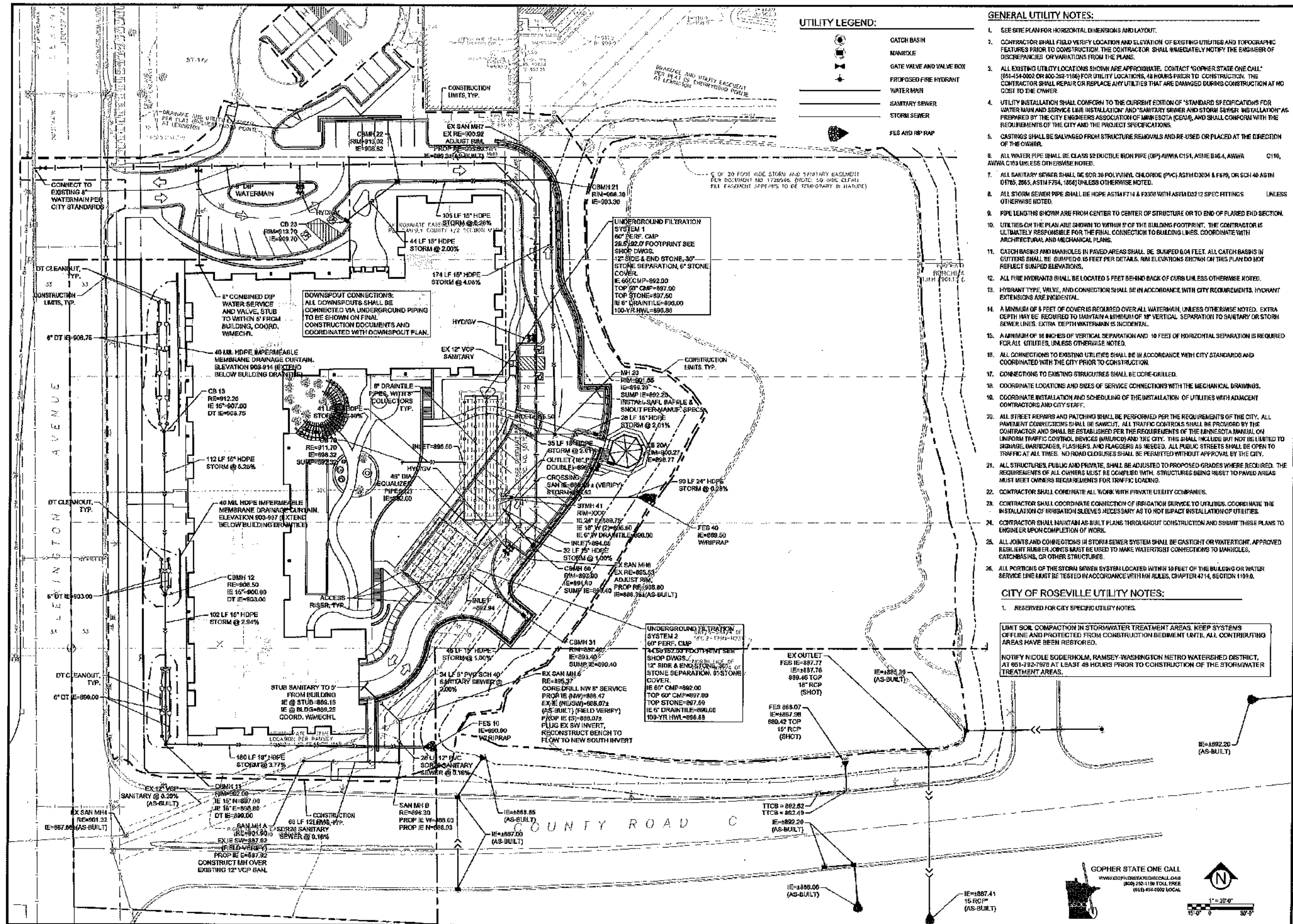
Wetlands	
■	Manage A
■	Manage B
■	Manage C
■	Lake
■	Sediment Pond
■	Not Assessed

	RWMWD Boundary
	Watershed Org
→	Flow Arrows
→	Major Flow Arrows
	Subwatersheds
—	Creeks
	Permits
	City Boundaries



Special Provisions

1. The applicant shall submit the escrow fee of \$16,000.
2. The applicant shall submit an executed joint maintenance agreement with the City of Roseville for the proposed stormwater facilities.
3. The applicant shall provide contact information for the trained erosion control coordinator responsible for implementing the Stormwater Pollution Prevention Plan (SWPPP).
4. The applicant shall revise the SWPPP to include all receiving waters within 1 mile of the project.
5. The applicant shall submit a copy of the approved Minnesota Pollution Control Agency's NPDES Construction Permit.
6. The applicant shall submit a final copy of the signed construction plans.
7. The applicant shall submit a payment into the District's Stormwater Impact Fund of \$4,328.64.



UTILITY LEGEND:

- CATCH BASIN
- MANHOLE
- GATE VALVE AND VALVE BOX
- PROPOSED FIRE HYDRANT
- WATER MAIN
- SANITARY SEWER
- STORM SEWER
- FES AND RCP

GENERAL UTILITY NOTES:

- SEE SITE PLAN FOR HORIZONTAL DIMENSIONS AND LAYOUT.
- CONTRACTOR SHALL FIELD VERIFY LOCATION AND ELEVATION OF EXISTING UTILITIES AND TOPOGRAPHIC FEATURES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF DISCREPANCIES OR VARIATIONS FROM THE PLANS.
- ALL EXISTING UTILITY LOCATIONS SHOWN ARE APPROXIMATE. CONTACT "GOPHER STATE ONE CALL" (851-454-0002 OR 800-292-1166) FOR UTILITY LOCATIONS, 48 HOURS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL REPAIR OR REPLACE ANY UTILITIES THAT ARE DAMAGED DURING CONSTRUCTION AT NO COST TO THE OWNER.
- UTILITY INSTALLATION SHALL CONFORM TO THE CURRENT EDITION OF "STANDARD SPECIFICATIONS FOR WATER MAIN AND SERVICE LINE INSTALLATION AND SANITARY SEWER AND STORM SEWER INSTALLATION" AS PREPARED BY THE CITY ENGINEERS ASSOCIATION OF MINNESOTA (CEAM), AND SHALL CONFORM WITH THE REQUIREMENTS OF THE CITY AND THE PROJECT SPECIFICATIONS.
- CASTINGS SHALL BE SALVAGED FROM STRUCTURE REMOVALS AND RE-USED OR PLACED AT THE DIRECTION OF THE OWNER.
- ALL WATER PIPE SHALL BE CLASS 52 DUCTILE IRON PIPE (DIP) AWWA C151, ASME B16.4, AWWA C110, AWWA C153 UNLESS OTHERWISE NOTED.
- ALL SANITARY SEWER SHALL BE SDR 26 POLYVINYL CHLORIDE (PVC) ASTM D3034 & F699, OR SCH 40 ASTM D785, 2005, ASTM F794, 1986 UNLESS OTHERWISE NOTED.
- ALL STORM SEWER PIPE SHALL BE HDPE ASTM F714 & F2308 WITH ASTM D212 SPEC FITTINGS UNLESS OTHERWISE NOTED.
- PIPE LENGTHS SHOWN ARE FROM CENTER TO CENTER OF STRUCTURE OR TO END OF FLARED END SECTION.
- UTILITIES ON THE PLAN ARE SHOWN TO WITHIN 5' OF THE BUILDING FOOTPRINT. THE CONTRACTOR IS ULTIMATELY RESPONSIBLE FOR THE FINAL CONNECTION TO BUILDING LINES. COORDINATE WITH ARCHITECTURAL AND MECHANICAL PLANS.
- CATCH BASINS AND MANHOLES IN PAVED AREAS SHALL BE SUMPED 0.04 FEET. ALL CATCH BASINS IN CUTTERS SHALL BE SUMPED 0.15 FEET PER DETAILS. RM ELEVATIONS SHOWN ON THIS PLAN DO NOT REFLECT SUMPED ELEVATIONS.
- ALL FIRE HYDRANTS SHALL BE LOCATED 5 FEET BEHIND BACK OF CURB UNLESS OTHERWISE NOTED.
- HYDRANT TYPE, VALVE, AND CONNECTION SHALL BE IN ACCORDANCE WITH CITY REQUIREMENTS. HYDRANT EXTENSIONS ARE INCIDENTAL.
- A MINIMUM OF 8 FEET OF COVER IS REQUIRED OVER ALL WATERMAIN UNLESS OTHERWISE NOTED. EXTRA DEPTH MAY BE REQUIRED TO MAINTAIN A MINIMUM OF 18" VERTICAL SEPARATION TO SANITARY OR STORM SEWER LINES. EXTRA DEPTH WATERMAIN IS INCIDENTAL.
- A MINIMUM OF 18 INCHES OF VERTICAL SEPARATION AND 10 FEET OF HORIZONTAL SEPARATION IS REQUIRED FOR ALL UTILITIES UNLESS OTHERWISE NOTED.
- ALL CONNECTIONS TO EXISTING UTILITIES SHALL BE IN ACCORDANCE WITH CITY STANDARDS AND COORDINATED WITH THE CITY PRIOR TO CONSTRUCTION.
- CONNECTIONS TO EXISTING STRUCTURES SHALL BE CORE-DRILLED.
- COORDINATE LOCATIONS AND SIZES OF SERVICE CONNECTIONS WITH THE MECHANICAL DRAWINGS.
- COORDINATE INSTALLATION AND SCHEDULING OF THE INSTALLATION OF UTILITIES WITH ADJACENT CONTRACTORS AND CITY STAFF.
- ALL STREET REPAIRS AND PATCHING SHALL BE PERFORMED PER THE REQUIREMENTS OF THE CITY. ALL PAVEMENT CONNECTIONS SHALL BE SAWCUT. ALL TRAFFIC CONTROLS SHALL BE PROVIDED BY THE CONTRACTOR AND SHALL BE ESTABLISHED PER THE REQUIREMENTS OF THE MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND THE CITY. THIS SHALL INCLUDE BUT NOT BE LIMITED TO SIGNALE, BARRICADES, FLASHERS, AND FLAGGERS AS NEEDED. ALL PUBLIC STREETS SHALL BE OPEN TO TRAFFIC AT ALL TIMES. NO ROAD CLOSURES SHALL BE PERMITTED WITHOUT APPROVAL BY THE CITY.
- ALL STRUCTURES, PUBLIC AND PRIVATE, SHALL BE ADJUSTED TO PROPOSED GRADES WHERE REQUIRED. THE REQUIREMENTS OF ALL OWNERS MUST BE COMPLIED WITH. STRUCTURES BEING RESET TO PAVED AREAS MUST MEET OWNERS REQUIREMENTS FOR TRAFFIC LOADING.
- CONTRACTOR SHALL COORDINATE ALL WORK WITH PRIVATE UTILITY COMPANIES.
- CONTRACTOR SHALL COORDINATE CONNECTION OF IRRIGATION SERVICE TO UTILITIES. COORDINATE THE INSTALLATION OF IRRIGATION SLEEVES NECESSARY AS TO NOT IMPACT INSTALLATION OF UTILITIES.
- CONTRACTOR SHALL MAINTAIN AS-BUILT PLANS THROUGHOUT CONSTRUCTION AND SUBMIT THESE PLANS TO ENGINEER UPON COMPLETION OF WORK.
- ALL JOINTS AND CONNECTIONS IN STORM SEWER SYSTEM SHALL BE GASTIGHT OR WATERTIGHT. APPROVED RESILIENT RUBBER JOINTS MUST BE USED TO MAKE WATERTIGHT CONNECTIONS TO MANHOLES, CATCHBASINS, OR OTHER STRUCTURES.
- ALL PORTIONS OF THE STORM SEWER SYSTEM LOCATED WITHIN 10 FEET OF THE BUILDING OR WATER SERVICE LINE MUST BE TESTED IN ACCORDANCE WITH MN RULES, CHAPTER 4714, SECTION 1199.0.

CITY OF ROSEVILLE UTILITY NOTES:

- RESERVED FOR CITY SPECIFIC UTILITY NOTES.

LIMIT SOIL COMPACTION IN STORMWATER TREATMENT AREAS. KEEP SYSTEMS OFFLINE AND PROTECTED FROM CONSTRUCTION SEDIMENT UNTIL ALL CONTRIBUTING AREAS HAVE BEEN RESTORED.

NOTIFY NICOLE SODERHOLM, RAMSEY-WASHINGTON METRO WATERSHED DISTRICT, AT 651-792-7978 AT LEAST 48 HOURS PRIOR TO CONSTRUCTION OF THE STORMWATER TREATMENT AREAS.

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.

Matthew R. Pavak
DATE: 06/14/18 LICENSE NO. 44293

ISSUE/SUBMITTAL SUMMARY	
DATE	DESCRIPTION
06/14/18	CITY SUBMITTAL
06/20/18	WATERSHED SUBMITTAL
07/19/18	WATERSHED RESUBMITTAL
08/08/18	WATERSHED RESUBMITTAL

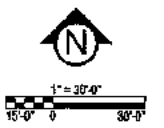
REVISION SUMMARY	
DATE	DESCRIPTION

PROJECT NO.: 18127

UTILITY PLAN

C4.0
© COPYRIGHT 2017 CIVIL SITE GROUP, INC.

GOPHER STATE ONE CALL
WWW.GOPHERSTATEONECALL.ORG
(800) 292-1166 TOLL FREE
(651) 454-0002 LOCAL



Memorandum

TO: Ramsey Washington Metro Watershed District Board of Managers
2665 Noel Drive
Little Canada, MN 55117

FROM: Joey Diederichs, EIT
Civil Site Group

DATE: 06/28/2018

RE: Roseville Luxury Apartments – 2656 Lexington Ave N, Roseville, MN
Variance Memorandum

Dear RWMWD Board,

Below is the information regarding a variance request at the abovementioned project. Please review this as part of the application for this project and respond with any recommendations or requests. Feel free to contact me with any questions.

Joey Diederichs, EIT
Civil Site Group
rlatta@civilsitegroup.com
952-250-2200

Variance Request:

The variance we are requesting for this project is for temporary disturbance within the 'no-disturb' wetland buffer.

Reasoning:

The project is proposing a retaining wall that is outside of the 'no-disturb' zone. However, it is anticipated that during the construction of this retaining wall, minor soil/disturbance impacts will occur within the 'no-disturb' zone. The impacts should be minor vegetation removal and soil disturbance to install the retaining wall. A buffer restoration plan will be provided at a later date in order to ensure that soil and vegetation are re-established to RWMWD standards.

Permit Application Coversheet

Date September 05, 2018

Project Name Windwood Passage Park Improvements

Project Number 18-25

Applicant Name Sharon Doucette, City of Woodbury

Type of Development Park/Green Space

Property Description

This project is located at Windwood Passage Park in the City of Woodbury. The applicant is proposing to reconstruct tennis and basketball courts. The total site area is 1.3 acres. Volume reduction and rate control will be achieved through construction of a filtration basin. Filtration is being proposed due to high groundwater. A large upstream drainage area contributes to frequent wet ground within the park in existing conditions. The proposed filtration basin has been oversized to help alleviate this problem and is designed to treat 3.7 acres of runoff.

Watershed District Policies or Standards Involved:

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

Water Quantity Considerations

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

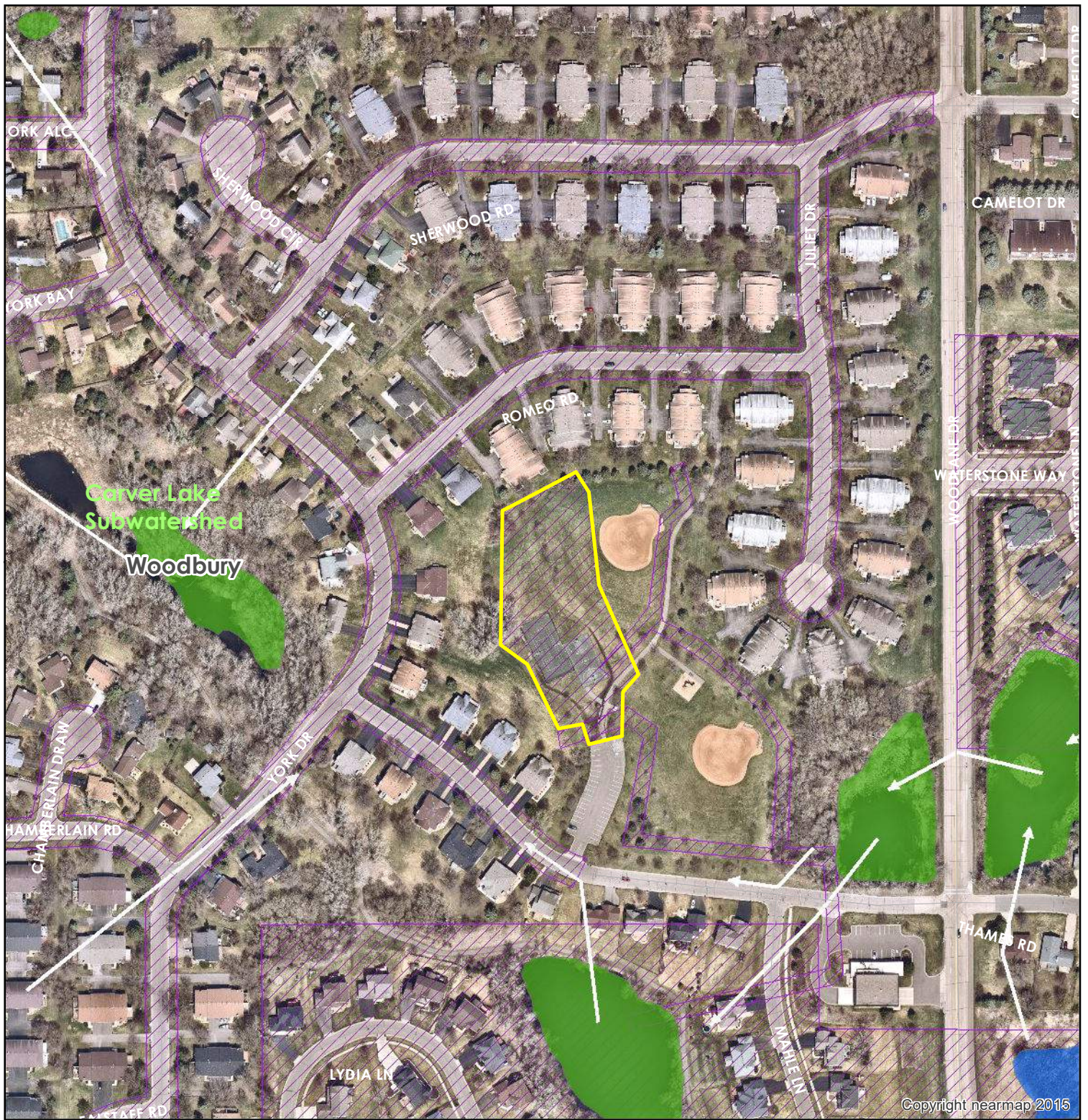
Staff Recommendation

Staff recommends approval of this permit with the special provisions.

