



**RAMSEY-WASHINGTON**  
METRO WATERSHED DISTRICT

# **August 2019 Board Packet**

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# Agenda

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# RAMSEY-WASHINGTON

## METRO WATERSHED DISTRICT

### Regular Board Meeting Agenda

Wednesday, August 7, 2019

6:30 P.M.

District Office Board Room

2665 Noel Drive, Little Canada, MN

1. Call to Order – 6:30 PM
2. **Approval of Agenda**
3. **Consent Agenda**
  - A. Approval of Minutes July 3, 2019
4. **Treasurer's Report and Bill List**
5. Visitor Comments (limited to 4 minutes each)
6. Permit Program
  - A. Applications
    - i. **19-33 Battle Creek Playground, Maplewood**
    - ii. **19-34 3M Building 301 H Annex, Maplewood**
    - iii. **19-35 17<sup>th</sup> and 3<sup>rd</sup> Townhomes, North St. Paul**
    - iv. **19-36 Luther Cadillac, Vadnais Heights**
  - B. Enforcement Action Report
7. Stewardship Grant Program
  - A. Applications
    - i. **19-19 CS Negosso, rain garden, porous pavement, habitat**
    - ii. **19-20 CS Kohlman Chain LVMP, aquatic vegetation harvesting**
  - B. Budget Status Update
8. Action Items – NONE
9. Presentation: Beltline Resiliency Study - Brandon Barnes, Barr Engineering
10. Presentation: District Water Quality Monitoring Summary – Eric Korte, District Staff
11. Administrator's Report
  - A. Meetings Attended
  - B. Upcoming Meetings and Dates
  - C. 2020 Budget Discussions

12. Project and Program Status Reports

A. Ongoing Project and Program Updates

- i. Twin Lake Emergency Response Management 2019
- ii. Owasso County Park
- iii. Beltline Resiliency Study
- iv. FEMA Flood Mapping
- v. West Vadnais Lakes Outlet Permitting
- vi. 500-Year Atlas 14 Modeling
- vii. Wetland Restoration
- viii. Auto Lake Monitoring Systems
- ix. Maplewood Mall Monitoring
- x. Spent-Lime Pond Research Project
- xi. Iron Aggregate Pond Application Research
- xii. Wakefield Park/Frost Avenue Project
- xiii. Targeted Retrofit Projects
- xiv. Willow Pond CMAC
- xv. Cottage Place Wetland Restoration
- xvi. Aldrich Arena Site Design
- xvii. CIP Maintenance and Repair 2019 Project
- xviii. 2019 Tanners Lake Alum Facility
- xix. Natural Resources Program
- xx. Education Program

13. Informational Items – NONE

14. Report of Managers

**15. Adjourn**

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# Consent Agenda

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**Ramsey-Washington Metro Watershed District  
Minutes of Regular Board Meeting  
July 3, 2019**

The Regular Meeting of July 3, 2019, 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  
Tracey Galowitz, Attorney for District  
Viet-Hanh Winchell, Attorney for the District  
Nicole Soderholm, Permit Inspector  
Dave Vlasin, Water Quality Technician  
Paige Ahlborg, Project Manager  
Brad Lindaman, Barr Engineering  
Simba Blood, Natural Resources Specialist

Greg Windsperger, Crestview Addition  
Joe and Willie Pralutsky, Twin Lake  
Keith and Wanda Cook, Twin Lake Trail  
Steve and Mary Bertrand, Twin Lake Boulevard  
Burt Johnson, Twin Lake Trail  
Matt Gray, Crestview Addition  
Angie Malone, Twin Lake  
Melissa Elke and Ellen Raushel, Twin Lake Court

**1. CALL TO ORDER**

The meeting was called to order by President Ebensteiner at 6:32 p.m.

**2. APPROVAL OF AGENDA**

Tina Carstens suggested moving the Twin Lake and Grass Lake items to follow Visitor Presentations on the agenda.

Motion: Dr. Pam Skinner moved, Lawrence Swope seconded, to approve the agenda as amended. Motion carried unanimously.

**3. CONSENT AGENDA**

**A. Approval of Minutes from June 5, 2019**

Manager Swope noted on page five, the statement from Andrea Carly, should read, "...Wetland A is a substantial part of the neighborhood."

Manager Ward noted on page eight, Manager Ward commented on the risk of not pumping..."

Motion: Cliff Aichinger moved, Dianne Ward seconded, to approve the consent agenda as amended. Motion carried unanimously.

#### **4. TREASURER'S REPORT AND BILL LIST**

Motion: Lawrence Swope moved, Cliff Aichinger seconded, to approve the July 3, 2019, bill list as submitted. Motion carried unanimously.

#### **5. VISITOR PRESENTATIONS**

Burt Johnson, Chair of the Twin Lake Association, explained that the organization is newly formed with a focus on water quality and bringing the lake to an appropriate surface level. He summarized the comments that he has heard about Twin Lake in the recent public Watershed District meetings. He stated that residents have consistently disputed the information from the Watershed District. He provided information on the lake elevation and the low home elevation, which remains in serious risk. He identified inconsistencies that he believes have been found and information from Barr Engineering that had not previously been made public to the Twin Lake residents. He noted that a previous report from 1993 which predicted the exact situation that is occurring on Twin Lake right now because of the West Vadnais inflow that has occurred. He stated that the residents have organized themselves to protect their interests and will prepare for litigation. He stated that the residents have asked the Watershed District to cooperate with them and ask that the District take action on the recommendations within their own reports from 1993 and 2007.

Greg Windsperger, Crestview Addition, spoke in representation of Matt Gray, and encouraged the District to continue to work on lowering the water levels to get things back to what they were a few years ago so that the park area can be used and they do not have the fear of flooding in their homes. He stated that Mr. Gray continues to have his sump pumps operating all the time. He stated that the water in his own yard continues to move closer to his home and encouraged action.

#### **6. PROJECT AND PROGRAM STATUS REPORTS**

##### **A. Ongoing Project and Program Updates**

- i. Twin Lake Emergency Response Management 2019
- ii. Snail, Grass, and West Vadnais Lakes Outlet Permitting

Brad Lindaman noted that some progress has been made in the Grass Lake and Snail Lake areas, noting that the stoplogs have been installed. Manager Swope asked if that is intended to be permanent. Brad replied that the structure in the tunnel is permanent but the stoplogs can be taken out. He stated that they have turned that operating plan over to the city today and the use of that option will depend on the conditions. Manager Skinner asked and received confirmation that the stoplog element is meant to stop water flow.

Brad stated that the overflow swale has been reinforced to stabilize that area. He noted that there was damage to the path, but noted that the overflow going from the lake to the path has reduced to a trickle. He stated that the water is no longer moving towards the tunnel or Wetland A. He stated that the remaining work from the contract is down to punch list items and highlighted those items. He stated that staff is working with the city on an operation plan for the stoplogs.

He stated that all of the items discussed over the past few years have been completed through the contract and it was the understanding of staff that the work of the District is complete in this area. He asked if the Board agrees that the District is at that point where the duties have now been completed and the remainder should be turned over to the city and county. President Ebensteiner agreed that the District has completed the agreed upon actions and it would now be up to the city and county to develop a secondary plan.

Manager Aichinger noted that there are other elements downstream, using the example of possibly lowering the West Vadnais outlet, which could assist in allowing a further decrease of Grass Lake. Tina Carstens confirmed that action would continue.

Manager Ward stated that she would agree that the District is done with what was originally discussed, but did not think that the District is done overall in that area. She stated that Grass Lake is high and further review needs to be done to determine what else could be done in that area related to Owasso, West Vadnais, and Wetland A. She believed that continued work in that area would be consistent with the vision and purpose of the District and would still assist in that area. Manager Aichinger stated that staff continues to work on the possibility of lowering West Vadnais. He stated that there is a potential to comeback to this if West Vadnais could be lowered. He noted that otherwise it would be the responsibility of the city and county.

Manager Ward stated that there was some pumping of the southwest pond and installation of the stoplogs and asked if further pumping should be done. She also referenced the elevation of the northwest pond, which impacts the Crestview Addition, and asked if something should be done there. Brad replied that there was discussion of a possible pipe connection from that pond to Suzanne Pond, where water could be pumped to Suzanne Pond using the pumps in that pond. He explained that the city has acknowledged that and are looking into that possibility next year. Manager Ward asked why the water is not just pumped out. Tina replied that the water has been pumped previously. Dave Vlasin stated that the pond was pumped more than 12 times to an almost dry status and comes back within 24 hours. He noted that the northwest pond also refills, although not as quickly as the southwest pond, because of groundwater. Manager Aichinger stated that until the elevation in Grass Lake lowers, the other nearby basins will be impacted.

Brad clarified that the District would consider the work completed and not look into any further actions until the system drains further. Manager Swope suggested pumping the ponds further now. Manager Aichinger asked where that water would be expected to go. Manager Swope stated that the residents in that area are upset about what is happening to the environment in that area. Manager Ward stated that the District cannot act until the water goes down, but should be doing planning ahead of time. Brad noted that when Grass Lake lowers, the District could then consider pumping the ponds again. He confirmed the consensus of the Board.

Manager Skinner stated that the District has always worked to protect homes, and in this case, this would be protection of open space and therefore she would caution against setting precedent. She stated that perhaps that is the job of another partner, such as the county or city, to pump the ponds once Grass Lake lowers. Manager Aichinger agreed that the job of the District is to protect homes. He noted that protection of other assets could be the job of other partners, such as the county or city, but advised that the District could work cooperatively. Brad noted that there are other homes, throughout the District, potentially at risk using the Atlas 14 figures that the District has been working on. He would note that he would suggest continuing on that list before working on other elements, such as open space. Manager Skinner stated that the District has never gone outside of the protection of homes and if there was going to be a variation in that plan, there would need to be a serious discussion. Manager Aichinger agreed that going outside of protecting habitable structures would not be included in the plan and would not be funded. Manager Swope suggested that perhaps there be a future discussion on the topic.

Brad moved to West Vadnais and the associated overflows, reviewing the current elevation. He stated that staff continues to work towards a lower outlet for the lake and is currently working on the EAW through VLAWMO. He stated that the work should be ready to send to VLAWMO in August for a 60-day comment period, with a record of decision to then be made on whether an EIS would be needed or whether the request could move forward to permitting. He noted that, if approved, the construction could occur this winter. He noted that the purpose of lowering the outlet would be to provide more storage in the West Vadnais and Grass Lake system. He explained that this would be for the purpose of long-term resiliency in the system and would have no impact on the current condition.



Manager Swope stated that his hope would be that the Grass Lake area would eventually be restored to regular elevations and could be self-managing.

Brad stated that there is an overflow from West Vadnais that eventually goes towards Twin Lake and identified an existing berm and buffer of trees. He stated that there are some low points within the berm, which has been identified as the primary source of the water. He stated that there is no indication that the low point was intentional and instead had eroded. He stated that this week staff put sandbags in the eroded section to match up with the rest of the berm, which has significantly reduced the flow from West Vadnais to Twin Lake. He stated that once that area dries up, he would recommend restoring that section of berm. He stated that following the last meeting the Board showed support at the possibility of pumping Twin Lake by the City of Little Canada, therefore District staff and Barr assisted the city in drafting permits. He noted that MnDOT and the DNR approved the permits and pumping began on June 11<sup>th</sup>. He noted that there was good response right away and the city stopped pumping when the elevation reached 873.5. He stated that the DNR does not have an official ordinary high water, but the DNR has stated that they will be setting up a crew to establish that line. He stated that on Monday there was a meeting at the MnDOT office with representatives from DNR, Little Canada, the District, Barr Engineering, VLAWMO and Vadnais Heights. He noted that the purpose of the meeting was to provide an update on the pumping that occurred the previous month and a request for continued pumping to a lower elevation. He noted that MnDOT was supportive and the DNR could also see a benefit in pumping to a lower elevation as well. He stated that District staff and Barr have worked with the city to draft amendments to the permits. President Ebensteiner stated that this is a great idea. She stated that there has been a positive outcome of the District working with all the organizations.

Manager Skinner asked and received confirmation that, if continued pumping is approved, the city would continue to do the pumping. Brad reviewed the scenarios that the city will bring to its City Council for review and discussion. Manager Swope stated that he agrees that this is a good example in how the District can provide information and the other partner takes the lead and follows through on the action.

Tracey Galowitz asked if the city is asking for the information or if the District is proactively sharing information. Brad confirmed that the city is asking for information and the District is sharing that information. He stated that another thing the District would like to do is to try to control and divert the overflow from West Vadnais when it does occur. He explained that once the berm section is restored there would be additional permitting needed, but the idea would be to divert that water from the berm into another MnDOT pond rather than going through Twin Lake. He confirmed that this would be a District role.

Manager Ward asked why the water is not pushed downstream from West Vadnais. Brad stated that there is such a larger volume that would increase the risk downstream. Manager Aichinger noted that this discussion is related to summer water levels in the rainy months and this option would divert the water from the berm, rather than attempting to lower the overall lake level of West Vadnais. Brad noted that could be an option for the winter months, but diverting that amount of volume in the summer would increase the risk downstream. He noted that this pumping system would be above ground and similar to the pumping being done by the city. He asked if the Board would support this action, as staff could then prepare for the next overflow event.

Tina confirmed that staff would like to move forward with the permit application. Brad reviewed the steps that the District could take in preparation if directed by the Board. President Ebensteiner believed that it would be a good idea to go forward with permitting and getting things in place. Brad stated that he would be looking for direction from the Board on the continued support to the City of Little Canada and direction for staff to move to the next steps for the diverting around Twin Lake.

Motion: Cliff Aichinger moved, Lawrence Swope seconded, to continue to provide support to the City of Little Canada related to their pumping activities and to direct staff to move forward on the next steps for diverting water around Twin Lake from West Vadnais Lake. Motion carried unanimously.

Brad noted that additional options for resiliency will be reviewed including options for the winter months. He noted that Little Canada will likely pursue a permanent high water outlet and will be discussing that with their City Council, noting that the District would continue to provide support as requested. President Ebensteiner confirmed the consensus of the Board in support of those actions.

Dr. Pam Skinner asked if the live data has been put into the models from Barr regarding the high-water levels. Brad confirmed that the models continue to be updated with the current information to provide more accurate flood models.

## **7. PERMIT PROGRAM**

### **A. Applications**

Permit #19-30: White Bear Lake Apartments – White Bear Lake

Motion: Cliff Aichinger moved, Lawrence Swope seconded, to approve Permit #19-30.

Motion carried unanimously.

Permit #19-31: 3108 W Owasso Boulevard – Roseville

Manager Aichinger asked if the applicant was informed of the cost-share program using native planting shoreline restoration rather than riprap. Nicole Soderholm stated that she could inform the applicant of the option. She stated that the Board could approve the permit and she could provide the information to the applicant. Dr. Pam Skinner stated that perhaps a policy be set that when using riprap, staff should suggest an alternate BMP when possible.

Motion: Cliff Aichinger moved, Dianne Ward seconded, to approve Permit #19-31, with direction for staff to inform the applicant of the cost-share program for native restoration. Motion carried unanimously.

Permit #19-32: St. Paul Urban Tennis Courts – St. Paul

Nicole Soderholm stated that this request was introduced to the Board a few months ago.

Motion: Dr. Pam Skinner moved, Lawrence Swope seconded, to approve Permit #19-32. Motion carried unanimously.

### **B. Monthly Enforcement Report**

During June, seven notices were sent to address: install/maintain perimeter control (4), sweep streets (1), implement proper dewatering (1), and protect/maintain permanent BMPs (1).

## **8. STEWARDSHIP GRANT PROGRAM**

### **A. Applications**

Permit #19-16 CS: Marquardt – Porous Driveway

Manager Ward noted that the cost is above the cap and asked for additional details. Paige Ahlborg stated that the cost of the project is high, but noted this is the only method for treating stormwater on this property. She noted that the removal rate is similar to other approved projects. She noted that the District has exceeded the cap on previous projects. Manager Ward asked if the District would be willing to exceed the cap in every situation where a rain garden would not be possible. She stated that there should be consistent criteria that could be applied fairly. Manager Aichinger noted that the requests still need to be approved by the Board and staff. He agreed that there should be reasons specified as to why a request is approved that exceeds the cap. President Ebensteiner agreed that there should be a reason identified to exceed the cap. Manager Swope agreed that there should be a reason why the cap is exceeded.

Paige noted that there have only been a handful of requests that exceed the cap within the past few years. She noted that there have been previous requests for porous driveways that have been denied and those homeowners have been directed to pursue other BMPs. She confirmed that the applicant would still have additional expenses outside of this request. Manager Aichinger stated that if a porous driveway is the only option for reducing runoff, then the Board could consider a variance to the 75 percent funding level.

Motion: Cliff Aichinger moved, Dianne Ward seconded, to approve Permit #19-16 CS and the variation to the amount of funding as this is the only option to reduce runoff on the site. Motion carried unanimously.

Permit #19-17 CS: Warner – Native Habitat Restoration

Motion: Dr. Pam Skinner moved, Cliff Aichinger seconded, to approve Permit #19-17 CS. Motion carried unanimously.

B. Budget Status Update

Manager Ward asked for details on the approved projects and available budget. Paige provided additional explanation.

**9. ACTION ITEMS**

None.

**10. ADMINISTRATOR'S REPORT**

A. Meetings Attended

No comments.

B. Upcoming Meetings and Dates

No comments.

C. My Vacation

No comments.

D. 2018 District Water Quality Summary Presentation

No comments.

E. MAWD Summer Tour

President Ebensteiner stated that she found the tour fascinating. She stated that there were very positive projects highlighted in the Fargo/Moorhead area. She noted that work on the projects began in 1976, but advised that the methodology changed midway through. She stated that she was impressed that, rather than a quick fix, they reviewed the long-term impacts and what needed to be done to create a larger solution. She believed that the District also benefits from that type of approach. Manager Aichinger stated that this has always been the approach of the District and noted that the District has never done things in isolation. Manager Swope noted that the impound areas also attract wildlife.

Tina noted that the summer tours are a good opportunity to see the different water management opportunities in different regions. She noted that next year's tour will be hosted by Minnehaha Creek Watershed District.

F. Board and CAC Tour

Tina Carstens asked and received confirmation that the Board would be interested in another tour this year. She asked if there are any areas the Board would like to highlight. President Ebensteiner stated that she would be interested in projects, rather than highlighting future project sites. Manager Skinner noted that perhaps the flooding in the northern portion of the District would be helpful to highlight. She stated that she would prefer to keep the tour under two hours. Tina noted that another option would be to continue mini tours and use the tour

time as time for a retreat. President Ebensteiner stated that she would prefer to have a special meeting or workshop rather than a retreat. Tina Carstens confirmed the consensus to hold a special workshop in place of the tour and instead continue the mini tours.

G. CAC Meeting Update

Manager Swope asked about the idea of District staff producing talking points for CAC members on Nextdoor. Manager Aichinger stated that the original idea was that the District would provide items that the Managers or CAC members could post on Nextdoor.

H. Master Water Steward Program

Manager Ward stated that she believes that this should be a formalized policy in terms of funding the projects for the Master Water Stewards.

I. 2020 Budget Discussions

Tina stated that she sent the information this morning. President Ebensteiner stated that it appears that the programs are working and will remain consistent. She believed that it is important to keep the rainy-day fund for flood events. Tina stated that there are still things in the works that will influence the budget for 2020. Manager Aichinger stated that he has not yet read the information but will review prior to the next meeting when he assumed further discussion would occur. Tina stated that if the Managers identify any red flags, they can contact her to further discuss the item. She provided a brief overview of the proposed budget thus far.

J. Boundary Change with Vadnais Lake Area Watershed Management Organization (VLAWMO)

President Ebensteiner stated that she would like to see projected costs as the water body is impaired. She stated that she does not see a positive value and it does not appear VLAWMO would like to give up the water body. Tina stated that if the organization is interested in a joint meeting, that could be helpful just to gain additional information.

Manager Aichinger stated that in his opinion people view boundary changes as more significant than it is. He stated that development of a joint management plan could accomplish the same goals without the District having to fund those improvements on its own. He believed that would be an easier approach that could start implementation much faster. Manager Skinner noted that increasing the boundary to include this lake would not increase the tax base but would increase the area the taxpayers have to support.

