

# MIDDLE ST. CROIX WATERSHED MANAGEMENT ORGANIZATION

455 HAYWARD AVENUE, OAKDALE, MINNESOTA 55082  
Phone 651.796.2227 fax 651.330.7747 www.mscwmo.org



## Regular Meeting of the Middle St. Croix Watershed Management Organization

*Remotely held as posted on [www.mscwmo.org](http://www.mscwmo.org)*

*Physical location - Washington Conservation District, 455 Hayward Ave N*

**Thursday, August 14<sup>th</sup>, 2025**

**6:00PM**

1. Call to Order – 6:00PM
  - a. Approval of Agenda
2. Approval of Minutes
  - a. Draft minutes – June 12<sup>th</sup>, 2025 **pg. 1-4**
3. Treasurer’s Report
  - a. Report of savings account, assets for August 14<sup>th</sup>, 2025
  - b. Approve payment of bills for August 14<sup>th</sup>, 2025
4. Public Comment
5. Watershed Management Plan Update
  - a. Review of 60-day comments **pg. 5**
  - b. **PUBLIC HEARING FOR PLAN**
6. Old Business
7. New Business
  - a. 2024 Financial Audit Report – **Presented at Meeting**
  - b. 2025 Second Half Contribution Reminders - **DISCUSS**
  - c. 2026 Final Budget **pg. 6**
  - d. Project Review Invoices - **DISCUSS**
8. Grant and Cost Share Applications
  - a. Waterford Stewardship Grant Reimbursement **pg. 7**
  - b. Kelly Stewardship Grant Reimbursement **pg. 8**
  - c. Lake St. Croix Beach Stewardship Grant Reimbursement **pg. 9**
  - d. McGinnis Stewardship Grant Reimbursement **pg. 10**
  - e. St. Croix United Water Quality Grant Reimbursement **pg. 11**
  - f. Heidenreich Stewardship Grant Request **pg. 12**
  - g. Lund Stewardship Grant Request **pg. 13**
9. Plan Reviews/Submittals
  - a. Plan Review and Submittal Summary **pg. 14-15**
    - i. 836 Minnesota Street **pg. 16-23**
    - ii. 297 Lake St. S **pg. 24-27**
    - iii. 1365 Curve Crest Blvd. **pg. 28-44**
    - iv. 103 Main St N. **pg. 45-52**

**Middle St. Croix Watershed Management Organization Member Communities**

Afton, Bayport, Baytown, Lakeland, Lakeland Shores, Lake St. Croix Beach, Oak Park Heights, St. Mary’s Point, Stillwater, & West Lakeland

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- v. Lumberjack Landing **pg. 53-60**
- vi. 850 Quixote - **DISCUSS**
- vii. 151XX 15<sup>th</sup> St N. **pg. 61-64**
- viii. 1081 Quixote Ave N. - **DISCUSS**
- b. Erosion and Sediment Control Inspection Reports **pg. 65-126**

- 10. Staff Report **pg. 127-129**
- 11. 1W1P Updates
- 12. Other
- 13. Adjourn

## Draft Minutes, Pending Board Approval

Regular Meeting of the Middle St. Croix Watershed Management Organization  
Washington Conservation District, 455 Hayward Ave N  
Thursday, June 12<sup>th</sup>, 2025  
6:00PM

Present: Brian Zeller, Lakeland Shores; Tom McCarthy, Lake St. Croix Beach; Rachel Dana, West Lakeland; Avis Peters, Baytown; Dave Millard, Lakeland; Carly Johnson, Oak Park Heights; John Dahl, Bayport; Administrator Matt Oldenburg-Downing; Amanda Herbrand  
Audience: Dawn Bulera, Michael Koch, Cindie Reiter

### Call to Order

Manager Zeller called the meeting to order at 6:00PM.

### Approval of Agenda

Manager McCarthy motioned to approve the agenda. Manager Millard seconded the motion.

### Approval of Minutes

Manager McCarthy motioned to approve the draft May 8<sup>th</sup>, 2025 board meeting minutes, Manager Millard seconded the motion. The motion carried with all in favor.

### Treasurer's Report

Manager Johnson presented the treasurer's report. The remaining checking account balance at the end of April was \$99,498.92 and at the end of May was \$95,381.56. First Bank CD's were valued at \$213,549.15. The ending value on the RBC savings account from April was \$98,346.20 and the ending value from May was \$98,975.45. Manager Zeller motioned to approve the report of the savings account and assets for June 12<sup>th</sup>, 2025. Manager McCarthy seconded the motion. The motion carried with all in favor.

Bills to approve for June are three bills to the Washington Conservation District for admin, watershed plan, and technical services totaling \$15,731.75. The treasurer's report also shows a bill for \$500.00 to Bird City Gardens, Administrator Oldenburg-Downing states this should not be included and is not included in the total of \$15,731.75. Manager Zeller motioned to approve payment of bills for \$15,731.75 to the Washington Conservation District for June 12, 2025. Manager Johnson seconded the motion. The motion carried with all in favor.

### Public Comment

None

### Watershed Management Plan Update

See staff report

### Old Business

None

**New Business**

**2024 Watershed Partners Annual Report**

Included in the board packet is the 2024 Watershed Partners Annual Report. The report is from the Metro Watershed Partners, which is a coalition of more than seventy public, private and non-profit organizations in the Twin Cities metro area. Through collaborative education and outreach, the Metro Watershed Partners promote a public understanding that inspires people to act to protect water in their watershed. Since 1996, partners have cooperated through educational projects, networking, and resource sharing. MSCWMO partners with this coalition primarily through the adopt-a-drain program. This is an informational item.

**2025 Children’s Water Fest Sponsorship**

The Metro Children’s Water Festival is seeking sponsors for the 2025 Children’s Water Festival.

Manager McCarthy motioned to approve sponsorship in the amount of \$500.00. Manager Dahl seconded the motion. The motion carried with all in favor.

**Grant and Cost Share Applications**

**Bird City Gardens Stewardship Grant Reimbursement**

On February 13th, 2025 the MSCWMO board approved cost share encumbrance of up to \$500 for the installation of a 5,000 square-foot native demonstration garden at the Mulberry Ravine Bird Station owned and operated by the 501c3 nonprofit “Bird City Gardens” (419 Greeley St N, Stillwater, MN 55082). The landowner completed the project in June of 2025 with assistance from contractor and volunteer labor with a total cost of \$7,050.05 (\$3,830.05 in materials). Over 1,000 native perennials, trees, and shrubs were installed as a part of this project with additional cost-share assistance from the Washington Conservation District via the BWSR Pollinator Pathways program in the amount of \$5,000.

Manager Zeller motioned to approve reimbursement of \$500.00 cost share for the installation of the Gorski/Bird City Gardens Demonstration Garden at the Mulberry Ravine Bird Station, 419 Greeley St N, Stillwater, MN 55082. Manager McCarthy seconded the motion. The motion carried with all in favor.

**Plan Reviews/Submittals**

**16855 21<sup>st</sup> St S.**

Submittal items were received on March 19th, 2025 for the residential reconstruction at 16855 21st St S located within the MSCWMO boundaries and the City of Lake St. Croix Beach. The proposed project qualifies for full review under the MSCWMO 2015 Watershed Management Plan (WMP) since it involves reconstruction of more than 500 square feet of impervious surface in the St. Croix Riverway and impacts within the bluffline setback. The applicant revised and resubmitted plans on May 19th to meet bluffline setbacks to the maximum extent practicable. MSCWMO staff recommends approval with one condition:

1. Impervious coverage threshold for St. Croix Riverway zoning is exceeded therefore permanent easements are recommended over stormwater management practices.

Manager Zeller motioned to approve the project with the one condition, Manager McCarthy seconded the motion. The motion carried with all in favor.

**836 Minnesota Street**

Submittal items were received on May 14th, 2025 for a parking lot expansion that was completed without a MSCWMO review or City of Bayport permit. The proposed project qualifies for full review under the MSCWMO 2015 Watershed Management Plan (WMP) since it involves more than 500 square feet of impervious surface in the St. Croix Riverway. MSCWMO staff are awaiting a complete submittal with rate control addressed.

**Raymie Johnson Estates**

Submittal items were received on May 22nd, 2025 for parking lot expansion and improvements at 14830 58th St N within the MSCWMO boundaries and the City of Oak Park Heights. The proposed project qualifies for full review under the MSCWMO 2015 Watershed Management Plan (WMP) since it involves reconstruction of more than 6000 square feet of impervious surface. MSCWMO staff recommends the applicant revise and resubmit to address the shortfall in required volume control and rate control at all discharge points.

Manager Johnson states that due to recent updates to the City parking ordinance, the applicant may need a conditional use permit.

Due to the project timeline, Administrator Oldenburg-Downing is requesting authorization from the board to administratively approve the project if the applicant resubmits a revised plan that meets the WMO's standards. Manager Johnson requested to be included in the approval process as well.

Manager Zeller motioned to approve authorizing Administrator Oldenburg-Downing and Manager Johnson to administratively approve the project upon resubmittal, Manager McCarthy seconded the motion. The motion carried with all in favor.

**Erosion and Sediment Control Inspection Reports**

There are five erosion and sediment control inspection reports included in the board packet. All inspections are of the 880 Quixote bluff violation. The first inspection dated May 14 shows a grade of a C, indicating that the site was not in compliance and required supplemental erosion and/or sediment control practices. The two inspections following are dated May 19 and May 21 and show a grade of B, meaning some normal maintenance activities were required, and the following inspection from June 2 shows a grade of A and features photos showing that erosion control blanket had been installed on site. The final inspection is from June 6 and indicates the blanketed slope was still in good condition after approximately 1 inch of rain.

Administrator Oldenburg-Downing stated there is another violation occurring on Quixote Ave and will follow up with City Staff.

**Staff Report**

## Draft Minutes, Pending Board Approval

Administrator Oldenburg-Downing stated that the comment period for the 10-year management plan update has closed and staff are working on addressing the 164 comments that were received from State and local agencies. He stated that the next steps for the plan should take place in August.