Attachments:

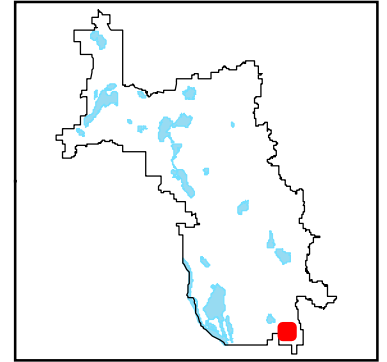
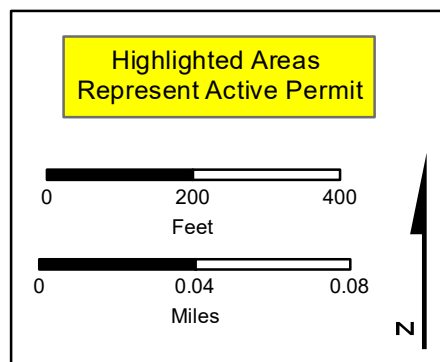
- ☒ **Project Location Map**
- ☒ **Project Grading Plan**

#18-25 Windwood Passage Park Improvements



Wetlands	
Red	Manage A
Green	Manage B
Blue	Manage C
Light Blue	Lake
Grey	Sediment Pond
Purple	Not Assessed

Black outline	RWMWD Boundary
Orange dashed line	Watershed Org
White arrow	Flow Arrows
Green arrow	Major Flow Arrows
Green dashed line	Subwatersheds
Blue line	Creeks
Purple hatched area	Permits
White dashed line	City Boundaries



Special Provisions

1. The applicant shall submit a revised grading plan that shows a concentrated emergency overflow from the filtration basin.
2. The applicant shall submit details for the proposed berm that demonstrate protection against seepage and erosion including a typical cross-section and design calculations.
3. The applicant shall provide contact information for the trained erosion control coordinator responsible for implementing the Stormwater Pollution Prevention Plan (SWPPP).
4. The applicant shall submit a copy of the Minnesota Pollution Control Agency's NPDES Construction Permit.
5. The applicant shall submit a final copy of the signed construction plans.



SCALE: AS SHOWN
DESIGN BY: SF
PLAN BY: CHECK BY:

[illegible]

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 LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.

Jeffrey Feulner

DATE: 08/15/18 LJC, NO: 42978

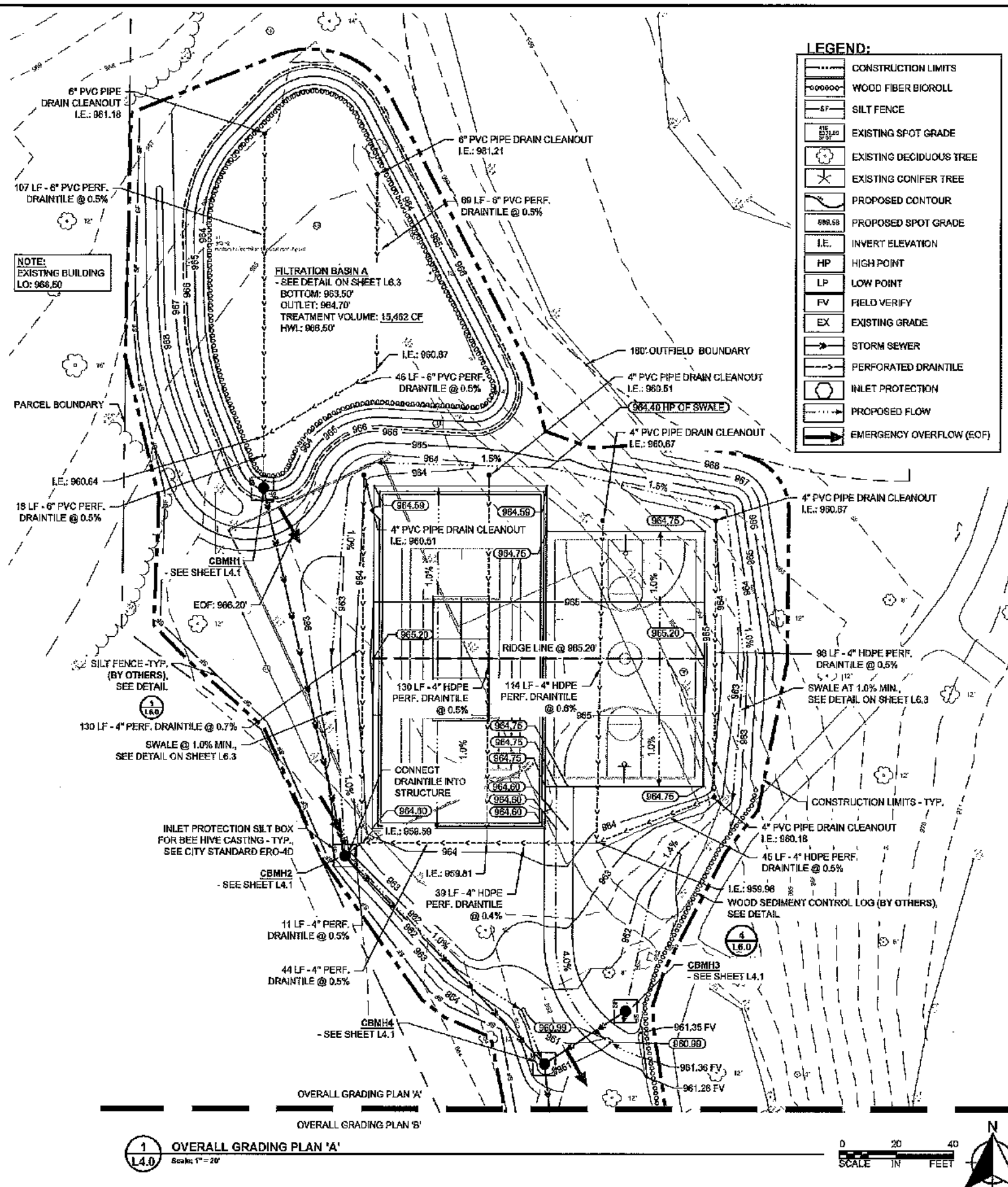
WINDWOOD PASSAGE PARK COURT AND POND IMPROVEMENTS

WOODBURY

GRADING

C.P.
2018 CDBG
WINDWOOD
PASSAGE PARK

SHEET
L4.0



Permit Application Coversheet

Date September 05, 2018

Project Name MnDOT I694/I494/I94 Loop

Project Number 18-26

Applicant Name Brian Kelly, MnDOT

Type of Development Linear

Property Description

This project is located along I-694/I-494/I-94 in the cities of Woodbury and Oakdale. The total site area is approximately 65.1 acres with the majority of the corridor proposed as a mill-and-overlay. The southeast loop will be reconstructed along with approaches, bridges, and loops within the project area. The portion of the project that will be disturbed to the sub-base and reconstructed is 3.19 acres. Volume reduction and rate control will be achieved through construction of an iron-enhanced filtration basin. Improvements to an existing filtration basin are also proposed to enhance its function. Due to high groundwater, the proposed filtration basin will be constructed with an impermeable liner. The applicant has submitted a variance request for temporary disturbance to wetland buffers to accommodate site grading. The buffer areas disturbed will be restored with a native seed mix. There are no proposed impacts to District-regulated wetlands.

Watershed District Policies or Standards Involved:

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

Water Quantity Considerations

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

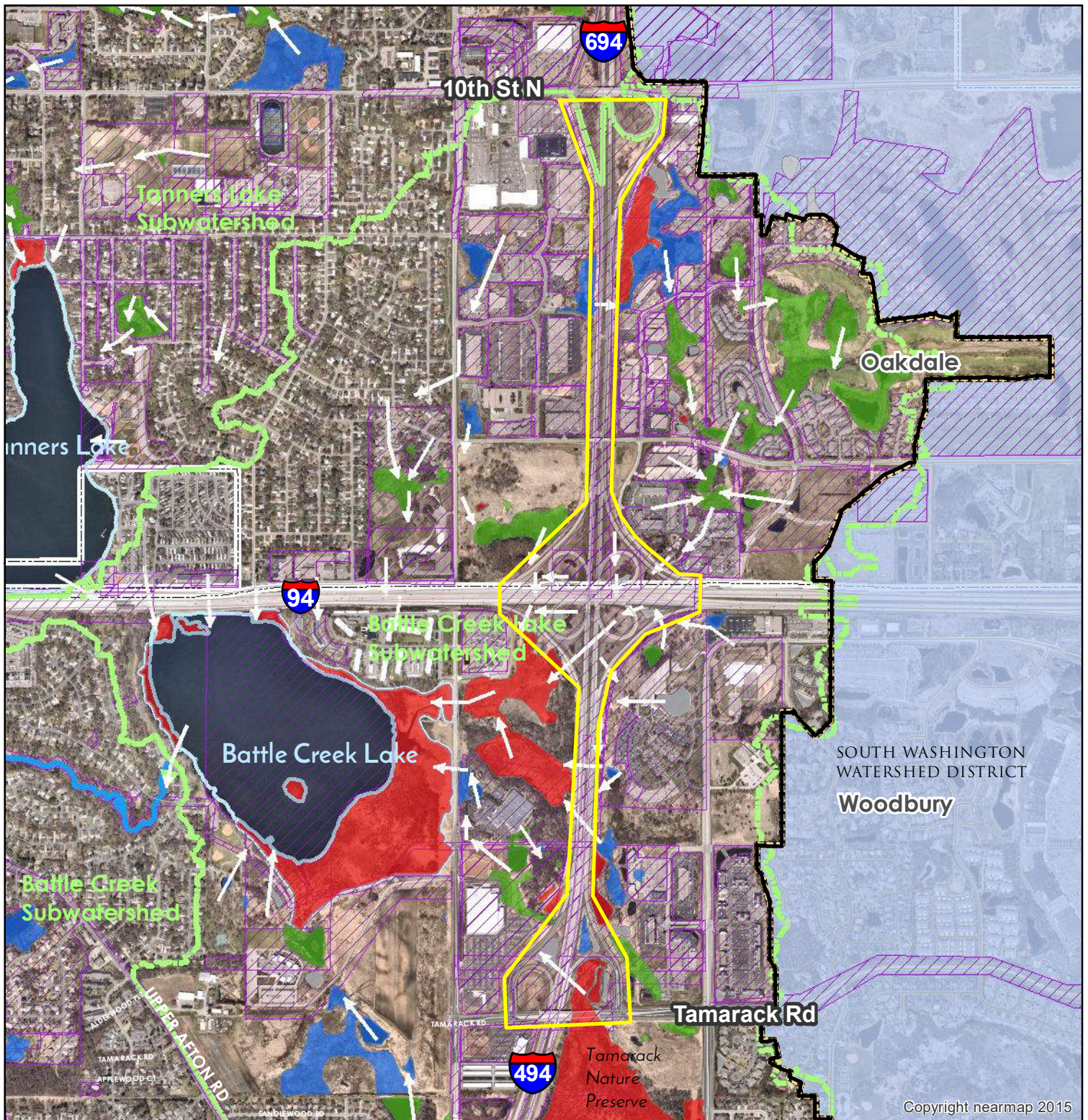
Staff Recommendation

Staff recommends approval of this permit with the special provisions and variance request.

Attachments:

- ☒ **Project Location Map**
- ☒ **Project Grading Plan**

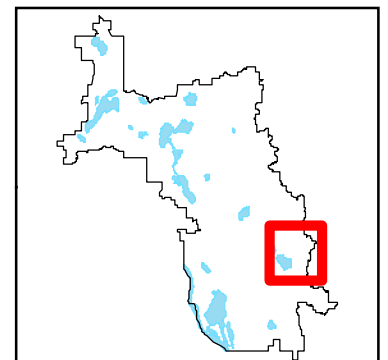
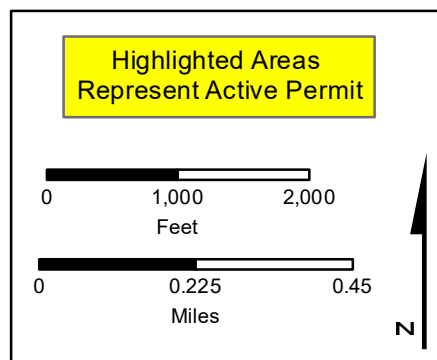
#18-26 MnDOT I694 / I494 / I94 Loop



Note: Shaded area is outside RWMWD

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

	RWMWD Boundary
	Watershed Org
→	Flow Arrows
→	Major Flow Arrows
	Subwatersheds
—	Creeks
	Permits
	City Boundaries



Special Provisions

1. The applicant shall add the following notes to the plans:
 - A. Notify Nicole Soderholm, Ramsey-Washington Metro Watershed District, at 651-792-7976 prior to beginning any and all construction activity to schedule an initial SWPPP inspection.
 - B. Notify Nicole Soderholm, Ramsey-Washington Metro Watershed District, at 651-792-7976 at least 48 hours prior to construction of the filtration basin 'Jordan Pond.'
 - C. The specified erosion and sediment control practices are the minimum. Additional practices may be required during the course of construction.
2. The applicant shall provide contact information for the trained erosion control coordinator responsible for implementing the Stormwater Pollution Prevention Plan (SWPPP).
3. The applicant shall submit a copy of the approved Minnesota Pollution Control Agency's NPDES Construction Permit.
4. The applicant shall submit final SWPPP plan sheets 301-303.

MnDOT Metro District
1500 West Co Rd B-2
Roseville, MN 55113

August 13, 2018

Board of Directors
 Ramsey Washington Metro Watershed District
 2665 Noel Drive
 Little Canada, MN, 55117

Dear Watershed District Board of Directors,

State project 8286-81 involves concrete paving with bridge replacement from .8 miles south of the 94/494/694 junction to 1 mile north of the junction. Impacts to wetland buffers were minimized throughout the project by utilizing steeper 1:4 slopes instead of the 1:6 slopes recommended by the Federal Highway Administration. However, there are still some impacts to the wetland buffers in the project site. The table below details the impacts.

Table: SP 8286-81 Wetland Buffer Impacts	Manage A wetlands						Manage B wetlands			Manage C wetlands	
DNR Number	19	27b	26	20	15	8	21	10	7	23a	23b
Minimum distance from wetland to construction limit	0	37	4	23	13	15	5	67	0	17	0
Average distance from wetland to construction limit	23	42.5	8	23	238.3	75	26	112.7	44	32.7	22.3
Wetland Buffer Impact	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	No	Yes

These impacts will be temporary, after construction, these areas will be seeded with a riparian pond and a native mesic prairie mix. The pond mix will be used along the 10' perimeter of the wetland and the mesic prairie mix will be placed above this until the start of pavement. Erosion control blankets will be used. Therefore, some of the ecological function of the wetland buffers should be restored.

The reasons for the reason for these temporary impacts is to make safe driving conditions for the public. Due to the fact that impacts in the wetland buffer are unavoidable and have been minimized a variance request is being requested herein. Feel free to contact me with any questions or concerns.

Sincerely,

Mark Bushinski

Hydrologist

CC:

Equal Opportunity Employer



RAMSEY-WASHINGTON

METRO WATERSHED DISTRICT

MEMORANDUM

Date: September 5, 2018
To: Board of Managers and Staff
From: Nicole Soderholm, Permit Coordinator
Subject: August Enforcement Action Report

During August 2018:

Number of Violations:	19
Install/Maintain Inlet Protection	4
Install/Maintain Perimeter Control	7
Install/Maintain Construction Entrance	2
Stabilize Exposed Soils	1
Contain Liquid/Solid Wastes	1
Remove Discharged Sediment	1
Protect/Maintain Permanent BMPs	2
Install/Maintain Energy Dissipation	1

Ongoing Activities:

Erosion/sediment control inspections and enforcement, BMP construction observation, permitting assistance to private developers and public entities, permit review with Barr Engineering, miscellaneous inquiries, WCA administration, collaboration with CRWD for proposed permit rule changes, permit close-outs

Project Updates:

Permit #18-12 Panera Bread 2965 White Bear Ave, Maplewood

The permit for the proposed Maplewood Panera was issued on August 29th. District staff requested the contractor and applicant to schedule an initial SWPPP inspection once the erosion control practices have been installed.

Permit #18-03 Suite Living North St. Paul

The permit for the proposed Suite Living senior housing facility in North St. Paul was issued on August 28th. District staff requested the contractor and applicant to schedule an initial SWPPP inspection once the erosion control practices have been installed.

Permit #15-40 Maplewood Imports Inventory Lot

A final punchlist was generated from a June 13th site visit to the completed Maplewood Imports project off Hwy 61. The contractor monitored the final vegetation establishment in the subsequent months and notified District staff on August 20th that the site was ready for a final inspection. A final inspection was completed on August 23rd, and vegetation establishment was confirmed as sufficient to close the watershed permit. The contractor has submitted the as-built utility plan to District staff, and the permit is now closed with an escrow refund pending.

Permit #17-31 Met Council Beltline Sanitary Sewer Rehab, St. Paul

The permit for the proposed Beltline sanitary sewer replacement project was issued on August 12th. A preconstruction meeting was held on August 16th with work expecting to begin on Phase 1 of the project near the end of August. District staff requested the contractor and applicant to schedule an initial SWPPP inspection once the erosion control practices have been installed.

Permit #17-18 Owasso Park Improvements, Shoreview

Work continues on Ramsey County's Owasso Park project in Shoreview. The District Inspector Intern visited the site on August 7th and found the site to be non-compliant with exposed soils causing erosion issues on the site. The contractor had been notified multiple times prior to stabilize the site. Staff requested an immediate response from the contractor who had been difficult to communicate with in the past. District staff met with the contractor and Ramsey County Parks staff on August 10th to discuss the required corrective actions on the site. The District's attorney sent a follow-up letter to the contractor the following week outlining the items that were agreed upon during the onsite meeting. Due to a lackluster response by the contractor, the MPCA inspector was notified on August 16th of the ongoing issues on the site. The site was stabilized the following day, so the MPCA inspector was called off for the time being. A follow-up visit on August 20th led to additional violations due to lack of perimeter control and inlet protection. The county agreed to correct the issues. As of August 29th the site is in compliance with vegetation growing in most areas. Maintenance items like silt fence repair were requested due to large rain events at the end of the month. The county has transferred the project to a new contractor and is aware that the MPCA may be contacted in the future if there are any additional problems on the site.

Permits Closed in August 2018:

- 15-35 Shoreview Library, Shoreview
- 15-40 Maplewood Imports Inventory Lot, Maplewood
- 16-26 Wilson Ridge II Apartments, St. Paul
- 16-28 Hazelwood Medical Office Building, Maplewood

Stewardship Grant Program

BMP Incentive Application Summary

Project Name: Holloway Ponds

Application Number: 18-20 CS

Board Meeting Date: 9/5/2018

Applicant Name: Vicki Pream

Residential ☐

Commercial/Government ☒

Project Overview:

This project is located at the Hollow Ponds townhome association in the City of Maplewood. A series of 4 rain gardens to capture street, roof top, and driveway runoff. The rain gardens will have under drains installed due to poor soils. Excavation, amended soils, and mulch installation will happen Fall 2018 with plantings and curb cuts to happen next spring. Ramsey Conservation District will be contributing about \$22,000 in grant funds for this project.

This project is in a priority area and is eligible for \$100,000.