President Ebensteiner believed that staff could handle the discussion without a joint meeting of the Boards. Tina noted that a joint meeting could be a good opportunity to discuss the EAW as well. Manager Aichinger stated that perhaps the joint meeting has a few Board members from the District and a few members from the VLAWMO Board along with staff from both organizations. President Ebensteiner agrees with Manager Aichinger that the District should be working with VLAWMO to see what can be accomplished together. Tina stated that if the desire is to jointly manage a water body, a joint meeting would be helpful at some point. She stated that she would prefer to have the meeting proactively rather than await the decision on the EAW. The consensus of the Board was to direct staff to continue to work on the EAW and with VLAWMO staff and not hold a joint meeting at this time.

**6. PROJECT AND PROGRAM STATUS REPORTS (Continued)**

A. Ongoing Project and Program Updates

- i. Twin Lake Emergency Response Management 2019
- ii. Beltline Resiliency Study
- iii. FEMA Flood Mapping
- iv. Snail, Grass, and West Vadnais Lakes Outlet Permitting
- v. 500 Year Atlas 14 Modeling
- vi. Auto Lake Monitoring Systems
- vii. Maplewood Mall Monitoring

- viii. Spent Lime Pond Research Project
- ix. Kohlman Basin Test Weirs
- x. Wakefield Park/Frost Avenue Project
- xi. School, Commercial, and Faith Based BMP Retrofit Projects
- xii. Willow Pond CMAC
- xiii. Cottage Place Wetland Restoration
- xiv. Aldrich Arena Site Design
- xv. CIP Maintenance and Repair 2019 Project
- xvi. New Technology Review – Bio Clean: Watergate Automatic Retractable Screen
- xvii. Natural Resources Program
- xviii. Education Program

Dave Vlasin provided an update on the alum plant, noting that the plant is currently down while the PH alarm is being updated. He noted that the Maplewood Mall cistern is not operational currently either and advised that the broken part is on order and once replaced that will be operational again.

Manager Aichinger commented that the restoration work around Wetland A is amazing.

#### **11. INFORMATIONAL ITEMS**

No comments.

#### **12. REPORTS OF MANAGERS**

No comments.

#### **13. ADJOURN**

Motion: Dr. Pam Skinner moved, Lawrence Swope seconded, to adjourn the meeting at 9:06 p.m. Motion carried unanimously.

Respectfully submitted,

Dr. Pam Skinner, Secretary

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# Bill List

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**RWMWD BUDGET STATUS REPORT**
**Administrative & Program Budget**
**Fiscal Year 2019**
**7/31/2019**

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	-	140.00	2,800.00	\$3,700.00	43.08%
	Manager expenses	4360	3,500.00	-	312.86	312.86	3,187.14	8.94%
Committees	Committee/Bd Mtg. Exp.	4365	3,500.00	-	295.72	2,236.26	1,263.74	63.89%
Employees	Staff salary/taxes/benefits	4010	1,385,000.00	-	104,214.31	766,570.10	618,429.90	55.35%
	Employee expenses	4020	10,000.00	-	892.64	4,078.90	5,921.10	40.79%
	District training & education	4350	25,000.00	-	2,955.31	13,618.64	11,381.36	54.47%
Administration/ Office	GIS system maint. & equip.	4170	15,000.00	-	-	2,028.52	12,971.48	13.52%
	Data Base/GIS Maintenance	4171	5,000.00	-	-	2,210.00	2,790.00	44.20%
	Equipment maintenance	4305	3,000.00	-	-	-	3,000.00	0.00%
	Telephone	4310	8,000.00	-	359.40	4,634.62	3,365.38	57.93%
	Office supplies	4320	5,000.00	-	369.92	2,403.64	2,596.36	48.07%
	IT/Internet/Web Site/Software Lic.	4325	45,000.00	-	2,924.58	19,908.65	25,091.35	44.24%
	Postage	4330	10,000.00	-	-	284.94	9,715.06	2.85%
	Printing/copying	4335	8,000.00	-	294.00	3,542.92	4,457.08	44.29%
	Dues & publications	4338	11,000.00	-	119.00	7,948.00	3,052.00	72.25%
	Janitorial/Trash Service	4341	17,000.00	-	-	5,652.18	11,347.82	33.25%
	Utilities/Bldg.Contracts	4342	20,000.00	-	3,574.25	12,417.46	7,582.54	62.09%
	Bldg/Site Maintenance	4343	300,000.00	-	3,671.76	70,130.78	229,869.22	23.38%
	Miscellaneous	4390	5,000.00	-	-	500.00	4,500.00	10.00%
	Insurance	4480	35,000.00	-	5,428.00	35,812.00	(812.00)	102.32%
	Office equipment	4703	40,000.00	-	-	29,222.15	10,777.85	73.06%
	Vehicle lease, maintenance	4810-40	43,000.00	-	1,006.70	3,398.69	39,601.31	7.90%
Consultants/ Outside Services	Auditor/Accounting	4110	55,000.00	-	1,584.98	38,558.59	16,441.41	70.11%
	Engineering-administration	4121	93,000.00	-	7,542.00	41,125.64	51,874.36	44.22%
	Engineering-permit I&E	4122	10,000.00	-	-	106.00	9,894.00	1.06%
	Engineering-eng. review	4123	55,000.00	-	3,047.00	32,220.16	22,779.84	58.58%
	Engineering-permit review	4124	55,000.00	-	3,391.00	23,265.50	31,734.50	42.30%
	Project Feasibility Studies	4129	790,000.00	-	36,083.86	189,110.80	600,889.20	23.94%
	Attorney-permits	4130	10,000.00	-	-	-	10,000.00	0.00%
	Attorney-general	4131	40,000.00	-	4,088.50	18,928.50	21,071.50	47.32%
	Outside Consulting Services	4160	40,000.00	-	-	-	40,000.00	0.00%
Programs	Educational programming	4370	60,000.00	-	1,151.07	14,294.21	45,705.79	23.82%
	Communications & Marketing	4371	25,000.00	-	551.52	4,824.98	20,175.02	19.30%
	Events	4372	50,000.00	-	-	33,556.76	16,443.24	67.11%
	Water QM-Engineering	4520-30	300,000.00	-	52,483.57	91,448.94	208,551.06	30.48%
	Project operations	4650	160,000.00	-	7,960.68	23,982.43	136,017.57	14.99%
	SLMP/TMDL Studies	4661	68,000.00	-	-	3,234.00	64,766.00	4.76%
	Natural Resources/Keller Creek	4670-72	115,000.00	-	31,416.16	88,327.07	26,672.93	76.81%
	Outside Prog.Support/Weed Mgmt.	4683-84	67,000.00	-	4,109.94	38,306.37	28,693.63	57.17%
	Research Projects	4695	115,000.00	-	1,941.50	40,780.52	74,219.48	35.46%
	Health and Safety Program	4697	3,000.00	-	-	930.80	2,069.20	31.03%
	NPDES Phase II	4698	10,000.00	-	-	-	10,000.00	0.00%
<b>GENERAL FUND TOTAL</b>			<b>\$4,124,500.00</b>	<b>\$0.00</b>	<b>\$281,910.23</b>	<b>\$1,672,712.58</b>	<b>\$2,451,787.42</b>	<b>40.56%</b>
CIP's	CIP Project Repair & Maintenance	516	1,120,000.00	-	35,320.68	542,198.53	577,801.47	48.41%
	Targeted Retrofit Projects	518	978,760.00	-	23,819.73	196,235.57	782,524.43	20.05%
	District Office Building Solar Energy Retrofit	519	-	-	-	-	-	---
	Flood Damage Reduction Fund	520	2,500,000.00	-	44,756.42	233,170.87	2,266,829.13	9.33%
	Debt Services-96-97 Beltline/MM/Battle Creek	526	399,113.00	-	85,474.90	396,907.30	2,205.70	99.45%
	Stewardship Grant Program Fund	528-529	1,250,000.00	-	60,182.10	248,445.60	1,001,554.40	19.88%
	Impervious Surface Volume Reduction Opportunity	531	1,500,000.00	-	-	-	1,500,000.00	0.00%
	Beltline & Battle Creek Tunnel Repair	549	-	-	-	-	-	---
	Frost/Kennard Enhanced WQ BMP	550	-	-	-	-	-	---
	Markham Pond Dredging & Aeration	551	65,000.00	-	1,840.98	3,535.98	61,464.02	5.44%
	Wakefield Park Project	553	1,100,000.00	-	3,483.16	51,749.30	1,048,250.70	4.70%
	Willow Pond CMAC	554	300,000.00	-	170.50	10,588.16	289,411.84	3.53%
	District Office Bond Payment	585	194,885.00	-	-	193,453.76	1,431.24	99.27%
<b>CIP BUDGET TOTAL</b>			<b>\$9,407,758.00</b>	<b>-</b>	<b>\$255,048.47</b>	<b>\$1,876,285.07</b>	<b>\$7,531,472.93</b>	<b>19.94%</b>
<b>TOTAL BUDGET</b>			<b>\$13,532,258.00</b>	<b>\$0.00</b>	<b>\$536,958.70</b>	<b>\$3,548,997.65</b>	<b>\$9,983,260.35</b>	<b>26.23%</b>

**Current Fund Balances:**

Fund:	Beginning Fund Balance @ 12/31/18	Fund Transfers	Year to date Revenue	Current Month Expenses	Year to Date Expense	Fund Balance @ 07/31/19
101 - General Fund	\$4,464,553.28	-	1,782,572.41	281,910.23	1,672,712.58	\$4,574,413.11
516 - CIP Project Repair & Maintenance	951,963.00	-	589,276.30	35,320.68	542,198.53	\$999,040.77
518 - Targeted Retrofit Projects	994,725.00	-	105,227.91	23,819.73	196,235.57	\$903,717.34
519 - District Office Building Solar Energy Retrofit	32,805.00	-	-	-	-	\$32,805.00
520 - Flood Damage Reduction Fund	1,823,918.00	-	466,180.15	44,756.42	233,170.87	\$2,056,927.28
526 - Debt Services-96-97 Beltline/MM/Beltline-Battle Creek Tunnel Repair	381,949.00	-	311,016.62	85,474.90	396,907.30	\$296,058.32
528/529 - Stewardship Grant Program Fund	389,152.00	-	657,674.45	60,182.10	248,445.60	\$798,380.85
531 - Impervious Surface Volume Reduction Opportunity	1,484,215.00	-	-	-	-	\$1,484,215.00
549 - Beltline & Battle Creek Tunnel Repair	863,674.00	-	-	-	-	\$863,674.00
550 - Frost/Kennard Enhanced WQ BMP	70,017.00	-	-	-	-	\$70,017.00
551 - Markham Pond Dredging & Aeration	110,379.00	-	-	1,840.98	3,535.98	\$106,843.02
553 - Wakefield Park Project	1,049,286.00	-	-	3,483.16	51,749.30	\$997,536.70
554 - Willow Pond CMAC	(44,588.00)	-	-	170.50	10,588.16	(\$55,176.16)
580 - Contingency Fund	598,985.00	-	-	-	-	\$598,985.00
585 - Certificates of Participation	131,513.00	-	102,536.71	-	193,453.76	\$40,595.95
<b>Total District Fund Balance</b>	<b>\$13,302,546.28</b>	<b>-</b>	<b>\$ 4,014,484.55</b>	<b>\$ 536,958.70</b>	<b>\$3,548,997.65</b>	<b>\$13,768,033.18</b>

**Ramsey Washington Metro Watershed Dist.**  
**Check Register**  
**For the Period From Jul 1, 2019 to Jul 31, 2019**

Check #	Date	Payee ID	Invoice #	Payee	Description	Amount
EFT	07/01/19	met008	July, 2019	MetLife-Group Benefits	Employee Benefits	\$1,615.20
EFT	07/10/19	hea002	August, 2019	HealthPartners	Employee Benefits	10,825.13
70814V	07/03/19	xio002	WF19	Bryan Xiong	Events	(200.00)
70873	07/03/19	com004	6/21/19	Comcast	Utilities/Bldg. Contracts	117.43
70874	07/03/19	hom001	5223130	Home Depot Credit Services	Water QM Staff	168.87
70875	07/03/19	xio002	WF19	Bryan Xiong	Events	200.00
70876	07/15/19	aws001	S1335957-070119	AWS Service Center	Utilities/Bldg. Contracts	206.83
70877	07/15/19	ben002	88947	Benefit Extras, Inc.	Employee Benefits	90.00
70878	07/15/19	car007	RWMWD_6_18_19	Carp Solutions, LLC	Natural Resources Projects	7,120.00
70879	07/15/19	cen003	052919H	Centerline Charter Corp	Educational Program	185.00
70880	07/15/19	ci011	226289	City of Roseville	Phone/IT/Website/Software	2,728.00
70881	07/15/19	dnr001	2019 Itasca	Dept of Natural Resources	Training & Education	154.00
70882	07/15/19	gil001	181772	Gilbert Mechanical Contractors, Inc.	Bldg./Site Maintenance	305.50
70883	07/15/19	hej001	310546	Hejny Rental	Natural Resources Projects	81.74
70884	07/15/19	lak007	1036	Lakes Aquatic Weed Removal	Natural Resources Projects	15,420.00
70885	07/15/19	mon001	18779	Monarch Bus Service	Educational Program	281.34
70886	07/15/19	nel001	1-710853	Nelson Marine	Water QM Staff	7.96
70887	07/15/19	pre003	316951514	Premium Waters, Inc.	Utilities/Bldg. Contracts	22.00
70888	07/15/19	san003	06/27/19	Sandstrom Land Management	Construction Imp.-Maint.	1,690.00
70889	07/15/19	spr002	06/28/19	SPRWS	Water QM Staff	102.07
70890	07/15/19	swo001	7/3/19	Lawrence Swope	Manager Expense	312.86
70891	07/15/19	tru002	CIV-468	Trustees of Hamline University	Educational Program	540.14
70892	07/15/19	tru003	925424	True Cleaning Services, LLC	Bldg./Site Maintenance	1,800.00
70893	07/15/19	usb005	389067414	US Bank Equipment Finance	Printing Expense	294.00
70894	07/15/19	van001	66962	Vanguard Cleaning Systems of Minnesota	Utilities/Bldg. Contracts	550.00
70895	07/30/19	ada002	2803989	Adam's Pest Control, Inc.	Bldg./Site Maintenance	79.00
70896	07/30/19	att002	287256653401X06252019	AT & T Mobility - ROC	Water QM Staff	85.44
70897	07/30/19	aut001	33245	Automatic Systems Co.	Water QM Staff	47,846.00
70898	07/30/19	bar001	6/15-7/19/19	Barr Engineering	June/July Engineering	139,196.95
70899	07/30/19	bar004	July, 2019	Deborah Barnes	Employee Reimbursement	86.38
70900	07/30/19	bar009	7/1/19	Seth Bartodziej	Employee Reimbursement	86.71
70901	07/30/19	cad001	16261867	Allstream	Water QM Staff	65.47
70902	07/30/19	ci001	7/17/19	City of Little Canada	Utilities/Bldg. Contracts	125.93
70903	07/30/19	com004	July 16, 2019	Comcast	Utilities/Bldg. Contracts	61.93
70904	07/30/19	dev001	19-02 CS	Mark Devine	Stewardship Grant Fund	11,897.50
70905	07/30/19	don001	July, 2019	Matthew Doneux	Employee Reimbursement	232.18
70906	07/30/19	don002	15-16	Donnay Homes	Dev.Escrow-General	7,440.00
70907	07/30/19	fit002	July, 2019	Mary Fitzgerald	Employee Reimbursement	54.52
70908	07/30/19	gal001	July 24, 2019	Galowitz Olson, PLLC	June/July Legal Fees	4,088.50
70909	07/30/19	gil001	182130	Gilbert Mechanical Contractors, Inc.	Bldg./Site Maintenance	532.26
70910	07/30/19	hil003	7/1/19	Kyle Hildebrandt	Employee Reimbursement	258.77
70911	07/30/19	hom001	07/28/19	Home Depot Credit Services	Water QM Staff	154.09
70912	07/30/19	inn002	IN2583804	Innovative Office Solutions LLC	Office Supplies	278.86
70913	07/30/19	int001	W19060511	Office of MN, IT Services	Telephone Expense	55.40
70914	07/30/19	kub001	July, 2019	Kyle W. Kubitz	Employee Reimbursement	34.80
70915	07/30/19	lar002	7/1/19	Andrew S. Larson	Employee Reimbursement	58.00
70916	07/30/19	lea001	06/12/19	League of MN Cities Ins. Trust WC	Insurance Expense	5,428.00
70917	07/30/19	may001	19-08 CS	Dean & Anita Mayfield	Stewardship Grant Fund	3,017.18
70918	07/30/19	mel001	June-July, 2019	Michelle L. Melser	Employee Reimbursement	76.44
70919	07/30/19	min008	20692	Minnesota Native Landscapes, Inc.	Construction Imp.-Maint.	12,070.00
70920	07/30/19	min010	June 26, 2019	MN Public Facilities Authority	Debt Services	85,474.90
70921	07/30/19	min020	206	Minnesota Video Production, LLC	Communications & Marketing	535.00
70922	07/30/19	nar001	IN00114836	Nardini Fire Equipment	Utilities/Bldg. Contracts	1,120.00
70923	07/30/19	ncp001	July 16, 2019	NCPERS Group Life Ins.	Employee Benefits	16.00
70924	07/30/19	nel001	1-710904	Nelson Marine	Water QM Staff	30.00
70925	07/30/19	new002	July, 2019	Kyra L. Newburg	Employee Reimbursement	46.40
70926	07/30/19	nor013	37181	Northern Dewatering, Inc.	Construction-Flood Damage	27,727.28



**Ramsey Washington Metro Watershed Dist.**  
**Check Register**  
**For the Period From Jul 1, 2019 to Jul 31, 2019**

Check #	Date	Payee ID	Invoice #	Payee	Description	Amount
70927	07/30/19	nsp001	646688376	Xcel Energy	Project Operations/Utilities	894.32
70928	07/30/19	out001	19-063	Outdoor Lab Landscape Design, Inc.	Construction Imp.-Maint.	3,285.72
70929	07/30/19	pac001	1912007981	Pace Analytical Services, Inc.	Project Operations	7,487.00
70930	07/30/19	pas002	June-July, 2019	Sage Passi	Employee Reimbursement	185.37
70931	07/30/19	qwe001	July 10, 2019	CenturyLink	Project Operations	230.53
70932	07/30/19	ram002	COR-003278	Ramsey County	Natural Resources Projects	2,975.00
70933	07/30/19	ram002	PRK-001595	Ramsey County	Stewardship Grant Fund	21,780.00
70934	07/30/19	red002	150447514	Redpath & Company, Ltd	June Accounting Services	1,584.98
70935	07/30/19	sch009	23212	Schlomka Services, LLC	Construction Imp.-Maint.	3,020.00
70936	07/30/19	sod001	July, 2019	Nicole Soderholm	Employee Reimbursement	70.04
70937	07/30/19	tes001	S297153-IN	The Tessman Company	Construction Imp.-Maint.	247.50
70938	07/30/19	tim002	M24905	Timesaver Off-Site Secretarial, Inc.	Committee/Board Meeting	250.00
70939	07/30/19	tro002	19-04	Cathy Troendle	Educational Program	120.88
70940	07/30/19	twi001	45135	Twin City Seed Co.	Construction Imp.-Maint.	117.50
70941	07/30/19	usb002	July, 2019	U.S. Bank	June/July Credit Card	10,166.33
70942	07/30/19	van001	67183	Vanguard Cleaning Systems of Minnesota	Utilities/Bldg. Contracts	718.96
70943	07/30/19	voy001	869293423930	US Bank Voyager Fleet Sys.	Vehicle Fuel	637.10
70944V	---	---	19-09 CS	VOID	VOID	-
70945	07/30/19	was002	4540/4554	Washington Conservation District	Water QM/Outside Support	3,286.00
70946	07/30/19	wil007	6/21-7/26/19	Patrick Williamson	Employee Reimbursement	257.59
70947	07/30/19	wal006	19-09 CS	Andrew Walz	Stewardship Grant Fund	720.00
70948	07/30/19	don001	7/31/19	Matthew Doneux	Natural Resources Projects	142.02
70949	07/30/19	twi003	July, 2019	Twin Cities Metro Painting, Inc.	Bldg./Site Maintenance	955.00
<b>Total</b>				<b>Accounts Payable</b>		<b>\$452,009.80</b>
EFT	06/05/19	myp001	06/05/19	June 5th Payroll Fee	4110-101-000	29.95
EFT	06/14/19	myp001	06/14/19	June 14th Payroll Fee	4110-101-000	147.30
EFT	06/28/19	myp001	06/28/19	June 26th Payroll Fee	4110-101-000	73.65
Dir.Dep.	07/12/19	---	Payroll Expense-Net	July 12th Payroll	4010-101-000	26,134.73
EFT	07/12/19	int002	Internal Rev.Serv.	July 12th Federal Withholding	2001-101-000	8,992.61
EFT	07/12/19	mnd001	MN Revenue	July 12th State Withholding	2003-101-000	1,718.14
EFT	07/12/19	per001	PERA	July 12th PERA	2011-101-000	4,541.93
EFT	07/12/19	emp002	Empower Retirement	Employee Def.Comp. Contributions	2016-101-000	2,425.00
EFT	07/12/19	emp002	Empower Retirement	Employee IRA Contributions	2018-101-000	375.00
Dir.Dep.	07/26/19	---	Payroll Expense-Net	July 26th Payroll	4010-101-000	27,655.95
EFT	07/26/19	int002	Internal Rev.Serv.	July 26th Federal Withholding	2001-101-000	9,377.07
EFT	07/26/19	mnd001	MN Revenue	July 26th State Withholding	2003-101-000	1,812.16
EFT	07/26/19	per001	PERA	June 26th PERA	2011-101-000	4,824.98
EFT	07/26/19	emp002	Empower Retirement	Employee Def.Comp. Contributions	2016-101-000	2,425.00
EFT	07/26/19	emp002	Empower Retirement	Employee IRA Contributions	2018-101-000	375.00
				<b>Payroll/Benefits</b>		<b>\$90,908.47</b>
<b>Total</b>				<b>Accounts Payable/Payroll/Benefits:</b>		<b>\$542,918.27</b>