Water monitoring, BMP Maintenance, and Erosion and Sediment Control Inspections continue as normal. Administrator Oldenburg-Downing also informs the board that he's been working with Baytown staff to address some drainage issues at the Hills of Spring Creek development.

Manager Zeller asked Administrator Oldenburg-Downing if MSCWMO will be able to bill the communities for the additional time spent on projects, particularly regarding following up with violations. Administrator Oldenburg-Downing stated he believes they will be able to do so and will follow up with City staff.

### **1W1P Updates**

None

### **Other**

None

### **Adjourn**

Manager Zeller motioned to adjourn the meeting, Manager McCarthy seconded the motion. The meeting adjourned at 6:29.



**TO:** MSCWMO Board of Managers  
**FROM:** Becca Oldenburg-Downing, Senior Water Resource Specialist  
**DATE:** August 8, 2025  
**RE:** **2025-2035 Management Plan**

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The Board of Water and Soil Resources (BWSR) requires watersheds to have a management plan and MSCWMO's current management plan expires in 2025, as such creating an updated management plan is underway. The MSCWMO draft Plan Composition is complete and was sent out to review agencies on February 28, 2025. During this 60-day Review Period, 164 total comments were received. Following the review period, two meetings were held with BWSR to review the agency comments, as well as several phone calls and email correspondence took place with other review agencies to clarify comments and develop the best responses. The proposed responses to plan comments were developed and sent to review agencies preemptively to review and then officially 10 days before the Public Hearing. The August 14<sup>th</sup> Board Meeting will hold a Public Hearing for these comment responses and the draft plan in accordance with Minnesota Statue 103B.231, Subd. 7. The next step in the management plan update process is to incorporate comment responses to the management plan and send the updated plan out for the final 90-Day Review Period.

**Recommended Action:** Motion to approve the 60-Day Review comment responses, update the management plan accordingly, and distribute the updated management plan for the 90-Day Review Period.

## MSCWMO 2026 Draft Budget

	2025 MSCWMO Budget	2026 MSCWMO Budget	% CHANGE
<b>ADMINISTRATION</b>			
Administration - General	\$ 33,000.00	\$ 34,000.00	3.03%
Accounting	\$ 1,800.00	\$ 1,880.00	4.44%
Legal Fees - General	\$ 500.00	\$ 500.00	0.00%
Audit	\$ 5,500.00	\$ 5,500.00	0.00%
Insurance & Bonds	\$ 2,600.00	\$ 2,600.00	0.00%
Office supplies/equipment/postage	\$ 400.00	\$ 400.00	0.00%
Minutes/Clerical	\$ 1,400.00	\$ 1,470.00	5.00%
Copying/printing/reproduction/minutes	\$ 400.00	\$ 400.00	0.00%
<b>Admin Total</b>	<b>\$ 45,600.00</b>	<b>\$ 46,750.00</b>	<b>2.52%</b>
<b>PROJECT FUNDS</b>			
Project Contingency	\$ 2,000.00	\$ 2,000.00	0.00%
Engineering - Project	\$ 4,000.00	\$ 4,000.00	0.00%
Development Plan Reviews	\$ 7,000.00	\$ 7,000.00	0.00%
Erosion Monitoring Program	\$ 2,400.00	\$ 2,520.00	5.00%
BMP Cost-Share (general)	\$ 15,000.00	\$ 15,000.00	0.00%
BMP TA & Admin	\$ 32,000.00	\$ 34,000.00	6.25%
Community TA	\$ 3,000.00	\$ 3,000.00	0.00%
Water Resource Educator	\$ 6,700.00	\$ 8,000.00	19.40%
Website	\$ 900.00	\$ 900.00	0.00%
Inspections and Tracking Database	\$ 900.00	\$ 500.00	-44.44%
<b>Project Total</b>	<b>\$ 73,900.00</b>	<b>\$ 76,920.00</b>	<b>4.087%</b>
<b>WATER MONITORING</b>			
Water Monitoring	\$ 23,000.00	\$ 23,000.00	0.00%
<b>Water Monitoring Total</b>	<b>\$ 23,000.00</b>	<b>\$ 23,000.00</b>	<b>0.000%</b>
<b>LONG TERM PROJECT SAVINGS</b>			
Water Monitoring - Set aside for equipment replacement & Monitoring Costs	\$ 750.00	\$ 750.00	0.00%
WMP Update	\$ 5,000.00	\$ 5,000.00	0.00%
<b>Savings Total</b>	<b>\$ 5,750.00</b>	<b>\$ 5,750.00</b>	<b>0.00%</b>
<b>MSCWMO Member Contribution Budget</b>	<b>\$ 148,250.00</b>	<b>\$ 152,420.00</b>	<b>2.81%</b>





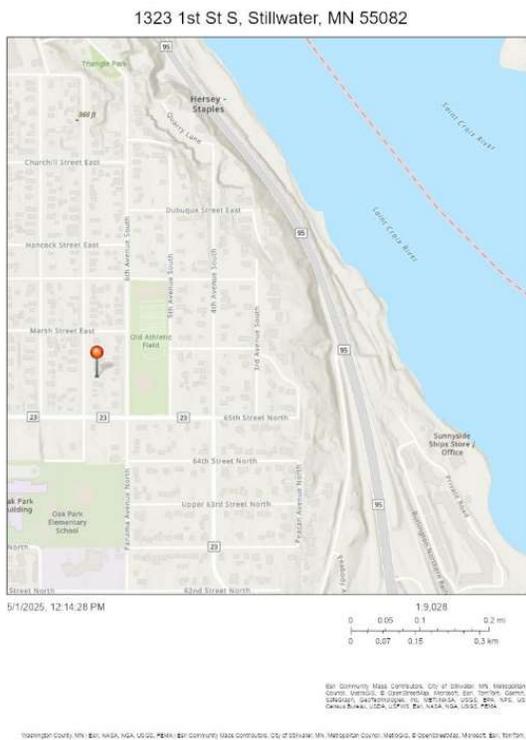
**TO:** Middle St. Croix Board of Managers  
**FROM:** Brett Stolpestad, Landscape Restoration Specialist, Washington Conservation District  
**DATE:** July 2, 2025  
**RE:** Request for Reimbursement – Kelly Native Landscaping Project

On May 8<sup>th</sup>, 2025 the MSCWMO board approved cost share encumbrance of up to \$500 for the enhancement of a 150 square foot native garden at 1323 1<sup>st</sup> St S in Stillwater. The landowner completed the project in June of 2025 with a total material cost of \$470.36. Over 40 native perennial plants were installed as a part of the project to provide pollen and nectar resources to pollinators from spring through fall.

**Project Estimate:** \$945 (landowner labor @ \$30/hr + materials).  
**Actual Expenditure:** \$470.36 (materials only)  
**Cost Share Encumbered:** \$500.00

**Requested Board Action:** Motion by Board Member 1, seconded by Board Member 2, to approve reimbursement of \$470.36 cost share for the installation of the Kelly Native Landscaping Project at 1323 1<sup>st</sup> St S Stillwater, MN 55082.

**Location & Photos:**



*Before*



*After*

**MSCWMO Member Communities**

Afton • Bayport • Baytown • Lakeland • Lakeland Shores • Lake St. Croix Beach • Oak Park Heights  
St. Mary's Point • Stillwater • West Lakeland







**TO:** Middle St. Croix Board of Managers  
**FROM:** Brett Stolpestad, Landscape Restoration Specialist, Washington Conservation District  
**DATE:** August 7, 2025  
**RE:** Request for Reimbursement – St. Croix United Church Bioretention Project

On April 10<sup>th</sup>, 2025 the MSCWMO board approved cost share encumbrance of 50% up to \$5,000.00 from the Water Quality Improvement Grant program for the installation of the St. Croix United Church Bioretention project. Environmental Landscape Management completed the project in June of 2025 with a total cost of \$30,087.91. The Washington Conservation District has contributed \$27,079.12 to the project through a FY22 Clean Water Fund grant. St. Croix United Church contributed the remaining \$3,008.79, and is requesting 50% reimbursement.

The new raingarden replaces the original, non-functional garden installed in 2011. The new raingarden has an expanded footprint, relocated outlet, and a more robust pre-treatment system for sediment capture. The project expected to reduce total phosphorus loading to Perro Creek by 2.16 lbs annually.

**Project Estimate:** \$45,177.75

**Actual Expenditure:** \$30,087.91

**Cost Share Encumbered:** 50% of the match contributed by St. Croix United Church up to \$5,000.00.

**Requested Board Action:** Motion by Board Member 1, seconded by Board Member 2, to approve reimbursement of \$1,504.40 cost share for the installation of the St. Croix United Church Bioretention project at 309 3rd St N, Bayport, MN 55003.

**Location & Photos:**





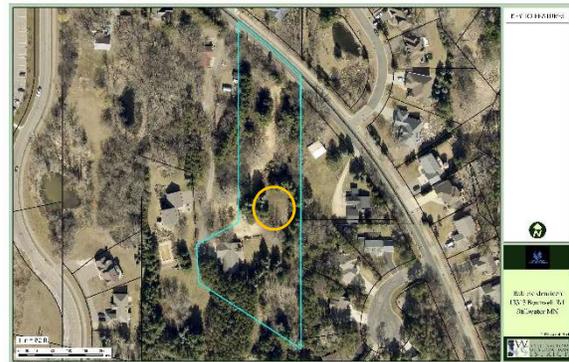
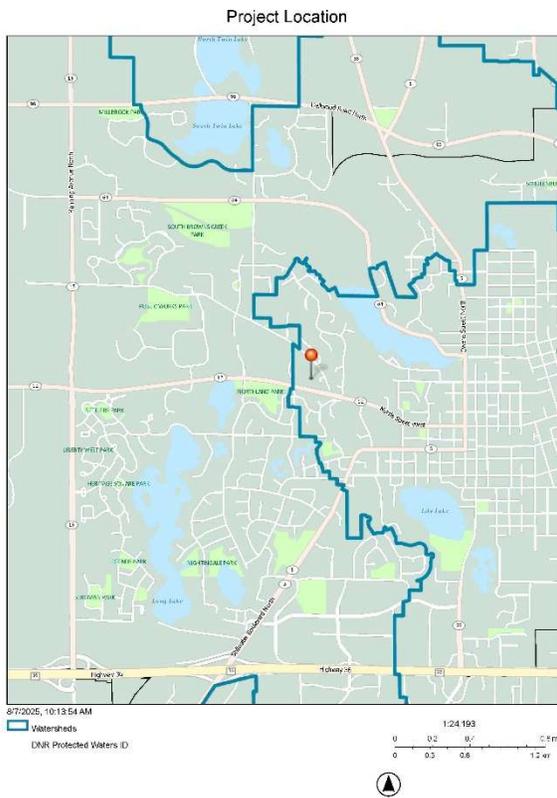
**TO:** Middle St. Croix Board of Managers  
**FROM:** Brett Stolpestad, Landscape Restoration Specialist, Washington Conservation District  
**DATE:** August 7, 2025  
**RE:** Heidenreich Stewardship Grant Request

Stillwater resident Bob Heidenreich is applying for a 2025 MSCWMO Stewardship Grant to enhance a 5,000 square-foot woodland opening with native grasses and flowering plants at 13315 Boutwell Rd N. This project will increase pollen and nectar resources available to pollinators through a combination of fall interseeding and interplanting. Bob is requesting \$500 cost-share for purchase of native seed and plant material.