BMP type(s):

Rain Garden(1)

Grant Request:

\$100,000.00

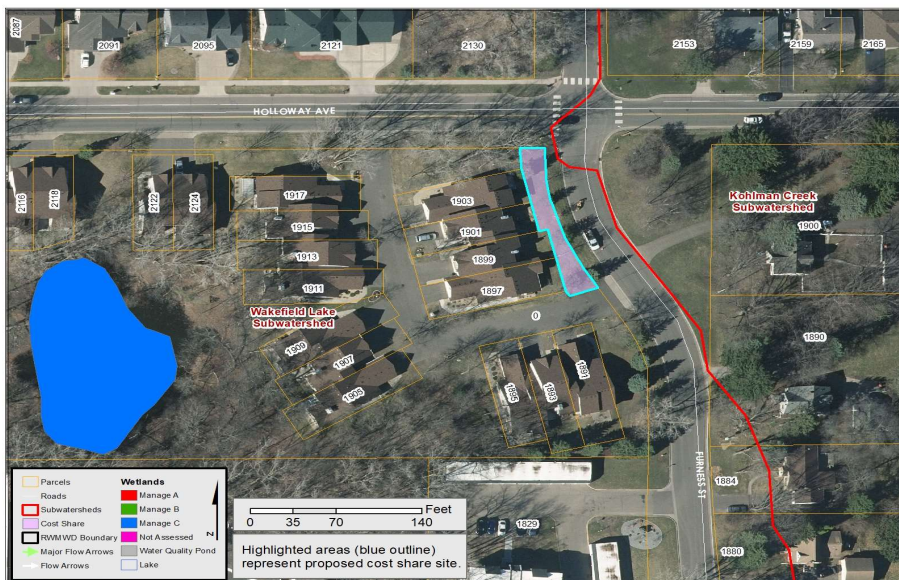
Recommendation:

Staff recommends approval of this application.

Subwatershed:

Wakefield Lake

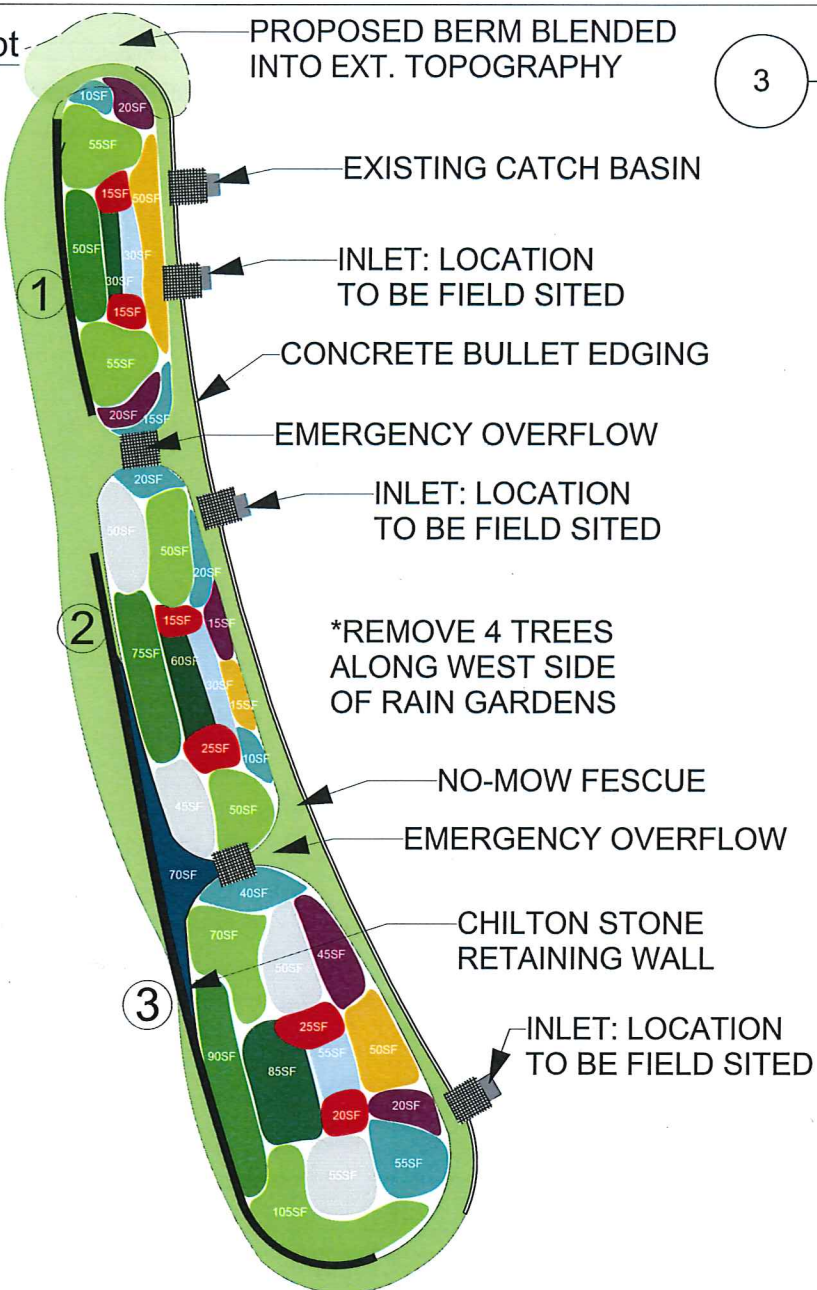
Location Maps:



1 Concept Plan
Scale: 1" = 40 ft



2 Rain Garden Concept
Scale: 1" = 20 ft

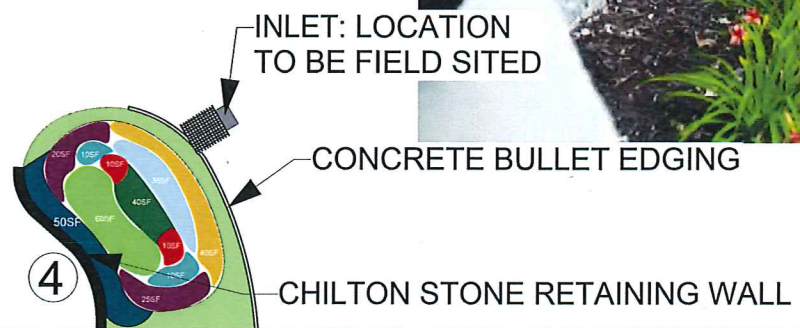


- BLACK CHOKEBERRY (215 SF)
- DOGWOOD 'ALEMAN'S COMPACT' (445 SF)
- COMMON SNOWBERRY (200 SF)
- FOX SEDGE (215 SF)
- BLUE FLAG IRIS (190 SF)
- RUDBECKIA GOLDSTRUM (145 SF)
- FRAGRANT HYSSOP (150 SF)
- PURPLE CONEFLOWER (165 SF)
- CARDINAL FLOWER (135 SF)
- LITTLE BLUESTEM (120 SF)

3 Plant Palette



4 Chilton Stone Retaining Wall



Stewardship Grant Program Budget Status Update
September 5, 2018

Homeowner	Coverage	Number of Projects	Funds Allocated
Habitat Restoration and rain garden w/o hard surface drainage	50% Cost Share \$15,000 Max	4	\$9,959.41
Rain garden w/hard surface drainage, pervious pavement, green roof	75% Cost Share \$15,000 Max	2	\$9,650
Shoreland Restoration (below 100-year flood elevation w/actively eroding banks)	100% Cost Share \$15,000 Max	1	\$14,000

Commercial, School, Government, Church, Associations, etc.	Coverage	Number of Projects	Funds Allocated
Habitat Restoration	50% Cost Share \$15,000 Max	4	\$19,240
Shoreland Restoration (below 100-year flood elevation w/actively eroding banks)	100% Cost Share \$100,000 Max	0	\$0
PRIORITY AREAS:	100% Cost Share \$100,000 Max	6	\$486,378.73
NON-PRIORITY AREAS:	75% Cost Share \$50,000 Max	2	\$64,830
Aquatic Veg Harvest	50% Cost Share \$15,000 Max	1	\$8,500
Maintenance	50% Cost Share \$5,000 Max for 5 Years	9	\$1,000
Consultant Fees			\$70,907
Total Allocated			\$691,465.14

2018 Stewardship Grant Program Budget	
Budget	\$800,000.00
Total Funds Allocated	\$691,465.14
Total Available Funds (not including 2017 carryover)	\$108,534.86

* * * * *

Action Items

* * * * *

Request for Board Action

Board Meeting Date: September 5, 2018

Agenda Item No: 9A

Preparer: Tina Carstens, Administrator

Item Description: Approval of District budget and preliminary levy for fiscal year 2019.

Background:

The district board discussed the preliminary budget issues at the August Board meeting. A change in one line item has been made from that discussion to correct the calculation error in the salary and benefits budget. That is highlighted in purple. The draft budget has been noticed in the legal newspapers and posted on the District web site. No comments have been received to date.

The required public hearing will be held at the September board meeting prior to this action item to receive comments. At the public hearing I will give a short presentation on the proposed 2019 budget and preliminary levy.

The preliminary levy amount will be used to file the necessary preliminary levy notification forms with Ramsey and Washington County. Changes to the budget can be made until the final budget and levy certification at the December board meeting.

Applicable District Goal and Action Item:

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

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

Staff Recommendation:

Approve the draft budget for purposes of the preliminary levy and approve resolution 18-06.

Financial Implications:

The counties require preliminary levy certification. This step is required for final levy authority in December.

Board Action Requested:

Approve the draft budget for purposes of the preliminary levy and approve resolution 18-06.



RESOLUTION 18-06

RESOLUTION APPROVING THE PRELIMINARY PAYABLE 2019 TAX LEVY

WHEREAS, the Ramsey-Washington Metro Watershed District (District) prepared a budget for fiscal year 2019 to implement the District's programs and projects as defined in the District's Watershed Management Plan; and

WHEREAS, the District distributed the proposed budget and levy for review and comment and conducted a requisite public hearing on September 5, 2018;

NOW, THEREFORE, BE IT RESOLVED by the Board of Managers of the Ramsey-Washington Metro Watershed District that the following preliminary levy be certified to Ramsey and Washington Counties.

General Revenue Levy	\$6,376,435
<u>Debt Service Levy</u>	<u>\$399,113</u>
Total Levy	\$6,775,548

Adopted by the Board of Managers of the Ramsey-Washington Metro Watershed District this 5th day of September, 2018.

Marj Ebensteiner, President

Attest:

Dr. Pam Skinner, Secretary

Fiscal Year 2019 Budget V3
Preliminary Budget and Levy Approval 09/05/2018

Budget ID Number	Budget Item	FY 2018 Budget	FY 2019 Budget Fund Source				Total Proposed 2019 Budget	Increase (decrease) from 2018 Budget
			General Fund	Capital Improvements	Carry-over Funds	Grant Funds		
1	Engineering Administration	93,000	93,000				93,000	0
2	Engineering Review	55,000	55,000				55,000	0
3	Permit Application Review	50,000	55,000				55,000	5,000
4	Permit Inspection and Enforcement	15,000	10,000				10,000	(5,000)
5	Project Feasibility Studies	735,000	420,000		314,000	80,000	814,000	79,000
6	GIS Maintenance	5,000	5,000				5,000	0
7								
8	Attorney General	40,000	40,000				40,000	0
9	Permit Enforcement	10,000	10,000				10,000	0
10								
11	Managers Meeting Per diems	6,500	6,500				6,500	0
12	Managers Expenses	3,500	3,500				3,500	0
13								
14	Auditor/Accounting Auditor/Accounting	50,000	55,000				55,000	5,000
15								
16	Miscellaneous Dues & Publications	11,000	11,000				11,000	0
17	Insurance	35,000	35,000				35,000	0
18	Committee & Board Meeting Expenses	3,500	3,500				3,500	0
19	Miscellaneous	5,000	5,000				5,000	0
20								
21	Administrative Salary & Benefits	1,300,000	1,385,000				1,385,000	85,000
22	Employee Expenses	10,000	10,000				10,000	0
23	Janitorial/Trash Services/Snow Plowing	17,000	17,000				17,000	0
24	Building Maintenance	70,000	300,000				300,000	230,000
25	Utilities (gas,electric, water, sewer, maintenance)	18,000	20,000				20,000	2,000
26	Office Supplies	5,000	5,000				5,000	0
27	Copying/Printing	8,000	8,000				8,000	0
28	Postage/Delivery	10,000	10,000				10,000	0
29	Office Furniture & Computer Equipment	40,000	40,000				40,000	0
30	Office Equipment Maintenance	3,000	3,000				3,000	0
31	Training/Education	25,000	25,000				25,000	0
32	Telephone	8,000	8,000				8,000	0
33	District Vehicles/Maintenance	43,000	43,000				43,000	0
34	GIS System Maintenance & Equip.	15,000	10,000				10,000	(5,000)
35	Data Base Improvements	10,000	5,000				5,000	(5,000)
36	IT Services/Internet/Website/Software Licenses	42,000	45,000				45,000	3,000
37	Outside Program Support	60,000	57,000				57,000	(3,000)
38	Outside Consulting Services	40,000	40,000				40,000	0
39								
40	Program Lake Studies/WRPPs/TMDL Reports	115,000	68,000				68,000	(47,000)
41	Activities Natural Resources Program	100,000	115,000				115,000	15,000
42	Water Monitoring-Lab Costs & Equip.	513,000	200,000				200,000	(313,000)
43	Lake Macrophyte Monitoring	10,000	10,000				10,000	0
44	Research Projects	100,000	115,000				115,000	15,000
45	Project Operations	140,000	160,000				160,000	20,000
46	Education Program	60,000	60,000				60,000	0
47	Communications and Marketing	25,000	25,000				25,000	0
48	Events	50,000	50,000				50,000	0
49	NPDES Phase II	20,000	10,000				10,000	(10,000)
50	Health & Safety Program/Staff In-House Training	2,000	3,000				3,000	1,000
51								
52	Capital Improvements 1997-98 Beltline Repair Debt Service (Completed)	49,916		0			0	(49,916)
53	Summary Mapewood Mall SRF Loan Debt Service	92,272		91,950			91,950	(322)
54	Beltline and Battle Creek Tunnel Repair Debt Service	306,763		307,163			307,163	400
55	District Office Building Bond Payment	194,885		194,885			194,885	0
56	Targeted Retrofit Projects	800,000		100,000	700,000	78,760	878,760	78,760
57	BMP Incentive Fund	800,000		800,000			800,000	0
58	Project Repair & Maintenance	1,000,000		1,120,000			1,120,000	120,000
59	Wakefield Park Project	1,100,000		0	973,154	126,846	1,100,000	0
60	Frost/Kennard Enhanced WQ BMP	400,000		0			0	(400,000)
61	Markham Pond Dredging and Aeration	25,000		0			0	(25,000)
62	Willow Pond CMAC	400,000		0	300,000		300,000	(100,000)
63	694/494/94 Water Quality Treatment	0		575,000			575,000	575,000
64	Impervious Surface Volume Reduction Opportunity Fund	1,500,000		0	1,500,000		1,500,000	0
65	District Office Building Solar Energy Retrofit	150,000		0			0	(150,000)
66	Flood Damage Reduction Fund	2,000,000		1,000,000	1,500,000		2,500,000	500,000
Totals		12,795,336	3,654,500	4,188,998	5,287,154	285,606	13,416,258	620,922

	Budget Total	Budget Total By Fund		Proposed Prelim Levy
		General Fund	CIB	
2019 Budget Total and totals by fund	13,416,258	4,048,500	9,367,758	6,775,548
2018 Budget Total and totals by fund	12,795,336	3,976,500	8,818,836	6,565,860
2019 Budget Increase or (Decrease) from 2018 Budget	620,922	72,000	548,922	209,688
2019 Budget % change from 2018 Budget	4.85%	1.81%	6.22%	3.19%

Administrator's Report

MEMO

TO: Board of Managers and Staff
FROM: Tina Carstens, Administrator
SUBJECT: September Administrator's Report
DATE: August 30, 2018

A. Meetings Attended

Wednesday, August 1	6:30 PM	Board meeting
Thursday, August 2	2:30 PM	Solar panels energized
Monday, August 6	12:00 PM	Staff training – communications
Tuesday, August 7	11:30 PM	Meet with board member Swope
Wednesday, August 8	10:00 AM	Gold Line stormwater meeting
Thursday, August 9	1:00 PM	Meet with Little Canada re: Twin Lake
Friday, August 10	11:00 AM	Owasso Park meeting
Tuesday, August 14	11:30 AM	Sam's last day lunch
Tuesday, August 21	11:30 AM	Enforcement charges discussion

B. Upcoming Meetings and Dates

Board/CAC Tour	<i>Monday, September 17, 2018</i> (confirm next week)
October Board Meeting	Wednesday, October 10, 2018
November Board Meeting	Wednesday, November 7, 2018
Watershed Excellence Awards	Wednesday, November 14, 2018
MAWD Annual Meeting	November 29 – December 1, 2018
December Board Meeting	Wednesday, December 5, 2018

C. MAWD Update and Resolution Information

Attached is the MAWD Summer Newsletter for your information. You'll find pictures and stories from the MAWD summer tour as well as the Legislative Water Commission tour that I mentioned last month. Also note the update on the MAWD committees that met over the summer. I have volunteered to be part of the MAWD Annual Meeting planning committee and we will be meeting next week.

Also attached is a booklet of information regarding MAWD resolutions. If the board is interested in submitting any resolutions to the committee, they are due on October 1. Included in the attachment are all the resolutions that passed in 2017 as well as the "Therefore, Be It Resolved" statements from the last five years. This is not a complete policy book but something more complete is in the works.

MAWD Executive Director, Emily Javens, has also put together a presentation on tips and tricks for writing MAWD resolutions. If you are interested in seeing that it is posted on the MAWD website.

www.mnwatershed.org/s/July17_Resolutions101.pdf



MAWD Quarterly Newsletter

Summer 2018

Updates from the association committed to empowering effective local watershed management through education, advocacy, networking, and communications.

OUTREACH EVENTS

Summer Tour

When all told, nearly 250 people were involved in the MAWD Summer Tour this year and included many first-time guests, including those from the Legislative Water Commission and the Southwest Metro Local Leaders Water Institute. Networking and learning took place aboard a boat, on a bus tour, and right inside a watershed district office and learning center!



For more photos, visit our Facebook page! Remember to “like” our posts so they will pop up in more news feeds!

www.facebook.com/pg/mnwd46/photos/



A huge thank-you to:



Lower MN River WD for organizing the boat tour, **Carver County WMO** for organizing the morning stops of the bus tour, **Riley-Purgatory Bluff Creek WD** for organizing the afternoon bus stops and Friday’s technical training, and **Nine Mile Creek WD** for hosting Friday’s leadership session at their headquarters!



Legislative Water Commission Northeast Metro Bus Tour

The Legislative Water Commission asked three of our watershed districts to show them some examples of innovative stormwater management. Here is what they showcased. Thank you for sharing your stories!



Capitol Region WD

Forrest Kelly described the underground storage and stormwater reuse system built to moderate flows and irrigate a community ball field.



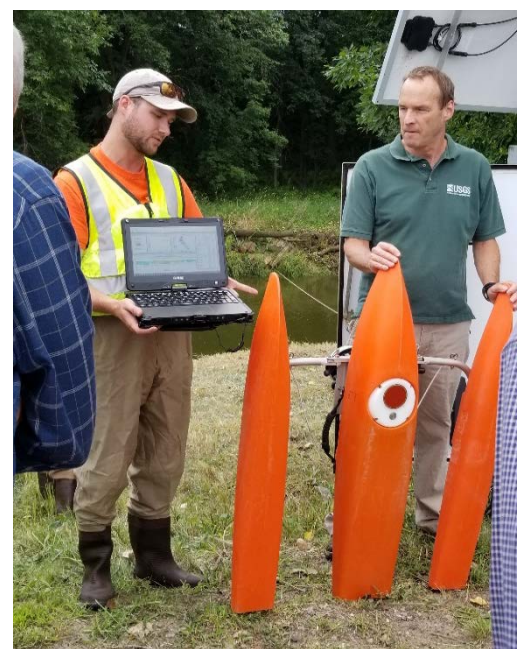
Ramsey Washington Metro WD

Tina Carstens highlighted the stormwater retrofits and outreach tools used at the Maplewood Mall. Senators Chuck Wiger and Chris Eaton had fun making music with the onsite cistern.