**Ramsey Washington Metro Watershed Dist.**  
**Cash Disbursements Journal**  
**For the Period From July 1, 2019 - July 31, 2019**

Date	Check #	Vendor ID	Name	Account ID	Account Description	Amount	Check Detail
07/01/19	EFT	met003	MetLife-Group Benefits			1,615.20	
				4040-101-000	Employee Benefits-General		1,398.12
				2015-101-000	Employee Health-General		217.08
07/10/19	EFT	hea002	HealthPartners			10,825.13	
				4040-101-000	Employee Benefits-General		9,186.12
				2015-101-000	Employee Health-General		1,639.01
07/03/19	70814V	xio002	Bryan Xiong	4372-101-000	Events	(200.00)	
07/03/19	70873	com004	Comcast	4342-101-000	Utilities/Bldg. Contracts	117.43	
07/03/19	70874	hom001	Home Depot Credit Services	4530-101-000	Water QM Staff-General	168.87	
07/03/19	70875	xio002	Bryan Xiong	4372-101-000	Events	200.00	
07/15/19	70876	aws001	AWS Service Center	4342-101-000	Utilities/Building Contracts	206.83	
07/15/19	70877	ben002	Benefit Extras, Inc.	4040-101-000	Employee Benefits-General	90.00	
07/15/19	70878	car007	Carp Solutions, LLC			7,120.00	
				4670-101-000	Natural Resources Project-General		4,390.00
				4670-101-000	Natural Resources Project-General		2,730.00
07/15/19	70879	cen003	Centerline Charter Corp.	4370-101-000	Educational Program-General	185.00	
07/15/19	70880	cit011	City of Roseville			2,728.00	
				4310-101-000	Telephone-General		304.00
				4325-101-000	IT/Website/Software		2,424.00
07/15/19	70881	dnr001	Department of Natural Resources	4350-101-000	Training & Education	154.00	
07/15/19	70882	gil001	Gilbert Mechanical Contractors, Inc.	4343-101-000	Bldg./Site Maintenance	305.50	
07/15/19	70883	hej001	Hejny Rental	4670-101-000	Natural Resources Project-General	81.74	
07/15/19	70884	lak007	Lakes Aquatic Weed Removal	4670-101-000	Natural Resources Project-General	15,420.00	
07/15/19	70885	mon001	Monarch Bus Service	4370-101-000	Educational Program-General	281.34	
07/15/19	70886	nel001	Nelson Marine	4530-101-000	Water QM Staff-General	7.96	
07/15/19	70887	pre003	Premium Waters, Inc.	4342-101-000	Utilities/Bldg. Contracts	22.00	
07/15/19	70888	san003	Sandstrom Land Management	4630-516-000	Construction Imp.-Maint. & Repair	1,690.00	
07/15/19	70889	spr002	SPRWD	4530-101-000	Water QM Staff-General	102.07	
07/15/19	70890	swo001	Lawrence Swope	4360-101-000	Manager Expenses-General	312.86	
07/15/19	70891	tru002	Trustees of Hamline University	4370-101-000	Educational Program-General	540.14	
07/15/19	70892	tru003	True Cleaning Services, LLC	4343-101-000	Bldg./Site Maintenance	1,800.00	
07/15/19	70893	usb005	US Bank Equipment Finance	4335-101-000	Printing-General	294.00	
07/15/19	70894	van001	Vanguard Cleaning Systems of Minnesota	4342-101-000	Utilities/Bldg. Contracts	550.00	
07/30/19	70895	ada002	Adam's Pest Control	4343-101-000	Bldg./Site Maintenance	79.00000	
07/30/19	70896	att002	AT & T Mobility - ROC	4530-101-000	Water QM Staff-General	85.44	
07/30/19	70897	aut001	Automatic Systems Co.	4530-101-000	Water QM Staff-General	47,846.00	
07/30/19	70898	bar001	Barr Engineering			139,196.95	
				4121-101-000	Engineering Admin-General Fund		7,542.00
				4129-101-000	Project Feasability-General		1,241.10
				4123-101-000	Engineering-Review		3,047.00
				4129-101-000	Project Feasability-General		1,007.50
				4129-101-000	Project Feasability-General		10,781.50
				4129-101-000	Project Feasability-General		3,597.50
				4129-101-000	Project Feasability-General		18,322.76

**Ramsey Washington Metro Watershed Dist.**  
**Cash Disbursements Journal**  
**For the Period From July 1, 2019 - July 31, 2019**

Date	Check #	Vendor ID	Name	Account ID	Account Description	Amount	Check Detail
				4129-101-000	Project Feasability-General		822.50
				4129-101-000	Project Feasability-General		311.00
				4520-101-000	Water QM-Engineering		875.00
				4520-101-000	Water QM-Engineering		2,459.46
				4124-101-000	Engineering-Permit Review		3,391.00
				4128-520-000	Engineering-Flood Damage		17,029.14
				4695-101-000	Research Projects-General		1,836.00
				4695-101-000	Research Projects-General		80.00
				4695-101-000	Research Projects-General		25.50
				4128-553-000	Engineering-Wakefield		3,483.16
				4128-518-000	Engineering-School/Commer Retrofit		875.00
				4128-518-000	Engineering-School/Commer Retrofit		655.50
				4128-518-000	Engineering-School/Commer Retrofit		483.00
				4682-559-000	Stewardship Grant Program		7,619.76
				4128-518-000	Engineering-School/Commer Retrofit		21,806.23
				4128-551-000	Engineering-Markham		1,840.98
				4682-529-000	Stewardship Grant Fund		15,003.90
				4128-554-000	Engineering-Willow Pond		170.50
				4128-516-000	Engineering-Maint. & Repair		9,171.30
				4128-516-000	Engineering-Maint. & Repair		5,718.66
07/30/19	70899	bar004	Deborah Barnes			86.38	
				4040-101-000	Employee Benefits-General		80.00
				4020-101-000	Employee Expenses-General		6.38
07/30/19	70900	bar009	Seth Bartodziej	4020-101-000	Employee Expenses-General	86.71	
07/30/19	70901	cad001	Allstream	4530-101-000	Water QM Staff-General	65.47	
07/30/19	70902	cit001	City of Little Canada	4342-101-000	Utilities/Bldg. Contracts	125.93	
07/30/19	70903	com004	Comcast	4342-101-000	Utilities/Bldg. Contracts	61.93	
07/30/19	70904	dev001	Mark Devine	4682-529-000	Stewardship Grant Fund	11,897.50	
07/30/19	70905	don001	Matthew Doneux			232.18	
				4040-101-000	Employee Benefits-General		76.27
				4020-101-000	Employee Expenses-General		74.14
				4670-101-000	Natural Resources Project-General		81.77
07/30/19	07906	don002	Donnay Homes	2024-101-000	Dev Escrow-General Fund	7,440.00	
07/30/19	70907	fit002	Mary Fitzgerald	4020-101-000	Employee Expenses-General	54.52	
07/30/19	70908	gal001	Galowitz Olson, PLLC	4131-101-000	Atty General-General Fund	4,088.50	
07/30/19	70909	gil001	Gilbert Mechanical Contractors, Inc.	4343-101-000	Bldg./Site Maintenance	532.26	
07/30/19	70910	hil003	Kyle Hildebrandt			258.77	
				4670-101-000	Natural Resources Project-General		73.75

**Ramsey Washington Metro Watershed Dist.**  
**Cash Disbursements Journal**  
**For the Period From July 1, 2019 - July 31, 2019**

Date	Check #	Vendor ID	Name	Account ID	Account Description	Amount	Check Detail
				4020-101-000	Employee Expenses-General		185.02
07/30/19	70911	hom001	Home Depot Credit Services	4530-101-000	Water QM Staff-General	154.09	
07/30/19	70912	inn002	Innovative Office Solutions, LLC	4320-101-000	Office Supplies-General	278.86	
07/30/19	70913	int001	Office of MN, IT Services	4310-101-000	Telephone-General	55.40	
07/30/19	70914	kib001	Kyle W. Kubitza	4020-101-000	Employee Expenses-General	34.80	
07/30/19	70915	lar002	Andrew S. Larson	4020-101-000	Employee Expenses-General	58.00	
07/30/19	70916	lea001	League of MN Cities Trust WC	4480-101-000	Insurance-General	5,428.00	
07/30/19	70917	may001	Dean & Anita Mayfield	4682-529-000	Stewardship Grant Fund	3,017.18	
07/30/19	70918	mel001	Michelle L. Melser	4020-101-000	Employee Expenses-General	76.44	
07/30/19	70919	min008	Minnesota Native Landscapes, Inc.	4630-516-000	Construction Imp.-Maint. & Repair	12,070.00	
07/30/19	70920	min010	MN Public Facilities Authority	4700-526-000	Debt Services-Beltline & Tanners	85,474.90	
07/30/19	70921	min020	Minnesota Video Production, LLC	4371-101-000	Communications & Marketing	535.00	
07/30/19	70922	nar001	Nardini Fire Equipment	4342-101-000	Utilities/Bldg. Contracts	1,120.00	
07/30/19	70923	ncp001	NCPERS Group Life Ins.	2015-101-000	Employee Health-General	16.00	
07/30/19	70924	nel001	Nelson Marine	4530-101-000	Water QM Staff-General	30.00	
07/30/19	70925	new002	Kyra I. Newburg	4020-101-000	Employee Expenses-General	46.40	
07/30/19	70926	nor013	Northern Dewatering, Inc.	4630-520-000	Construction-Flood Damage	27,727.28	
07/30/19	70927	nsp001	Xcel Energy			894.32	
				4342-101-000	Utilities/Building Contracts		651.17
				4650-101-000	Project Operations-General		243.15
07/30/19	70928	out001	Outdoor Lab Landscape Design, Inc.	4630-516-000	Construction Imp.-Maint. & Repair	3,285.72	
07/30/19	70929	pac001	Pace Analytical Services, Inc.	4650-101-000	Project Operations-General	7,487.00	
07/30/19	70930	pas002	Sage Passi			185.37	
				4020-101-000	Employee Expenses-General		102.66
				4370-101-000	Educational Program-General		23.71
				4040-101-000	Employee Benefits-General		59.00
07/30/19	70931	qwe001	CenturyLink	4650-101-000	Project Operations-General	230.53	
07/30/19	70932	ram002	Ramsey County	4670-101-000	Natural Resources Project-General	2,975.00	
07/30/19	70933	ram002	Ramsey County	4682-529-000	Stewardship Grant Fund	21,780.00	
07/30/19	70934	red002	Redpath & Company, Ltd.	4110-101-000	Auditor/Accounting	1,584.98	
07/30/19	70935	sch009	Schlomka Services, LLC	4630-516-000	Construction Imp.-Maint. & Repair	3,020.00	
07/30/19	70936	sod001	Nichole Soderholm			70.04	
				4040-101-000	Employee Benefits-General		40.00
				4020-101-000	Employee Expenses-General		30.04
07/30/19	70937	tes001	The Tessman Company	4630-516-000	Construction Imp.-Maint. & Repair	247.50	
07/30/19	70938	tim002	Timesaver Off-Site Secretarial, Inc.	4365-101-000	Committee/Board Meeting Expense	250.00	
07/30/19	70939	tro002	Cathy Troendle	4370-101-000	Educational Program-General	120.88	
07/30/19	70940	twi001	Twin City Seed Co.	4630-516-000	Construction Imp.-Maint. & Repair	117.50	
07/30/19	70941	usb002	U.S. Bancorp			10,166.33	
				4350-101-000	Training & Education		120.00
				4365-101-000	Committee/Board Meeting Expense		45.72

**Ramsey Washington Metro Watershed Dist.**  
**Cash Disbursements Journal**  
**For the Period From July 1, 2019 - July 31, 2019**

Date	Check #	Vendor ID	Name	Account ID	Account Description	Amount	Check Detail
				4530-101-000	Water QM Staff-General		36.42
				4040-101-000	Employee Benefits-General		62.85
				4320-101-000	Office Supplies-General		72.65
				4040-101-000	Employee Benefits-General		35.90
				4320-101-000	Office Supplies-General		18.41
				4325-101-000	IT/Website/Software		95.82
				4350-101-000	Training & Education		129.35
				4350-101-000	Training & Education		28.64
				4371-101-000	Communications & Marketing		(64.95)
				4530-101-000	Water QM Staff-General		(60.28)
				4350-101-000	Training & Education		530.00
				4682-529-000	Stewardship Grant Fund		95.84
				4670-101-000	Natural Resources Project-General		27.85
				4682-529-000	Stewardship Grant Fund		47.92
				4325-101-000	IT/Website/Software		404.76
				4338-101-000	Dues & Publications		119.00
				4350-101-000	Training & Education		284.76
				4350-101-000	Training & Education		284.76
				4350-101-000	Training & Education		284.76
				4350-101-000	Training & Education		284.76
				4350-101-000	Training & Education		284.76
				4350-101-000	Training & Education		284.76
				4350-101-000	Training & Education		284.76
				4530-101-000	Water QM Staff-General		602.07
				4371-101-000	Communications & Marketing		66.48
				4371-101-000	Communications & Marketing		14.99
				4670-101-000	Natural Resources Project-General		5,373.97
				4840-101-000	Vehicle Maintenance-General		369.60
07/30/19	70942	van001	Vanguard Cleaning Systems of Minnesota	4342-101-000	Utilities/Bldg. Contracts	718.96	
07/30/19	70943	voy001	US Bank Voyager Fleet Sys.	4830-101-000	Vehicle Fuel-General	637.10	
07/30/19	70944V	---	VOID			-	
07/30/19	70945	was002	Washington Conservation District			3,286.00	
				4530-101-000	Water QM Staff-General		111.00
				4683-101-000	Outside Program Support		3,175.00
07/30/19	70946	wil007	Patrick Williamson			257.59	
				4020-101-000	Employee Expenses-General		137.53
				4670-101-000	Natural Resources Project-General		120.06
07/30/19	70947	wal001	Andrew Walz	4682-529-000	Stewardship Grant Fund	720.00	
07/30/19	70948	don001	Matthew Doneux	4670-101-000	Natural Resources Project-General	142.02	
07/30/19	70949	twi003	Twin Cities Metro Painting, Inc.	4343-101-000	Bldg./Site Maintenance	955.00	
<b>Accounts Payable Total:</b>						<b>\$452,009.80</b>	

**Ramsey Washington Metro Watershed Dist.**  
**Cash Disbursements Journal**  
**For the Period From July 1, 2019 - July 31, 2019**

Date	Check #	Vendor ID	Name	Account ID	Account Description	Amount	Check Detail
EFT	06/05/19	myp001	Payroll Fees	4110-101-000	June 5th Payroll Fee	29.95	
EFT	06/14/19	myp001	Payroll Fees	4110-101-000	June 14th Payroll Fee	147.30	
EFT	06/28/19	myp001	Payroll Fees	4110-101-000	June 28th Payroll Fee	73.65	
Dir.Dep.	07/12/19	---	Payroll Expense-Net	4010-101-000	July 12th Payroll	26,134.73	
EFT	07/12/19	int002	Internal Rev.Serv.	2001-101-000	July 12th Federal Withholding	8,992.61	
EFT	07/12/19	mnd001	MN Revenue	2003-101-000	July 12th State Withholding	1,718.14	
EFT	07/12/19	per001	PERA	2011-101-000	July 14th PERA	4,541.93	
EFT	07/12/19	emp002	Empower Retirement	2016-101-000	Employee Def.Comp. Contributions	2,425.00	
EFT	07/12/19	emp002	Empower Retirement	2018-101-000	Employee IRA Contributions	375.00	
Dir.Dep.	07/26/19	---	Payroll Expense-Net	4010-101-000	July 26th Payroll	27,655.95	
EFT	07/26/19	int002	Internal Rev.Serv.	2001-101-000	July 26th Federal Withholding	9,377.07	
EFT	07/26/19	mnd001	MN Revenue	2003-101-000	July 26th State Withholding	1,812.16	
EFT	07/26/19	per001	PERA	2011-101-000	June 28th PERA	4,824.98	
EFT	07/26/19	emp002	Empower Retirement	2016-101-000	Employee Def.Comp. Contributions	2,425.00	
EFT	07/26/19	emp002	Empower Retirement	2018-101-000	Employee IRA Contributions	375.00	
			<b>Payroll/Benefits</b>	<b>Payroll/Benefits</b>		<b>\$90,908.47</b>	
			<b>TOTAL:</b>			<b>\$542,918.27</b>	