**Project Estimate:** \$976.50  
**Amount of Phosphorus removed:** n/a  
**Cost Share requested:** \$500

**Requested Board Action:** Motion by Board Member 1, seconded by Board Member 2, to approve encumbrance of \$500 cost share for the Heidenreich Meadow Enhancement Project.

**Location & Photos:**



**MSCWMO Member Communities**

Afton • Bayport • Baytown • Lakeland • Lakeland Shores • Lake St. Croix Beach • Oak Park Heights  
St. Mary's Point • Stillwater • West Lakeland



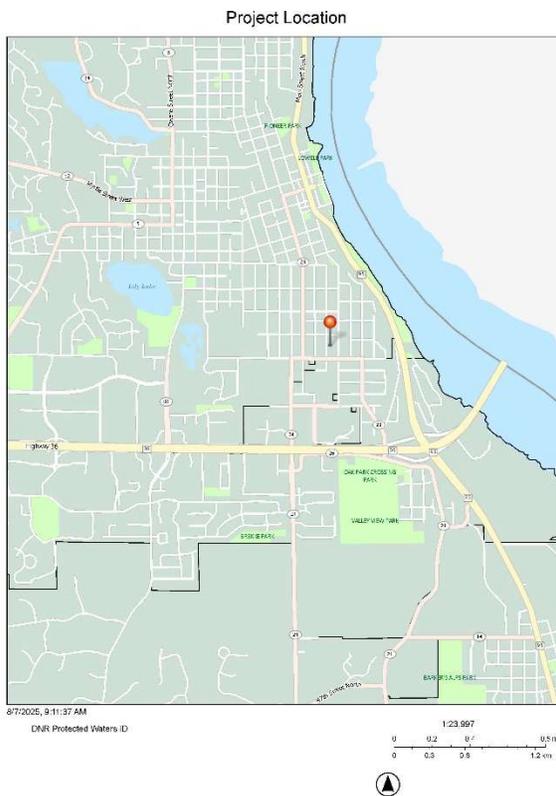
**TO:** Middle St. Croix Board of Managers  
**FROM:** Brett Stolpestad, Landscape Restoration Specialist, Washington Conservation District  
**DATE:** February 7, 2025  
**RE:** Lund Stewardship Grant Request

Stillwater resident Kim Lund is applying for a 2025 MSCWMO Stewardship Grant to establish a new native garden area around her home located at 1303 1st St S in Stillwater. The project—totaling 117 square feet in size—is designed to support pollinators and slow runoff from adjacent downspouts. Kim is requesting \$500 cost-share for purchase of native perennial shrubs, grasses, and ferns.

**Project Estimate:** \$600.60  
**Amount of Phosphorus removed:** n/a  
**Cost Share requested:** \$500

**Requested Board Action:** Motion by Board Member 1, seconded by Board Member 2, to approve encumbrance of \$500 cost share for the Lund Native landscaping project.

**Location & Photos:**



**MSCWMO Member Communities**

Afton • Bayport • Baytown • Lakeland • Lakeland Shores • Lake St. Croix Beach • Oak Park Heights  
 St. Mary's Point • Stillwater • West Lakeland



TO: Matt Oldenburg-Downing, Administrator  
FROM: Rebecca Nestingen, PE  
DATE: August 8, 2025  
RE: 9a) Plan Reviews/Submittals

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The following is a summary of recent activity on projects submittals which qualify for plan review under the MSCWMO 2015 Watershed Management Plan (WMP):

- **836 Minnesota Street.** Submittal items were received on May 14<sup>th</sup>, 2025 for a parking lot expansion that was completed without a MSCWMO review or City of Bayport permit. The proposed project qualifies for full review under the MSCWMO 2015 Watershed Management Plan (WMP) since it involves more than 500 square feet of impervious surface in the St. Croix Riverway. Additional/revised review materials were received on July 24, 2025. *MSCWMO staff recommends board approval with two conditions.*
- **297 Lake St S.** Submittal items were received on June 17<sup>th</sup>, 2025 for the residential reconstruction at 297 Lake St S located within the MSCWMO boundaries and the City of Bayport. The proposed project qualifies for full review under the MSCWMO 2015 Watershed Management Plan (WMP) since it involves reconstruction of more than 500 square feet of impervious surface in the St. Croix Riverway. *MSCWMO staff recommends board approval with two conditions.*
- **1365 Curve Crest Blvd.** Submittal items were received on June 23<sup>rd</sup>, 2025 for new office building development at 1365 Curve Crest Blvd located within the MSCWMO boundaries and the City of Stillwater. The proposed project qualifies for full review under the MSCWMO 2015 Watershed Management Plan (WMP) since it involves reconstruction of more than 6000 square feet of impervious surface. *MSCWMO staff recommends board approval with three conditions.*
- **103 Main St N.** Submittal items were received on July 9<sup>th</sup>, 2025 for the gas station reconstruction project at 103 Main St. N. Blvd located within the MSCWMO boundaries and the City of Stillwater. The proposed project qualifies for full review under the MSCWMO 2015 Watershed Management Plan (WMP) since it involves reconstruction of more than 6000 square feet of impervious surface. *MSCWMO staff recommends board approval with one condition.*
- **Lumberjack Landing.** Submittal items were received on July 9<sup>th</sup>, 2025 for the Aiple House/Lumberjack Landing retrofit project at 1513 Main St. N. Blvd located within the MSCWMO boundaries and the City of Stillwater. The proposed project qualifies for full review under the MSCWMO 2015 Watershed Management Plan (WMP) since it involves reconstruction of more than 6000 square feet of impervious surface. *MSCWMO staff recommends board approval with one condition.*
- **850 Quixote Ave N.** Submittal items were received on March 5<sup>th</sup>, 2025 for home and septic reconstruction at 850 Quixote Ave N within the MSCWMO boundaries and the City of Lakeland. The proposed project qualifies for full review under the MSCWMO 2015 Watershed Management Plan (WMP) since it involves reconstruction of more than 500 square feet of impervious surface in the St. Croix Riverway and impacts within the bluffline setback. Revised submittal items were received on July 16<sup>th</sup>, 2025 which removed the septic system from the bluffline setback but still includes grading to create a flat pad area. *MSCWMO staff recommends*

*the board discuss the construction within the bluffline setback and staff recommendation to revise and resubmit.*

- **151XX 15<sup>th</sup> St N.** Submittal items were received on July 21<sup>st</sup>, 2025 for the single family home construction project at 151XX 15<sup>th</sup> St N located within the MSCWMO boundaries and West Lakeland Township. The proposed project qualifies for full review under the MSCWMO 2015 Watershed Management Plan (WMP) since it involves construction of more than 6000 square feet of impervious surface. *MSCWMO staff recommends board approval with seven conditions.*
- **1081 Quixote Ave N.** MSCWMO staff are reviewing materials to determine if corrective action is needed.



August 8, 2025

Matt Kline  
City of Bayport  
294 N Third St.  
Bayport, MN 55003

Dear Mr. Kline,

The Middle St. Croix Watershed Management Organization (MSCWMO) received submittal items on May 14<sup>th</sup>, 2025 for the retroactive review of the parking lot expansion at 836 Minnesota Street within the MSCWMO boundaries and the City of Bayport. The proposed project qualifies for full review under the MSCWMO 2015 Watershed Management Plan (WMP) since it involves more than 500 square feet of impervious surface in the St. Croix Riverway. Additional/revised review materials were received on July 24, 2025. The MSCWMO board recommends approval with the following two conditions:

1. Drainage easements and proposed maintenance agreements are submitted for the proposed stormwater management facility.
2. Appropriate infiltration tests are conducted to validate the estimated infiltration rate.

MSCWMO review process information can be downloaded from [www.mscwmo.org](http://www.mscwmo.org). Please contact me at 651-796-2227 or [moldenburg-downing@mnwcd.org](mailto:moldenburg-downing@mnwcd.org) if you have any questions or comments regarding this correspondence.

Sincerely,

A handwritten signature in black ink, appearing to read "Matt Oldenburg-Downing".

Matt Oldenburg-Downing | Administrator  
Middle St. Croix Watershed Management Organization



**MSCWMO Review ID:** 25-012

**Review Date:** 8/1/2025

**Project Name:** 836 Minnesota Street

**Location:** 836 Minnesota Street, Bayport

**Applicant:** Tony Flattum

**Purpose:** Parking expansion (retroactive project review)

**Recommendation:** Approval with the following two conditions:

1. Drainage easements and proposed maintenance agreements are submitted for the proposed stormwater management facility.
2. Appropriate infiltration tests are conducted to validate the estimated infiltration rate.