Rice Creek WD

The RCWD Board welcomed guests during the stops in their district. Phil Belfiori and Kyle Axtell, along with several city representatives showcased a new water treatment facility, various stream monitoring techniques, permeable pavement, and an iron-enhanced sand filter system that treats flows from a public ditch.



Creek restoration shows success of Minnesota clean water fund

By Brad Dokken on Jun 10, 2018 at 11:20 a.m.



The Grand Forks Herald and the Bemidji Pioneer recently highlighted the Grand Marais Creek Restoration Project, completed by the **Red Lake Watershed District**. Administrator Myron Jesme discussed how more than a dozen funding partners, including the Clean Water Fund and the Lessard-Sams Outdoor Heritage Council, came together to reconnect the creek that had been cut off in 1905 with the construction of a drainage ditch that sent runoff more directly to the Red River. The 6.5-mile stream restoration project has a drainage area of 300-square-miles and used practices such as drop structures, toe wood installations, and native plantings to decrease sediment delivery and as a result, improved water quality and habitat. Video and story can be found here: www.bemidjipioneer.com/news/science-and-nature/4458059-creek-restoration-shows-success-minnesota-clean-water-fund

Please share your news stories with us and we will share on social media to keep our stories in the spotlight!

ADVOCACY EFFORTS

Over the past several months, MAWD has been busy advocating on behalf of watershed districts at meetings with various entities such as the Drainage Work Group, Clean Water Council, Legislative Water Commission, Board of Water and Soil Resources, etc. Here are some updates on two groups that are particularly active right now.

Drainage Work Group

Representatives: Tim Dritz, MAWD Board of Directors, **Yellow Medicine River WD**
Harvey Kruger, **Heron Lake WD**
Emily Javens, MAWD Executive Director

Meeting Schedule: 2nd Thursday of the month, June - December

Summary of Efforts: The Drainage Work Group (DWG) has resumed meetings with the close of the 2018 legislative session. We are currently working on the following priorities: (1) Finalize a charter that better describes member responsibilities and the process used to gain consensus within the group. (2) Finalize the 2019 Legislative Platform BEFORE Thanksgiving to allow it to be shared at various annual conventions. (3) Form a subcommittee that will prepare a communications plan and marketing materials that can be distributed to citizens, legislators, and the group's members that describe items we are sending to the legislature for consideration.

Accomplishments: **Good news! Problem Solved!**
Drainage Authorities now have a simple process to borrow money at 0% interest from the MN Department of Agriculture's (MDA) Ag BMP Loan Program to purchase public drainage system buffer easements. Previously, separate applications were required for each individual landowner with signatures from every impacted landowner. Now, only two submittals are required: a copy of the order establishing the buffers and a spreadsheet with details of the parcels impacted. This improvement is a direct result of efforts to pass legislation to simplify the requirements for drainage authorities to do this. If the legislation had passed, a little less paperwork would have been required, but this administrative solution should work well for drainage authorities. Thanks to the MDA for working with us to find a solution!

Clean Water Council

Representatives: Pam Blixt, former Minnehaha Creek WD manager

Meeting Schedule: 3rd Monday of the month

Summary of Efforts: The Clean Water Council has been reviewing funding recommendations for how to spend Clean Water Funds in Fiscal Years 20-21. The state agencies have been presenting their proposals and the Budget and Outcomes Committee has been working on making a recommendation to the full council for their August 20th meeting. MAWD has been closely following the process and has met with the Association of MN Counties and the MN Association of Soil and Water Conservation Districts to review proposals and offer feedback to the Council as deemed necessary.

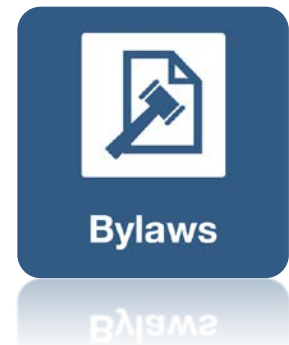
Accomplishments: The latest budget proposal for Clean Water Funds sets aside nearly 60% to be spent on implementation projects (if you include conservation easements and water and wastewater infrastructure projects). Watershed Districts will be eligible for the following: \$33M – Surface and Drinking Water Protection / Restoration Projects Grants, \$29.4M – “Fund the Plan” grants, \$11.5M – Accelerated Implementation Grants, and \$3M – Drainage Water Management Grants. The total fund is estimated to have \$260M available in the next biennium.

MAWD COMMITTEES

MAWD committee work is coming up to speed this summer. So far, the governance subcommittees have met and completed their annual review of our governance documents. Next to meet: finance, annual meeting, and resolutions committees.

Governance Committee – Bylaws and MOPP Subcommittee

Representatives: Mary Texer, Chair, **Capitol Region WD**
Craig Leiser, **Brown's Creek WD**
Gary Ewert, **Heron Lake WD**
Shirley Reider, **Capitol Region WD**
Jamie Beyer, **Bois de Sioux WD**
Andy Henschel, **Shell Rock WD**
John Hanson, **Valley Branch WD**
Emily Javens, MAWD



Summary of Efforts: The Bylaws and Manual of Policies and Procedures Committee (MOPP) met July 16, 2018 from 3:30 to 5:00 at the offices of the Capitol Region Watershed District. The committee reviewed both the Bylaws and the MOPP. In addition to cleaning up the language to make the documents consistent both internally and with each other, the committee recommends adding language to allow for Water Management Organizations (WMOs) to join MAWD with full voting rights. Dues would be allocated using the same formula as used for Watershed District Members. Additional guidance was also provided regarding per diem policies for the Board of Directors.

Governance Committee – Strategic Plan Subcommittee

Representatives: Mary Texer, Chair, **Capitol Region WD**
Craig Leiser, **Brown's Creek WD**
Gary Ewert, **Heron Lake WD**
Shirley Reider, **Capitol Region WD**
Dan Money, **Two Rivers WD**
Michelle Overholser, **Yellow Medicine River WD**
Phil Belfiori, **Rice Creek WD**
Emily Javens, MAWD



Summary of Efforts: The Strategic Planning Committee met on July 23, 2018 from 3:30 to 5:00 at the offices of the Capitol Region Watershed District. The committee reviewed the 2016-2019 Strategic Plan and the 2016 MAWD Board of Directors Succession Plan to identify what has been accomplished and what remains outstanding. The committee decided that before writing a new Strategic Plan for 2020 to 2022 a new membership survey needed to be taken to identify membership priorities / needs. This survey would be announced at the 2018 Annual Meeting and administered in December 2018/January 2019. The results of the survey would be available to the MAWD Board by the March 2019 Board Meeting. The Strategic Planning Committee would have from April until the June 2019 Board Meeting to write a new Strategic Plan for review and approval by the Board no later than the September 2019 Board Meeting. The plan would be presented to the membership for a vote at the 2019 Annual Meeting.

Thank you to all committee members for their efforts to keep MAWD governance documents up to date!

MEMBER SERVICES

JOB POSTINGS

Don't forget to advertise your job openings on our job board. Here is a screenshot from earlier this summer. Check out how active we were with hiring! In the past 31 days, we've had 374 hits on the job board page! Here is the link if you want to check the latest postings: www.mnwatershed.org/watershed-district-job-opportunities/

About Watershed Districts

WHAT IS A WATERSHED DISTRICT?

ESTABLISHING A WATERSHED DISTRICT

WHAT DO WATERSHEDS DO?

WHERE IS MY WATERSHED DISTRICT?

WATERSHED DISTRICT MAP

MINNESOTA DRAINAGE

WATERSHED DISTRICT JOB OPPORTUNITIES

HERE IS A LIST OF CURRENT WATERSHED DISTRICT JOB OPPORTUNITIES IN MINNESOTA:

- Brown's Creek Watershed District: [Communications and Project Assistant](#)
- Buffalo Red River Watershed District: [Assistant District Administrator \(Barnesville, MN\)](#)
- Chippewa River: [Watershed Coordinator](#)
- Comfort Lake Forest Lake Watershed District: [Seasonal Technician](#)
- Comfort Lake Forest Lake Watershed District: [Watercraft Inspectors](#)
- Coon Creek Watershed District: [Water Resource Regulation Coordinator](#)
- Minnehaha Creek Watershed District: [Permitting Assistant and Accounting Clerk](#)
- Nine Mile Creek Watershed District: [Summer Intern](#)
- Valley Branch Watershed District: [Seasonal Watercraft Inspector](#)

HERE IS A LIST OF JOB BOARDS MAINTAINED BY OUR PARTNERS:

- [MN Association of Conservation District Employees](#)
- [MN Board of Water and Soil Resources](#)

Good news! Money Saved!

Earlier this year, **Yellow Medicine River WD** was able to obtain software licenses for ArcGIS products at significantly reduced costs. MAWD shared that information with members and at least two more WDs were able to save a significant amount of money!



From **Comfort Lake Forest Lake WD**: "Just wanted to let you know that we applied for this grant and received two advanced licenses with all extensions for \$600 each (\$1,200 total, no added hidden fees or anything). Not quite the deal Yellow Medicine received, but I think it's based on your WD's annual budget and perhaps some other considerations that ESRI staff weighs. We are still pretty excited about the grant. Definitely enabled us to purchase the software sooner than we otherwise would have. We appreciate that email you sent out about this last month, otherwise I'm not sure we would have heard about the program!"

From **Heron Lake WD**: "Jan Voit explained... To purchase the software that is available through this grant opportunity, the cost would be \$12,000. Through the grant, the HLWD can get this software for \$200 per computer per year. **That is a savings of \$11,800.**"

Please continue to share these types of stories with MAWD staff and we will get them out to all members!

LEGISLATIVE UPDATES

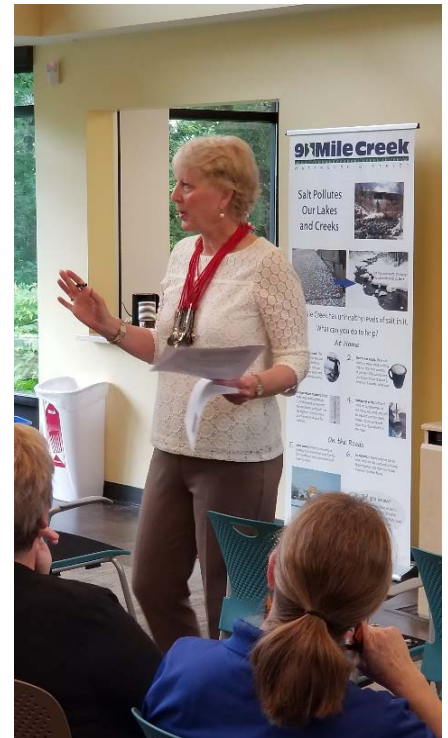
Guest speakers at the MAWD Summer Tour included several involved in this past year's legislative efforts. Look for more updates on this summer's legislative efforts in future publications.



Representative Dario Anselmo (left) was the chief author of the chloride legislation that provided limited liability protections to trained commercial chloride applicators.

Sue Nissen (right) was a volunteer deeply engaged in helping push this legislation forward. In her own words: the MAWD resolution "was pivotal in several of the strategies we used and was just plain an energy booster! I would like to share that story with the watersheds and encourage them to have their voices heard."

Representative Peter Fischer (not pictured), as chief author, gave an update to attendees on the coordinated watershed management bill that we diligently worked on during the last legislative session.



REMINDER – Resolutions are due to the MAWD Office by October 1

The 2018 Resolutions packets have been emailed to the administrators – please see them for more information.

TRAINING UPDATES

UPCOMING CONFERENCES

MN AQUATIC INVASIVE SPECIES RESEARCH AND MANAGEMENT SHOWCASE: Wednesday, September 12, St. Paul. Learn the latest research on starry stonewort, zebra mussels, spiny water flea, invasive carp, harmful fish diseases, and much more. <https://www.cfans.umn.edu/news/events/2018-minnesota-aquatic-invasive-species-research-and-management-showcase>

UPPER MIDWEST INVASIVE SPECIES CONFERENCE: October 15-18, Rochester. Expected to be the largest invasive species conference in North America this year. <https://www.umisc.net/>

MINNESOTA WATER RESOURCES CONFERENCE: October 16–17, Saint Paul. See innovative, practical, and applied water resource engineering solutions, management techniques, and current research. <https://ccaps.umn.edu/minnesota-water-resources-conference>

2018 BWSR ACADEMY: October 29-31, Breezy Point. Provides high quality training for local government staff that maintains and improves the delivery of natural resource work and meets the shared expectations of BWSR and local resource management boards. <http://www.bwsr.state.mn.us/academy/>

MINNESOTA GROUND WATER ASSOCIATION FALL CONFERENCE: November 15, St. Paul. Abstracts are being accepted on regional groundwater planning until September 1, 2018. <http://www.mgwa.org/>

MAWD ANNUAL CONVENTION: November 29 – December 1, Alexandria. Stay tuned for more details!

UPCOMING MEETINGS

The following meetings are scheduled (or will be scheduled soon):

August 30, 2018	Local Government Water Round Table (St. Paul)
September 5, 2018	Annual Meeting Committee (Little Canada)
September 10, 2018	Finance Committee Meeting (Hopkins)
September 21, 2018	MAWD Board of Directors Meeting (St. Cloud)



Thank you to everyone who attended the
2018 MAWD Summer Tour!

See you next year!

For more information on any of the news items presented,
please contact Emily Javens, MAWD Executive Director, at
(612) 790-0700 or exec.mawd@gmail.com.

Memo

DATE: August 10, 2018
TO: MAWD Members
FROM: Emily Javens, MAWD Executive Director

RE: 2018 Resolutions Process and Timeline

It is that time of year for MAWD members to submit their policy recommendations through our resolutions process. Here are the next steps and timeline:

August / September	Districts discuss and approve resolutions at their local board meetings
October 1	Deadline to submit resolutions and background information documents to the MAWD office at exec.MAWD@gmail.com
Mid-October	Resolutions Committee will review resolutions, garner further information when necessary, and make recommendations on them
November	Resolutions (along with committee feedback) will be emailed to each district by the end of October. Districts should discuss the resolutions at their November meetings and decide who will be voting on their behalf at the annual meeting.
Nov. 29 – Dec 1	Discussion and voting to take place at annual meeting
December / January	Legislative Committee will meet to formulate a recommendation to the MAWD Board of Directors for the 2019 legislative platform
January	MAWD Board of Directors will finalize the 2019 legislative platform

Resolutions passed by the membership at the annual meeting will remain MAWD policy from year to year unless changes are proposed and adopted by members at a future meeting.

NOTE: we are working to put together a formal policy book that will articulate ALL long-standing policies, as well as the more short-term legislative initiatives. In the meantime, we are providing the action statements (“therefore be it resolved” statements) that passed the membership in years 2013-2017, sorted by category. This is NOT a comprehensive list of MAWD policies, but it’s a start. We’ve also included the activity worksheet that has been provided in the past. Likewise, this document is not a complete tracking of recent legislative efforts. Please refer to previously distributed legislative updates for that information. Lastly, we’ve included the resolutions that passed in 2017 for your reference.

Tips and tricks for writing resolutions and getting them passed can be found on our website at www.mnwatershed.org/s/July17_Resolutions101.pdf

Please feel free to contact me if you have any questions at exec.MAWD@gmail.com or (612) 790-0700.

THANK YOU FOR YOUR EFFORTS IN POLICY DEVELOPMENT!



2018 MAWD Resolutions

Background Information

Proposing District: _____

Contact Name: _____

Phone Number: _____

Email Address: _____

Resolution Title: _____

Background that led to the submission of this resolution:

Ideas for how this issue could be solved:

Anticipated support or opposition from other governmental units?

This issue is of importance to (Check one)

To the entire state _____

Only our region _____

Only our district _____



Approved MAWD Resolutions Years 2013–2017

Sorted by Topic

IMPORTANT: THIS DOCUMENT IS ONLY A COLLECTION OF THE ACTION STATEMENTS THAT WERE APPROVED BY MAWD MEMBERS IN THE LAST FIVE YEARS. IT IS NOT A FULL POLICY BOOK. WE ARE IN THE PROCESS OF PUTTING TOGETHER A MORE COMPLETE COLLECTION. PLEASE DON'T HESITATE TO CONTACT EXECUTIVE DIRECTOR EMILY JAVENS WITH QUESTIONS AT EXEC.MAWD@GMAIL.COM OR 612-790-0700. THANK YOU!

WATERSHED DISTRICT AND PROJECT FUNDING

2017-03 Conservation Reserve Program (CRP) Support in the 2018 Federal Farm Bill

THEREFORE, BE IT RESOLVED that the Minnesota Association of Watershed Districts supports a strong CRP element in the Farm Bill conservation title, including but not limited to CRP reauthorization with an increased acreage cap, maintenance of continuous signup for high value environmental practices such as buffers and wetland restoration, maintenance or expansion of the grasslands program, and removal of restrictions on incorporation of drainage water quality management practices, while maintaining other successful federal conservation programs for agricultural lands such as EQIP and CSP;

BE IT FURTHER RESOLVED that MAWD will coordinate with the Minnesota Board of Water and Soil Resources, Minnesota Department of Agriculture and others to advocate to and work with the State's Congressional delegation and other federal representatives to achieve this policy goal.

2017-05 General Fund Levy Cap Increase for the Middle Fork Crow River Watershed District

THEREFORE, BE IT RESOLVED the Minnesota Association of Watershed Districts support the efforts of Middle Fork Crow River Watershed District to draft and advance special legislation affecting a change in its general fund levy cap.

2017-06 Stable Funding for the Flood Damage Reduction Program

THEREFORE, BE IT RESOLVED that the Minnesota Association of Watershed Districts support requesting the MN Legislature provide stable funding for the DNR FDR program. A suggested sustainable level of funding is \$25 million per year for the next 10 years.

2016-03 Tax-law Treatment of Conservation Easements

THEREFORE, BE IT RESOLVED that MAWD pursue a legislative initiative to define "riparian buffer" for purposes of conservation easements in state tax code and to establish an administrative procedure whereby a watershed organization would certify, for purposes of section 273.117, a conservation easement or restriction as meeting the water quantity and quality purposes cited in the tax law and therefore be eligible for a reduction in estimated market value.

2016-06 Increase General Fund Levy Cap to \$500,000

THEREFORE, BE IT RESOLVED that MAWD supports legislation to increase the cap on the general fund levy to \$500,000.

2016-04 Watershed District Fund: Statutory Correction

THEREFORE, BE IT RESOLVED that MAWD renew its direction to staff to work with the Board of Water and Soil Resources to sponsor an amendment to section 103D.905, subd. 9, to include all current and future, state-wide grant, cost share or low interest loan programs.

2015-02 Road Raises for Cities with Levees

THEREFORE, BE IT RESOLVED that it (MAWD) supports the State of Minnesota providing financial support through the (MN DNR Flood Damage Reduction) Program to cost share with local, state, and federal road authorities to provide road raises as an additional feature of (flood control levee) projects.

2014-01 Repair of Flood Damage in the Prior Lake Outlet Channel

THEREFORE, BE IT RESOLVED that MAWD supports legislative action that will help pay for damages to the PLOC (Prior Lake Outlet Channel) due to the 2014 flood; and

BE IT FURTHER RESOLVED that MAWD supports legislative action that will help pay for future flooding mitigation actions in the Prior Lake – Spring Lake Watershed District, such as developing and implementing a flood damage reduction and preparedness response plan as well as other actions.

2014-04 Leasing Lands Purchased with State General Obligation Bonds

THEREFORE, BE IT RESOLVED that MAWD seek a statutory amendment to allow reduced property tax valuation for conservation easements associated with water quality projects, sponsored by local government units.