**Summary of Professional Engineering Services During the Period  
June 15, 2019 through July 19, 2019**

	Total Engineering Budget (2019)	Total Fees to Date (2019)	Budget Balance (2019)	Fees During Period	District Accounting Code	Plan Implementation Task Number
<b>Engineering Administration</b>						
General Engineering Administration	\$76,000.00	\$46,549.14	\$29,450.86	\$7,542.00	4121-101	DW-13
RWMWD Health and Safety/ERTK Program	\$2,000.00	\$759.00	\$1,241.00		4697-101	DW-13
Educational Program/Educational Forum Assistance	\$20,000.00	\$14,739.10	\$5,260.90	\$1,241.10	4129-101	DW-11
<b>Engineering Review</b>						
Engineering Review	\$55,000.00	\$40,806.16	\$14,193.84	\$3,047.00	4123-101	DW-13
<b>Project Feasibility Studies</b>						
Owasso County Park Stormwater Master Plan and Detailed Design: Phase 1 and Phase 2	\$50,000.00	\$6,239.20	\$43,760.80	\$1,007.50	4129-101	DW-6
Beltline Resiliency and Phalen Chain Water Level Management Study	\$217,000.00	\$71,709.62	\$145,290.38	\$10,781.50	4129-101	BELT-3
Interim emergency response plan funds for top priority District flooding areas (such as Owasso Basin, Willow Creek, PCU Pond, etc)	\$50,000.00	\$648.00	\$49,352.00		4129-101	DW-19
FEMA Flood Mapping Update	\$90,000.00	\$47,231.50	\$42,768.50	\$3,597.50	4129-101	DW-9
Snail, Grass, and West Vadnais outlet permitting with the MndNR	\$100,000.00	\$32,369.26	\$67,630.74	\$18,322.76	4129-101	DW-9
Modeling of 500-year event Atlas 14 District-wide (Climate Change Scenario) and Generation of Flood Maps for Future Outreach Efforts	\$70,000.00	\$2,080.50	\$67,919.50	\$822.50	4129-101	DW-9
Climate Adaption Workshops with Member Cities	\$100,000.00	\$170.00	\$99,830.00		4129-101	DW-9
Hillcrest Golf Course (multi-use)	\$25,000.00	\$0.00	\$25,000.00		4129-101	DW-6
Wetland Restoration site search. BWSR criteria needed to help guide this idea.	\$25,000.00	\$15,065.00	\$9,935.00	\$311.00	4129-101	DW-1, DW-8
Gold BRT planning	\$20,000.00	\$0.00	\$20,000.00		4129-101	DW-6
Priority Pond Assessment (WQ Monitor/Dredge/Treat/Leave As-Is)	\$20,000.00	\$275.50	\$19,724.50		4129-101	DW-5
Contingency*	\$20,000.00	\$3,233.00	\$16,767.00		4129-101	
<b>GIS Maintenance</b>						
GIS Maintenance	\$5,000.00	\$341.50	\$4,658.50		4170-101	DW-13
<b>Monitoring Water Quality/Project Monitoring</b>						
Lake Water Quality Monitoring (Misc QA/QC)	\$10,000.00	\$340.00	\$9,660.00		4520-101	DW-2
Auto lake monitoring system for Grass Lake	\$20,000.00	\$0.00	\$20,000.00		4520-101	DW-18
Auto lake monitoring system for Owasso Lake	\$20,000.00	\$4,158.50	\$15,841.50		4520-101	DW-18
Auto lake monitoring system for Phalen Lake	\$20,000.00	\$4,799.50	\$15,200.50		4520-101	DW-18
Auto lake monitoring system for Snail Lake	\$20,000.00	\$0.00	\$20,000.00		4520-101	DW-18
Auto lake monitoring system for Wabasso Lake	\$20,000.00	\$4,818.50	\$15,181.50	\$875.00	4520-101	DW-18
Special Project BMP Monitoring (Maplewood Mall, Frost Kennard Spent Lime Filter, Willow Pond CMAC)	\$25,000.00	\$15,168.30	\$9,831.70	\$2,459.46	4520-101	DW-12
<b>Permit Processing, Inspection and Enforcement</b>						
Permit Application Inspection and Enforcement	\$10,000.00	\$106.00	\$9,894.00		4122-101	DW-7
Permit Application Review	\$55,000.00	\$28,166.50	\$26,833.50	\$3,391.00	4124-101	DW-7
<b>Lake Studies/WRPPs/TMDL Reports</b>						
2019 Grant Applications	\$30,000.00	\$144.00	\$29,856.00		4661-101	--
Tanners Flood Response Tool Model Update	\$3,000.00	\$1,545.00	\$1,455.00		4661-101	TaL-1
Internal Load Management Discussions	\$10,000.00	\$1,826.00	\$8,174.00		4661-101	KL-2, GC-2, WL-3, BL-3, BCL-2, LE-4, BeL-3, LO-5
Twin Lake Public Meeting	\$20,000.00	\$14,522.12	\$5,477.88		4129-101	DW-19
Twin Lake Emergency Response Management 2019		\$52,021.18	-\$52,021.18	\$17,029.14	4128-520	
Contingency for Lake Studies	\$5,000.00	\$0.00	\$5,000.00		4661-101	
<b>Research Projects</b>						
New Technology Mini Case Studies (average 6 per year)	\$12,000.00	\$9,863.50	\$2,136.50	\$1,836.00	4695-101	DW-12
Kohlman Permeable Weir Test System - Implement Monitoring Plan	\$15,000.00	\$10,327.10	\$4,672.90	\$80.00	4695-101	DW-12
Iron aggregate pond application research project	\$20,000.00	\$221.00	\$19,779.00	\$25.50	4695-101	DW-12
<b>Project Operations</b>						
2018 Tanners Alum Facility Monitoring	\$15,000.00	\$11,959.50	\$3,040.50		4650-101	TaL-3
<b>Capital Improvements</b>						
Wakefield Park/Frost Avenue Stormwater Project	\$175,000.00	\$62,722.30	\$112,277.70	\$3,483.16	4128-553	WL-1
Commercial Sites Retrofit Projects 2018 (Targeted Retrofits)	\$55,000.00	\$7,077.20	\$47,922.80	\$875.00	4128-518	DW-6
School Sites Retrofit Projects 2018 (Targeted Retrofits)	\$55,000.00	\$17,550.00	\$37,450.00	\$655.50	4128-518	DW-6
Church Sites Retrofit Projects 2018 (Targeted Retrofit)	\$55,000.00	\$12,561.50	\$42,438.50	\$483.00	4128-518	DW-6
Roseville High School Campus Stormwater Retrofit (Bennett Lake Subwatershed)	\$125,000.00	\$23,026.52	\$101,973.48		4128-518	BeL-4
BMP Incentive Fund: Gen1 BMP Design Assistance and Review (cases where Dist is approached by landowner, or landowner is not commercial, school, church).	\$50,000.00	\$40,400.26	\$9,599.74	\$7,619.76	4682-529	DW-6
Lowering West Vadnais Lake Outlet	\$50,000.00	\$0.00	\$50,000.00		4128-520	DW-9
Cottage Place Wetland Restoration	\$100,000.00	\$51,775.22	\$48,224.78	\$21,806.23	4128-518	DW-1, DW-8
Markham Pond Aeration Project and Grant Reporting	\$1,000.00	\$3,695.98	-\$2,695.98	\$1,840.98	4128-551	KC-1
Aldrich Arena Plans and Specifications	\$125,000.00	\$119,291.64	\$5,708.36	\$15,003.90	4682-529	DW-6
Willow Pond CMAC Implementation	\$100,000.00	\$128,812.11	-\$28,812.11	\$170.50	4128-554	BeL-4
<b>CIP Project Repair &amp; Maintenance</b>						
Kohlman Lake Macrophyte Mgmt	\$5,000.00	\$4,032.00	\$968.00		4695-101	KL-3
Routine CIP Inspection and Unplanned Maintenance Identification	\$75,000.00	\$58,901.20	\$16,098.80	\$9,171.30	4128-516	DW-5
2019 CIP Maintenance and Repairs	\$150,000.00	\$88,967.85	\$61,032.15	\$5,718.66	4128-516	DW-5
2020 CIP Maintenance and Repairs	\$150,000.00	\$0.00	\$150,000.00		4128-516	DW-5

\*Final edits to Beaver, Owasso and Battle Creek Lakes Subwatershed Feasibility Studies per Board comments at the 1/2/19 meeting.

Subtotal \$139,196.95

TOTAL PAYABLE FOR PERIOD 06/15/2019 - 07/19/2019

**\$139,196.95**

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

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  
July 24, 2019  
File No: 9M

General Account

Balance  
\$4,088.50



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# Permit Program

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# Permit Application Coversheet

Date August 07, 2019

Project Name Battle Creek Playground

Project Number 19-33

Applicant Name Benjamin Karp, Ramsey County Parks & Rec

Type of Development Park/Green Space

## Property Description

This project is located in Battle Creek Regional Park near Upper Afton Road in the City of Maplewood. The total site area is 1.24 acres. The applicant is proposing to relocate the park's play area due to its existing location within a floodplain and frequent inundation in recent years. New amenities will include a nature play area, zip line, interactive water feature, and permeable asphalt trails. A rain garden will be constructed to treat stormwater. Pretreatment will include vegetated filter strips.

## Watershed District Policies or Standards Involved:

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

## Water Quantity Considerations

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

## Water Quality Considerations

### *Short Term*

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

### *Long Term*

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

## Staff Recommendation

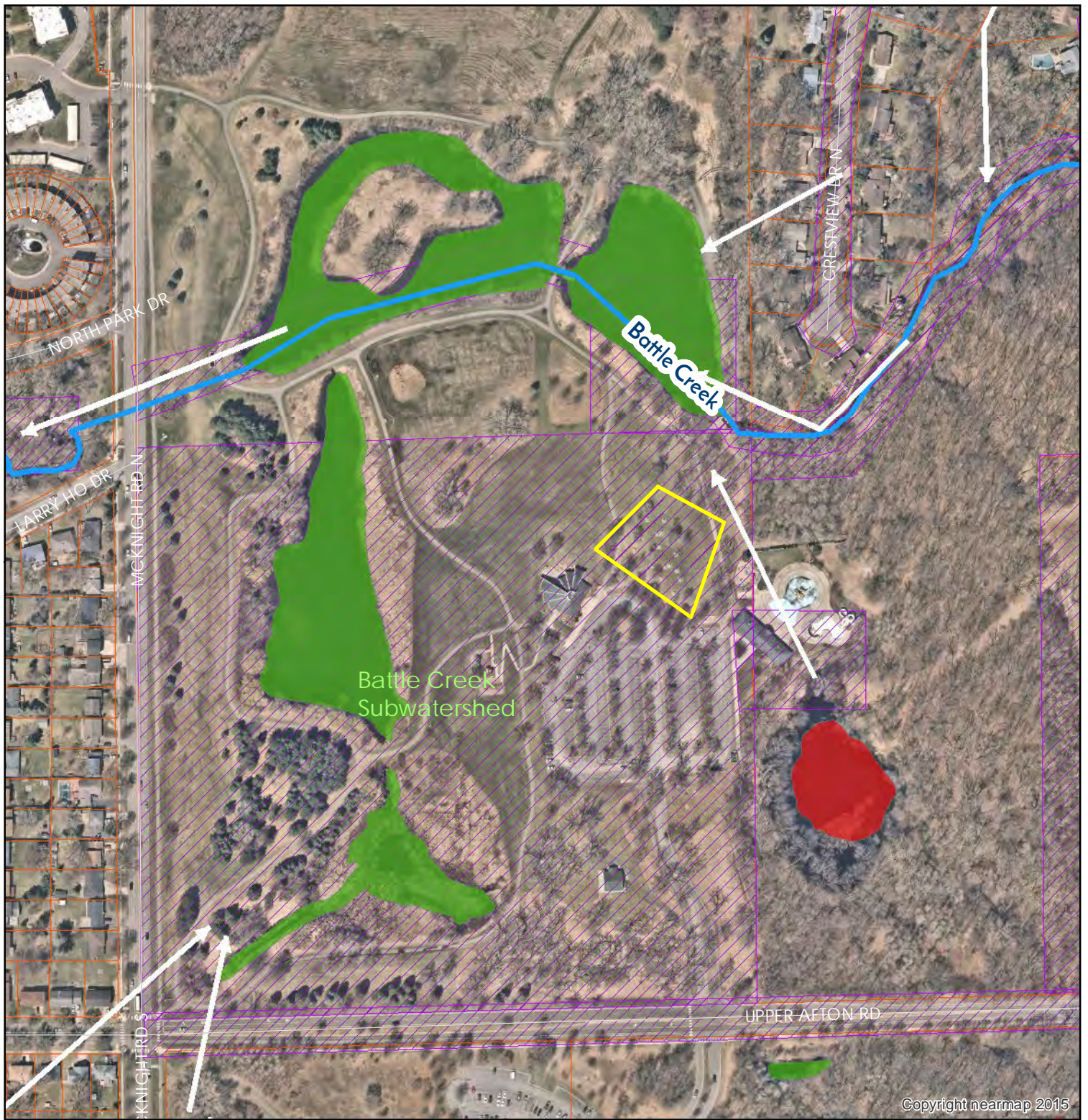
Staff recommends approval of this permit with the special provisions.

## Attachments:

- ☒ Project Location Map
- ☒ Project Grading Plan

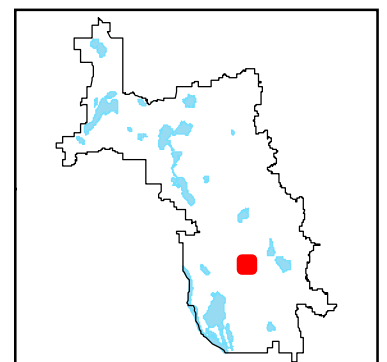
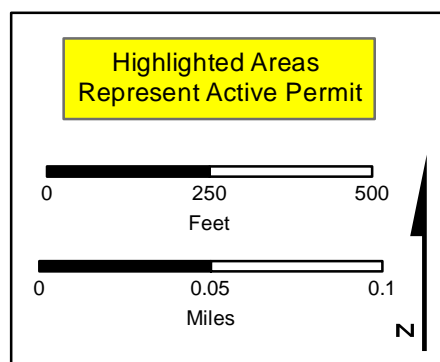


# #19-33 Battle Creek Playground



Wetlands	
<span style="color: red;">■</span>	Manage A
<span style="color: green;">■</span>	Manage B
<span style="color: blue;">■</span>	Manage C
<span style="color: lightblue;">■</span>	Lake
<span style="color: gray;">■</span>	Sediment Pond
<span style="color: purple;">■</span>	Not Assessed

<span style="border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>	RWMWD Boundary
<span style="color: white;">→</span>	Flow Arrows
<span style="color: green;">→</span>	Major Flow Arrows
<span style="border: 1px dashed green; display: inline-block; width: 20px; height: 10px;"></span>	Subwatersheds
<span style="color: blue;">—</span>	Creeks
<span style="border: 1px dashed purple; display: inline-block; width: 20px; height: 10px;"></span>	Permits
<span style="border: 1px solid orange; display: inline-block; width: 20px; height: 10px;"></span>	Ramsey Co Parcels





### Special Provisions

1. The applicant shall submit a final, signed copy of the construction plans.
2. The applicant shall submit 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 for the project.



# Permit Application Coversheet

Date August 07, 2019

Project Name 3M Building 301 H Annex

Project Number 19-34

Applicant Name Kevin Bloom, 3M Company

Type of Development Office

---

## Property Description

This project is located on the southwest portion of the 3M campus. The total site area is 2.3 acres. The applicant is proposing to construct a new building and realign 4th Street from Avenue F to Hudson Road including sidewalks, loading dock, and parking lot entrances. An underground infiltration system is proposed to treat stormwater. Pretreatment will include sumped inlets with SAFL baffles. The project will result in a 0.2 acre decrease in impervious area. A bid alternate for the project has also been submitted which includes an expanded underground treatment system in order to bank the extra volume reduction credits for future projects.

---

## Watershed District Policies or Standards Involved:

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

---

## Water Quantity Considerations

There are no water quantity considerations.

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## 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

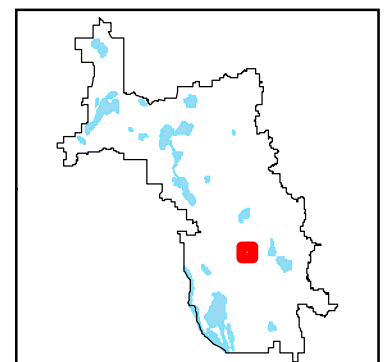
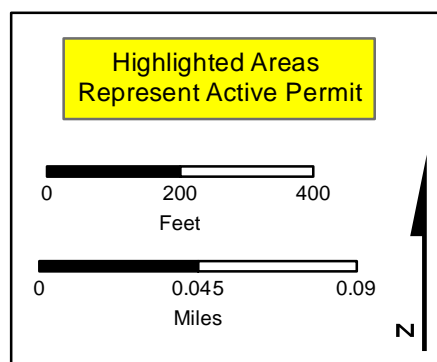


# #19-34 3M Building 301H Annex



Wetlands	
<span style="display:inline-block; width:15px; height:15px; background-color:red;"></span>	Manage A
<span style="display:inline-block; width:15px; height:15px; background-color:green;"></span>	Manage B
<span style="display:inline-block; width:15px; height:15px; background-color:blue;"></span>	Manage C
<span style="display:inline-block; width:15px; height:15px; background-color:lightblue;"></span>	Lake
<span style="display:inline-block; width:15px; height:15px; background-color:gray;"></span>	Sediment Pond
<span style="display:inline-block; width:15px; height:15px; background-color:purple;"></span>	Not Assessed

<span style="display:inline-block; width:20px; height:10px; border:1px solid black;"></span>	RWMWD Boundary
<span style="display:inline-block; width:20px; height:10px; border:2px dashed orange;"></span>	WMU
<span style="display:inline-block; width:20px; height:10px; border-bottom:1px solid black;"></span>	Flow Arrows
<span style="display:inline-block; width:20px; height:10px; border-bottom:2px solid green;"></span>	Major Flow Arrows
<span style="display:inline-block; width:20px; height:10px; border:1px dashed green;"></span>	Subwatersheds
<span style="display:inline-block; width:20px; height:10px; border-bottom:2px solid blue;"></span>	Creeks
<span style="display:inline-block; width:20px; height:10px; border:1px dashed purple;"></span>	Permits
<span style="display:inline-block; width:20px; height:10px; border:1px solid orange;"></span>	Ramsey Co Parcels

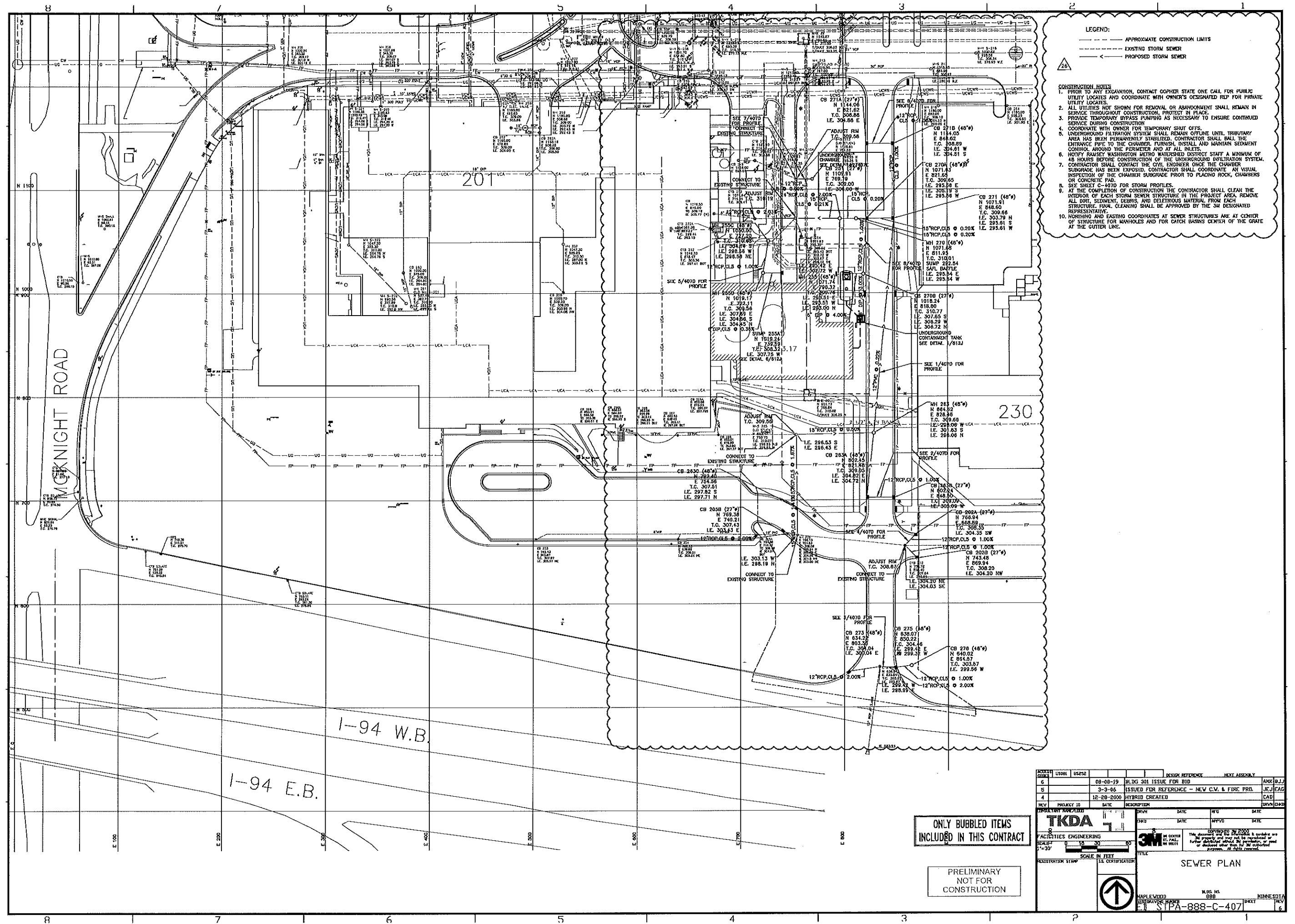




### Special Provisions

1. The applicant shall submit the escrow of \$11,500.
2. The applicant shall submit a signed joint maintenance agreement with the City of Maplewood for the proposed stormwater facilities.
3. The applicant shall submit the final geotechnical report.
4. The applicant shall revise the plans:
  - A. Include the BMP outlet location and detail.
  - B. Include inspection manholes on plan view.
  - C. Label 100-year BMP High Water Level on detail Sheet C407E.
  - D. Denote stabilized construction entrance location(s) on erosion control plan and add symbology to legend.
5. The applicant shall submit a final, signed copy of the construction plans.
6. The applicant shall provide contact information for the trained erosion control coordinator responsible for implementing the Stormwater Pollution Prevention Plan (SWPPP).
7. The applicant shall submit a copy of the approved Minnesota Pollution Control Agency's NPDES Construction Permit for the project.