**Applicability:**

- Any project undertaking grading, filling, or other land alteration activities which involve movement of 100 cubic yards of earth or removal of vegetation on greater than 10,000 square feet of land.
- Any project that creates or fully reconstruct 6,000 square feet or more of impervious surface.
- All major subdivisions or minor subdivisions that are part of a common plan of development. Major subdivisions are defined as subdivisions with 4 or more lots.
- Any project with wetland impacts, grading within public waters, grading within buffers or within 40-feet of the bluff line.
- Development projects that impact 2 or more of the member communities.
- New or redevelopment projects within the St. Croix Riverway that require a building permit that add 500 square feet of additional impervious surface.
- Any project requiring a variance from the current local impervious surface zoning requirements for the property.
- Any land development activity, regardless of size, that the City determines is likely to cause an adverse impact to an environmentally sensitive area or other property, or may violate any other erosion and sediment control standard set by the member community.

**Submittal Items:**

- A completed and signed project review application form and review fee.
- Grading Plan/Mapping Exhibits:
  - Property lines and delineation of lands under ownership of the applicant.
  - NA Delineation of existing on-site wetlands, shoreland and/or floodplain areas (including any buffers).
  - NA Ordinary High Water (OHW) elevations and datum, as determined by the MDNR (if applicable).

- Existing and proposed site contour elevations related to NAVD 1988 datum (preferred) or NGVD, 1929. Datum must be noted on exhibits.
- Drainage easements covering land adjacent to ponding areas, wetlands, and waterways up to their 100-year flood levels and covering all ditches and storm sewers. Access easements to these drainage easements and to other stormwater management facilities shall also be shown. (Not required for sites within public right-of-way)

NA Minimum building elevation for each lot.

- Identification of downstream water body.
- Delineation of the subwatersheds contributing runoff from off-site, proposed and existing on-site subwatersheds, and flow directions/patterns.
- Location, alignment, and elevation of proposed and existing stormwater facilities.

NA Existing and proposed normal water elevations and the critical (the highest) water level produced from the 100-year 24-hour storms.

NA Location of the 100-year flood elevation, natural overflow elevation, and lowest floor elevations.

- A Stormwater Pollution Prevention Plan in compliance with the requirements of the NPDES SDS Construction Stormwater Permit.
- Permanent Stormwater Management System in compliance with the requirements of the NPDES SDS Construction Stormwater Permit and MSCWMO Performance Standards.
  - Impervious areas (Pre- and Post-Construction).
  - Construction plans and specifications for all proposed stormwater management facilities.

NA Location(s) of past, current or future onsite well and septic systems (if applicable).

NA Other exhibits required to show conformance to these Performance Standards.

- Hydrologic/Hydraulic Design Exhibits:
  - All hydrologic and hydraulic computations completed to design the proposed stormwater management facilities shall be submitted. Model summaries must be submitted. The summaries shall include a map that corresponds to the drainage areas in the model and all other information used to develop the model.
  - A table (or tables) must be submitted showing the following:
    - A listing of all points where runoff leaves the site and the existing and proposed stormwater runoff rates and volumes.
    - A listing of the normal water levels under existing and proposed conditions and the water levels produced from the storm and runoff events listed above for all on-site wetlands, ponds, depressions, lakes, streams, and creeks.

A proposed maintenance agreement, which may be in the format of Appendix I, or other form approved by the city.

- This site drains to, and is within one mile of special or impaired water and complies NPDES CSW additional requirements.

**STORMWATER MANAGEMENT PERFORMANCE STANDARDS**

- Water quality treatment is provided prior to direct discharge of stormwater to wetlands and all other water bodies. Restaurants

**Rate and Flood Control Standards**

- The peak rate of stormwater runoff from a newly developed or redeveloped site shall not exceed the 2-, 10-, and 100-year 24-hour storms with respective 2.8, 4.2, and 7.3-inch rainfall depths with MSCWMO approved time distribution based on Atlas 14 for existing and proposed conditions. The runoff curve number for existing agriculture areas shall be less than or equal to the developed condition curve number. The newly developed or redeveloped peak rate shall not exceed the existing peak rate of runoff for all critical duration events, up to and including the 100-year return frequency storm event for all points where discharges leave a site during all phases of development.
- Predevelopment conditions assume “good hydrologic conditions” for appropriate land covers as identified in TR-55 or an equivalent methodology. Runoff curve numbers have been increased where predevelopment land cover is cropland:

Hydrologic Soil Group A	Runoff Curve Number 56
Hydrologic Soil Group B	Runoff Curve Number 70
Hydrologic Soil Group C	Runoff Curve Number 79
Hydrologic Soil Group D	Runoff Curve Number 83

- Computer modeling analyses includes secondary overflows for events exceeding the storm sewer systems level-of-service up through the critical 100-year event.

NA In sub-areas of a landlocked watershed, the proposed project does not increase the predevelopment volume or rate of discharge from the sub-area for the 10-year return period event.

- Flowage easements up to the 100-yr flood level have been secured for stormwater management facilities (such as ditches and storm sewers).

NA Lowest floor elevations of structures built adjacent to stormwater management features and other water bodies are a minimum of two feet above the 100-year flood elevation and a minimum of two feet above the natural overflow of landlocked basins.

**Volume Control Standards**

- Calculations/computer model results indicate stormwater volume is controlled for new development and redevelopment requirements per the MSCWMO Design Standards.

Volume Retention Required (cu. ft.)	Volume Retention Provided (cu. ft.)				
$3,440 \text{ sq. ft.} \times \frac{1.1 \text{ in}}{12 \text{ in/ft}} = 315 \text{ cu. ft.}$	<table border="0"> <tr> <td><b>BMP</b></td> <td><b>Volume</b></td> </tr> <tr> <td>Rain Garden #1</td> <td>770 cu. ft.</td> </tr> </table>	<b>BMP</b>	<b>Volume</b>	Rain Garden #1	770 cu. ft.
<b>BMP</b>	<b>Volume</b>				
Rain Garden #1	770 cu. ft.				
<b>Total Required Volume Retention = 315 cu. ft.</b>	<b>Total Provided Volume Retention = 770 cu. ft.</b>				

**Flexible Treatment Options (when applicable)**

- NA Applicant demonstrated qualifying restrictions as defined in Section 7.2.2 (4) of the 2015 MSCWMO Watershed Management Plan that prohibits the infiltration of the entire required volume.
- NA FTO #1: MIDS calculator submission removes 75% of the annual total phosphorous.
- NA FTO #2: MIDS calculator submission removes 60% of the annual total phosphorous.
- NA FTO #3: Offsite mitigation equivalent to the volume reduction standard is provided.

**Infiltration/Filtration Design Standards**

- Proposed stormwater management features meet or exceed NPDES General Construction Permit requirements are designed in conformance with the most recent edition of the State of Minnesota Stormwater Manual.
- None of the following conditions exist that prohibit infiltration of stormwater on the site
  - a. Areas where vehicle fueling and maintenance occur.
  - b. Areas where contaminants in soil or groundwater will be mobilized by infiltrating stormwater.
  - c. Areas where soil infiltration rates are field measured at more than 8.3 inches per hour unless amended to slow the infiltration rate below 8.3 inches per hour.
  - d. Areas with less than three (3) feet of separation distance from the bottom of the infiltration system to the elevation of the seasonally saturated soils or the top of bedrock.
  - e. Areas of Hydrologic Soil Group D (clay) soils
  - f. Areas within DSWMAs and ERAs unless infiltration is deemed appropriate based on Minnesota Stormwater Manual Guidance
  - g. Areas within 1,000 feet up-gradient, or 100 feet down-gradient of active karst features unless allowed by a local unit of government with a current MS4 permit.
  - h. Areas that receive runoff from industrial facilities not authorized to infiltration stormwater under the NPDES stormwater permit for industrial activities.

- Minimum setbacks from the Minnesota Department of Health for infiltration practices are met

Setback	Minimum Distance (ft.)
Property line	10
Building foundation*	10
Private well	35
Public water supply well	50
Septic system tank/leach field	35

\*Minimum with slopes directed away from the building

- Pretreatment devices(s) remove at least 50% of sediment loads. If downstream from a potential hot spot, a skimmer is in place to facilitate cleanup.
- Water quality volume will be discharged through infiltration or filtration media in 48 hours or less.
- For bioretention (biofiltration and bioinfiltration) volume control management facilities above ground with vegetation the period of inundation shall be calculated using the maximum water depth below the surface discharge elevation and the soil infiltration rate.
- For infiltration basin volume control management facilities the period of inundation shall be calculated using the maximum water depth below the surface discharge elevation and the soil infiltration rate.

- Appropriate soil borings have been conducted that meet the minimum standards.
    - a. A minimum of one boring was conducted at the location of the infiltration facility for facilities up to 1,000 ft<sup>2</sup>; between 1,000 and 5,000 ft<sup>2</sup>, two borings; between 5,000 and 10,000 ft<sup>2</sup>, three borings; and greater than 10,000 ft<sup>2</sup>, 4 borings plus an additional boring for every 2,500 ft<sup>2</sup> beyond 12,500 ft<sup>2</sup>.
    - b. Soil borings extend a minimum of five feet below the bottom of the infiltration practice. If fractured bedrock is suspected, the soil boring goes to a depth of at least ten feet below the proposed bottom of the volume control facility.
    - c. A minimum of three feet of separation to the seasonal water table and/or bedrock.
    - d. Identify unified soil classification.
  - The least permeable soils horizon identified in the soil boring dictated the infiltration rate.
- NA Additional flows are bypassed and are routed through stabilized discharge points.
- NA Filtration basin demonstrates a basin draw down between 24 hours and 48 hours.
- NA Filtration system Iron Enhanced Sand Filter is sized to bind soluble phosphorous removal for 30 year functional life of the system using the published value of 17lbs.phosphorous removal per 20 yards of 5% by weight iron filings to 95% sand.
- Identify as build survey and method to demonstrate infiltration or filtration basin is functioning.
  - Construction plans provide adequate construction guidance to prevent clogging or compaction and demonstrate performance.
    - a. Excavation within 2.0 feet of final grade for infiltration/filtration systems is prohibited until contributing drainage areas are constructed and fully stabilized.
    - b. Rigorous sediment and erosion controls planned to divert runoff away from the system.
    - c. Installation of volume control facilities must occur in dry soil conditions. Excavation, soil placement and rapid stabilization of perimeter slopes must be accomplished prior to the next precipitation event.
    - d. Excavation shall be performed by an excavator with a toothed bucket. Use excavator bucket to place materials. Construction equipment shall not be allowed into the basin.
    - e. Prior to the release of any remaining fee or security, the permit holder must provide documentation that constructed volume control facilities perform as designed.
  - There is a way to visually verify the system is operating as designed.
  - A minimum 8.0' maintenance access is provided to all stormwater facilities.