2013-05 Statutory Correction on WD Funds

THEREFORE, BE IT RESOLVED the MN Association of Watershed Districts directs its staff to work with the Board of Water and Soil Resources to sponsor an amendment to section 103D.905, subd. 9, to include all current and future, state-wide grant, cost share or low interest loan programs for state approved projects.

2013-01 Engineering Study for Floodwater Retention Ponds, Lac qui Parle-Yellow Bank WD

THEREFORE, BE IT RESOLVED that MAWD support funding of \$500,000 from the legislature for engineering analysis for two floodwater retention projects as identified in the PL 87-639 study at sites located in Section 29 of Norman Township, Yellow Medicine County, on the South Branch of the Lac qui Parle River and in Sections 29/30 of Florida Township, Yellow Medicine County, on the West Branch of the Lac qui Parle River.

COORDINATED WATERSHED MANAGEMENT

2017-01 State Watershed Program Coordination with Local Watershed Implementation

THEREFORE, BE IT RESOLVED that the Minnesota Association of Watershed Districts pursue legislation requiring state Clean Water Land and Legacy Funds for One Watershed, One Plan and the WRAPS programs to provide a direct linkage and alignment with each other as well as local watershed plan implementation; and

BE IT FURTHER RESOLVED that the Minnesota Association of Watershed Districts pursue legislation to codify the Watershed Implementation Partnership funding recommendations from the Local Government Roundtable, 2016 Funding Workgroup Policy Paper; and

BE IT FURTHER RESOLVED that Clean Water Land and Legacy funds for One Watershed, One Plan and the WRAPS programs do not duplicate local efforts and are focused towards local watershed implementation.

2017-07 Creation of a Stormwater Reuse Task Force

THEREFORE, BE IT RESOLVED that the Minnesota Association of Watershed Districts pursue legislation requiring creation of a Stormwater Reuse Task Force with membership from Watershed Districts, Cities, Counties, State Agencies and other Stormwater Reuse implementers; and

BE IT FURTHER RESOLVED that the Stormwater Reuse Task Force should be charged with developing recommendations that further clarify and/or replace the information in the Water Reuse Report that relates to Stormwater Reuse BMP's.

2015-06 Establishment of Minnesota River Basin Commission

THEREFORE, BE IT RESOLVED that MAWD supports the legislative establishment of a MN River Basin Commission to provide effective and efficient proactive comprehensive basin planning; administration; project development; implementation; construction and maintenance of water resource projects and programs of benefit to the MN River Basin with a focus on water quantity and water quality management.

WATERSHED DISTRICT OPERATIONS

2016-01 Making Human Resources Expertise Available to Districts through MAWD

THEREFORE, BE IT RESOLVED that MAWD research potential options of making human resources expertise available to districts and make every effort to assure districts have access to the expertise they need to effectively manage their organizations.

2015-03 Increase Manager's Per Diem

THEREFORE, BE IT RESOLVED that MAWD seek legislative authority to amend Minn. Stat. section 103D.315, Subd. 8 as follows: "Subd. 8. Compensation. The compensation of managers for meetings and for performance of other necessary duties may not exceed \$100 per day. Managers are entitled to reimbursement for traveling and other necessary expenses incurred in the performance of official duties."

2016-05 Amend MN Open Meeting Law to Allow WD Manager Meeting Participation via Electronic Means Outside the Territorial Limits of the WD or State

THEREFORE, BE IT RESOLVED that MAWD direct its staff to work with the MN Department of Administration to sponsor an amendment to section 13D.02 to clarify that the term "open and accessible to the public" can include a location or locations outside of the geographical jurisdiction of the entity, including out of state.

2013-06 Authorization to Conduct WD meetings via Conference Call or Other Electronic Means

THEREFORE, BE IT RESOLVED that MAWD supports legislation extending the operation of MN Statutes section 13D.015 to watershed districts to allow officials to participate in public meetings via telephone or other electronic means.

2013-04 Watershed District Boundary Correction: Consolidated Process

THEREFORE, BE IT RESOLVED that MAWD recommends that BWSR pursue funding and develop an abbreviated process, for consenting Districts, to correct or reestablish Watershed District boundaries using the current and more accurate technology. MAWD suggests eliminating petition and hearing requirements when a watershed district or districts request boundary changes based on errors identified by improved mapping technology, in favor of a request, notice, or comment process.

2013-08 Support Sales Tax Exemption for WDs

THEREFORE, BE IT RESOLVED that MAWD supports legislation extending the sales tax exemption to Watershed Districts in the state.

MAWD OPERATIONS

2014-03 Development, Adoption, and Communication of MAWD Legislative Agenda

THEREFORE, BE IT RESOLVED that MAWD adopt and communicate to the membership no later than the third Tuesday in January each year a well-articulated legislative agenda and lobbying activities and processes, and

BE IT FURTHER RESOLVED that the legislative agenda have a structured inclusive approach to legislative lobbying that promotes active participation by the Watershed Districts, their staffs and boards, and

BE IT FURTHER RESOLVED that the legislative agenda include a comprehensive social media strategy that informs and calls people to action in support of the legislative agenda.

PERMITTING

2015-01 Encourage DNR to Permit Storing Water on DNR Land

THEREFORE, BE IT RESOLVED that MAWD should appoint a committee to in turn propose meeting with the DNR to discuss the potential for temporarily storing water on existing wetlands controlled by the DNR in the times of major flood events.

2015-05 Improvements in Process with Permitting Authorities for Water Quality Improvement Projects

THEREFORE, BE IT RESOLVED that MAWD call on all permitting authorities:

1. To identify all regulatory requirements and applicable standards that have been developed, formalized, and codified into applicable laws, statutes, and rules that apply to proposed water quality improvement projects within 30 days of receiving a permit application.
2. To coordinate with permit applicants on proposed water quality improvement projects as part of the technical advisory committee process
3. To consider the development of internal technical advisory/evaluation committees within each authority to review proposed water quality improvement projects
4. To allow permit applicants to address all members of each authority's organization that are offering comments and concerns on a proposed water quality improvement project early on through the technical advisory committee process, instead of trying to go through one contact person at each authority.

2013-02 WD Project Eligibility under COE's Regional General Permits

THEREFORE, BE IT RESOLVED that MAWD supports amending the Corps' RGP-003-MN (permit) to include Watershed Districts within authorization category I of the regional general permit.

2013-03 Restoring Consistency and Predictability to WCA and the Clean Water Act Exempted or Authorized Activities

THEREFORE, BE IT RESOLVED that MAWD supports amending MN Statute Section 103E.2241, subd. 3 to set a date by which the Board of Water and Soil Resources, the commissioners of natural resources and agriculture, and the Pollution Control Agency must establish and approve the minimum state standards that address existing federal approvals under the Clean Water Act and Regional General Permits. Failure of the agencies to develop and approve the required state standards should result in the reinstatement of the Federal Approvals exemption as it existed prior to 2002.

2013-07 Amend Water Appropriation Law to Remove Water Quality Projects

THEREFORE, BE IT RESOLVED that MAWD supports legislation clarifying that a temporary diversion from a water of the state, by a public entity, for water quality treatment is not an "appropriation" that requires a permit or annual fee under MN Statutes 103G.271.

BUFFER LAW and WETLAND CONSERVATION ACT

2015-04 Watershed District Input on MN DNR Buffer Protection Map

THEREFORE, BE IT RESOLVED that MAWD call for the MN DNR to offer opportunities for local government units to offer input on the creation of the buffer protection map.

2015-09 Proposed Changes to the 2015 Buffer Law

THEREFORE, BE IT RESOLVED that MAWD seek legislative changes in the 2015 Buffer Law that will provide incentives for our involvement and clarify and eliminate barriers and punitive measures in the present law.

2016-02 Correcting Watershed-Based Wetland Conservation Act Implementation

THEREFORE, BE IT RESOLVED that MAWD supports amendment to Statutes Section 103G.222, subdivision 5 to restore watershed-level resource management by allowing replacement of wetlands within either the bank service area or the major watershed of the impact.

WATER IMPAIRMENTS AND AQUATIC INVASIVE SPECIES

2017-02 Temporary Lake Quarantine Authorization to Control the Spread of Aquatic Invasive Species

THEREFORE, BE IT RESOLVED that the Minnesota Association of Watershed Districts supports legislation granting to watershed districts, independently or under DNR oversight, the authority, after public hearing and technical findings, to impose a public access quarantine, for a defined period of time in conjunction with determining and instituting an AIS management response to an infestation.

2017-04 Limited Liability for Certified Commercial Salt Applicators

THEREFORE, BE IT RESOLVED the Minnesota Association of Watershed Districts supports passage and enactment of state law that provides a limited liability exemption to commercial salt applicators and property owners using salt applicators who are certified through the established salt applicator certification program who follow best management practices.

2014-02 Common Carp Management, Research, and Removal

THEREFORE, BE IT RESOLVED that MAWD supports actions to require the DNR to allow common carp removal as part of an electrofishing program; and

BE IT FURTHER RESOLVED that MAWD supports actions to require the DNR to license and assign multiple commercial fishermen to commercial fishing area to ensure that watershed districts will have the ability to remove the carp as part of their management programs.

CLEAN WATER COUNCIL AND BWSR BOARD APPOINTMENTS

2015-07 Review Commitment to Clean Water Council Process for Recommendations to Governor and Legislature on Spending Priorities of the Clean Water Fund

THEREFORE, BE IT RESOLVED that MAWD undertake a review of our commitment to the present Clean Water Council funding recommendation process and make a recommendation to the membership at our 2016 Annual Meeting on our continued participation in that process.

2015-08 Protect the Integrity of the Clean Water Council Appointments

THEREFORE, BE IT RESOLVED that MAWD pursue legislation to protect the integrity of Clean Water Council appointments by supporting legislation similar to the BWSR appointment process for local government appointments, and

BE IT FURTHER RESOLVED that any state agency influence on the appointment process for local government representatives or any other specific represented groups on the Clean Water Council not be tolerated.

2014-05 Watershed District Appointments to BWSR

THEREFORE, BE IT RESOLVED that MAWD support and actively pursue rules, or legislation if necessary, that requires the governor to appoint BWSR representatives within 30 days of any occurring vacancy.

Activity Record for MAWD 2013-2017 Resolutions

2013 Resolutions/2014 Session		
1. Support Funding for Engineer Study on Floodwater Retention Pond (\$500,000)	Lac qui Parle-Yellow Bank WD	Bill Introduced
2. WD Eligibility under COE's Regional General Permit	Rice Creek WD	Send letter
3. Restore Consistency and Prediciability to WCA & CWA Exempted Activities	Rice Creek WD	Work with BWSR
4. Consolidate Watershed Boundary Correction	Sauk River WD	Submit to statutory review process
5. Statutory Correction on WD Funds	Sauk River WD	Submit to statutory review process
6. Authorize WD manager participation in meetings via conference all/other electronic	Metro MAWD	MAWD working legislatively to allow this
7. Amend Water appropriation law to remove water quality projects	Minnehaha Creek WD	Passed in Environment Bill
8. Support Sales tax exemption for WDs	MAWD BOD	Passed in Taxes Bill

2014 Resolutions/2015 Session		
1. Repair of Flood Damage in the Prior Lake Outlet Channel	Prior Lake-Spring Lake WD	Passed in Bonding Bill
2. Common Carp Mangement, Research, and Removal	Prior Lake-Spring Lake WD	Met with DNR to discuss process & resolve.
3. Development, Adoption and Communication of MAWD Legislative Agenda	Capital Region WD	Done
4. Leasing Lands Purchased with State General Obligation Bonds	Bois de Sioux WD	Passed in bonding bill
5. Watershed District Appointments to BWSR	Bois de Sioux WD	No action

2015 Resolutions/2016 Session		
1. Encourage DNR to Permit Storing Water on DNR Land	Wild Rice WD	No action
2. Road Raises for Cities with Levees	Wild Rice WD	No action
3. Increase Manager's Per Diem	Wild Rice WD	No action
4. Watershed District Input on MN DNR Buffer Protection Map	Clearwater River WD	DNR worked with WDs and were part of process
5. Improvements in Process with Permitting Authorities for Water Quality Improvement Projects	Clearwater River WD	No action
6. Establishment of Minnesota River Basin Commission	Lower MN River WD	Legislative bills introduced & heard. Did not pass.
7. Review Commitment to Clean Water Council Recommendations	Board	Board adopted LGWR 1W1P funding recs
8. Protect the Integretary of Clean Water Council Appointments	Board	No action
9. Proposed Changes to the 2015 Buffer Law	Board	Legislation to clarify law was proposed & adopted

2016 Resolutions/2017 Session		
1. Making Human Resources Expertise Available to Districts through MAWD	Yellow Medicine River WD	No action
2. Correcting Watershed-Based Wetland Conservation Act Implementation	Rice Creek WD	Passed in Environment Finance Bill
3. Tax Treatment of Conservation Easements	Minnehaha Creek WD	No action
4. Watershed District Funds: Statutory Correction to Impose a Project Tax	Middle Fork Crow River WD	Passed in Taxes Committee, didn't make final 2018 omnibus bill
5. Amend MN Open Meeting Law to allow electronic WD manager meeting participation	Middle Fork Crow River WD	MAWD working administratively to fix this issue
6. Modify Levy authority for non-metro WDs/Increase levy authority	MAWD BOD	Language drafted
7. Appropriation for Buffer Enforcement for WD/Counties	MAWD BOD	Passed
8. Bonding Bill, Flood Hazard Mitigation	MAWD BOD	Passed

2017 Resolutions/2018 Session		
1. State Water Program Coordination & Integrations with Local Water Implementations	Capitol Region WD	Language passed by the legislature in omnibus bill, vetoed by Governor
2. Temporary Quarantine Authority to Control Spread of AIS	Confort Lake Forest Lake WD	No action
3. Support CRP in Federal Farm Bill	Comfort Lake Forest Lake WD	Letters sent to Senators Smith, Klobuchar
4. Support Legislation for limited liability protection for certified commercial salt applicators	Nine Mile Creek	Language in omnibus bill, but didn't make it to final version sent to Governor
5. Increase Middle Fork Crow River WD's General Fund Levy Limit	Middle Fork Crow River WD	No action
6. Stable Funding for Flood Damage Reduction	Two River WD	No action
7. Creation of Stormwater Reuse Task Force	MAWD BOD	WD involvement included as recommendation in final report

PLEASE NOTE: THIS IS NOT A COMPLETE LIST OF RECENT LEGISLATIVE EFFORTS. PLEASE REFER TO LEGISLATIVE UPDATES FOR THAT INFORMATION. THIS IS ONLY A VERY BRIEF TRACKING OF THE MOST RECENTLY ADOPTED RESOLUTIONS. PLEASE DON'T HESITATE TO CALL US WITH QUESTIONS. MAWD OFFICE - (612) 790-0700.



RESOLUTIONS

AS APPROVED BY MEMBERS

2017

Table of Contents

2017 Resolutions	2
2017-01: State Watershed Program Coordination with Local Watershed Implementation	2
2017-02: Temporary Lake Quarantine Auth. to Control the Spread of Aquatic Invasive Species	4
2017-03: Conservation Reserve Program (CRP) Support in the 2018 Federal Farm Bill	5
2017-04: Limited Liability for Certified Commercial Salt Applicators	6
2017-05: General Fund Levy Cap Increase for the Middle Fork Crow River Watershed District.....	7
2017-06: Stable Funding for the Flood Damage Reduction Program	8
2017-07: Creation of a Stormwater Reuse Task Force	9

APPROVED MAWD RESOLUTION 2017-01

State Watershed Program Coordination with Local Watershed Implementation

WHEREAS Minnesota has a long history of water management by local government units; and

WHEREAS the Minnesota Legislature authorized the creation of watershed districts in 1955, through the Watershed Act, with the idea that water management policies should be developed on a watershed basis, because water does not follow political boundaries; and

WHEREAS the statutory purposes of watershed districts are to conserve the natural resources of the state by land use planning, flood control, and other conservation projects by using sound scientific principles for the protection of public health and welfare and the provident use of natural resources; and

WHEREAS the specific duties of Watershed Districts vary across the state -- some focus mainly on flood damage reduction, while others have a broad range of programs and services to protect and improve water quality; and

WHEREAS One Watershed, One Plan was developed by the Local Government Water Roundtable (Association of Minnesota Counties, and the Minnesota Associations of Watershed Districts and Soil and Water Conservation Districts) which recommended that local governments charged with water management responsibilities should organize and develop focused implementation plans on a watershed scale; and

WHEREAS the vision of One Watershed, One Plan is to align local water planning on major watershed boundaries with local strategies towards prioritized, targeted and measurable implementation plans; and

WHEREAS BWSR's vision for One Watershed, One Plan is that plans developed through this approach will address the need for focused watershed-based implementation plans that will be prioritized, targeted, and measurable; and

WHEREAS the MPCA is charged with the State adopted "watershed approach" to address the State's 81 "major" watersheds to develop Watershed Restoration and Protection Strategies (WRAPS); and

WHEREAS current implementation of the both the One Watershed, One Plan and the WRAPS program needs to be better integrated into local watershed implementation efforts; and Whereas, Clean Water Funds should not be expended on state efforts that duplicate or do not advance local watershed implementation; and

WHEREAS the Local Government Roundtable made recommendations in the 2016 Funding Work-group Policy Paper;

THEREFORE, BE IT RESOLVED that the Minnesota Association of Watershed Districts pursue legislation requiring state Clean Water Land and Legacy Funds for One Watershed, One Plan and the WRAPS programs to provide a direct linkage and alignment with each other as well as local watershed plan implementation; and

BE IT FURTHER RESOLVED that the Minnesota Association of Watershed Districts pursue legislation to codify the Watershed Implementation Partnership funding recommendations from the Local Government Roundtable, 2016 Funding Workgroup Policy Paper; and

BE IT FURTHER RESOLVED that Clean Water Land and Legacy funds for One Watershed, One Plan and the WRAPS programs do not duplicate local efforts and are focused towards local watershed implementation.

APPROVED MAWD RESOLUTION 2017-02

Temporary Lake Quarantine Authorization to Control the Spread of Aquatic Invasive Species

WHEREAS Aquatic Invasive Species (AIS), including invasive plants, fish and invertebrates, continue to spread throughout Minnesota lakes, with the Minnesota Department of Natural Resources (DNR) reporting many new infestations in 2017;

WHEREAS the movement of a newly identified AIS infestation into or out of a lake may be assisted by boat transfer that occurs before measures to limit that movement can be decided or implemented;

WHEREAS a temporary quarantine can prevent the movement of newly identified AIS species into or out of a lake while measures to respond to the infestation can be decided and implemented;

WHEREAS while in several instances temporary public access quarantines have been applied in conjunction with AIS treatment measures, the authority for quarantines is not explicit in state statute;

WHEREAS all parties affected by a potential quarantine would benefit from a more formal and structured process of deciding on and instituting the quarantine;

THEREFORE, BE IT RESOLVED that the Minnesota Association of Watershed Districts supports legislation granting to watershed districts, independently or under DNR oversight, the authority, after public hearing and technical findings, to impose a public access quarantine, for a defined period of time in conjunction with determining and instituting an AIS management response to an infestation.