# Permit Application Coversheet

Date August 07, 2019

Project Name 17th & 3rd Townhomes

Project Number 19-35

Applicant Name Paul Bruggeman, Bruggeman Builders

Type of Development Residential

## Property Description

This project is located northeast of 17th Avenue East and Delaware Avenue in the City of North St. Paul. The total site area is 2.48 acres. The applicant is proposing to construct townhomes with a residential street connection. An infiltration basin and wet pond are proposed to treat stormwater. Pretreatment will also include vegetated swales.

## Watershed District Policies or Standards Involved:

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

## Water Quantity Considerations

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

## Water Quality Considerations

### *Short Term*

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

### *Long Term*

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

## Staff Recommendation

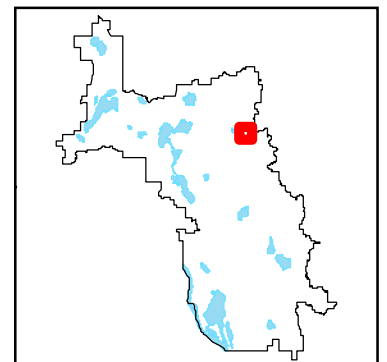
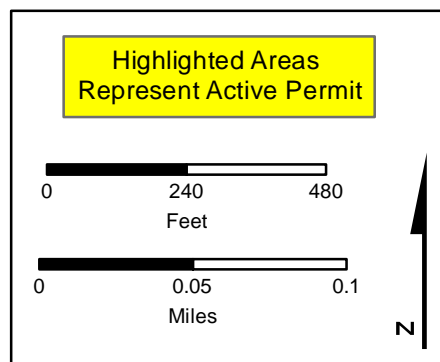
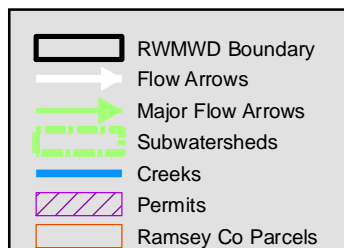
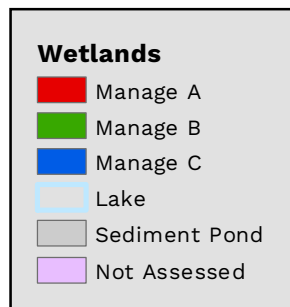
Staff recommends approval of this permit with the special provisions.

## Attachments:

- ☒ Project Location Map
- ☒ Project Grading Plan



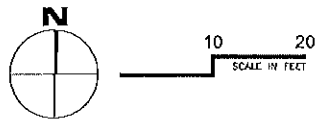
# #19-35 17th and 3rd Townhomes





### Special Provisions

1. The applicant shall submit the escrow of \$12,400.
2. The applicant shall revise the plans:
  - A. Label elevations on the infiltration basin detail Sheet C5.1.
  - B. Add a detail for the infiltration basin outlet structure.
  - C. Add a typical section for the pretreatment wet pond to demonstrate how the Normal Water Level will be sustained and prevent lateral seepage into the infiltration basin.
  - D. Label High Water Level for the wet pond.
  - E. Revise SWPPP Phasing Note 4 to remove reference to wetland.
3. The applicant shall submit a final, signed copy of the construction plans.
4. The applicant shall submit a signed maintenance agreement for the proposed stormwater facilities.
5. The applicant shall submit a draft, site-specific BMP Operations & Maintenance Plan.
6. The applicant shall submit the final geotechnical report.
7. The applicant shall provide contact information for the trained erosion control coordinator responsible for implementing the Stormwater Pollution Prevention Plan (SWPPP).
8. The applicant shall submit a copy of the approved Minnesota Pollution Control Agency's NPDES Construction Permit for the project.



## GRADING LEGEND:

- MANHOLE
- CATCHBASIN
- APRON
- FLOW ARROW
- SPOT ELEVATION
- PROPOSED MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- EXISTING MAJOR CONTOUR
- TIP-OUT CURB AND GUTTER
- R-PRAP
- VEGETATED SWALE

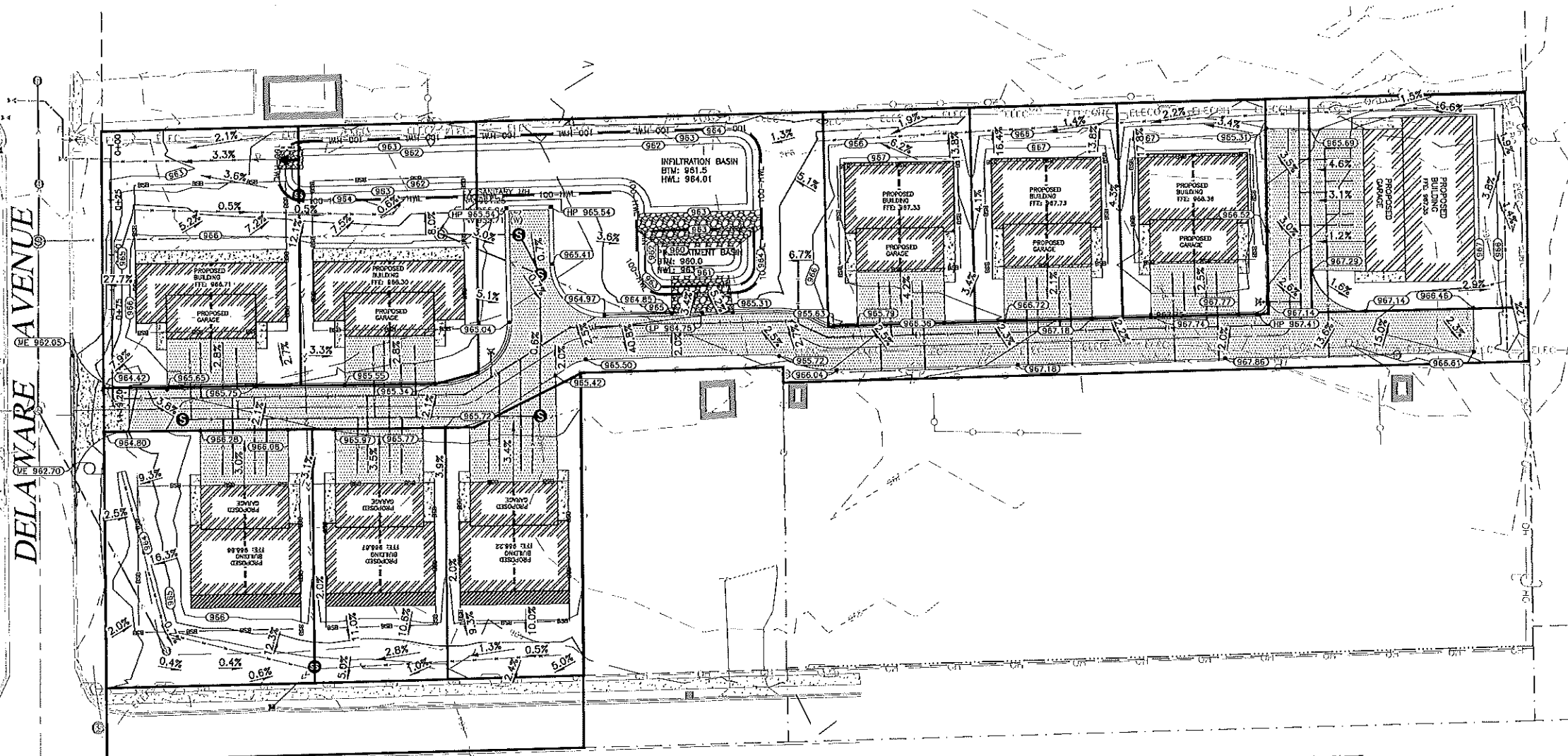
## GENERAL GRADING AND DRAINAGE NOTES:

- ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE IN PLACE BEFORE BEGINNING SITE GRADING ACTIVITIES.
- CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING QUANTITIES OF CUT, FILL AND WASTE MATERIAL TO BE HANDLED, AND FOR THE AMOUNT OF GRADING TO BE DONE. ALL COSTS ASSOCIATED WITH IMPORTING SUITABLE MATERIAL AND EXPORTING UNSUITABLE/EXCESS/WASTE MATERIAL SHALL BE INCLUDED IN THE BID PRICE.
- CONTRACTOR SHALL STRIP, STOCKPILE AND RE-SPREAD EXISTING ON-SITE TOPSOIL, IF MATERIAL IS APPROVED BY THE LANDSCAPE ARCHITECT AND/OR SPECIFICATIONS. PROVIDE A UNIFORM THICKNESS OF 6" MINIMUM IN ALL DISTURBED AREAS TO BE LANDSCAPED.
- CONTRACTOR SHALL DISPOSE OF ANY EXCESS SOIL MATERIAL UNLESS OTHERWISE DIRECTED.
- REFER TO LANDSCAPE PLAN FOR PERMANENT TURF RESTORATION AND PLANTING INFORMATION.
- MAINTAIN TEMPORARY PROTECTION MEASURES DURING CONSTRUCTION ACTIVITIES. SEE SITE REMEDIALS PLAN FOR ADDITIONAL INFORMATION. PROVIDE ADDITIONAL PROTECTION AS NECESSARY AS WORK PROGRESSES.
- SEE CIVIL SITE PLAN FOR SITE LAYOUT.
- PROPOSED CONTOURS AND SPOT ELEVATIONS ARE TO FINISHED SURFACE GRADE.
- SPOT ELEVATIONS SHOWN ADJACENT TO CURB REFER TO GUTTER/FLOW LINE. SPOT ELEVATION SHOWN FOR TOP OF CURB ARE LABELED WITH TO (TOP OF CURB). SPOT LABELED ME REFERS TO MATCH EXISTING GRADE. EOV REFERS TO EMERGENCY OVERFLOW ELEVATION, TW REFERS TO TOP OF WALL AND BW REFERS TO BOTTOM OF WALL. HP REFERS TO HIGH POINT AND LP REFERS TO LOW POINT.
- PROVIDE POSITIVE DRAINAGE AWAY FROM BUILDINGS AT ALL TIMES.
- NO GRADED SLOPES SHALL EXCEED 3:1 (HORIZONTAL TO VERTICAL) UNLESS OTHERWISE NOTED.
- UNIFORMLY GRADE AREAS WITHIN LIMITS OF GRADING AND PROVIDE A SMOOTH FINISHED SURFACE WITH UNIFORM SLOPES BETWEEN POINTS WHERE ELEVATIONS ARE SHOWN OR BETWEEN SUCH POINTS AND EXISTING GRADES.
- LIMIT THE DISTURBED AREA AS MUCH AS POSSIBLE AND CONDUCT GRADING OPERATIONS IN A MANNER TO MINIMIZE THE POTENTIAL FOR EROSION.
- PIPE LENGTH INCLUDES THE LENGTH OF THE APRON.

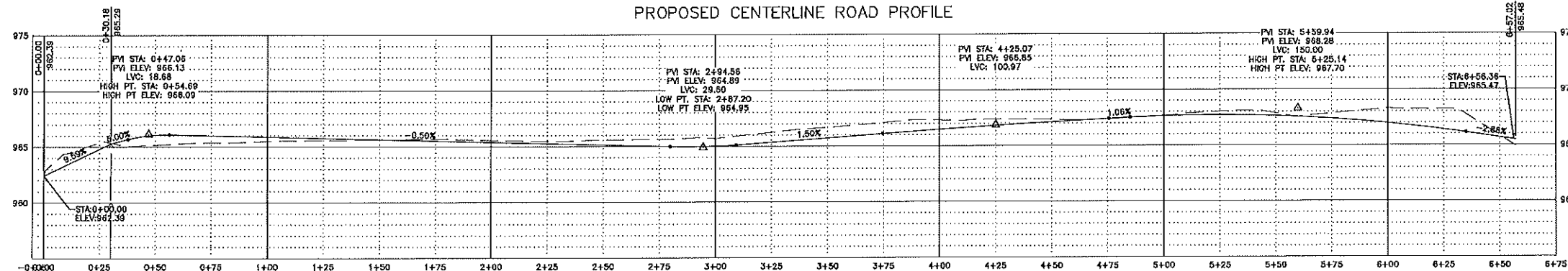
## CUT/ FILL SUMMARY

TOTAL CUT	1915 CY
TOTAL FILL	1997 CY
NET CUT/FILL	82 CY OF FILL

CUT AND FILL IS FROM EXISTING GRADE TO FINISHED GRADE AND DOES NOT ACCOUNT FOR SUB-GRADE MODIFICATIONS



## PROPOSED CENTERLINE ROAD PROFILE



STATE LAW: 48 HOURS BEFORE EXCAVATION OR DEMOLISHING BUILDINGS, CALL 811 FOR FIELD LOCATION OF UNDERGROUND UTILITY LINES. THIS SERVICE LOCATES UTILITY OWNED LINES BUT NOT PRIVATE LINES.

THE LOCATIONS OF UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED. THE EXACT LOCATION OF ALL UTILITIES (PUBLIC AND PRIVATE) MUST BE DETERMINED BEFORE COMMENCING WORK.



THESE PLANS AND SPECIFICATIONS ARE 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.

**NOT FOR CONSTRUCTION**

DATE: 07/19/2019

DATE	REV.	DESCRIPTION

17TH &amp; 3RD TOWNHOMES NSP

3RD ST N AND 17TH AVE  
NORTH SAINT PAUL, MN 55109

GRADING PLAN

JOB No: 181076  
DATE: 07/19/2019  
DRAWN BY: WNW  
DESIGNED BY: ECR

SHEET:

C3.0

# Permit Application Coversheet

Date August 07, 2019

Project Name Luther Cadillac

Project Number 19-36

Applicant Name Linda McGinty, The Luther Company, LLLP

Type of Development Commercial/Retail

## Property Description

This project is located east of Highway 61 at Willow Lake Boulevard in the cities of Vadnais Heights and Gem Lake. The total site area is 7.72 acres. The applicant is proposing to construct a Cadillac dealership with associated parking, drive lanes, and sidewalks. An underground detention system with proprietary filtration cartridges is proposed to treat stormwater. Filtration is being proposed due to poor soils. Pretreatment will include weirs and baffles. The site was assessed in 2018 for wetlands, and none were identified on the site. The applicant received Wetland Conservation Act (WCA) approval on 10/24/18 (#18-17 WCA).

## Watershed District Policies or Standards Involved:

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

## Water Quantity Considerations

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

## Water Quality Considerations

### *Short Term*

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

### *Long Term*

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

## Staff Recommendation

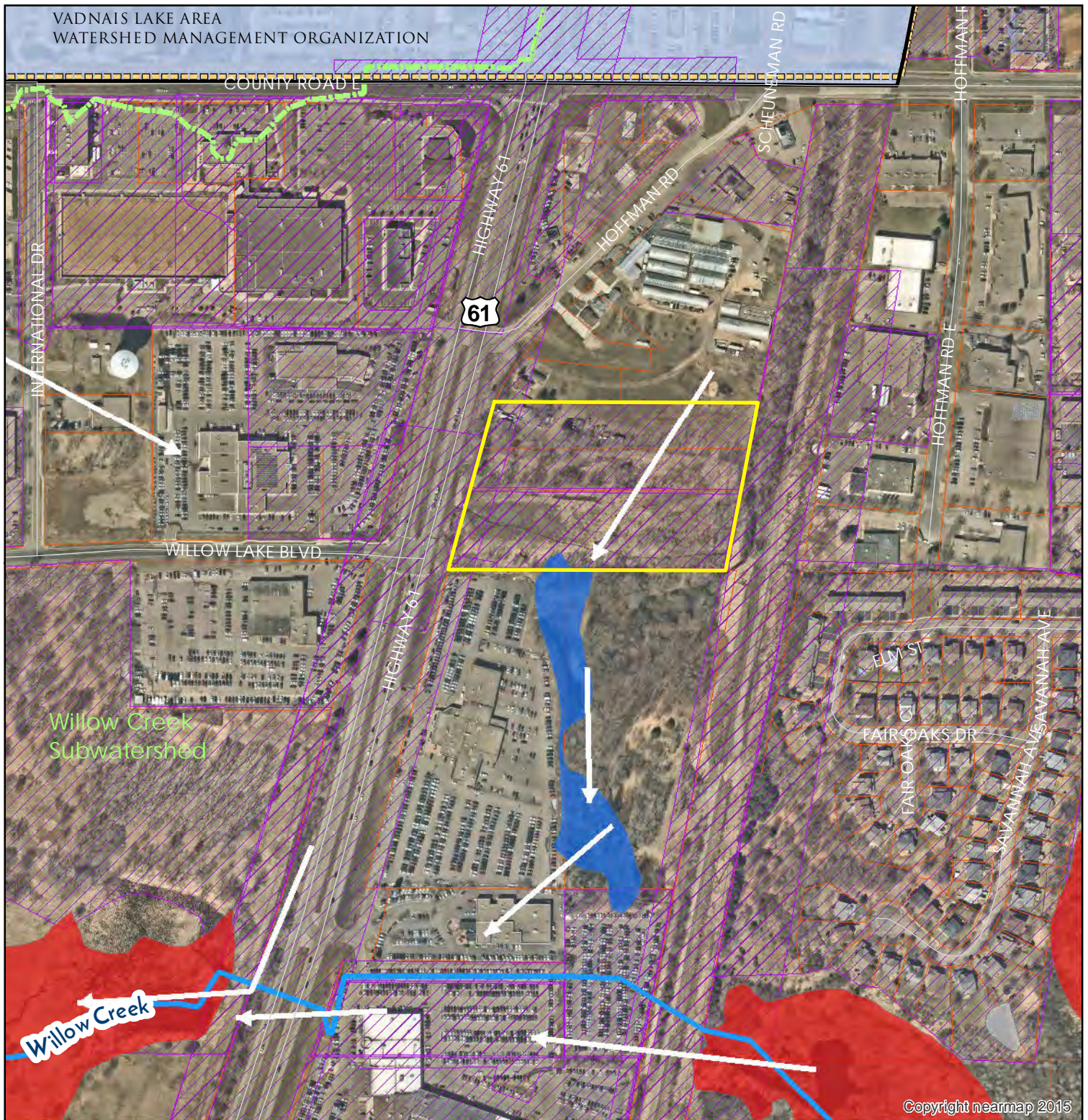
Staff recommends approval of this permit with the special provisions.