## EROSION AND SEDIMENT CONTROL PERFORMANCE STANDARDS

- A Stormwater Pollution Prevention Plan (SWPPP) that meets the National Pollutant Discharge Elimination System (NPDES) requirements.

### **Narrative**

- Identify the person knowledgeable and experienced who will oversee the implementation of the SWPPP; the installation, inspection, and maintenance of the BMPs.
  - a. Identifies the person who will oversee the BMP inspection and maintenance.
  - b. Identify the training requirements are satisfied.
  - c. Inspections performed once every 7 days.

- d. Inspections performed within 24 hours of a rain event greater than 0.5 in/24 hours.
- e. Inspection and Maintenance records include:
  - i. Date and time of inspection.
  - ii. Name of person(s) conducting inspections.
  - iii. Finding of inspections, including the specific location where corrective actions are needed.
  - iv. Corrective actions taken (including dates, times, and party completing maintenance activities).
  - v. Date and amount of rainfall events greater than 0.5 in/24 hours.
  - vi. Rainfall amounts must be obtained by a properly maintained rain gauge installed onsite, or by a weather station that is within one mile or by a weather reporting system.
  - vii. Requirements to observe, describe, and photograph any discharge that may be occurring during the inspection.
  - viii. All discovered nonfunctional BMPs must be repaired, replaced, or supplemented with functional BMPs within 24 hours after discovery, or as soon as field conditions allow.
- Describes procedures to amend the SWPPP and establish additional temporary ESC BMPs as necessary for site conditions.
- Describes the installation timing for all Erosion Sediment Control (ESC) Best Management Practices (BMPs).
- Describes final stabilization methods for all exposed areas.
- Methods used to minimize soil compaction and preserve topsoil must be described.
- NA Describes dewatering technique to prevent nuisance conditions, erosion, or inundation of wetlands.
- NA Identifies any specific chemicals and the chemical treatment systems that may be used for enhancing the sedimentation process on the site, and how compliance will be achieved with the permit requirements.
- Describes the following pollution prevention management measures:
  - a. Storage, handling, and disposal of construction products, materials, and wastes.
  - b. Fueling and maintenance of equipment or vehicles; spill prevention and response.
  - c. Vehicle and equipment washing.
  - d. No engine degreasing allowed on site.
  - e. Containment of Concrete and other washout waste.
  - f. Portable toilets are positioned so that they are secure.

### **Plan Sheets**

- NA Temporary Sediment Basins required (10 acres draining to common location or 5 acres App. A) and design meets the following criteria:
  - a. Adequately sized – 2-year, 24-hour storm, minimum 1,800 feet/acre; or no calculative minimum 3,600ft<sup>3</sup>/acre.
  - b. Designed to prevent short circuiting.
  - c. Outlets designed to remove floating debris.
  - d. Outlets designed to allow complete drawdown.
  - e. Outlets designed to withdraw water from the surface
  - f. Outlets have energy dissipation.
  - g. Have a stabilized emergency spillway.
  - h. Situated outside of surface waters and any natural buffers.

- Locations and types of all temporary and permanent Erosion Control BMPs.
  - a. Exposed soils have erosion protection/cover initiated immediately and finished within 7 days.
  - b. Wetted perimeters of ditches stabilized within 200 feet of surface water within 24 hours.
  - c. Pipe outlets have energy dissipation within 24 hours of connecting.
- Locations and types of all temporary and permanent Sediment Control BMPs.
  - a. Sediment control practices established on down gradient perimeters and upgradient of any buffer zones.
  - b. All inlets are protected. Stockpiles have sediment control and placed in areas away from surface waters or natural buffers.
  - c. Construction site entrances minimize street tracking?
  - d. Plans minimize soil compaction and, unless infeasible to preserve topsoil.
  - e. Fifty foot natural buffers preserved or (if not feasible) provide redundant sediment controls when a surface water is located within 50 feet of the project's earth disturbances and drains to the surface water.
- Tabulated quantities of all erosion prevention and sediment control BMPs.
- Stormwater flow directions and surface water divides for all pre- and post-construction drainage areas.

NA Locations of areas not to be disturbed (buffer zones).

NA Location of areas where construction will be phased to minimize duration of exposed soil areas.

NA Blufflines are protected from construction activities in urban (40 foot buffer) areas and rural areas (100-foot buffer).

### WETLAND PERFORMANCE STANDARDS

NA Direct discharge of stormwater to wetlands and all other water bodies without water quality treatment is prohibited.

NA Any potential changes to the hydrology of the wetland (i.e. changes to the outlet elevation or contributing drainage area) must be reviewed to evaluate the impact of both the existing and proposed wetland conditions and approved by the MSCWMO.

NA Land-altering activities shall not increase the bounce in water level or duration of inundation from a 2.0-inch 24-hour storm for any downstream wetland beyond the limit specified in Table 7.2 for the individual wetland susceptibility class.

### LAKE, STREAM AND WETLAND BUFFER PERFORMANCE STANDARDS

- NA A buffer zone of unmowed natural vegetation is maintained or created upslope of all water bodies (wetlands, streams, lakes).
- NA A 50 foot natural buffer or (if a buffer is infeasible) provide redundant sediment controls when a surface water is located within 50 feet of the project's earth disturbances and stormwater flows to the surface water.
- NA If adjacent to a Special or Impaired Water an undisturbed buffer zone of not less than 100 linear feet from the special water is maintained both during construction and as a permanent feature post construction.



June 23, 2025

Matt Kline  
City of Bayport  
294 N Third St.  
Bayport, MN 55003

Dear Mr. Kline,

The Middle St. Croix Watershed Management Organization (MSCWMO) received revised submittal items on June 17<sup>th</sup>, 2025 for the reconstruction of the home at 297 Lake St S within the MSCWMO boundaries and the City of Bayport. The proposed project qualifies for full review under the MSCWMO 2015 Watershed Management Plan (WMP). The MSCWMO board recommends approval with the following two conditions:

1. Erosion and sediment control plan notes must include stabilization of exposed soils within 7 days after construction activities in the area have temporarily or permanently ceased.
2. CUP application is reviewed by the MnDNR for compliance with NFIP regulations for internally flooded enclosed areas and a non-conversion agreement deed restriction is recorded.

MSCWMO review process information can be downloaded from [www.mscwmo.org](http://www.mscwmo.org). Please contact me at 651-796-2227 or [moldenburg-downing@mnwcd.org](mailto:moldenburg-downing@mnwcd.org) if you have any questions or comments regarding this correspondence.

Sincerely,

A handwritten signature in black ink, appearing to read "Matt Oldenburg-Downing".

Matt Oldenburg-Downing | Administrator  
Middle St. Croix Watershed Management Organization



# SLR PROJECT REVIEW CHECKLIST

**MSCWMO Review ID:** 25-014

**Review Date:** 6/23/2025

**Project Name:** Smith Home Reconstruction

**Location:** 297 Lake St S, Bayport

**Applicant:** Brad Smith

**Purpose:** Home Reconstruction

**Recommendation:** Approval with two conditions:

1. Erosion and sediment control plan notes must include stabilization of exposed soils within 7 days after construction activities in the area have temporarily or permanently ceased.
2. CUP application is reviewed by the MnDNR for compliance with NFIP regulations for internally flooded enclosed areas and a non-conversion agreement deed restriction is recorded.

**Submittal Items:**

- A completed and signed project review application form and \$350 review fee.
- Grading plan showing grading limits, existing and proposed site contour elevations related to NAVD 1988 datum (preferred) or NGVD, 1929.
- Location of proposed and existing permanent structures.
- Ordinary High Water (OHW) elevations and location of all existing water bodies.
- Location of all bluff lines.
- Lowest floor elevations of structures built adjacent to stormwater management features and other water bodies must be a minimum of two feet above the regulator flood protection elevation.
- Delineation of existing wetlands, shoreland, ordinary high water levels, drain tiling, and floodplain areas.

NA Details of proposed buffer upslope of water resources including site and vegetation characteristics (when applicable).

- Location of the 100-year flood elevation, natural overflow elevation, and lowest floor elevations.
- Erosion and sediment control plan demonstrating locations, specifications, and details of the following items:
  - A. Erosion Prevention
    - i. Stabilize all exposed soil areas (including stockpiles) with temporary erosion control (seed and mulch or blanket) within 7 days after construction activities in the area have temporarily or permanently ceased.
    - ii. Identify location, type and quantity of temporary erosion prevention practices.
    - iii. Identify permanent vegetation.

**B. Sediment Control**

- i. Sediment control practices will be placed down-gradient before up-gradient land disturbing activities begin.
- ii. Identify the location, type and quantity of sediment control practices.
- iii. Vehicle tracking practices must be in place to minimize track out of sediment from the construction site. Streets must be cleaned if tracking practices are not adequate to prevent sediment from being tracked onto the street.

**C. Inspections and Maintenance**

- i. Applicant must inspect all erosion prevention and sediment control practices once every 7 days or after a ½" rain event to ensure integrity and effectiveness. All nonfunctional practices must be repaired, replaced or enhanced the next business day after discovery.
- ii. Plans shall include contact information including email and a phone number of the person responsible for inspection and compliance with erosion and sediment control.

**D. Pollution Prevention**

- i. Solid waste must be stored, collected and disposed of in accordance with state law.
- ii. Provide effective containment for all liquid and solid wastes generated by washout operations (concrete, stucco, paint, form release oils, curing compounds).
- iii. Hazardous materials that have potential to leach pollutants must be under cover to minimize contact with stormwater.