APPROVED MAWD RESOLUTION 2017-03

Conservation Reserve Program (CRP) Support in the 2018 Federal Farm Bill

WHEREAS Congress presently is preparing the 2018 federal Farm Bill, which will contain a conservation title with appropriations for federal conservation programs for agricultural lands including the Conservation Reserve Program (CRP);

WHEREAS the State of Minnesota has been a leader in developing and implementing approaches that maintain agricultural productivity while integrating conservation practices for water quality and habitat benefit, and has shown its commitment through its constitutional mandate for conservation spending and other state and local appropriations for water quality and habitat purposes;

WHEREAS the CRP is a principal federal/state conservation program for agricultural lands but enrollments are presently at the federal acreage cap;

THEREFORE, BE IT RESOLVED that the Minnesota Association of Watershed Districts supports a strong CRP element in the Farm Bill conservation title, including but not limited to CRP reauthorization with an increased acreage cap, maintenance of continuous signup for high value environmental practices such as buffers and wetland restoration, maintenance or expansion of the grasslands program, and removal of restrictions on incorporation of drainage water quality management practices, while maintaining other successful federal conservation programs for agricultural lands such as EQIP and CSP;

BE IT FURTHER RESOLVED that MAWD will coordinate with the Minnesota Board of Water and Soil Resources, Minnesota Department of Agriculture and others to advocate to and work with the State's Congressional delegation and other federal representatives to achieve this policy goal.

APPROVED MAWD RESOLUTION 2017-04

Limited Liability for Certified Commercial Salt Applicators

WHEREAS chloride contamination of water resources has been found in urban areas around the state;

WHEREAS the Minnesota Pollution Control Agency has listed 39 waterbodies in the Twin Cities metro area as impaired for chloride and has completed Total Maximum Daily Load studies on Nine Mile Creek and Shingle Creek and is currently developing TMDLs for the remaining impaired waterbodies through a metro-wide TMDL study; and

WHEREAS the TMDL studies have indicated that the largest chloride source to our lakes and streams is through the application of chloride compounds on roads, parking lots, sidewalks and other hard surfaces for winter maintenance practices; and

WHEREAS liability for property damage or personal injury as a result of snow or ice is one of the main reasons over-salting occurs and many private commercial contractors and property owners are reluctant to implement salt-reduction practices for fear of increased liability; and

WHEREAS the MPCA currently oversees a voluntary Smart Salting Certification Program that provides training to public and commercial salt applicators, private property owners and managers and others on how to maintain safe surfaces using salt efficiently;

THEREFORE, BE IT RESOLVED the Minnesota Association of Watershed Districts supports passage and enactment of state law that provides a limited liability exemption to commercial salt applicators and property owners using salt applicators who are certified through the established salt applicator certification program who follow best management practices.

APPROVED MAWD RESOLUTION 2017-05
General Fund Levy Cap Increase for the
Middle Fork Crow River Watershed District

WHEREAS Minnesota statutes section 103D.905, subd. 3, provides that a watershed district's general fund: may not exceed 0.048 percent of estimated market value, or \$250,000, whichever is less; and

WHEREAS Middle Fork Crow River Watershed District is completing its participation in the North Fork Crow River Watershed One Watershed One Plan planning process. The outcome of this process will be a One Watershed Plan that will require local participants to commit to funding projects identified within the plan within their jurisdictional boundaries. Such funding is practically impossible for the Middle Fork Crow River Watershed District under the current, general fund levy limit; and

WHEREAS Removing the \$250,000 levy cap and allowing the levy to be limited by the 0.048 percent of estimated market value cap, will give Middle Fork Crow River Watershed District the flexibility to meet its basic operating budget while also giving it means to allocate general fund dollars to complete projects identified in its current watershed management plan and those identified in the draft One Watershed Plan within the Middle Fork Crow River Watershed planning area.

<p>THEREFORE, BE IT RESOLVED the Minnesota Association of Watershed Districts support the efforts of Middle Fork Crow River Watershed District to draft and advance special legislation affecting a change in its general fund levy cap.</p>

APPROVED MAWD RESOLUTION 2017-06

Stable Funding for the Flood Damage Reduction Program

WHEREAS severe flooding is known to occur repeatedly within the Red River Valley and within the State of Minnesota, and

WHEREAS each flood event costs the public millions of dollars to repair and replace infrastructure that is damaged by flooding, and

WHEREAS FEMA and MN HSEM provide resources to repair infrastructure following a flood, however very limited resources are available for prevention of flooding, and

WHEREAS the DNR Flood Damage Reduction grant program has been a successful tool for local governments to utilize to design and build projects to reduce and prevent flooding, and

WHEREAS the DNR FDR program is severely underfunded.

THEREFORE, BE IT RESOLVED that the Minnesota Association of Watershed Districts support requesting the MN Legislature provide stable funding for the DNR FDR program. A suggested sustainable level of funding is \$25 million per year for the next 10 years.

APPROVED MAWD RESOLUTION 2017-07

Creation of a Stormwater Reuse Task Force

WHEREAS Stormwater Reuse Best Management Practices (BMP's) have been documented to provide multiple watershed management benefits including conservation of groundwater supplies, protection of water quality, and reduction of flood risks; and

WHEREAS the Minnesota Association of Watershed Districts (MAWD) provided an informational document to the Interagency Workgroup on Water Reuse in June 2017 documenting the considerable watershed management benefits of Stormwater Reuse BMP's; and

WHEREAS the Interagency Workgroup on Water Reuse has drafted a report titled "Advancing Safe and Sustainable Water Reuse in Minnesota- 2017 Report of the Interagency Workgroup on Water Reuse" (Water Reuse Report) with the primary charge of the Report being "to prepare a comprehensive study of and recommendations for regulatory and non-regulatory approaches to water reuse for use in the development of state policy for water reuse in Minnesota"; and

WHEREAS MAWD /Watershed Districts were not represented on the Interagency Workgroup on Water Reuse despite frequent requests to be included throughout the process of developing the Water Reuse Report; and

WHEREAS MAWD provided written comments on the Water Reuse Report which stated that it will be essential for MAWD / Watershed Districts to be involved on the Interagency Workgroup on Water Reuse as it moves forward with implementing the recommendations outlined in the Water Reuse Report; and

WHEREAS Watershed Districts and their local city and county partners have decades of experience in assessing the "on the ground" benefits, challenges, and risks associated with stormwater reuse BMP's;

THEREFORE, BE IT RESOLVED that the Minnesota Association of Watershed Districts pursue legislation requiring creation of a Stormwater Reuse Task Force with membership from Watershed Districts, Cities, Counties, State Agencies and other Stormwater Reuse implementers; and

BE IT FURTHER RESOLVED that the Stormwater Reuse Task Force should be charged with developing recommendations that further clarify and/or replace the information in the Water Reuse Report that relates to Stormwater Reuse BMP's.

Project and Program Status Reports

Memorandum

To: Ramsey-Washington Metro Watershed District (RWMWD) Board of Managers and staff
From: Matt Kumka
Subject: District Office Porous Pavement Retrofit
Date: August 28, 2018
Project: 23/62 0282.26 180 500 18

Project team

RWMWD staff: Dave Vlasin, Eric Korte, and Tina Carstens
Barr staff: Matt Kumka, Erin Anderson Wenz, Brad Lindaman, Kurt Leuthold, Greg Nelson

Barr team roles

Project management: Matt Kumka
Engineering review: Kurt Leuthold, Erin Anderson Wenz, and Greg Nelson

RWMWD staff

Project management: Tina Carstens
Design Review: Dave Vlasin and Eric Korte

Scope of work

The purpose of this project is to assess the current condition of the porous bituminous parking lot at the District office and offer three potential maintenance approaches for improving its performance. The feasibility of each of the approaches will be assessed, including an estimated cost of each as well as their likelihood of success and maintenance considerations going forward.

It is understood that the porous bituminous portion of the parking lot nearest the office building has seen steadily decreasing infiltration rates for several years, to the point that some parts of the lot do not appear to infiltrate at all. This project will identify a series of options for this portion of the parking lot, and present the options, including cost estimates, to District staff. The options will be tailored to include a range of low cost through higher cost options. The selected retrofit of the parking lot, if appropriate, would be constructed in 2019 as part of the on-going Capital Improvement Projects maintenance and repair.

Task 1: inventory and assessment

The first step will be to collect performance and maintenance history of the porous asphalt lot. A field assessment and meeting on site with District staff will be necessary to determine where the parking lot infiltration rates have decreased or failed entirely. This information will inform the proposed retrofit options by potentially identifying on-going trouble spots to avoid porous pavements or appropriate areas for trial remediation or pavement rehabilitation testing.

Task 2: findings and recommendations

- Create a summary memo including:
 - Description of up to four pavement retrofit options and lifespan expectations
 - Estimated costs for each option
 - Anticipated maintenance requirements
- Present findings to the RWMWD

Task 3: implementation of retrofit

- Create a construction plans and specifications based on the selected retrofit option
- Assemble bid package for porous pavement retrofit
- Oversee construction to ensure proper interpretation of plans and specifications

Budget

Barr will complete this work for an estimated amount not to exceed \$20,000.

Schedule

Task 1: inventory and assessment

- Project to begin fall 2018

Task 2: findings and recommendations

- Presentation to staff in early October 2018
- Selection of final retrofit option at this point

Task 3: oversight of implementation of repairs

- Coordinate creation of plans and specs for repair work with the RWMWD 2019 CIP

Project tracking

Project milestones

Milestone	Estimated completion date	Actual completion date
Inventory and assessment	September 31, 2018	
Findings and recommendations	October 15, 2018	
Plans and Specifications for Construction	February 15, 2019	

Project budget tracking (engineering)

Project objectives	Estimated budget*	Spent to date
Task 1: inventory and assessment	\$1,500	
Task 2: findings and recommendations	\$6,000	
Task 3: implementation of retrofit	\$13,500	
Total	\$20,000	

**Barr budget only; these totals do not include RWMWD project budgets*

Monthly updates

Month	Budget spent (\$/%)
•	

Memorandum

To: Board of Managers and Staff
From: Tina Carstens and Brad Lindaman
Subject: Project and Program Status Report – September 2018
Date: August 30, 2018

Project feasibility studies

Owasso County Park stormwater master plan and detailed design: Phase I and Phase II (Barr project manager, Matt Metzger; RWMWD project manager, Paige Ahlborg)

The purpose of this study is to assist the City of Shoreview Public Works and Ramsey County Parks with creating a holistic “living streets” retrofit design for North Owasso Road and best management practice (BMP) design for new parking lots in Owasso County Park.

The collaboration among Ramsey County, the City of Shoreview, and RWMWD that began in 2017 resulted in a 2017 stormwater master plan for Owasso County Park and 800 linear feet (LF) of Owasso Boulevard. The project was broken into two phases, but the City and County will collaborate to treat all of the public property as a single project area with shared stormwater management.

Phase I, led by Ramsey County, began in 2017 with construction on park improvements consisting of pervious bituminous pavement, expanded parking, and enhanced trails and park facilities. RWMWD provided stormwater system detailed design for Phase I consistent with the master plan. Construction continues during 2018 on the park's buildings and landscape.

Phase II, the 60% design work, began in July with meetings among RWMWD, Barr, the County, City, and the City's engineering consultant for the reconstruction of Owasso Boulevard from Soo Street to Victoria Avenue. The City is leading the Phase II implementation of the project and is negotiating easement transfers between the City and County. The Phase II work includes 800 LF of permeable pavers on Owasso Boulevard at the park, a district-scale rainwater garden to manage stormwater from the park and roadway, and a network of pipes and pretreatment features to convey stormwater to the management features and large-event overflows to the lakes. The City opted to have RWMWD provide (via Barr Engineering) a 60% design for the Phase II stormwater management system at the park, consistent with the 2017 master plan. The 60% design phase is ongoing with anticipated development of the design in November 2018.

Updates will continue through the duration of Phase II design as well as through the implementation phase in 2019. Barr will be engaged in the construction portion of the project to ensure the design implementation meets RWMWD standards and expectations.

System-wide evaluation of flood control options/Beltline resiliency study (Barr project manager, Erin Anderson Wenz; RWMWD project manager, Tina Carstens)

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. The evaluation will use the RWMWD stormwater model to simulate system-level modifications to evaluate how adjustments to outlet structures during a flood event may be able to optimize the existing system performance to reduce flooding impacts to homes adjacent to RWMWD-managed water bodies.

Staff continued compiling information for the second phase of the study, which includes Willow Lake and Kohlman Creek subwatersheds. We estimated low structure elevations and reviewed potential system modifications. We identified potential system modifications within the Willow Lake and Kohlman Creek subwatersheds to remove existing structures from the floodplain. In the next few months staff will begin evaluations of outlet structures on the Phalen Chain of Lakes to identify whether operation of those structures could further mitigate flood risk on those lakes. The study is phased so that flood-prone areas in the upstream portion of the watershed are addressed first, working downstream.

If the study proves successful, recommendations for actual field modifications will be offered for future capital improvement programming.

At risk subwatershed feasibility studies (Barr project manager, Josh Phillips; RWMWD project manager, Paige Ahlborg)

The purpose of this project is to evaluate BMP opportunities throughout the Beaver Lake, Battle Creek Lake, and Lake Owasso subwatersheds. These lakes are all considered to be “at risk” for nutrient impairment.

The reports for the Beaver Lake, Battle Creek Lake, and Lake Owasso Subwatersheds are nearly complete. For the Beaver Lake study, Barr staff are putting some final work into a Living Streets concept design for the residential area on the west side of Beaver Lake. For the Battle Creek Lake study, Barr staff are assessing the water-quality benefit and public educational opportunity associated with a potential BMP project in the Interstate 94/494/694 interchange. As a final step in the Lake Owasso study, Barr staff are evaluating the feasibility of a wetland drawdown project in the “Victoria wetlands” area in Central Park (Roseville) for the purpose of carp management. A presentation of these studies is planned for the October Board meeting.

Create an emergency response plan for Twin Lake, Grass Lake, and Snail Lake (Barr project manager, Erin Anderson Wenz; RWMWD project manager, Tina Carstens)

The purpose of this project is to evaluate the level of flood risk that Twin Lake’s elevated water elevation poses to habitable structures and to verify the RWMWD’s assumptions about the way that stormwater reaches the lake to better communicate risk (or non-risk) to area residents.

Staff surveyed key drainage locations and areas of resident concern (including culverts and overflow elevations and adjacent depressions/ponds and wetlands) around Twin Lake. Staff updated the Twin Lake XPSWMM hydrologic/hydraulic model with the surveyed information and confirmed that there are currently no flood-prone permanent structures, even using this landlocked lake's current high elevation as a starting point.

Ramsey County has installed a gauge in Twin Lake and has been taking water-surface-elevation measurements. The measured water-surface elevations line up with what we have observed and what residents have reported. The water surface of Twin Lake is below the outlet elevation, but high enough to create non-structural property damage. The residents' concerns include seeing flow coming into Twin Lake and dying trees around the perimeter of the lake.

On Thursday, August 9, District staff met with Little Canada staff to share the survey and modeling information. The City plans to host a meeting in the near future to explain the findings to residents. District staff will attend the meeting to help answer questions.

At this point, staff believe an emergency response plan for this lake is unnecessary.

FEMA flood mapping updates (Barr project manager, Brandon Barnes; RWMWD project manager, Tina Carstens)

The purpose of this project is to use grant funding provided by the Minnesota Department of Natural Resources (MnDNR) to use the District's updated stormwater model to develop information required to update the FEMA floodplain maps.

The first step towards updating the FEMA floodplain maps is to compile survey information to demonstrate that the stormwater model accurately characterizes the existing stormwater system. This will be done by comparing model input parameters to survey information provided by the MnDNR. The MnDNR started collecting survey data within the District in August. We anticipate that the MnDNR survey will continue for two more months. Later this fall, staff will review the survey data and begin preparing documentation necessary to update the FEMA maps.

The process of developing documentation to update the maps will continue over the next two years. The grant with the MnDNR runs through April of 2020.

Snail Lake/Grass Lake optimization study and berm raise project (Barr project manager, Brad Lindaman; RWMWD project manager, Tina Carstens)

The purpose of this study is to evaluate the potential for optimization of the existing Snail Lake/Grass Lake system (from Snail Lake to Grass Lake to Highway 694), with the goal of lowering flood levels in the

system's water bodies to reduce flood risk to habitable structures and lessen impacts to surrounding properties.

During August, the contractor made significant progress on the Grass Lake berm project. The full height of the berm has been achieved; however, no restoration work has occurred recently. Staff will continue to encourage the contractor to complete all project items very soon.

An oral update on this work will be provided to the board at their meeting September 5.

Snail, Grass, and West Vadnais Lakes outlet permitting with the MnDNR (Barr project manager, Erin Anderson Wenz; RWMWD project manager, Tina Carstens)

The purpose of this project is to coordinate permitting efforts for the proposed Snail, Grass, and West Vadnais Lakes outlets with the MnDNR.

Staff received some feedback from the MnDNR (Jen Sorensen) about the next steps that may be required to lower the West Vadnais outlet and maintain East Vadnais Lake at a lower level. Specifically, Jen outlined the process for determining where and when an Environmental Assessment Worksheet (EAW) might be required for the proposed changes to water surface elevations in Grass Lake, East Vadnais Lake, and West Vadnais Lake.

According to Minnesota's Environmental Quality Board (EQB) website, an EAW is "a brief document designed to lay out the basic facts of a project necessary to determine if an Environmental Impact Statement (EIS) is required for the proposed project. In addition to the legal purpose of the EAW in determining the need for an EIS, the EAW also provides permit information, informs the public about the project, and helps identify ways to protect the environment. The EAW is not meant to approve or deny a project, but instead act as a source of information to guide other approvals and permitting decisions. The EAW is completed by the Responsible Governmental Unit (RGU) designated according to Minnesota Rules 4410".

Regarding the EAW Process and how it affects the Public Waters Permitting Process with the MnDNR:

- The EQB rule for when an EAW is required for wetlands and public waters is MN Rule 4410.4300 Subpart 27. The decision on whether an EAW is required is made by the RGU (see Guide to Environmental Review Rules for additional guidance).
- At least initially, the RGU would be a local government agency, most likely one of the cities or RWMWD. DNR doesn't review and make decisions on environmental review documents unless a formal request by an RGU to designate the DNR as the RGU has been approved by the EQB. A local agency always starts out as the RGU.
- The EQB provides technical assistance on how to interpret and apply the rules to the RGU and others (like the project proposer). If it's not clear how to determine whether an EAW is mandatory, Jen recommends that we contact the EQB to help clarify this.

- If an EAW is required, it has to be completed before a permit can be issued by the MnDNR, but the permit application process can occur during the EAW process.

Some general thoughts on the feasibility of the project from the MnDNR:

- If the scope of the project is such that the proposed hydrographs are not permanently lowered but mimic the ups and downs of the existing hydrographs at a lowered level, we are looking at the project design from the right perspective. There should still be periods of bounce in the proposed hydrographs that are similar to the existing hydrographs (so the lakes still function the same, just at the lowered level).
- We may need to consider how changes to the littoral zone would impact fish habitat. However, there was discussion that West Vadnais already has a limited fishery because the lake is shallow. MnDNR Fisheries does not have concerns with managing fish in this lake (according to MnDNR's Jim Levitt), so this may be less of a concern here (and in Grass Lake) and more of a concern for East Vadnais Lake.

Given this feedback, staff will be reaching out to the EQB in the near future and will have an update for the Board at the September meeting about what these next steps will entail for permitting lowering of Grass Lake, West Vadnais Lake, and East Vadnais Lake.

West Vadnais Lake to East Vadnais Lake gravity flow feasibility evaluation (Barr project manager, Erin Anderson Wenz; RWMWD project manager, Tina Carstens)

The purpose of this study is to understand the feasibility of lowering East Vadnais Lake levels and encouraging subsurface flow by gravity from West Vadnais Lake to East Vadnais Lake to reduce flooding in the Grass Lake area of the RWMWD. The scope of the study will give a better understanding of hydrologic dynamics between the connected water bodies and whether lowering East Vadnais Lake is a sufficient measure to reduce flooding while meeting the requirements of all involved stakeholders.