## Attachments:

- ☒ Project Location Map
- ☒ Project Grading Plan



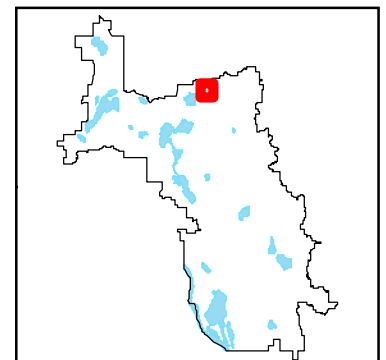
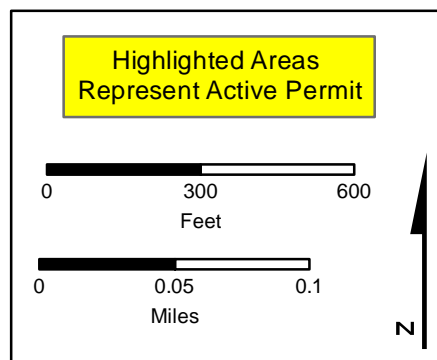
# #19-36 Luther Cadillac



Note: Shaded area is outside RWMWD

Wetlands	
<span style="color: red;">■</span>	Manage A
<span style="color: green;">■</span>	Manage B
<span style="color: blue;">■</span>	Manage C
<span style="color: lightblue;">■</span>	Lake
<span style="color: gray;">■</span>	Sediment Pond
<span style="color: purple;">■</span>	Not Assessed

<span style="border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>	RWMWD Boundary
<span style="border: 1px dashed orange; display: inline-block; width: 20px; height: 10px;"></span>	WMU
<span style="color: white;">→</span>	Flow Arrows
<span style="color: green;">→</span>	Major Flow Arrows
<span style="border: 1px dashed green; display: inline-block; width: 20px; height: 10px;"></span>	Subwatersheds
<span style="color: blue;">—</span>	Creeks
<span style="background: repeating-linear-gradient(45deg, transparent, transparent 2px, purple 2px, purple 4px); display: inline-block; width: 20px; height: 10px;"></span>	Permits
<span style="border: 1px solid orange; display: inline-block; width: 20px; height: 10px;"></span>	Ramsey Co Parcels

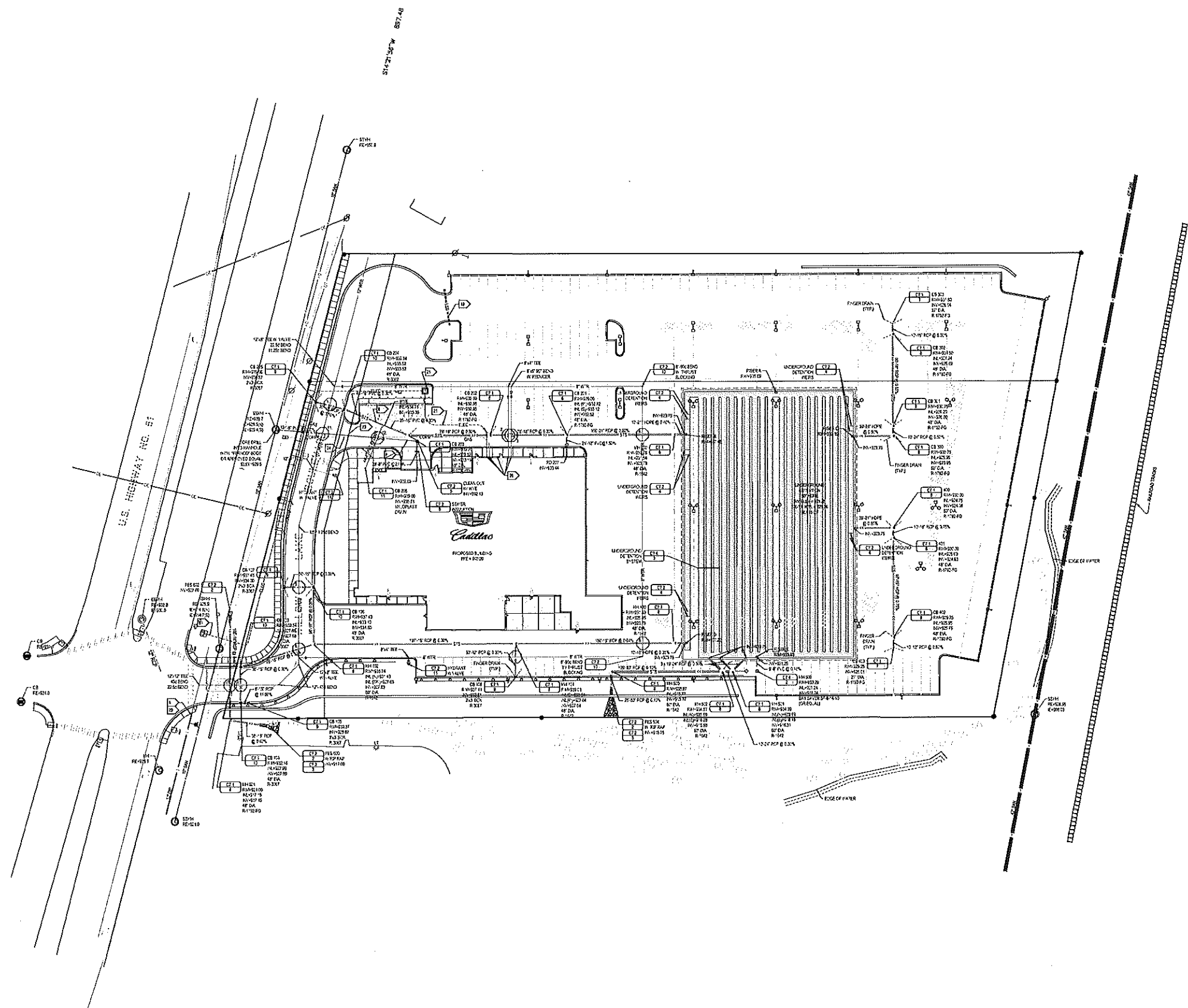




### Special Provisions

1. The applicant shall submit the escrow of \$38,600.
2. The applicant shall submit a final, signed copy of the construction plans.
3. The applicant shall submit a signed maintenance agreement for the proposed stormwater facilities.
4. The applicant shall submit a draft, site-specific BMP Operations & Maintenance Plan.
5. The applicant shall submit contact information for the trained erosion control coordinator responsible for implementing the Stormwater Pollution Prevention Plan (SWPPP).
5. The applicant shall provide a copy of the approved Minnesota Pollution Control Agency's NPDES Construction Permit for the project.







# RAMSEY-WASHINGTON

## METRO WATERSHED DISTRICT

### MEMORANDUM

**Date:** August 7, 2019  
**To:** Board of Managers and Staff  
**From:** Nicole Soderholm, Permit Coordinator  
**Subject:** July Enforcement Action Report

During July 2019:

<b>Number of Violations:</b>	<b>7</b>
Install/Maintain Inlet Protection	1
Install/Maintain Perimeter Control	2
Install/Maintain Construction Entrance	1
Stabilize Exposed Soils	1
Contain/Dispose of Liquid and Solid Waste	1
Remove Discharged Sediment	1

#### Activities:

Permitting assistance to private developers and public entities, permit review with Barr Engineering, miscellaneous inquiries, site inspections and reporting, WCA administration/procedures, underground BMP maintenance inspections

#### Project Updates:

Permit #19-13 FHR Storage Facility, St. Paul

Work is slated to begin soon on the Flint Hills storage facility off Childs Road by the Mississippi River in St. Paul. Staff completed an initial erosion control inspection prior to the start of the project on July 24<sup>th</sup>. All practices were in place, and the site was compliant.

Permit #19-03 Keller Practice Range Phase 2, Maplewood

Staff completed inspections of the site on July 3<sup>rd</sup> and July 17<sup>th</sup>. The contractor has begun installing the pervious pavement and is getting ready to excavate the filtration basin. In order to protect the filtration basin from rain, the bottom will not be excavated to final grade until

the contributing areas are ready for permanent stabilization. The project was permitted as filtration, but discovery of sand with clay soil lenses may be conducive for infiltration. The drain tile will be installed with a gate valve such that the basin is allowed to infiltrate. If the basin holds water too long, the gate valve can be opened to activate the drain tile to achieve the required 48-hour drawdown.

#### Permit #15-09 Cardinal Glen, North St. Paul

Work has been wrapped up at the Cardinal Glen residential development in North St. Paul for some time. The permit remains open due to drawdown issues with the infiltration basin constructed for the project. The developer requested a final inspection on July 23<sup>rd</sup>. When staff visited the site, it was confirmed that the basin is still not functioning and is dominated by cattails. It was communicated to the developer that the permit will not be closed and escrow will be withheld until the basin is repaired and functioning as designed.

#### Permit #19-24 Woodbury Middle School

Work continues on the Woodbury Middle School parking lot. The project began in early July. Staff completed inspections of the site on July 3<sup>rd</sup> and July 17<sup>th</sup>. Routine street sweeping and soil stabilization were noted on the latest inspection report.

#### Permit #18-07 Wakefield Park Improvements (Phase 1), Maplewood

The first phase of the Wakefield Park project is wrapping up. This work included a new building and retrofit of the parking lot. A large rain garden was repaired and expanded as part of this project. Staff visited the site on July 23<sup>rd</sup> to check on vegetation establishment. The site is nearly at 70% coverage throughout, and the permit should be able to be closed soon. Some of the silt fence was OK'd for removal. As-built plans were requested.

#### Permit #18-19 Roseville Area High School Remodel

Work continues on Roseville High School. Staff completed inspections of the site on July 3<sup>rd</sup> and July 17<sup>th</sup>. Items like routine street sweeping and inlet protection maintenance were noted on the latest inspection. One of the underground filtration systems installed for this project required maintenance and added protection from erosion. The systems are to remain offline for the duration of the project, but the location of the system has not been paved over yet and may be vulnerable to adjacent sediment and construction traffic. Better protection including maintenance of existing fence was requested.

#### Permit #15-16 Sherwood Parkview, Maplewood

Work has been largely complete at the Sherwood residential subdivision for some time. The filtration basin constructed for the project became overrun with weeds and invasive species during the home construction. The builder hired a landscaping contractor last year to reestablish the basin with native species. A site visit on July 23<sup>rd</sup> confirmed the basin is established with native species, and the permit was closed. The landscaping contractor will continue maintenance into 2020 at the builder's expense to ensure the continuation of the native species.

#### **Permits Closed in July 2019:**

15-16 Sherwood Parkview, Maplewood

16-21 Tartan High School Field Improvements, Oakdale

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# Stewardship Grant Program

\*\*\*\*\*

## Stewardship Grant Application Summary

**Project Name:** Negosso

**Application Number** 19-19 CS

**Board Meeting Date:** 8/7/2019

**Applicant Name:** Aman Negosso

**Residential** ☒

**Commercial/Government** ☐

### Project Overview:

This project is located off Belmont Ln and 6th St N in North St. Paul. The homeowner has experienced ongoing drainage issues including water in his basement and garage after snowmelt and after heavy rains. Project plans include a rain garden to capture runoff from this property and the neighboring property. The porous driveway and bioswale will capture and redirect stormwater that otherwise impacts the garage. Total project cost is estimated at \$23,000. Other bids came in over \$50,000. The project is eligible for 75% coverage up to \$15,000. The homeowner looked at phasing the work, but the contract cost was less expensive when lumped as one project. For that reason, the applicant is requesting additional funds rather than postponing phase 2 to next year.

### BMP type(s):

Porous Pavers(1), Rain Garden(1)

### Grant Request:

\$17,250.00

### Recommendation:

Staff recommends approval of this application.

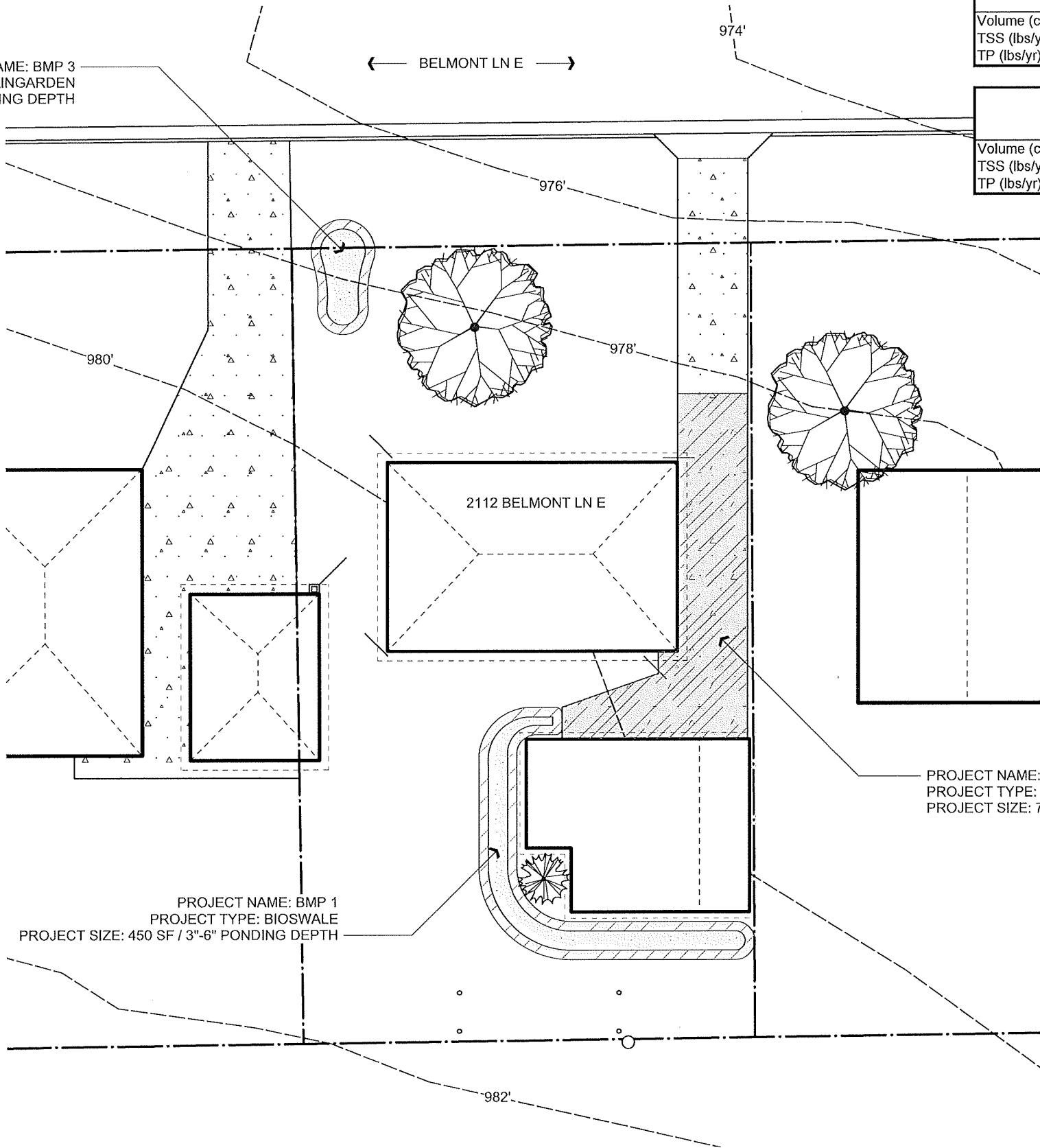
### Subwatershed:

Kohlman Creek

### Location Maps:



PROJECT NAME: BMP 3  
PROJECT TYPE: RAINGARDEN  
PROJECT SIZE: 160 SF / 6" PONDING DEPTH



Pollutant Reductions: BMP 1-2 (Combined)				
	Before	After	Reduction	Red. %
Volume (cu-ft/yr)	16914.00	657	16,257	96%
TSS (lbs/yr)	57.60	0.40	57.20	99%
TP (lbs/yr)	0.3170	0.0060	0.3110	98%

Pollutant Reductions: BMP 3				
	Before	After	Reduction	Red. %
Volume (cu-ft/yr)	2792.00	217	2,575	92%
TSS (lbs/yr)	9.50	0.80	8.70	92%
TP (lbs/yr)	0.0530	0.0040	0.0490	92%

PROJECT NAME: BMP 2  
PROJECT TYPE: PERMEABLE DRIVEWAY  
PROJECT SIZE: 750 SF / 12" PONDING DEPTH

PROJECT NAME: BMP 1  
PROJECT TYPE: BIOSWALE  
PROJECT SIZE: 450 SF / 3"-6" PONDING DEPTH



RAMSEY COUNTY SWCD  
1425 PAUL KIRKWOLD DR  
ARDEN HILLS, MN 55112  
651-266-7274  
www.ramseycounty.us

PROJECT: AYUB RESIDENCE  
LOCATION:  
2112 BELMONT LN E  
NORTH ST PAUL, MN 55119  
WATERSHED DISTRICT:



DESIGNER: MPS  
DATE: 04/17/2019  
REVISION:  
REVISION:  
REVISION:  
REVISION:  
CHECKED BY:  
TAA:

NOTES:  
CONTRACTOR TO LOCATE ALL  
UTILITIES PRIOR TO WORK

UTILITIES WITHIN OR NEAR  
CONSTRUCTION AREA SHALL BE  
POTHOLED

CONTRACTOR MUST ACQUIRE ALL  
NECESSARY PERMITS

ORIGINAL SHEET SIZE: 11" x 17"

SCALE: 1"=20'-0"

SITE PLAN



L100



## Stewardship Grant Application Summary

**Project Name:** Kohlman Chain LVMP

**Application Number** 19-20 CS

**Board Meeting Date:** 8/7/2019

**Applicant Name:** John James

**Residential** ☒

**Commercial/Government** ☐

### Project Overview:

As part of the 2018 Stewardship Grant Program, RWMWD offered 50% cost share funding up to \$15,000 for materials and labor associated with harvesting aquatic plants. Part of the eligible expenses is the cost associated with developing a Lake Vegetation Management Plan. The applicant, on behalf of Fish and Waters Conservation Fund, will be contracting with Limnopro to conduct plant surveys and produce an LVMP for Kohlman, Gervais, Spoon, and Keller Lakes. Upon completion of the LVMP, the lake associations and RWMWD will review to determine if plant harvesting will benefit water quality of these lakes.

### BMP type(s):

Aquatic Vegetation Harvesting(1)

### Grant Request:

\$6,500.00

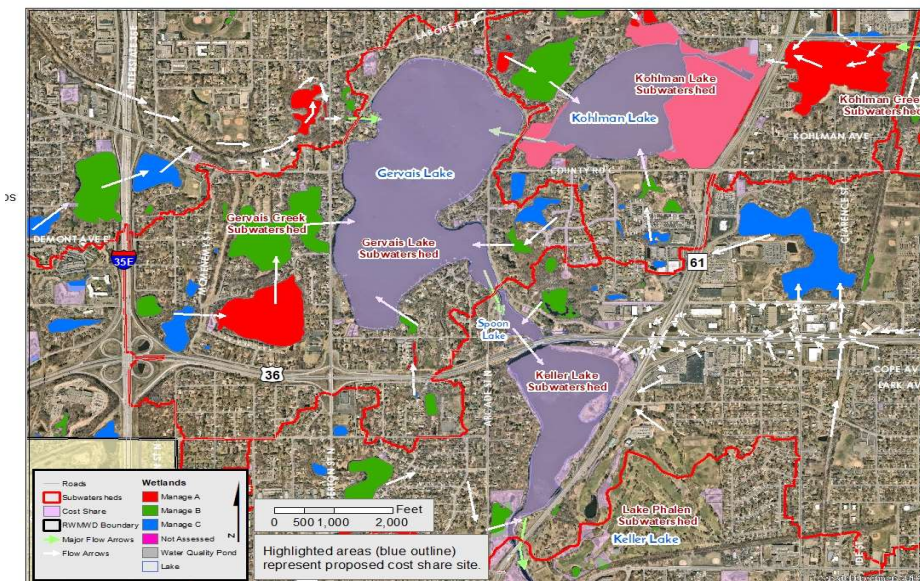
### Recommendation:

Staff recommends approval of this application.

### Subwatershed:

Gervais Lake, Keller Lake, Kohlman Lake

### Location Maps:



# Stewardship Grant Program Budget Status Update

August 7, 2019

Homeowner	Coverage	Number of Projects	Funds Allocated
Habitat Restoration and rain garden w/o hard surface drainage	50% Cost Share \$15,000 Max	3	\$6,764.65
Rain garden w/hard surface drainage, pervious pavement, green roof	75% Cost Share \$15,000 Max	3	\$26,475
Master Water Steward Project	100% Cost Share \$15,000 Max	1	\$7,500
Shoreland Restoration	100% Cost Share \$15,000 Max	1	\$12,000

Commercial, School, Government, Church, Associations, etc.	Coverage	Number of Projects	Funds Allocated
Habitat Restoration	50% Cost Share \$15,000 Max	4	\$20,400
Shoreland Restoration (below 100-year flood elevation w/actively eroding banks)	100% Cost Share \$100,000 Max	1	\$200,000
Priority Area Projects	100% Cost Share \$100,000 Max	3	\$341,000
Non-Priority Area Projects	75% Cost Share \$50,000 Max	0	\$0
Public Art	50% Cost Share	1	\$6,000
Aquatic Veg Harvest	50% Cost Share \$15,000 Max	1	\$8,500
Maintenance	50% Cost Share \$5,000 Max for 5 Years	20	\$15,700
Consultant Fees			\$187,400
<b>Total Allocated</b>			<b>\$831,739.65</b>

2019 Stewardship Grant Program Budget		
	Budget	\$1,250,000
	Total Funds Allocated	\$831,739.65
	<b>Total Available Funds</b>	<b>\$418,260.35</b>



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# Administrator's Report

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## MEMO

**TO:** Board of Managers and Staff  
**FROM:** Tina Carstens, Administrator  
**SUBJECT:** August Administrator's Report  
**DATE:** August 1, 2019

### A. Meetings Attended

Monday, July 22	9:00 AM	Washington County Watersheds
Wednesday, July 24	11:30 AM	Tire Aggregate Lunch and Learn
	2:30 PM	2020 Project Discussions
Friday, July 26	9:00 AM	MPCA watershed staff, Tim Schwartz
Tuesday, July 30	11:00 AM	Meet with Barr regarding resiliency study

### B. Upcoming Meetings and Dates

September Board Meeting	Wednesday, September 4, 2019
Board Brainstorming Session	Monday, September 16, 2019
October Board Meeting	Wednesday, October 2, 2019
November Board Meeting	Wednesday, November 6, 2019
Watershed Excellence Awards	TBD
MAWD Annual Meeting	December 4 – 7, 2019
December Board Meeting	TBD (conflict with MAWD Annual Meeting)

### C. 2020 Budget Discussions

Attached is the 2020 preliminary budget table and line by line narrative. We will walk through these items at the board meeting. This month we will discuss the potential changes to the budget from last year. I will take your comments and direction and amend the budget table in preparation for the September board meeting where we will hold a public hearing and certify the preliminary levy.