**E. Final Stabilization**

- i. For residential construction only, individual lots are considered final stabilized if the structures are finished and temporary erosion protection and down gradient sediment control has been completed.
- ii. Grading and landscape plans shall include soil tillage and soil bed preparation methods that are employed prior to landscape installation to a minimum depth of 8" and incorporate amendments to meet Minnesota State Stormwater Manual predevelopment soil type bulk densities.
  1. Observe minimum setbacks for areas within the dripline of existing trees, over utilities within 30 in of the surface, where compaction is required by design and inaccessible slopes.

 **Details of proposed structural stormwater practices (Meets Minnesota Stormwater Manual guidelines)**

- A. Stormwater flows are diverted away from bluffs whenever feasible.
- B. Volume control facilities must drain down within 48 hours, as required by the MPCA NPDES Construction Stormwater Permit.
  - i. The period of inundation shall be calculated using the maximum water depth below the surface discharge elevation and the soil infiltration rate.
- C. The maximum water depth for volume control facilities is 1.5 feet.
- D. Planting plan identified vegetation suitable for the hydrology of the basin.
- E. Separation from seasonally saturated soils or bedrock is 3 feet or more for bioretention and infiltration practices.

F. Volume control facilities meet the following setback requirements:

Setback	Minimum Distance (ft.)
Property line	10
Building foundation*	10
Private well	35
Public water supply well	50
Septic system tank/leach field	35

\*Minimum with slopes directed away from the building

G. Volume control is provided for the first 1.1" inch of runoff for all impervious:

Volume Retention Required (cu. ft.)	Volume Retention Provided (cu. ft.)								
$5,368 \text{ sq. ft.} \times \frac{1.1 \text{ in}}{12 \text{ in/ft}} = 492 \text{ cu. ft.}$	<table border="0"> <tr> <td><b>BMP</b></td> <td><b>Volume</b></td> </tr> <tr> <td>RG #1</td> <td>243 cu. ft.</td> </tr> <tr> <td>RG #2</td> <td>214 cu. ft.</td> </tr> <tr> <td>RG #3</td> <td>320 cu. ft.</td> </tr> </table>	<b>BMP</b>	<b>Volume</b>	RG #1	243 cu. ft.	RG #2	214 cu. ft.	RG #3	320 cu. ft.
<b>BMP</b>	<b>Volume</b>								
RG #1	243 cu. ft.								
RG #2	214 cu. ft.								
RG #3	320 cu. ft.								
<b>Total Required Volume Retention = 492 cu. ft.</b>	<b>Total Provided Volume Retention = 777 cu. ft.</b>								

H. Construction Standards

- i. To prevent soil compaction, the proposed volume control facility must be staked off and marked during construction to prevent heavy equipment and traffic from traveling over it.
- ii. Facilities may not be excavated within 2.0 feet of final grade until the contributing drainage area has been constructed and fully stabilized.
- iii. Facilities are in-place during construction activities, all sediment and runoff must be diverted away the facility, using practices such as pipe capping or diversions.
- iv. Facilities installation must occur in dry soil conditions. Excavation, soil placement and rapid stabilization of perimeter slopes must be accomplished prior to the next precipitation event.
- v. Excavation shall be performed by an excavator with a toothed bucket. Use excavator bucket to place materials. Construction equipment shall not be allowed into the basin.
- vi. Prior to the release of any remaining fee or security, the owner must provide documentation that constructed volume control facilities perform as designed.

I. Details

- i. Include a standard cross section of the infiltration device similar to those identified in the Minnesota Stormwater Manual ([https://stormwater.pca.state.mn.us/index.php/Bioretenention\\_plan\\_and\\_section\\_drawings](https://stormwater.pca.state.mn.us/index.php/Bioretenention_plan_and_section_drawings))
- ii. The cross section must detail the infiltration media used in the device. Typically, devices use Mix B as described in the Minnesota Stormwater Manual: A well-blended, homogenous mixture of 70 to 85 percent washed construction sand; and 15 to 30 percent MnDOT Grade 2 compost.



June 23, 2025

Shawn Sanders  
City of Stillwater  
216 N Fourth Street  
Stillwater, MN 55082

Dear Mr. Sanders,

The Middle St. Croix Watershed Management Organization (MSCWMO) received revised submittal items on June 19<sup>th</sup>, 2025 for the office building construction at 1365 Curve Crest Blvd within the MSCWMO boundaries and the City of Stillwater. The proposed project qualifies for full review under the MSCWMO 2015 Watershed Management Plan (WMP). The MSCWMO board recommends approval with the following three conditions:

1. Drainage easements for stormwater management facilities up to the 100—year flood level and a proposed maintenance agreement are provided.
2. Contact information and training documentation for person responsible for oversight and implementation of the SWPPP is provided.
3. Tabulated quantities of all erosion prevention and sediment control BMPs are provided

MSCWMO review process information can be downloaded from [www.mscwmo.org](http://www.mscwmo.org). Please contact me at 651-796-2227 or [moldenburg-downing@mnwcd.org](mailto:moldenburg-downing@mnwcd.org) if you have any questions or comments regarding this correspondence.

Sincerely,

A handwritten signature in black ink, appearing to read "Matt Oldenburg-Downing".

Matt Oldenburg-Downing | Administrator  
Middle St. Croix Watershed Management Organization



**MSCWMO Review ID:** 25-015

**Review Date:** 6/23/2025

**Project Name:** RRW Properties Office Building

**Location:** 1365 Curve Crest Blvd, Stillwater

**Applicant:** Tony Kraftson

**Purpose:** New office construction

**Recommendation:** Approval with 3 conditions:

1. Drainage easements for stormwater management facilities up to the 100—year flood level and a proposed maintenance agreement are provided.
2. Contact information and training documentation for person responsible for oversight and implementation of the SWPPP is provided.
3. Tabulated quantities of all erosion prevention and sediment control BMPs are provided

**Applicability:**

- Any project undertaking grading, filling, or other land alteration activities which involve movement of 100 cubic yards of earth or removal of vegetation on greater than 10,000 square feet of land.
- Any project that creates or fully reconstruct 6,000 square feet or more of impervious surface.
- All major subdivisions or minor subdivisions that are part of a common plan of development. Major subdivisions are defined as subdivisions with 4 or more lots.
- Any project with wetland impacts, grading within public waters, grading within buffers or within 40-feet of the bluff line.
- Development projects that impact 2 or more of the member communities.
- New or redevelopment projects within the St. Croix Riverway that require a building permit that add 500 square feet of additional impervious surface.
- Any project requiring a variance from the current local impervious surface zoning requirements for the property.
- Any land development activity, regardless of size, that the City determines is likely to cause an adverse impact to an environmentally sensitive area or other property, or may violate any other erosion and sediment control standard set by the member community.

**Submittal Items:**

- A completed and signed project review application form and review fee.
- Grading Plan/Mapping Exhibits:
  - Property lines and delineation of lands under ownership of the applicant.
  - NA Delineation of existing on-site wetlands, shoreland and/or floodplain areas (including any buffers).

NA Ordinary High Water (OHW) elevations and datum, as determined by the MDNR (if applicable).

- Existing and proposed site contour elevations related to NAVD 1988 datum (preferred) or NGVD, 1929. Datum must be noted on exhibits.
- Drainage easements covering land adjacent to ponding areas, wetlands, and waterways up to their 100-year flood levels and covering all ditches and storm sewers. Access easements to these drainage easements and to other stormwater management facilities shall also be shown. (Not required for sites within public right-of-way)
- Minimum building elevation for each lot.
- Identification of downstream water body.
- Delineation of the subwatersheds contributing runoff from off-site, proposed and existing on-site subwatersheds, and flow directions/patterns.
- Location, alignment, and elevation of proposed and existing stormwater facilities.
- Existing and proposed normal water elevations and the critical (the highest) water level produced from the 100-year 24-hour storms.
- Location of the 100-year flood elevation, natural overflow elevation, and lowest floor elevations.
- A Stormwater Pollution Prevention Plan in compliance with the requirements of the NPDES SDS Construction Stormwater Permit.
- Permanent Stormwater Management System in compliance with the requirements of the NPDES SDS Construction Stormwater Permit and MSCWMO Performance Standards.
  - Impervious areas (Pre- and Post-Construction).
  - Construction plans and specifications for all proposed stormwater management facilities.
- NA Location(s) of past, current or future onsite well and septic systems (if applicable).
- Other exhibits required to show conformance to these Performance Standards.
- Hydrologic/Hydraulic Design Exhibits:
  - All hydrologic and hydraulic computations completed to design the proposed stormwater management facilities shall be submitted. Model summaries must be submitted. The summaries shall include a map that corresponds to the drainage areas in the model and all other information used to develop the model.
  - A table (or tables) must be submitted showing the following:
    - A listing of all points where runoff leaves the site and the existing and proposed stormwater runoff rates and volumes.
    - A listing of the normal water levels under existing and proposed conditions and the water levels produced from the storm and runoff events listed above for all on-site wetlands, ponds, depressions, lakes, streams, and creeks.
- A proposed maintenance agreement, which may be in the format of Appendix I, or other form approved by the city.

- This site drains to, and is within one mile of special or impaired water and complies NPDES CSW additional requirements. **Drains to Lily Lake - delisted**

**STORMWATER MANAGEMENT PERFORMANCE STANDARDS**

- Water quality treatment is provided prior to direct discharge of stormwater to wetlands and all other water bodies.

**Rate and Flood Control Standards**

- The peak rate of stormwater runoff from a newly developed or redeveloped site shall not exceed the 2-, 10-, and 100-year 24-hour storms with respective 2.8, 4.2, and 7.3-inch rainfall depths with MSCWMO approved time distribution based on Atlas 14 for existing and proposed conditions. The runoff curve number for existing agriculture areas shall be less than or equal to the developed condition curve number. The newly developed or redeveloped peak rate shall not exceed the existing peak rate of runoff for all critical duration events, up to and including the 100-year return frequency storm event for all points where discharges leave a site during all phases of development.
- Predevelopment conditions assume “good hydrologic conditions” for appropriate land covers as identified in TR-55 or an equivalent methodology. Runoff curve numbers have been increased where predevelopment land cover is cropland:

Hydrologic Soil Group A	Runoff Curve Number 56
Hydrologic Soil Group B	Runoff Curve Number 70
Hydrologic Soil Group C	Runoff Curve Number 79
Hydrologic Soil Group D	Runoff Curve Number 83

- Computer modeling analyses includes secondary overflows for events exceeding the storm sewer systems level-of-service up through the critical 100-year event.