The water quality and geotechnical investigations for West Vadnais Lake and the berm separating it from East Vadnais Lake are nearing the field work phase of the investigation. St. Paul Regional Water Services has responded to Barr's proposed water-quality sampling plan, and comments will be addressed and sent back. An access agreement (MOU) has been signed by RWMWD and Ramsey County Parks for access to the berm for the geotechnical investigations. The locations have been staked for Ramsey County Parks approval, and the field work will commence once approved. The field investigation work will occur at the beginning of September.

Modeling of 500-year Atlas 14 district-wide (climate change scenario): flood map generation for future outreach efforts (Barr project manager, Erin Anderson Wenz; RWMWD project manager, Tina Carstens)

The purpose of this project is to use measured water-surface elevations to verify and fine-tune water surface elevations calculated by the RWMWD stormwater model. Following validation, the model will be used to simulate larger rainfall events, including the 500-year rainfall depth. The confidence limit (or

uncertainty) associated with the 500-year flood elevation will be used to develop inundation maps that will allow for evaluation of how future climate change may affect flood inundation areas within the RWMWD and will be used for discussion with stakeholders when evaluating future flood-risk reduction projects within the RWMWD.

Barr completed initial simulations of design rainfall events. Simulation results for the 100-year event were used to identify potentially flood-prone structures within the District. In the next month staff will update the model so that it can be used to simulate large rainfall events such as the 500-year event or estimates for future extreme rainfall events.

Monitoring water quality/project monitoring

Auto Lake monitoring systems (Barr project manager, Chris Bonick; RWMWD project manager, Eric Korte)

The purpose of this project is to install an automated system to monitor lake levels throughout the district and allow real-time transfer of data to the District's website for public consumption.

All the land-owning entities now have the PowerPoint presentations that describe each station location, show what the equipment will look like, and give some information on the capabilities of the stations. Staff are waiting for feedback/approval from those entities and will be following-up with them at the end of this week. We are hopeful we can order the equipment in the next week or two, dependent on landowner approval.

Maplewood Mall monitoring (Barr project manager, Matthew Kumka; RWMWD project manager, Paige Ahlborg)

The purpose of this project is to assess the functionality of the Maplewood Mall Stormwater Retrofit Project as it enters its fifth year of total completion. Features that will be inspected include all stormwater infrastructure, plantings, and tree growth. The findings, including site improvement and maintenance recommendations, will be summarized and presented to the Board.

Staff created a field data collection application using ArcGIS Collector and populated it with all the pertinent information for field inspections. Field inspections began, including opening every catch basin and Agri-Drain water-control structure. Inspection items include the presence of sediment, structure health (including any visible concrete cracking or settlement), presence of the water-level-controlling weirs, and total water present in the system. All of the rain gardens, planted end islands, and entrances are also being inspected. The trees planted as part of the project are being measured for DBH (diameter at breast height) as well as being rated for overall health on a growing-condition scale from A (vigorous growth) through F (dead to be replaced/dead to not be replaced).

Findings will be summarized in a memo and presentation to the Board in the fall of 2018. Based on the Board's recommendations, re-plantings and overall project maintenance may take place as part of the capital improvement maintenance project in 2019.

Lake studies/WRPPs/TMDL reports

2018 grant applications (Barr project manager, Erin Anderson Wenz; RWMWD project manager, Tina Carstens)

The purpose of this project is to track grant opportunities and submit grant applications to help fund RWMWD projects.

Staff worked on an upcoming grant application to be submitted to the Minnesota Stormwater Research Council. The study involves a (potential) application of spent lime from St. Paul Regional Water Service to a pond in RWMWD that is known to have a significant internal load of phosphorus. The project would involve both lab and field testing (perhaps analogous to the approach being taken at the Shoreview Pond with the iron-aggregate application, but without SAFL involvement). This project would be done in partnership with St. Paul Regional Water Services and the Vadnais Lake Watershed Management Organization (who are also considering a pond application). Applications are due September 7.

Evaluate water-quality benefit of removing accumulated sediment from south end of Wakefield Lake to improve Lake Phalen water quality (Barr project manager, Erin Anderson Wenz; RWMWD project manager, Tina Carstens)

The purpose of this project is to determine the effect of removing accumulated sediment in the south end of Wakefield Lake and assess the related water-quality benefit to the lake and downstream water bodies.

Recently, Barr collected sediment cores from Wakefield Lake in 12 locations to estimate the total volume of accumulated sediment from historic conditions. Four of these cores were sent to a laboratory for analysis of pollutants to determine the disposal criteria of any dredged sediment. Using the sediment core data, a water-quality model was developed to estimate the benefit of dredging 3,600 cubic yards of sediment. The model is being finalized and the results will be communicated to the District along with a cost-benefit analysis for any proposed dredging activities. A memo summarizing the findings and recommendations is currently being prepared.

Capital improvements

Wakefield Park/Frost Avenue stormwater project (Barr project managers, Erin Anderson Wenz and Fred Rozumalski; RWMWD project manager, Paige Ahlborg)

The purpose of this project is to work with the City of Maplewood and its consultants to develop a site plan that involves stormwater management features with associated educational elements for the northern portion of Wakefield Park.

The concept plan for the BMPs in Wakefield Park was completed in early July. Since that time, City of Maplewood staff have been reviewing the plans and will present the project to their City Council once the plans meet their needs. Therefore, little work has been done on the project this month.

Staff are currently reviewing comments from City staff and will be slightly modifying the layout to better accommodate anticipated park uses.

It is anticipated that the project will go out for bid late this year.

Frost/Kennard enhanced water-quality treatment BMP (Barr project manager, Erin Anderson Wenz; RWMWD project manager, Tina Carstens/Paige Ahlborg)

The purpose of this project is to prepare plans and specifications, conduct project bidding, and observe construction for the water-quality BMP enhancement retrofit of the existing infiltration basin located on the parcel owned by the City of Maplewood. The parcel is located in the southwest quadrant of the intersection of Frost Avenue and Kennard Street.

Construction is complete. The filter is online and the monitoring equipment is installed.

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 RWMWD.

The New Horizon Day Care in Woodbury and House of Prayer Lutheran Church in Oakdale rain gardens project went out to bid. One bid was received from Minnesota Native Landscapes for \$72,994; the construction estimate was \$69,123. It is worth noting that Minnesota Native Landscapes has successfully constructed several rain gardens for church, commercial, and school retrofit projects over the past several years.

Roseville High School campus stormwater retrofit feasibility study (Barr project manager, Leslie DellAngelo; RWMWD project manager, Paige Ahlborg)

The purpose of this project is to evaluate the feasibility of a regional stormwater infiltration or filtration project and other local stormwater infiltration projects at Roseville High School. The school is designing an addition to the southeast end of the building, so the project will also include coordination with Roseville High School and its design engineers to place stormwater BMP retrofits.

Staff have reviewed the information provided by the high school to better understand the existing stormwater system and site drainage patterns and infrastructure. A regional underground filtration BMP is being evaluated by analyzing the hydraulic capacity of the existing storm sewer in the area using the District's XPSWMM model.

BMP incentive fund: general BMP design assistance and review (Barr project manager, Matt Kumka; RWMWD project manager, Paige Ahlborg)

The purpose of this project is to respond to requests for assistance to find cost-share opportunities from RWMWD partners and to seek opportunities for cost-share projects throughout the RWMWD.

Staff continues to update the mobile geographic information system (GIS) mapping program that focuses on underserved communities within the watershed. Additional site visits are currently being scheduled with property owners in St. Paul as a result of recent meetings with local business community leaders.

Two sites have been identified for further consideration: Culver's Restaurant and Motel 6, both in North St. Paul. High-level BMP feasibility is currently being performed.

Willow Pond CMAC project (Barr project manager, Erin Anderson Wenz; RWMWD project manager, Tina Carstens)

The purpose of this study is to evaluate the feasibility of using CMAC technology in a project that involves diverting flows from Willow Pond to a filter that will remove dissolved and particulate phosphorus to benefit Bennett Lake.

Bids on the construction of the project were opened, and the lowest responsive and responsible bidder (Peterson Companies) was awarded the project. The notice to proceed will be issued in early September, and the contractor plans on beginning construction the week of September 10.

The MnDNR work in public waters permit application was approved. Finally, a joint permit application will be completed and submitted to the DNR, the U.S. Army Corps of Engineers, and the RWMWD.

CIP project repair and maintenance

Beltline and Battle Creek tunnel repair construction services (Barr project manager, Nathan Campeau; RWMWD project manager, Dave Vlasin)

The purpose of this project is to perform ongoing maintenance and repairs of the Beltline tunnel system to significantly increase the service life of the tunnel.

Barr worked on the construction report. PCi is preparing the final closeout documentation, and we anticipate closing out the project and completing the construction report in the next period. An oral update will be provided at the September 5 meeting.

CIP maintenance/repairs 2018 project (Barr project manager, Greg Nelson; RWMWD project manager, Dave Vlasin)

The purpose of this project is to maintain the 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.

Work was recently completed on the culverts under Vadnais Boulevard. Work continues at Battle Creek Lower Ravine Park. Work at the West Vadnais Lake outlet will be performed once the pipe fittings are shipped by the manufacturer to the site.

Natural Resources Update – Bill Bartodziej and Simba Blood

Keller Creek Ecological Restoration – Emergent Planting

As part of our last Keller Creek planting effort, the project grand finale, we had the opportunity to work with the Citizen Advisory Committee and the Leap Team. Our focus was to install emergent plants – bulrush and bur-reed – along the creek edge, just up from Lake Phalen. We had volunteers in waders, navigating some tricky areas along the east side of the creek. The planting volunteers seemed to have a wonderful time, and we got the job done.



CAC and LEAP Team planting volunteers

This is an area with a high population of muskrat, so our objective was to plant the bulrush in and around some brush bundles that were previously installed. Over the years, we have learned that muskrat don't like to feed on plants that are growing through brush. This woody material gives the emergent plants a chance to grow and establish, significantly reducing the foraging by muskrat. (This isn't published in the scientific literature, but probably would be of interest to aquatic restoration practitioners.)



We have seen repeatedly that woody material – brush and branches – will reduce muskrat feeding on young emergent plants. This is a very healthy three-year-old stand of bur-reed and arrowhead along Keller Creek (Phase II).

The volunteers working hard along the creek shore. Notice the lack of emergent plants.





The NR Team finishing up with the emergent planting.

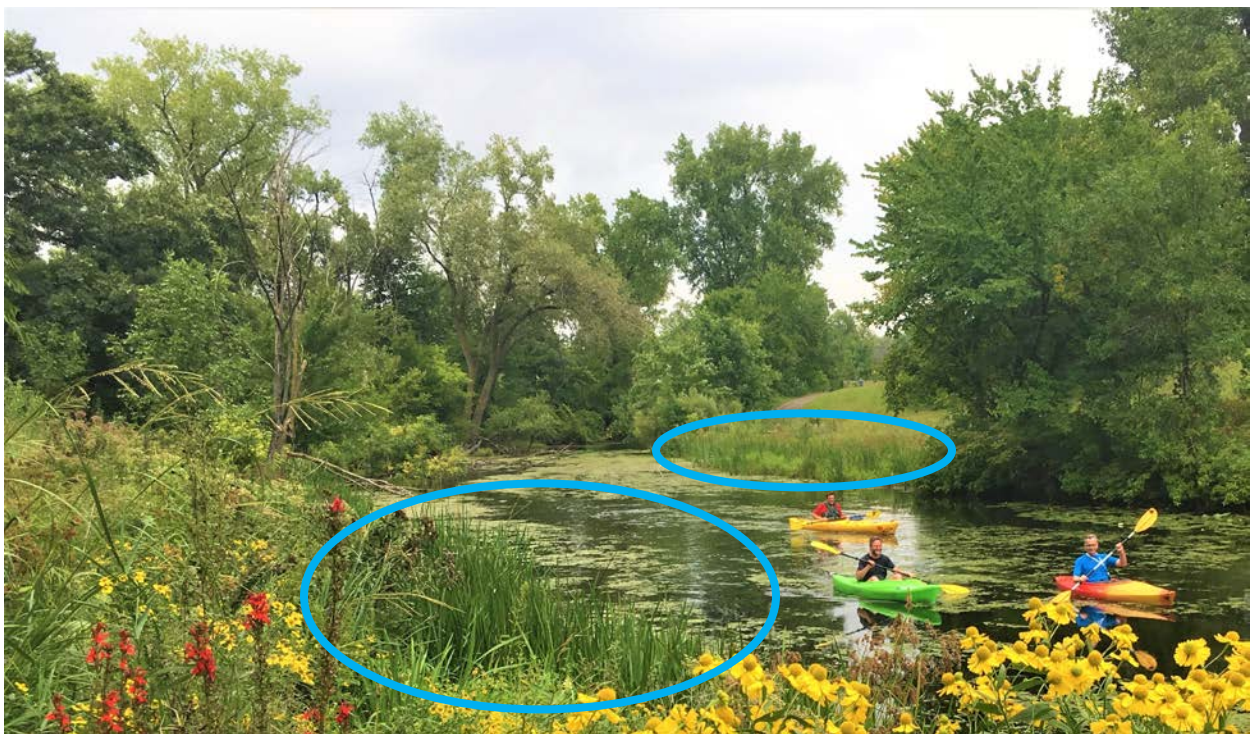
Over the last four years, we have made some incredible progress on the Creek, learned a great deal, and opened the door for new restoration opportunities (e.g., Grass-Snail Lake Park Restoration). Emergent plant stands are some of the most challenging habitat to establish. Fortunately, we have had great success with emergents along the creek. This plant community stabilizes the creek edge, and provides excellent habitat for fish, amphibians, and wading birds. Below are a couple of shots along the creek (Phase I and II). We believe that the new planting will look very similar to this in a couple of years.



Phase II – pre-restoration - west side dominated by reed canary grass and lacking emergent vegetation



Phase II – post-restoration - a mixed stand of bulrush, bur-reed, and arrowhead expanding on the west side of the Keller Creek shore.



Large stands of bur-reed along the creek edge greet kayakers as they make their way through the restoration.

Public Involvement and Education Program – Sage Passi



Demonstrating How to Create Resilient Lawns at the Minnesota State Fair

It's become a tradition for RWMWD staff and our Master Water Stewards to volunteer at the State Fair in front of the popular Eco Experience building where Blue Thumb has secured a prime location to inspire fair visitors to make their yards more resilient and water friendly. Anna Barker, Idelle Peterson, Stephanie Wang, Sage Passi and Blue Thumb staff spent a day helping with the setup of displays of native plants, signs and the tent before the fair opened. Eight RWMWD Master Water Stewards and staff will be taking shifts at the fair to help educate the public about sustainable yard practices and protecting water along with volunteers from other Watershed Districts and organizations.



Prospective Master Water Stewards Meet at Harriet Alexander Nature Center



Freshwater, RWMWD, Capitol Region Watershed District and Washington Conservation District have scheduled information sessions for potential Master Water Stewards in our area at three locations. The first was held at Harriet Alexander Nature Center on August 14 with the other sessions scheduled for August 28 and September 4. The next round of classes begins October 9.

Master Water Steward Capstone Project – A Bee Lawn Installation on the East Side of St. Paul

Master Water Stewards Michelle Natarajan and Melissa Peck coordinated several workdays for their capstone project with community volunteers who helped them



install a bee lawn at Michelle's residence on the East Side of St. Paul in mid-August. The project included design work, covering the site to kill the grass with black plastic for several months, then ripping up the sod, tilling, adding top soil and compost, planting a mix of fescue and low growing flower seeds, covering the area with germination blankets and removing sod on the boulevard and replacing it with native wildflowers and grasses. The demonstration project incorporates stepping stones and other perennials as a transition to the planting beds already in place in Michelle's yard in front of her house as well as signage to inform neighbors about the project.

Engaging Lionsgate Academy Teachers in a Rain Garden Project and Watershed Education



Lionsgate Academy is located in the Grass Lake subwatershed in Shoreview.

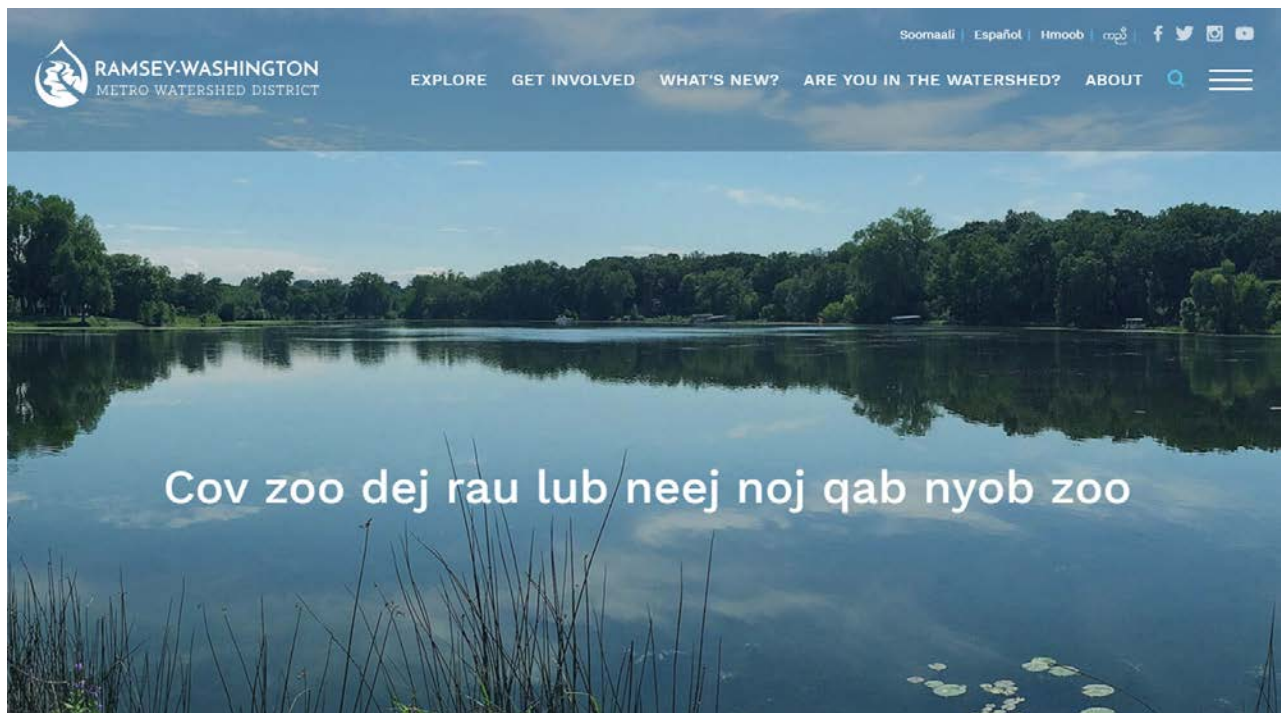
Sage met with Lionsgate Academy teachers, Patrick Kosher, Dustin Suggs and Sarah Hauer on August 28 to begin discussing plans for working with their classrooms in multiple phases this coming year. Lionsgate Academy is opening a new middle/high school in Shoreview this fall that serves students within the autism spectrum. They have other sites already established around the metro area. The reconstruction project on this new site included the removal of asphalt in some parking lot areas, the creation of a large rain garden (still in process) and native landscaping. The intention is to introduce watershed concepts through hands on lessons and experiments this fall by incorporating them into a Weather and Water unit, involvement of up to 65 students in the planting of the rain garden either this fall or next spring – dependent on when the project is completed, winter seeding and growing of native plants indoors and potentially a field trip to Vadnais-Snail Lake Regional Park.