Fiscal Year 2020 Budget V1  
August 7, 2019 Board Meeting Discussion

Budget ID Number	Budget Item		FY 2019 Budget	FY 2020 Budget Fund Source				Total Proposed 2020 Budget	Increase (decrease) from 2019 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	55,000	55,000				55,000	0
4		Permit Inspection and Enforcement	10,000	10,000				10,000	0
5		Project Feasibility Studies*	790,000	435,000			55,000	490,000	(300,000)
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	8,500				8,500	2,000
12		Managers Expenses	3,500	3,500				3,500	0
13									
14	Auditor/Accounting	Auditor/Accounting	55,000	60,000				60,000	5,000
15									
16	Miscellaneous	Dues & Publications	11,000	11,000				11,000	0
17		Insurance	35,000	40,000				40,000	5,000
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	1,385,000	1,450,000				1,450,000	65,000
22		Employee Expenses	10,000	10,000				10,000	0
23		Janitorial/Trash Services/Snow Plowing	17,000	15,000				15,000	(2,000)
24		Building Maintenance	300,000	200,000				200,000	(100,000)
25		Utilities (gas,electric, water, sewer, maintenance)	20,000	20,000				20,000	0
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	5,000				5,000	(5,000)
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.	10,000	10,000				10,000	0
35		Data Base Improvements	5,000	5,000				5,000	0
36		IT Services/Internet/Website/Software Licenses	45,000	55,000				55,000	10,000
37		Outside Program Support*	57,000	57,000				57,000	0
38		Outside Consulting Services	40,000	40,000				40,000	0
39									
40	Program Activities	Lake Studies/WRPPs/TMDL Reports*	68,000	138,000				138,000	70,000
41		Natural Resources Program*	115,000	140,000				140,000	25,000
42		Water Monitoring-Lab Costs & Equip.*	300,000	185,000				185,000	(115,000)
43		Lake Macrophyte Monitoring	10,000	10,000				10,000	0
44		Research Projects *	115,000	95,000				95,000	(20,000)
45		Project Operations	160,000	160,000				160,000	0
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	10,000	10,000				10,000	0
50		Health & Safety Program/Staff In-House Training	3,000	3,000				3,000	0
51									
52	Capital Improvements	Maplewood Mall SRF Loan Debt Service	91,950		92,611			92,611	661
53	Summary	Beltline and Battle Creek Tunnel Repair Debt Service	307,163		307,463			307,463	300
54		District Office Building Bond Payment	194,885		194,885			194,885	0
55		Targeted Retrofit Projects*	978,760		1,012,000			1,012,000	33,240
56		BMP Incentive Fund	1,250,000		800,000	200,000		1,000,000	(250,000)
57		Project Repair & Maintenance*	1,120,000		615,000	500,000		1,115,000	(5,000)
58		Wakefield Park Project	1,100,000		0	0		0	(1,100,000)
59		Markham Pond Dredging and Aeration	65,000		0	0		0	(65,000)
60		Willow Pond CMAC	300,000		0	0		0	(300,000)
61		Volume Reduction Opportunity Fund	1,500,000		100,000	1,500,000		1,600,000	100,000
62		Flood Risk Reduction Fund*	2,500,000		1,500,000	2,500,000		4,000,000	1,500,000
Totals			13,532,258	3,709,500	4,621,959	4,700,000	55,000	13,086,459	(445,799)

	Budget Total	Budget Total By Fund		Proposed Final Levy
		General Fund	CIB	
2020 Budget Total and totals by fund	13,086,459	3,764,500	9,321,959	6,886,459
2019 Budget Total and totals by fund	13,532,258	4,124,500	9,407,758	6,763,498
2020 Budget Increase or (Decrease) from 2018 Budget	(445,799)	(360,000)	(85,799)	122,961
2020 Budget % change from 2018 Budget	-3.29%	-8.73%	-0.91%	1.82%

## 2020 Budget Program Line Item Breakouts

Project Feasibility Studies (Line 5)	
Emergency Response Plans	\$45,000
FEMA Flood Mapping Update Assistance (grant funded)	\$55,000
Hillcrest Golf Course & Gold Line BRT Planning	\$45,000
Owasso Basin Flood Risk Management	\$125,000
Willow Creek Flood Risk Management	\$50,000
Ames Lake Area Flood Risk Management	\$50,000
Battle Creek PFAS	\$25,000
694/494/94 Water Quality Feasibility Study	\$30,000
Subwatershed Assessment for At-Risk Creeks (Fish and Gervais)	\$40,000
Contingency	\$25,000
Total =	\$490,000

Outside Program Support (Line 37)	
Watershed Partners	\$10,000
Blue Thumb	\$3,000
East Metro Education	\$13,000
Cooperative Weed Management Program	\$10,000
GIS Users Group	\$1,000
Contingency	\$20,000
Total =	\$57,000

Lake Studies (Line 40)	
Grant Applications	\$20,000
Watershed Management Plan Updates	\$30,000
Tanners Flood Response Tool Model Update	\$3,000
Internal Load Management	\$45,000
Subwatershed Feasibility Studies Prioritization	\$15,000
Contingency	\$25,000
Total =	\$138,000

NR Program (Line 41)	
Ongoing Site Maintenance	\$25,000
Owasso Carp Management	\$40,000
Phalen Chain Carp Management	\$10,000
Vadnais-Snail Lake Park Restoration	\$20,000
Electric Carp Barrier	\$40,000
Contingency	\$5,000
Total =	\$140,000

Water Monitoring (Line 42)	
WQ Equipment Replacement and Repair	\$40,000
Lab Costs	\$90,000
Engineering Stats Assistance	\$10,000
Special Project Monitoring: Maplewood Mall, Battle Creek	\$30,000
New Lake Level Monitoring	\$15,000
Total =	\$185,000

Research (Line 44)	
Minnesota Stormwater Research Council	\$25,000
Kohlman Test Weirs	\$15,000
Iron Aggregate Pond Application	\$20,000
Internal Research/Contingency	\$35,000
Total =	\$95,000

Education/Events/Communications (Lines 46-48)	
Master Water Stewards	\$10,000
Adopt a Drain Program	\$5,000
Rain Barrel Program	\$5,000
Work in Schools	\$25,000
Education Contingency	\$15,000
Communications and Marketing	\$25,000
WaterFest	\$30,000
Watershed Excellence Awards	\$6,000
Events Contingency	\$10,000
Total =	\$131,000

Targeted Retrofits (Line 55)*	
Boys and Girls Club	\$150,000
St. Rose of Lima	\$312,000
Cottage Place Wetland Restoration	\$300,000
Motel 6 and Catering Center	\$200,000
Contingency	\$50,000
Total =	\$1,012,000

Project Repair and Maintenance (Line 57)	
2019 Project Repair and Maintenance Contract	\$650,000
Beltline 5-year Inspection	\$90,000
Routine Inspections and Unplanned Maintenance ID	\$125,000
BMP Maintenance Program	\$150,000
Contingency	\$100,000
Total =	\$1,115,000

Flood Risk Reduction Fund (Line 62)	
Lowering West Vadnais Lake Outlet	\$130,000
Keller Channel Weir and Phalen Outlet Modifications	\$975,000
West Vadnais Lake Emergency Overflow - Twin Lake By-Pass	\$120,000
West Vadnais Lake Off-Season Drawdown System	\$1,750,000
Contingency	\$100,000
Total =	\$3,075,000

## 2020 BUDGET NARRATIVE

<b>Budget Line No.</b>	<b>Item &amp; Description</b>	<b>Budget Amount</b>	<b>Change from '19 increase (decrease)</b>
<b>General Fund Budget Summary:</b>			
1	<b>Engineering - Administration</b> Oversight of all District Engineering activities, supervising staff assigned to projects, responding to general inquiries of the public and the Board, and preparing correspondence and billings. Engineering attendance at meetings of the District- covers Board and related project meetings, mini case studies, data collection, analysis, preparation of reports as requested by the managers and assisting in District water management planning activities.	93,000	0
2	<b>Engineering - Review</b> Review and comment on plans and proposals submitted to the District for review relative to District regulations, policies and concerns. Assist communities and counties with data and information needs related to projects and plans.	55,000	0
3	<b>Engineering - Permit Application Review and Processing</b> Provides for Engineering assistance in review of all permit applications, clarifying problems with the developer, meet developer on-site, coordinate permit issues with communities, counties, and other regulatory bodies.	55,000	0
4	<b>Engineering - Permit Inspection &amp; Enforcement</b> Inspect projects when a designed improvement is involved and requested by District staff.	10,000	0
5	<b>Engineering - Project Feasibility Studies</b> This item provides a budget item for annual feasibility studies in preparation of future capital improvement projects. See attached list.	490,000	(300,000)
6	<b>Engineering - GIS Maintenance</b> Provides funds for maintenance and assistance of the District GIS system.	5,000	0

<b>Budget Line No.</b>	<b>Item &amp; Description</b>	<b>Budget Amount</b>	<b>Change from '19 increase (decrease)</b>
8	<b>Attorney - General</b> Legal advice at meetings, research on various issues for Board consideration, preparation and publication of legal notices, preparation of Board resolutions, and other matters requiring legal counsel.	40,000	0
9	<b>Attorney - Permit Enforcement</b> Legal advice on permit sites including enforcement activities, letter and legal action as necessary.	10,000	0
11	<b>Manager per Diems</b> Manager per diems for regular and special meeting attendance. Increased budget due to increase in state statute amount allowed for manager per diems.	8,500	2,000
12	<b>Manager Expenses</b> Manager Expenses incurred in the performance of official manager duties, such as attendance at conferences and meetings and related expenses.	3,500	0
14	<b>Auditor/Accounting</b> Preparation of the District's annual audit and provide monthly accounting services.	60,000	5,000
16	<b>Dues &amp; Publications</b> Dues for appropriate organization memberships (MAWD, Metro MAWD, League of MN Cities, etc.) and for purchase of necessary publications and reference materials.	11,000	0
17	<b>Insurance &amp; Bonds</b> District General Liability, Property/Casualty, Public Official Liability insurance, and Position Schedule Bonds.	40,000	5,000
18	<b>Committee &amp; Board Meeting Expenses</b> Budget to cover miscellaneous expenses related to the duties and activities of District advisory committees, such as, meeting refreshments, supplies, public information materials, etc.	3,500	0

<b>Budget Line No.</b>	<b>Item &amp; Description</b>	<b>Budget Amount</b>	<b>Change from '19 increase (decrease)</b>
19	<b>Miscellaneous Expenses</b> Expenses of the District not elsewhere classified. Examples include: miscellaneous financial charges and expenses, District tour expenses, pass through expenses, etc.	5,000	0
21	<b>Staff Salaries, Taxes &amp; Benefits</b> Includes salary, taxes, insurance and benefits for existing full time staff plus summer interns. This budget includes an allowance for a salary increases and increased benefit costs as well as the addition of a permit inspector full time position.	1,450,000	65,000
22	<b>Employee Expenses</b> This includes mileage, parking, and supply expenses incurred by the District's staff.	10,000	0
23	<b>Janitorial/Trash Services/Snow Removal</b> Contract services required for office building and winter snow removal.	15,000	(2,000)
24	<b>Building Maintenance</b> Building repairs, equipment and landscape maintenance expenses. Decrease is due to larger expenses in 2019 that will be completed.	200,000	(100,000)
25	<b>Utilities</b> (gas, electric, water, sewer) Provides for office building utility expenses.	20,000	0
26	<b>Office Supplies</b> Office supply costs for district operations.	5,000	0
27	<b>Copying/Printing</b> Photocopying and commercial printing expenses.	8,000	0
28	<b>Postage/Delivery</b> District postage and delivery expenses.	5,000	(5,000)



<b>Budget Line No.</b>	<b>Item &amp; Description</b>	<b>Budget Amount</b>	<b>Change from '19 increase (decrease)</b>
29	<b>Office Furniture and Computer Equipment</b> Acquisition of necessary new and replacement office equipment and furniture.	40,000	0
30	<b>Office Equipment Maintenance</b> To fund office equipment maintenance.	3,000	0
31	<b>Training/Education</b> Training and education expenses for the District staff.	25,000	0
32	<b>Telephone</b> District telephone expenses. Includes office phone system and support costs.	8,000	0
33	<b>Vehicle Replacement, Equipment and Maintenance</b> Provides for fleet maintenance and equipment.	43,000	0
34	<b>GIS System Maintenance &amp; Equipment</b> Provides for continuous upgrading of GIS system data files and equipment as needed.	10,000	0
35	<b>Database Improvements</b> Provides for maintenance and minor improvements to existing District database system.	5,000	0
36	<b>IT Services/Internet/Web Site/Software Licenses</b> Provides for maintenance and upgrades to computer network and software upgrades.	55,000	10,000
37	<b>Outside Program Support</b> Provides budget for financial support of programs that provide support to the District and its goals. See attached list.	57,000	0
38	<b>Outside Consultant Services</b> Provides funds for contracting special services with outside consultants as needs arise in the year.	40,000	0

<b>Budget Line No.</b>	<b>Item &amp; Description</b>	<b>Budget Amount</b>	<b>Change from '19 increase (decrease)</b>
40	<b>Lake Studies/TMDL Reports</b> This item is for various water body studies and other topics. See attached list	138,000	70,000
41	<b>Natural Resources Program</b> This item includes funding for project to enhance ecological diversity within the District – habitat restoration projects, site maintenance, studies and research. This budget also proposes to install an electronic carp barrier. See attached list for breakdown.	140,000	25,000
42	<b>Water Quality Monitoring</b> Includes lab costs and equipment for lake sampling, BMP monitoring and performance monitoring. See attached list for breakdown.	185,000	(115,000)
43	<b>Lake Macrophyte Monitoring</b> Program to collect annual or bi-annual lake plant data to monitor changes in District lakes.	10,000	0
44	<b>Research Projects</b> This account provides funds for conducting research into various water and resource management issues and problems. The budget includes contributions to the Minnesota Stormwater Research (MSR) program, Kohlman test weir research as well as other potential internal research projects. See attached list.	95,000	(20,000)
45	<b>Project Operations</b> This budget provides funds for the ongoing operational costs for District projects that incur utility or supply costs.	160,000	0
46	<b>Educational Programming</b> Production of materials and programs designed to improve the understanding and knowledge of the school children, general public, city and county staff, developers and others of the District's programs and watershed management. This includes continued support of Master Water Stewards Program as well as support of the Adopt-a-Drain program. See attached list.	60,000	0

<b>Budget Line No.</b>	<b>Item &amp; Description</b>	<b>Budget Amount</b>	<b>Change from '19 increase (decrease)</b>
47	<b>Communications and Marketing</b> This will be used to support our communications and marketing plan.	25,000	0
48	<b>Events</b> Provide funds for the annual WaterFest program and Watershed Excellence Awards program.	50,000	0
49	<b>NPDES Phase II</b> Provides funds for meeting the requirement of the Federal/State required Phase II permit program. These funds will also be used to assist Cities with implementation of required minimum measures, prepare feasibility studies as needed, and update the District SWPPP.	10,000	0
50	<b>Health &amp; Safety Program/Staff In-house Training</b> Provides funds to support the District staff safety program, training costs, equipment.	3,000	0

**Capital Improvement Budget Summary:**

52	<b>Maplewood Mall SRF Loan Debt Service</b> Annual payment for the State Revolving Fund (SRF) loan for Maplewood Mall Phase IV project.	92,611	661
53	<b>2016 Beltline and Battle Creek Tunnel Repair Debt Service</b> This is the principal and interest payment for a bond issue approved in 2016.	307,463	300
54	<b>District Building Bond Payment</b> Provides funds for the annual bond payment for the District office building.	194,885	0
55	<b>Targeted Retrofit Projects</b> This budget is to fund projects that have been targeted by the District as a priority project for water quality and wetland habitat. Projects planned for 2020 are shown on the attached list.	1,012,000	33,240

<b>Budget Line No.</b>	<b>Item &amp; Description</b>	<b>Budget Amount</b>	<b>Change from '19 increase (decrease)</b>
56	<b>BMP Incentive Fund</b> Provide funds for cost-share assistance to local road authorities, churches, public and private developers and homeowners for funding of volume reduction practices above the requirements of District rules. The carry over vs levy funding will be fine-tuned as the year goes on.	1,000,000	(250,000)
57	<b>CIP Maintenance &amp; Repair</b> Provides funds for the maintenance of District projects and trunk conveyor system. Also includes funds for continuation of a BMP maintenance program and a contingency fund. See attached list. The carry over vs levy funding will be fine-tuned as the year goes on.	1,115,000	(5,000)
58	<b>Wakefield Park and Frost Avenue Project</b> This project should be substantially completed in 2019.	0	(1,100,000)
59	<b>Markham Pond Dredging and Aeration</b> This project will be completed in 2019.	0	(65,000)
60	<b>Willow Pond CMAC Project</b> This project should be substantially completed in 2019.	0	(300,000)
61	<b>Volume Reduction Opportunity Fund</b> This fund allows the District to capitalize on short-range improvement opportunities. We are in discussions with Target regarding two stores in our District (North St. Paul and St. Paul) and if those projects move forward in 2020, this fund could be used to fund those projects.	1,600,000	100,000
62	<b>Flood Risk Reduction Fund</b> Provides funds for flood control projects including acquisition or flood proofing of existing flood prone structures. Assistance to cities to reduce flood risks in areas identified by District modeling of Atlas 14 storm events could also be included. See attached list for proposed 2020 district flood risk reduction projects. The carry over vs levy funding will be fine-tuned as the year goes on.	4,000,000	1,500,000

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# Project and Program Status Reports

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## Memorandum

**To:** Board of Managers and Staff  
**From:** Tina Carstens and Brad Lindaman  
**Subject:** Project and Program Status Report – August 2019  
**Date:** August 1, 2019

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### **Twin Lake emergency response management 2019: (Barr project managers: Brad Lindaman and Erin Anderson Wenz; RWMWD project manager: Tina Carstens)**

*The purpose of this project is to provide engineering assistance and technical guidance to help cities in and around Twin Lake and West Vadnais Lake determine emergency flood response options for implementation.*

Shortly after last month's board meeting, the City of Little Canada decided to pursue continued pumping out of Twin Lake into the Minnesota Department of Transportation (MnDOT) right of way. Barr helped the city with the necessary data and the drafting of the permit revision requests. Meanwhile the Twin Lake levels have continued to drop, despite the pumps being shutdown.

Pumping operations have been relocated to move the pump intake to the Twin Lake side of the railroad tracks. The City received approvals from the Minnesota Department of Natural Resources and MnDOT, and pumps were restarted on July 31<sup>st</sup>. The City intends to operate the pumps during the week until the water level reaches 871.0. The City's fuel tank may not be able to support pumping through the weekend, so the pumps will likely be shut off on Friday afternoons and restarted on Monday mornings.

In addition, Barr and RWMWD staff have prepared permit applications to pump West Vadnais Lake overflows from west of Five Star Estates, should the berm overtop again, to by-pass Twin Lake. District staff have also received a quote from Northern Dewatering for pump setup and operation for a new intake west of Five Star Estates. For the past month, overflow from West Vadnais towards Five Star Estates have declined to a trickle with no need for by-pass pumping at the current time. However, staff are making preparations, should the water level in West Vadnais increase and overflow towards Five Star Estates occurs again.

### **Project feasibility studies**

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

*The purpose of this study is to assist 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 City of Shoreview has received City Council authorization and the project is currently advertised for bids. The bid opening is scheduled for August 14<sup>th</sup>. Utility construction will begin this year, with the



majority of roadway and stormwater management feature construction occurring in 2020. Barr and the RWMWD will be engaged in the construction portion of the project to verify that stormwater design implementation meets RWMWD standards and expectations.