NA In sub-areas of a landlocked watershed, the proposed project does not increase the predevelopment volume or rate of discharge from the sub-area for the 10-year return period event.

- Flowage easements up to the 100-yr flood level have been secured for stormwater management facilities (such as ditches and storm sewers).**
- Lowest floor elevations of structures built adjacent to stormwater management features and other water bodies are a minimum of two feet above the 100-year flood elevation and a minimum of two feet above the natural overflow of landlocked basins.

**Volume Control Standards**

- Calculations/computer model results indicate stormwater volume is controlled for new development and redevelopment requirements per the MSCWMO Design Standards.

Volume Retention Required (cu. ft.)	Volume Retention Provided (cu. ft.)	
$19,587 \text{ sq. ft.} \times \frac{1.1 \text{ in}}{12 \text{ in/ft}} = 1,795 \text{ cu. ft.}$	<b>BMP</b>	<b>Volume</b>
	Disconnected Imperv	339 cu. ft.
	Biofiltration	22 cu. ft.

<b>Total Required Volume Retention = 1,795 cu. ft.</b>	<b>Total Provided Volume Retention = 361 cu. ft.</b>
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**Flexible Treatment Options (when applicable)**

- Applicant demonstrated qualifying restrictions as defined in Section 7.2.2 (4) of the 2015 MSCWMO Watershed Management Plan that prohibits the infiltration of the entire required volume. **Area within high vulnerability DWSMA**
- FTO #1: MIDS calculator submission removes 75% of the annual total phosphorous.
- FTO #2: MIDS calculator submission removes 60% of the annual total phosphorous. **62% TP removal**
- FTO #3: Offsite mitigation equivalent to the volume reduction standard is provided.

**Infiltration/Filtration Design Standards**

- Proposed stormwater management features meet or exceed NPDES General Construction Permit requirements are designed in conformance with the most recent edition of the State of Minnesota Stormwater Manual.
- None of the following conditions exist that prohibit infiltration of stormwater on the site
  - a. Areas where vehicle fueling and maintenance occur.
  - b. Areas where contaminants in soil or groundwater will be mobilized by infiltrating stormwater.
  - c. Areas where soil infiltration rates are field measured at more than 8.3 inches per hour unless amended to slow the infiltration rate below 8.3 inches per hour.
  - d. Areas with less than three (3) feet of separation distance from the bottom of the infiltration system to the elevation of the seasonally saturated soils or the top of bedrock.
  - e. Areas of Hydrologic Soil Group D (clay) soils
  - f. **Areas within DSWMAs and ERAs unless infiltration is deemed appropriate based on Minnesota Stormwater Manual Guidance**
  - g. Areas within 1,000 feet up-gradient, or 100 feet down-gradient of active karst features unless allowed by a local unit of government with a current MS4 permit.
  - h. Areas that receive runoff from industrial facilities not authorized to infiltration stormwater under the NPDES stormwater permit for industrial activities.
- Minimum setbacks from the Minnesota Department of Health for infiltration practices are met

Setback	Minimum Distance (ft.)
Property line	10
Building foundation*	10
Private well	35
Public water supply well	50
Septic system tank/leach field	35

\*Minimum with slopes directed away from the building

- Pretreatment devices(s) remove at least 50% of sediment loads. If downstream from a potential hot spot, a skimmer is in place to facilitate cleanup.
- Water quality volume will be discharged through infiltration or filtration media in 48 hours or less.

- For bioretention (biofiltration and bioinfiltration) volume control management facilities above ground with vegetation the period of inundation shall be calculated using the maximum water depth below the surface discharge elevation and the soil infiltration rate.
  - For infiltration basin volume control management facilities the period of inundation shall be calculated using the maximum water depth below the surface discharge elevation and the soil infiltration rate.
  - Appropriate soil borings have been conducted that meet the minimum standards.
    - a. A minimum of one boring was conducted at the location of the infiltration facility for facilities up to 1,000 ft<sup>2</sup>; between 1,000 and 5,000 ft<sup>2</sup>, two borings; between 5,000 and 10,000 ft<sup>2</sup>, three borings; and greater than 10,000 ft<sup>2</sup>, 4 borings plus an additional boring for every 2,500 ft<sup>2</sup> beyond 12,500 ft<sup>2</sup>.
    - b. Soil borings extend a minimum of five feet below the bottom of the infiltration practice. If fractured bedrock is suspected, the soil boring goes to a depth of at least ten feet below the proposed bottom of the volume control facility.
    - c. A minimum of three feet of separation to the seasonal water table and/or bedrock.
    - d. Identify unified soil classification.
  - The least permeable soils horizon identified in the soil boring dictated the infiltration rate.
  - Additional flows are bypassed and are routed through stabilized discharge points.
  - Filtration basin demonstrates a basin draw down between 24 hours and 48 hours.
- NA Filtration system Iron Enhanced Sand Filter is sized to bind soluble phosphorous removal for 30 year functional life of the system using the published value of 17lbs.phosphorous removal per 20 yards of 5% by weight iron filings to 95% sand.
- Identify as build survey and method to demonstrate infiltration or filtration basin is functioning.
  - Construction plans provide adequate construction guidance to prevent clogging or compaction and demonstrate performance.
    - a. Excavation within 2.0 feet of final grade for infiltration/filtration systems is prohibited until contributing drainage areas are constructed and fully stabilized.
    - b. Rigorous sediment and erosion controls planned to divert runoff away from the system.
    - c. Installation of volume control facilities must occur in dry soil conditions. Excavation, soil placement and rapid stabilization of perimeter slopes must be accomplished prior to the next precipitation event.
    - d. Excavation shall be performed by an excavator with a toothed bucket. Use excavator bucket to place materials. Construction equipment shall not be allowed into the basin.
    - e. Prior to the release of any remaining fee or security, the permit holder must provide documentation that constructed volume control facilities perform as designed.
  - There is a way to visually verify the system is operating as designed.
  - A minimum 8.0' maintenance access is provided to all stormwater facilities.

## EROSION AND SEDIMENT CONTROL PERFORMANCE STANDARDS

- A Stormwater Pollution Prevention Plan (SWPPP) that meets the National Pollutant Discharge Elimination System (NPDES) requirements.

### **Narrative**

- Identify the person knowledgeable and experienced who will oversee the implementation of the SWPPP; the installation, inspection, and maintenance of the BMPs.
  - a. Identifies the person who will oversee the BMP inspection and maintenance.
  - b. Identify the training requirements are satisfied.
  - c. Inspections performed once every 7 days.
  - d. Inspections performed within 24 hours of a rain event greater than 0.5 in/24 hours.
  - e. Inspection and Maintenance records include:
    - i. Date and time of inspection.
    - ii. Name of person(s) conducting inspections.
    - iii. Finding of inspections, including the specific location where corrective actions are needed.
    - iv. Corrective actions taken (including dates, times, and party completing maintenance activities).
    - v. Date and amount of rainfall events greater than 0.5 in/24 hours.
    - vi. Rainfall amounts must be obtained by a properly maintained rain gauge installed onsite, or by a weather station that is within one mile or by a weather reporting system.
    - vii. Requirements to observe, describe, and photograph any discharge that may be occurring during the inspection.
    - viii. All discovered nonfunctional BMPs must be repaired, replaced, or supplemented with functional BMPs within 24 hours after discovery, or as soon as field conditions allow.
- Describes procedures to amend the SWPPP and establish additional temporary ESC BMPs as necessary for site conditions.
- Describes the installation timing for all Erosion Sediment Control (ESC) Best Management Practices (BMPs).
- Describes final stabilization methods for all exposed areas.
- Methods used to minimize soil compaction and preserve topsoil must be described.
- NA Describes dewatering technique to prevent nuisance conditions, erosion, or inundation of wetlands.
- NA Identifies any specific chemicals and the chemical treatment systems that may be used for enhancing the sedimentation process on the site, and how compliance will be achieved with the permit requirements.
- Describes the following pollution prevention management measures:
  - a. Storage, handling, and disposal of construction products, materials, and wastes.
  - b. Fueling and maintenance of equipment or vehicles; spill prevention and response.
  - c. Vehicle and equipment washing.
  - d. No engine degreasing allowed on site.
  - e. Containment of Concrete and other washout waste.
  - f. Portable toilets are positioned so that they are secure.

### **Plan Sheets**

- NA Temporary Sediment Basins required (10 acres draining to common location or 5 acres App. A) and design meets the following criteria:
  - a. Adequately sized – 2-year, 24-hour storm, minimum 1,800 feet/acre; or no calculative minimum 3,600ft<sup>3</sup>/acre.
  - b. Designed to prevent short circuiting.
  - c. Outlets designed to remove floating debris.

- d. Outlets designed to allow complete drawdown.
- e. Outlets designed to withdraw water from the surface
- f. Outlets have energy dissipation.
- g. Have a stabilized emergency spillway.
- h. Situated outside of surface waters and any natural buffers.

- Locations and types of all temporary and permanent Erosion Control BMPs.
  - a. Exposed soils have erosion protection/cover initiated immediately and finished within 14 days.
  - b. Wetted perimeters of ditches stabilized within 200 feet of surface water within 24 hours.
  - c. Pipe outlets have energy dissipation within 24 hours of connecting.
- Locations and types of all temporary and permanent Sediment Control BMPs.
  - a. Sediment control practices established on down gradient perimeters and upgradient of any buffer zones.
  - b. All inlets are protected.
  - c. Stockpiles have sediment control and placed in areas away from surface waters or natural buffers.
  - d. Construction site entrances minimize street tracking?
  - e. Plans minimize soil compaction and, unless infeasible to preserve topsoil.
  - f. Fifty foot natural buffers preserved or (if not feasible) provide redundant sediment controls when a surface water is located within 50 feet of the project's earth disturbances and drains to the surface water.
- Tabulated quantities of all erosion prevention and sediment control BMPs.**
- Stormwater flow directions and surface water divides for all pre- and post-construction drainage areas.