Communications Update – Chris O’Brien

Website updates

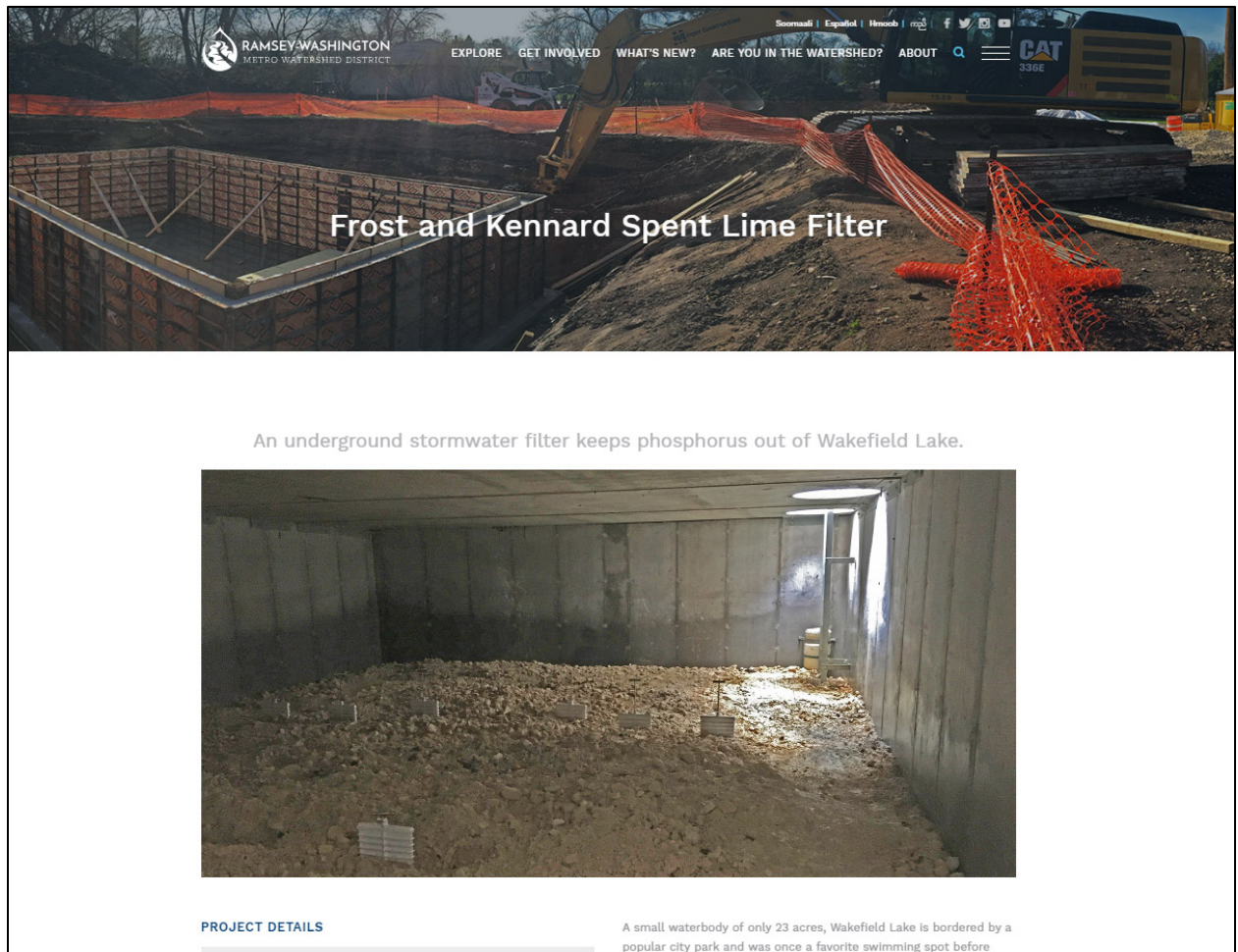
Multilingual features – On August 8, we launched four new multilingual pages, which provide basic information about our watershed district in Spanish, Hmong, Somali and Karen languages. Each page includes a phone number and unique dial-in code to reach our office with the assistance of a live interpreter. We also have an animated feature on the homepage that rotates our “Quality water for quality life” tagline through these languages and then back to English.

The main purpose is to make the site more accessible to the immigrant communities we serve, recognizing that more than 23 percent of Ramsey County residents speak a non-English language (about 9 percent in Washington County). The microsite pages should also boost our website search engine rankings for those who have their browsers set to one of these languages.



Hmong (“Quality water for quality life” translation shown above) is the most common non-English language in Ramsey County, spoken by 5.87 percent of the population or 31,737 people.

Kennard and Frost page – The Kennard and Frost Spent Lime Filter [project page](#) is up on our website and appears on the interactive [Watershed Map](#). The page includes photos of the underground spent lime treatment chamber and monitoring equipment installation.



Shallow Lakes video promotion

BWSR Newsletter – We collaborated with Barb Peichel, clean water specialist at BWSR, to produce an article on shallow lakes management for the September BWSR newsletter. This included photos, quotes and talking points with a link to our “Getting to Know Shallow Lakes” video.

Nature Center viewing – We provided the shallow lakes video to Wood Lake Nature Center in Richfield where Citizen Advisory Commission member Scott Ramsay has offered to show it on their video kiosk. Also, Harriet Alexander Nature Center in Roseville is planning to show the video during their Wild Rice Festival on September 15, which draws more than 1,500 people.

To: Board of Managers and Staff
From: Tina Carstens and Brad Lindaman
Subject: Project and Program Status Report – September 2018
Date: August 30, 2018

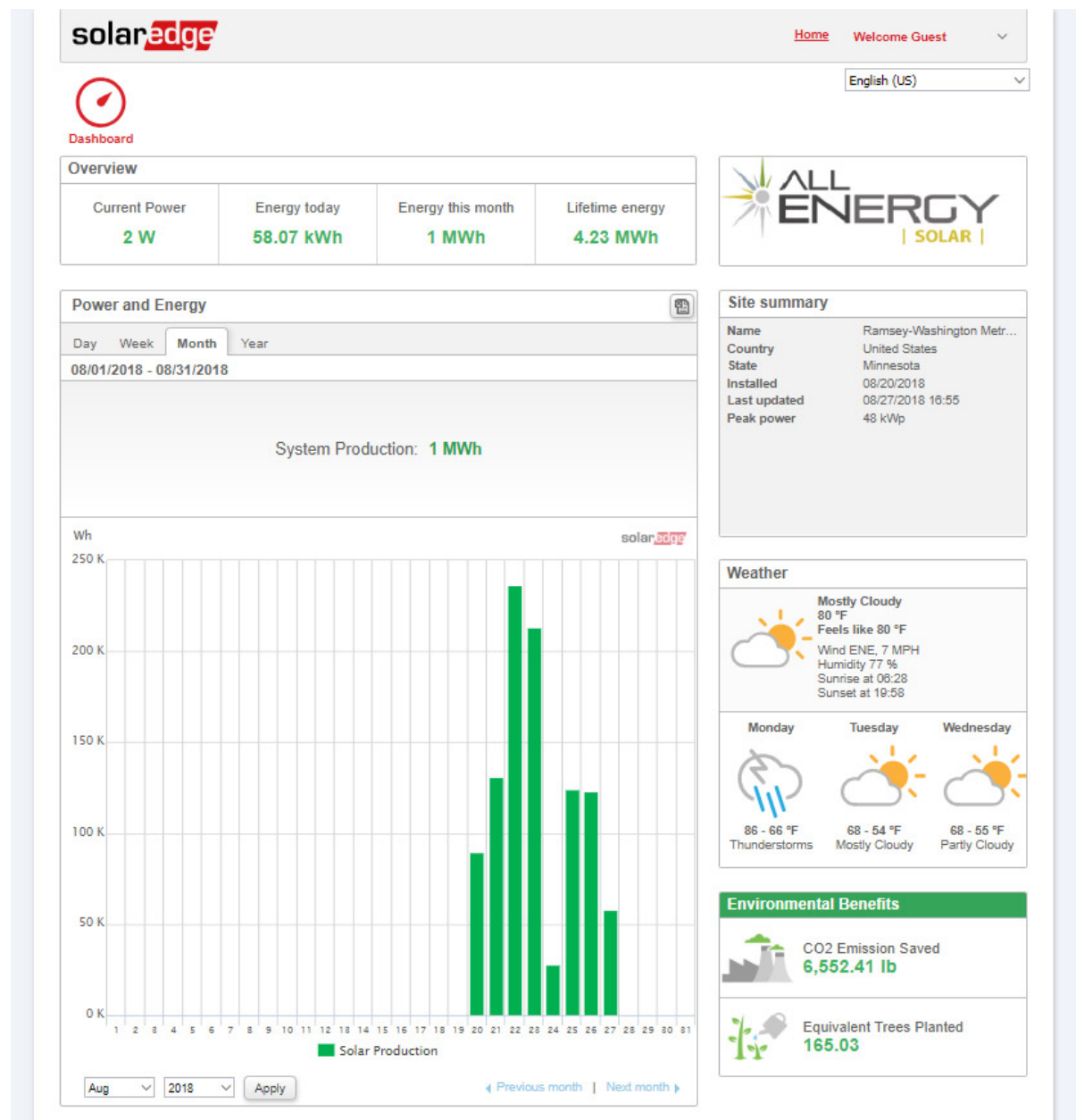
Page 19

Chloride Plan photos

We provided photos of all chloride impaired and at risk waters in our watershed district to Brooke Asleson at MPCA for use in their upcoming statewide Chloride Management Plan.

Solar Monitoring

Remote monitoring is now set up for our new solar array at the District office. We created a [public link](#) where those interested can view energy production in real time. The link appears on our website (District Office Site page and Overview page), and we are meeting with All Energy Solar September 5 to discuss additional ways of publicizing the solar project.



Social Media Highlights



August 2 was a great night to celebrate Gladstone Savanna as the City of Maplewood unveiled new interpretive signage for the former train yard, now home to walking trails and restored prairie.



Monarchs have been out in force on Lake Phalen, Keller Golf Course and here at the office, making for good Facebook and Instagram posts with links to the restoration project pages on our website.

Informational Items

mn MINNESOTA
PUBLIC FACILITIES AUTHORITY

AUG 20 2018

August 17, 2018

Return Receipt Requested

Ramsey-Washington MWD
ATTN: District Treasurer
2665 Noel Ave
Little Canada, MN 55117-1237

RE: Cancellation of General Obligation Note(s)
Issued to the MN Public Facilities Authority

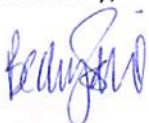
<u>Paid-in-full Date</u>	<u>Loan ID number</u>
07/13/18	MPFA-98-0033-R-FY99

In regard to the loan(s) being paid-in-full, enclosed you will find the canceled General Obligation Note(s) issued to the Minnesota Public Facilities Authority (PFA) for your infrastructure project(s).

This releases and discharges Ramsey-Washington MWD from all of its repayment duties to the Minnesota Public Facilities Authority under the applicable loan agreement(s) and General Obligation Note(s).

Please sign and date the enclosed yellow RECEIPT and return to PFA in the self-addressed envelope. If you should have any questions, please contact me at 651 259-7470 or at Rebecca.Sabie@state.mn.us.

Sincerely,



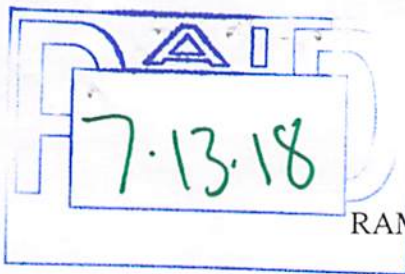
Becky Sabie
Program Coordinator

Enc

MINNESOTA PUBLIC FACILITIES AUTHORITY

1st National Bank Building ■ 332 Minnesota Street ■ Suite W820 ■ Saint Paul, Minnesota 55101-1378 ■ USA
651-259-7469 PHONE ■ 800-657-3858 TOLL FREE ■ 651-296-8833 FAX ■ mn.gov/pfa

AN EQUAL OPPORTUNITY EMPLOYER AND SERVICE PROVIDER



UNITED STATES OF AMERICA
STATE OF MINNESOTA
RAMSEY-WASHINGTON METRO WATERSHED DISTRICT

GENERAL OBLIGATION BOND

R-1

~~CANCELLED~~
\$800,000

Ramsey-Washington Metro Watershed District, Minnesota (the District), acknowledges itself to be indebted and for value received hereby promises to pay to the Minnesota Public Facilities Authority (PFA), or registered assign, the principal sum of Eight Hundred Thousand Dollars (\$800,000), or such lesser amount as may be advanced by the PFA to the District hereunder, in the following installments on the following dates:

<u>Date</u>	<u>Amount</u>	<u>Date</u>	<u>Amount</u>
February 20, 1999	\$14,720.71	February 20, 2009	\$19,789.78
August 20, 1999	14,446.99	August 20, 2009	20,120.27
February 20, 2000	14,688.25	February 20, 2010	20,456.27
August 20, 2000	14,993.54	August 20, 2010	20,797.89
February 20, 2001	15,182.93	February 20, 2011	21,145.22
August 20, 2001	15,436.49	August 20, 2011	21,498.34
February 20, 2002	15,694.28	February 20, 2012	21,857.37
August 20, 2002	15,956.37	August 20, 2012	22,222.38
February 20, 2003	16,222.84	February 20, 2013	22,593.50
August 20, 2003	16,493.77	August 20, 2013	22,970.81
February 20, 2004	16,769.21	February 20, 2014	23,354.42
August 20, 2004	17,049.26	August 20, 2014	23,744.44
February 20, 2005	17,333.98	February 20, 2015	24,140.97
August 20, 2005	17,623.46	August 20, 2015	24,544.13
February 20, 2006	17,917.77	February 20, 2016	24,954.01
August 20, 2006	18,217.00	August 20, 2016	25,370.75
February 20, 2007	18,521.22	February 20, 2017	25,794.44
August 20, 2007	18,830.52	August 20, 2017	26,225.20
February 20, 2008	19,144.99	February 20, 2018	26,663.17
August 20, 2008	19,464.72	August 20, 2018	27,108.34

and promises to pay interest from the date hereof on the installments of principal from time to time remaining unpaid at the rate of 3.34% per annum, from the date hereof through the date on which no principal remains unpaid, said interest being payable semiannually on February 20 and August 20 of each year, commencing February 20, 1999. The principal installments of and interest on this Bond are payable by check or draft mailed to the address of the registered holder hereof as it appears on the bond register of the District as of the payment date, in any coin or currency of the United States of America which on the respective dates of payment is legal tender for public and private debts.

This Bond constitutes an issue in the aggregate principal amount of \$800,000, issued to defray a portion of the cost of the improvement of the District's wastewater treatment system (the Project), and is issued pursuant to and in full conformity with the provisions of the Constitution and laws of the State of Minnesota thereunto enabling, including Minnesota Statutes, Chapters 103B and 103D. For the full and prompt payment of the principal of and interest on the Bond, as the same become due, the full faith, credit and taxing power of the District have been and are hereby irrevocably pledged. This Bond is being issued in conformity with the terms of a Public Facilities Authority Project Loan Agreement and General Obligation Revenue Bond Purchase Agreement (with Bond Proceeds), dated July 10, 1998, between the District and the PFA (the Loan Agreement). In the case of any conflict between the terms of the Loan Agreement and the terms of this Bond, the terms of the Loan Agreement shall control and shall be deemed to amend this Bond without further action or instrument in writing.

The District shall have the option to prepay this Bond (A) on any February 1 or August 1 immediately preceding an interest payment date on the PFA's Water Pollution Control Revenue Bonds, Series 1996B (the PFA Bonds) on or after the earliest date on which the PFA Bonds may be prepaid in part at the option of the PFA, upon forty-five days notice, in whole or in part in \$5,000 increments, by depositing with the holder hereof on or before such February 1 or August 1 (i) the principal amount to be prepaid together with a premium thereon equal to the redemption premium, if any, payable with respect to the PFA Bonds if such PFA Bonds were to be optionally redeemed on the immediately succeeding March 1 or September 1, as the case may be, plus (ii) interest and service fees on the principal amount being prepaid to the March 1 or September 1, as the case may be, immediately following the date of prepayment hereunder, and plus (iii) all fees and expenses of the PFA incurred in connection with such prepayment, including any required "rebate" in connection with the PFA Bonds under Section 148(f) of the Internal Revenue Code of 1986, as amended (the Code); and (B) at any other time, upon fifteen days prior notice to the PFA in whole or in part, by depositing with the PFA (i) money in an amount sufficient, or (ii) obligations issued by, or the payment of the principal of and interest on which are fully and unconditionally guaranteed by the United States of America, the principal of and interest on which, when due, without reinvestment, will provide an amount sufficient, with any money so deposited, to pay (a) principal and interest on this Bond as they become due or, if earlier, on the first date on which this Bond may be prepaid as provided in clause (A) above, plus (b) interest and service fees to the date of prepayment, plus (c) a premium, calculated as in clause (A) above, on the principal amount to be prepaid on the first date on which this Bond may be prepaid, and plus (d) all fees and expenses of the PFA incurred in connection with such payment, including any required "rebate"; provided that the PFA shall have received an opinion of its bond counsel that the prepayment as provided in clause (B) will not cause the interest on the PFA Bonds to become includable in gross income for federal income tax purposes. Partial prepayments shall be applied to the principal installments of this Bond in inverse order of their maturities or in such other manner as the PFA shall determine.

This Bond shall be registered in the name of the owner on the bond register of the District kept by the Secretary as Bond Registrar. This Bond is transferable by the registered owner or the owner's attorney duly authorized in writing, upon presentation hereof with a written instrument of

transfer satisfactory to the District and duly executed by the registered owner or the owner's attorney, subject to reimbursement for any tax, fee or governmental charge or other expense incurred by the District with respect to such transfer. Such transfer shall be noted on the bond register and hereon. The District may treat the person in whose name this Bond is registered as the absolute owner hereof, whether this Bond is overdue or not, for the purpose of receiving payment of principal and interest and all other purposes, and shall not be affected by any notice to the contrary.

IT IS HEREBY CERTIFIED, RECITED, COVENANTED AND AGREED that all acts, conditions and things required by the Constitution and laws of the State of Minnesota to be done, to exist, to happen and to be performed precedent to and in the issuance of this Bond in order to make it a valid and binding general obligation of the District according to its terms, have been done, do exist, have happened and have been performed as so required; that for payment of this Bond the District has levied a direct irrevocable tax on all taxable property in the District collectible in the amounts and at the times sufficient to produce amounts not less than five percent in excess of the principal of and interest on the Bond as such amounts respectively become due, that if necessary for the payment of this Bond, additional ad valorem taxes are required by law to be levied upon all taxable property in the District without limitation as to rate or amount; and that the issuance of this Bond does not cause the indebtedness of the District to exceed any constitutional or statutory limitation.

IN WITNESS WHEREOF Ramsey-Washington Metro Watershed District, Minnesota, by its Board of Managers, has caused this Bond to be executed on its behalf by the signature of the President, attested by the signature of the Secretary, and has caused this Bond to be dated as of October 15, 1998.

ATTEST:


Secretary


President

NO WRITING HEREON EXCEPT BY THE SECRETARY AS BOND REGISTRAR

The Bond Registrar has transferred on the books of Ramsey-Washington Metro Watershed District, Minnesota, on the last date noted below, to the registered assign noted opposite said date, ownership of the principal amount of and interest on this Bond, except the amounts of principal and interest theretofore paid:

Date of Transfer

Registered Assign

Signature of Bond Registrar