**System-wide evaluation of flood control options/Beltline resiliency study (Barr project manager: Brandon Barnes; 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 have completed evaluation of system modifications in the Lake Phalen subwatershed (Phase 3), Beaver Lake subwatershed (Phase 4), and Beltline subwatershed (Phase 5). Based on direction provided by the Managers, staff have also evaluated the feasibility of various modifications in the Grass Lake subwatershed including a new outlet from Lake Owasso, seasonal operation of outlet structures, and increasing the capacity of existing outlet structures. The results of these simulations, as well as results from previous phases of the study, will be part of the final report later this year. Preliminary results from all phases are summarized in a web map:

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

Preliminary results will be presented to the managers at the August board meeting so that Barr can receive feedback on project prioritization before the report is finalized.

**Federal Emergency Management Agency (FEMA) flood mapping updates (Barr project manager: Brandon Barnes; RWMWD project manager: Tina Carstens)**

*The purpose of this project is to apply Minnesota DNR grant funding to use the RWMWD's updated stormwater model to develop information required to update the FEMA floodplain maps.*

In February, the RWMWD stormwater models were submitted to the Interagency Hydrology Review Committee (IAHRC) for review. The IAHRC reviews hydrologic models prior to them being used to update FEMA floodplain maps. As part of the review, the IAHRC will provide comments on the methodology used to calculate runoff from the subwatershed and review hydrologic input parameters and simulation results. We received comments from the DNR on July 26, 2019. Staff anticipates including responses to comments in the next submittal of the hydraulic model to the DNR in August.

Concurrent to IAHRC review, Barr updated the hydraulic models throughout the rest of the RWMWD, as well as completed a frequency analysis (or statistical evaluation) of water levels on Twin Lake and Snail Lake to estimate the flood elevations. These lakes are considered land-locked, so runoff volume has a significant impact on the 100-year floodplain elevation—necessitating an alternative approach to

defining the 100-year flood elevation. The RWMWD model was used to simulate 70 years of rainfall, and a statistical evaluation was completed to estimate the flood levels. Barr prepared a memorandum summarizing the methodology and results. The memorandum and calculations for Twin Lake and Snail Lake will be submitted to the DNR, along with the updated hydraulic model for the rest of the RWMWD, and response to DNR comments in August.

**West Vadnais lakes outlet permitting with the DNR (Barr project manager: Erin Anderson Wenz; RWMWD project manager: Tina Carstens)**

*The purpose of this project is to prepare and facilitate DNR permitting for the proposed lowering of the West Vadnais lake outlet.*

This period, in partnership with VLAWMO, Barr continued to develop an environmental assessment worksheet (EAW) that evaluates the impact of lowering the 15-inch outlet from West Vadnais Lake by 0.8 feet to provide additional live storage. The estimated timeline for creation of the EAW is still as follows.

milestone	completion date
task 1: bathymetry survey lake transects (to be completed by Ramsey County)	late June to early July 2019
task 1: bathymetry survey of north littoral zone (to be completed by Barr)	late June 2019
task 2: wetland delineation	mid-June 2019
task 3: draft EAW for RWMWD review	mid-July 2019

This period, the RWMWD and Ramsey County completed tasks 1, 2, and 3. After the RWMWD's approval, Barr will provide the draft EAW to the RGU to determine completeness. We will also complete one round of document revisions based on the RGU's review.

After the RGU deems the EAW complete, the 30-day EAW public notification for comment process will commence. The RGU will be responsible for publishing the notice of document availability in the *Environmental Quality Board (EQB) Monitor*, publishing a notice in a local newspaper announcing document availability, and making the document publicly accessible (typically via a website). The RGU must make the EIS need decision within 30 days of the end of the public comment period and must distribute the notice of decision within five days of the decision. The decision notice must be submitted to the *EQB Monitor*.

Lowering West Vadnais Lake's outlet will ultimately provide additional floodwater storage in Grass Lake and West Vadnais Lake and will thereby lower their flood levels. However, the benefits of lowering the outlet will only be realized once conditions in the lake draw down to the new outlet elevation. This will likely take months of drier-than-normal weather conditions after the lower outlet is installed.

**To:** Board of Managers and Staff  
**From:** Tina Carstens and Brad Lindaman  
**Subject:** Project and Program Status Report August 2019  
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As a reminder, the intent of lowering the West Vadnais Lake outlet to 881.0 and the Grass Lake outlet to 881.3 (already completed) was to provide enough flood storage to contain the 100-year, 96-hour storm event within Grass Lake and West Vadnais Lake without any flow leaving the Grass Lake emergency spillway if both lakes start at their outlet elevations before the storm event begins.

**Modeling of 500-year Atlas 14 district-wide (climate change scenario): flood map generation for future outreach efforts (Barr project manager: Brandon Barnes; 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.*

The RWMWD's model was used to simulate rainfall events with different recurrence intervals in order to update the FEMA floodplain maps. We are in the process of developing inundation areas throughout the RWMWD. This effort will help us better understand how lesser storms, other than the 100-year and 500-year events, affect (or do not affect) low-lying structures, in order to prioritize projects in areas that flood during more frequent events.

This past month staff started developing templates for risk map figures. Inundation areas will be used to develop figures illustrating the annual flood risk, flood risk over a 30-year period (risk of flooding over the course of a typical mortgage), and the 90-percent confidence limit for the 100-year flood plain. These maps can be used in community outreach activities with the cities and other entities within the RWMWD. Staff anticipate providing draft figures for RWMWD review later this summer.

**Wetland restoration site search (Barr project manager: Karen Wold; RWMWD project manager: Paige Ahlborg)**

*The purpose of this project is to conduct a desktop review to identify potential wetland restoration sites throughout the RWMWD. This project was initiated because the Minnesota Wetland Conservation Act rules and statute are changing their focus to allow wetland replacement in areas outside of the RWMWD, there are no wetland banks within the RWMWD, and the RWMWD has a "no net loss" policy for wetlands within its boundaries.*

The investigation and evaluation of the area is complete. Prior to completing the summary memo, we have discussed evaluating additional areas where wetland restoration projects could occur in currently developed areas where a property is for sale, where a large parking lot is currently present, or where the site falls within an area of concentrated poverty. This will add to the desktop evaluation scope. Since the project is advancing below budget, this additional evaluation can be completed within the authorized

budget. However, the schedule of completing this project may need to be extended to the end of 2019 to complete the additional evaluation.

The memo summarizing the results will be drafted for RWMWD staff and board review this fall, with completion expected in December.

### **Monitoring water quality/project monitoring**

#### **Automated 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 RWMWD and allow real-time transfer of data to the RWMWD's website for public consumption.*

The electrical subcontractor, Killmer Electric, has completed their work at the Lake Owasso site and is working with Xcel on the Lake Phalen site. Peterson Co. can now proceed with installing the shelters and cement pad at the Lake Owasso location. Barr continues to set up, program, and bench test the equipment for the Phalen, Wabasso, and Owasso stations in preparation for installation after the subcontractor work is complete.

Ramsey County Parks recently met with the RWMWD at Grass and Snail lakes to discuss station locations. We anticipate that these stations and their locations will be approved for installation on county property; however, approvals are not expected until later this summer. These monitoring stations will be used in conjunction with the emergency response plans to help guide cities in plan implementation to protect homes during floods.

#### **Maplewood Mall monitoring (Barr project manager: Matt Kumka; RWMWD project manager: Paige Ahlborg)**

*The purpose of this project is to assess 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.*

Two bids were received for the tree replacement work. Hoffman & McNamara was the low, qualified bidder at \$46,253.00. Barr staff has recent experience with Hoffman & McNamara and is confident they can perform the work effectively. Planning for the work has begun and tree replacement activities are planned for September 2019.

#### **Spent-lime pond application research project (Barr project manager: Greg Wilson; RWMWD project manager: Eric Korte)**

*This project is a partnership between Barr (funded through the Minnesota Stormwater Research Council [MSRC]), the RWMWD, the cities of Maplewood and White Bear Lake, St. Paul Regional Water Services (SPRWS), and VLAWMO. The project will consist of a pond application of spent lime to control internal*

*phosphorus loading in Wakefield Pond, the small stormwater pond immediately south of Wakefield Lake and north of Larpenteur Avenue.*

Recently, Barr completed laboratory dose testing with the spent-lime slurry samples previously collected from SPRWS and the City of White Bear Lake. Lab testing results were successfully used to determine a dose of spent lime that is expected to control internal phosphorus load in each pond. MPCA has permitted (on a one-time experimental basis) the pond treatment, which is expected later this year. Barr staff also attended, and provided a project update at, the annual meeting of the MSRC.

**Iron-aggregate pond application research project (Barr project manager: Tyler Olsen; RWMWD project manager: Eric Korte)**

*The purpose of this project is to provide monitoring and data evaluation support for the University of Minnesota's St. Anthony Falls Lab's (SAFL's) research project at Shoreview Commons Pond (on the City of Shoreview city hall campus). The project involves evaluating the effectiveness of adding iron aggregate to pond sediments to control the internal load of phosphorus from rich pond sediments.*

This period, it was determined by SAFL that the application of iron filings to the Shoreview Commons Pond will not occur during the summer of 2019, as was originally planned. This change is because there was no feasible way to apply the iron filings from a boat in the summer due to the weight of the filings and access to the pond. The filings will be applied in the winter of 2019/2020 when the pond frozen. Several alternatives will be considered regarding the methodology of application, and whether the pond can be drawn down before winter to ensure a sufficient ice thickness in the pond. The drawdown of the pond would require a DNR public waters permit. Additionally, the MPCA may need to provide a one-time treatment permit for applying the iron-filings to the pond. The project team at Barr, RWMWD, the City of Shoreview, and SAFL will meet next month to discuss alternatives and next steps moving forward.

## **Capital improvements**

**Wakefield Park/Frost Avenue stormwater project (Barr project managers: Michelle Kimble; 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.*

Veit has started construction, and weekly construction meetings are taking place. Barr and the RWMWD have attended several of the meetings. The first phase of the road reconstruction project is complete. Veit is beginning the second half of the project. Veit excavated test pits in the east basin down to the drain tile invert elevation. It appears that the north side of the basin is silty sand, but the south side of the basin is fine to medium grained sand. The area where the west basin will be is being used for project staging. It is likely that the basins will not be fully excavated until mid or late August. Construction is planned to be complete by November 1, 2019.

**School, commercial, and faith-based sites BMP 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.*

Construction is yet to be scheduled at Redeemer Lutheran Church in White Bear Lake and Cornerstone Montessori in St. Paul. These projects include three rain gardens, a shoreline buffer installation, and an erosion-control repair at the school's play yard. Outdoor Lab has through the construction season to determine its preferred three-week construction window for each site, with substantial completion required before November 1. Pre-construction activities have begun at Cornerstone Montessori in St. Paul. Outdoor Lab (Contractor) is scheduled to begin construction on the rain gardens and shoreline buffer installation in the coming weeks. Work to install two rain gardens at Redeemer Lutheran Church will be scheduled once Cornerstone is wrapped up. Work is to be completed before winter.

**Willow Pond Continuous monitoring and adaptive control (CMAC) spent lime filter (Barr project manager: Erin Anderson Wenz; RWMWD project manager: Paige Ahlborg)**

*The purpose of this project is to design, provide bid assistance for, and oversee construction of a spent lime filter that takes intermittent flow from Willow Pond in Roseville through the use of CMAC technology. The completed project will remove dissolved and particulate phosphorus to benefit Bennett Lake.*

Construction is substantially complete. Pressure transducers were exchanged, and a backflow preventer was removed from the site. Barr installed the instrumentation in June. In July the instrumentation underwent troubleshooting. Troubleshooting will continue into August and Barr expects to put the filter online in August. We anticipate that some system optimization will be necessary during this first season of use. The valve manhole was also dewatered in July as a significant amount of water had accumulated in the manhole over the past few months. It appears that precipitation is entering the manhole through the 4" monitoring opening. Plugging options will be assessed in August. The project will be closed out after a plant establishment inspection in late September or early October.

Barr also recommends adding a cedar split-rail fence to the site to protect the filtration from foot and bike traffic. A design was proposed to the City of Roseville and approved. Fence installation will likely be completed outside of this project's scope by Minnesota Native Landscapes as part of the maintenance contract.

**Cottage Place wetland restoration (Barr project manager: Fred Rozumalski; RWMWD project manager: Paige Ahlborg)**

*The purpose of this project is to evaluate options for restoring the wetland south of the St. Odelia Church property and west of the Cottage Place cul-de-sac in Shoreview. A restored wetland could be used to offset wetland loss in other parts of the RWMWD.*



Barr has overseen subcontractor surveying of the site as well as a shallow pit excavations to examine and test for soil contamination. No significant contamination was discovered, but as suspected, there is an accumulation of concrete and bituminous debris that has been dumped extensively at the northeastern corner of the site. Barr is currently writing recommendations for treatment/disposal of the debris. In August, Barr will begin to develop a conceptual plan for restoring the wetland.

**Aldrich Arena site design (Barr project manager: Matt Metzger; RWMWD project manager: Paige Ahlborg)**

*The purpose of this project is to incorporate green-infrastructure stormwater management into the Aldrich Arena campus renovations. The parking lot will be full-depth reclaimed by Ramsey County, which itself would not trigger the need for a RWMWD permit. The partnership between the RWMWD and Ramsey County will achieve treatment of runoff from the parking lots where none currently exists. A formalized joint powers agreement outlining the partnership cost-sharing, roles, and responsibilities was crafted between the RWMWD and Ramsey County.*

A preconstruction meeting, led by Loeffler, was held on July 15<sup>th</sup> at the Aldrich Arena site. Subcontractors were in attendance. Immediately afterward, Barr began work to review and respond to Veit submittals and requests-for-information (RFI's) related to the RWMWD stormwater retrofit project. Barr is supporting RWMWD staff on site to perform periodic construction observation as needed.

**CIP project repair and maintenance**

**CIP maintenance/repairs 2019 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 municipal separate storm-sewer system (MS4) requirements.*

All site work has been completed, including the stop-log installation. Final completion was on July 15, 2019. The contractor is currently gathering the necessary information for the final payment request. We expect the request in August for board consideration in September.

**Project operations**

**2019 Tanners Lake alum-facility monitoring (Barr project manager: Meg Rattei; RWMWD project manager: Eric Korte)**

*The purpose of this project is to complete monitoring and reporting required by the general National Pollutant Discharge Elimination/State Disposal System permit for MS4s.*

The alum treatment facility began operation in mid-July after being shut down for about a year for repairs. Repairs included replacement of the pH probe and the cord to the probe, installation of new level sensors in the alum tank, and a new CPU controlled by a touch screen plus remote access. When the facility began operation, staff began collecting weekly samples as required by the MS4 permit for the facility.

## Natural Resources Update – Bill Bartodziej and Simba Blood

### Wetland A – Ecological Restoration

We continue to make very good progress along the buffer areas in Wetland A. Over the last few weeks, NR staff has seeded close to an acre of upland and wet transitional zone area. In addition, we installed over 1,500 – 2-3” containers of sedges and wetland flowers (over 30 species) in the saturated transitional zone up to the water’s edge. All of this plant stock was grown at the Ramsey County Correction’s greenhouse facility.



In flatter terrain, the gator was used to pull our prairie seeder in upland areas that were not previously mulched. Notice the prairie plants in the mulch area are doing quite well.



Before: In steeper areas with stumps, we used a tiller before seeding.





**After:** In one week, prairie seedlings are evident – green tint in the blue outlined area. Wetland plant plugs are becoming established in the transitional zone – red arrows.



**When feasible, fire is used to kill invasive weed seedlings, like buckthorn.**





**Planting in May with students – upland prairie off the pathway.**



**July – prairie species are becoming well established.**





**If you look closely, you will see a watchful mother duck observing her “babies” – almost as big as her – eating oats cover crop seed that we spread in the wet transitional zone.**

As water levels recede over the next month, we will be focused on the installation of emergent aquatic plants, like bulrush, bur-reed, and arrowhead. In the photo above, we will be planting from the shore out 10 to 20 feet. The downed brush will actually work well to protect the young plants from muskrat feeding, as these pesky critters really don’t like to swim in brush for some reason. We will be installing emergent plants in over 2,000 linear feet of shore.



## Public Involvement and Education Program – Sage Passi



### Collaboration with the Statewide Health Improvement Partnership (SHIP)

In June, Sage met with Betsy Christensen, the Statewide Health Improvement Partnership (SHIP) Grant Coordinator for the St. Paul Public Housing Agency to discuss a potential partnership with residents at several high rises and public housing sites in our watershed. Betsy directs health and wellness initiatives at 20 low income housing sites in St Paul. For several years she has worked with St Paul Parks & Recreation's Parks Ambassadors program and Capitol Region Watershed District to plan nature outings for residents at family sites and high rises. Most of these high rises are located within Capital Region Watershed District, but a few of these sites fall inside Ramsey-Washington Metro Watershed District and have not been involved in the program. They include Roosevelt Homes – 1575 Ames Ave E, St Paul (family site), Iowa Hi Rise at 1743 E Iowa Ave and Wilson Hi Rise at 1300 Wilson Ave. In late July Betsy invited Sage to one of these nature outings at Hidden Falls organized by SHIP to connect residents to nature in their watershed. Sage will be exploring opportunities we could promote to PHA residents in our watershed and meeting with the high-rise councils in the fall to discuss future opportunities we could collaborate on to connect more people to the watershed and nearby natural areas.

### RWMWD teams up with St. Paul Parks and Rec and the YMCA at Lake Phalen Mobile Camp

For 3 days in late July, Sage helped guide youth ages 4-13 years from the eastside of St. Paul explore the aquatic life in Phalen Creek at a YMCA day camp set up in Phalen Park. Rotations of youth collected macroinvertebrates and built skills in identifying and sorting abundant dragonfly and damsel fly nymphs, predaceous diving beetles, aquatic worms, leeches, snails, backswimmers, water striders, mayflies and scuds. They also took walks to identify the native flowers along the shore of the lake.



## **National Youth Gathering Volunteers Pitch in to Help Maintain Farnsworth Native Plantings**



Maintaining our native school demonstration garden in the summer at Farnsworth Aerospace School can be a challenge because there is no summer school and hence no volunteers to care for their large garden. But this year we were approached by Bruce Gill from the St. Paul Facilities Department of St. Paul Public Schools. The District had tapped into a large group of youth volunteers for a National Youth Gathering for the Lutheran Church of the Missouri Synod (over 20,000 youth from around the country were in town for the conference). The School District arranged for a group of 40 volunteers to help with grounds work at Johnson High School and Farnsworth Aerospace. We were pleased to have a crew of high school students from Rockford, Illinois to help us with some heavy duty weeding and pruning in mid-July at Farnsworth's lower campus. Thank you to Michelle Natarajan, one of our Master Water Stewards for helping us with another work session in late July.

## **Environmental Justice and Equity in Action – Blue Thumb Partner Meeting at Autumn Ridge**

On July 11, Sage had the opportunity to participate in a discussion about how equity fits into environmental initiatives and the resources needed to enhance equitable outcomes at July's Blue Thumb Partners quarterly meeting. At this gathering held at Autumn Ridge in the northwest suburb of Brooklyn Park, we learned about the partnership between community-based organization African Career Education and Resource (ACER) and Metro Blooms to establish a healthy working relationship between residents and the owner of one of the city's largest apartment complexes.

ACER, Metro Blooms, and property owner Sherman Associates discussed how they worked together to launch a participatory landscape planning project that reimagined the outdoor spaces around the complex, which spans four buildings across about three city blocks. The project involved hundreds of residents, offering them an opportunity to build leadership skills and co-create a shared vision for vibrant, healthy outdoor spaces. This participatory landscape planning project resulted in a five-year plan to retrofit Autumn Ridge with stormwater management best practices and the new community assets desired by tenants.

ACER and Metro Blooms have developed a successful model of resident engagement by training a core group of community members as project stewards. This group of tenants received additional leadership

development training and committed significant time to building relationships with their neighbors. Sherman Associates provided funding to compensate the tenant organizers for their work.

The Blue Thumb Partner meeting culminated in a tour of several of the large scale BMP projects installed at Autumn Ridge led by Rich Harrison, Landscape Architect and Director of Landscape Design at Metro Blooms. These projects included a large linear rain garden capturing run-off from the roof of one of the apartment complexes and another rain garden taking a large volume of parking lot and driveway run-off.



**Rich Harrison identifies stormwater sources and describes plant palettes for two rain gardens installed at the Autumn Ridge apartment complex in Brooklyn Park.**