NA Locations of areas not to be disturbed (buffer zones).

NA Location of areas where construction will be phased to minimize duration of exposed soil areas.

NA Blufflines are protected from construction activities in urban (40 foot buffer) areas and rural areas (100-foot buffer).

## WETLAND PERFORMANCE STANDARDS

NA Direct discharge of stormwater to wetlands and all other water bodies without water quality treatment is prohibited.

NA Any potential changes to the hydrology of the wetland (i.e. changes to the outlet elevation or contributing drainage area) must be reviewed to evaluate the impact of both the existing and proposed wetland conditions and approved by the MSCWMO.

NA Land-altering activities shall not increase the bounce in water level or duration of inundation from a 2.0-inch 24-hour storm for any downstream wetland beyond the limit specified in Table 7.2 for the individual wetland susceptibility class.

## LAKE, STREAM AND WETLAND BUFFER PERFORMANCE STANDARDS

- NA A buffer zone of unmowed natural vegetation is maintained or created upslope of all water bodies (wetlands, streams, lakes).
- NA A 50 foot natural buffer or (if a buffer is infeasible) provide redundant sediment controls when a surface water is located within 50 feet of the project's earth disturbances and stormwater flows to the surface water.

NA If adjacent to a Special or Impaired Water an undisturbed buffer zone of not less than 100 linear feet from the special water is maintained both during construction and as a permanent feature post construction.

# RRW Properties Office Building

## STORMWATER CALCULATIONS BY LARSON ENGINEERING

**6/19/25**

### CONTENTS:

1. Stormwater Runoff Summary
2. Existing Drainage Map
3. HydroCAD Report for Existing Conditions  
(2-yr, 10-yr and 100-yr events)
4. Proposed Drainage Map
5. HydroCAD Report for Proposed Conditions  
(2-yr, 10-yr and 100-yr events)
6. Soil Borings
7. MIDS Report

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



6/19/25

41371

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Torry Kraftson, P.E.

Date

Registration No.

## *RRW Properties Office Building*

### **SUMMARY OF STORMWATER RUNOFF**

**Introduction:**

The project will consist of the construction of a new building, bituminous parking lot, sidewalks, stormwater basins, and related utilities. There are no wetland impacts associated with the project.

Curve Numbers used in the stormwater models:

- 61, Pervious (SP-SM Soils)
- 98, Impervious

**Erosion Control:**

Silt fence/sediment logs shall line the down gradient slopes of the project and a rock construction entrance will be used to help control sediment removal from the site. Erosion control blankets will be utilized to stabilize side slopes.

**Stormwater Peak Runoff Rate:**

Per MSCWMO Runoff Control Requirements, proposed runoff rates shall not exceed existing runoff rates for the 2-year, 10-year, and 100-year 24 hour critical storm events using Atlas 14 storm distributions.

**Peak Runoff Rates** (in cubic feet per second):

	Existing	Proposed
<b>2-year event</b>		
<i>Offsite North [A]</i>	0.11	0.08
<i>Offsite East [B]</i>	0.12	0.04
<b>10-year event</b>		
<i>Offsite North [A]</i>	0.48	0.47
<i>Offsite East [B]</i>	0.53	0.17
<b>100-year event</b>		
<i>Offsite North [A]</i>	1.76	1.68
<i>Offsite East [B]</i>	1.84	0.59

**Water Quality**

Due to the project's location in a Drinking Water Supply Management Area, the City of Stillwater is prohibiting infiltration. A filtration basin has been designed in the northeast corner of the site. The parking lot drains to a rain guardian structure which discharges to the filtration basin. The roof runoff is directed across grass surfaces prior to reaching the filtration basin. The Disconnected Impervious from the roof runoff and the filtration basin combine for 62% Total Phosphorous removal and 82% removal of Total Suspended Solids (see MIDS report).

Filtration Basin Drawdown

Peak Elevation (948.35) at 12.4 hours

Basin Bottom (944.50) at 36.00 hours (23.6 hour drawdown)

**Freeboard Requirement**

Lowest Building FFE: 951.50'

Basin HWL: 948.35'

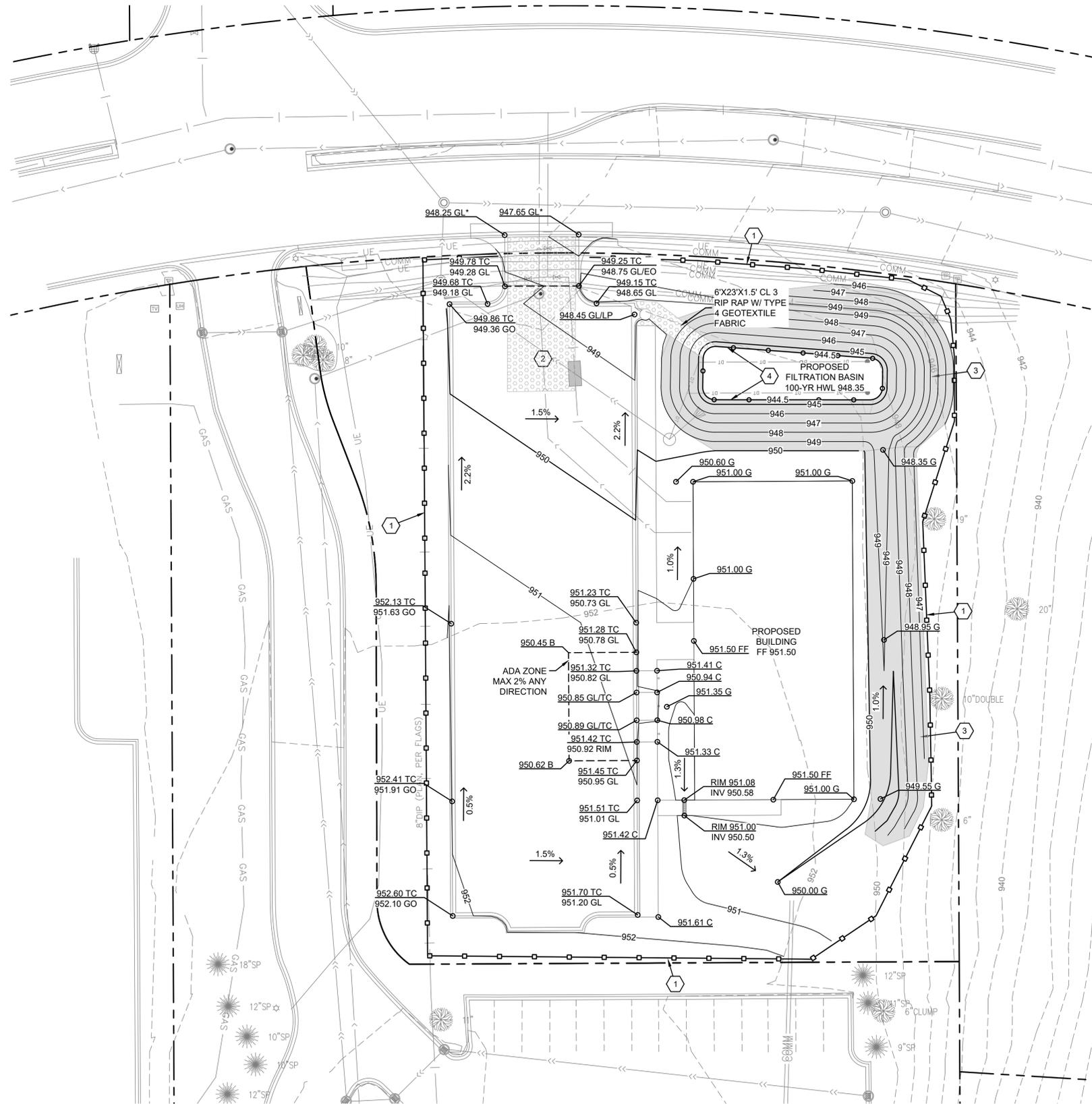
EOF 948.75'

HWL Freeboard = 3.15'

EOF Freeboard= 2.75'







### EROSION CONTROL NOTES

- Install temporary erosion control measures (inlet protection, silt fence, and rock construction entrances) prior to beginning any excavation or demolition work at the site.
- Erosion control measures shown on the erosion control plan are the absolute minimum. The contractor shall install temporary earth dikes, sediment traps or basins, additional siltation fencing, and/or disk the soil parallel to the contours as deemed necessary to further control erosion. All changes shall be recorded in the SWPPP.
- All construction site entrances shall be surfaced with crushed rock across the entire width of the entrance and from the entrance to a point 50' into the construction zone.
- The toe of the silt fence shall be trenched in a minimum of 6". The trench backfill shall be compacted with a vibratory plate compactor.
- All grading operations shall be conducted in a manner to minimize the potential for site erosion. Sediment control practices must be established on all down gradient perimeters before any up gradient land disturbing activities begin.
- All exposed soil areas must be stabilized as soon as possible to limit soil erosion but in no case later than 14 days after the construction activity in that portion of the site has temporarily or permanently ceased. Temporary stockpiles without significant silt, clay or organic components (e.g., clean aggregate stockpiles, demolition concrete stockpiles, sand stockpiles) and the constructed base components of roads, parking lots and similar surfaces are exempt from this requirement.
- The normal wetted perimeter of any temporary or permanent drainage ditch or swale that drains water from any portion of the construction site, or diverts water around the site, must be stabilized within 200 lineal feet from the property edge, or from the point of discharge into any surface water. Stabilization of the last 200 lineal feet must be completed within 24 hours after connecting to a surface water. Stabilization of the remaining portions of any temporary or permanent ditches or swales must be complete within 14 days after connecting to a surface water and construction in that portion of the ditch has temporarily or permanently ceased.
- Pipe outlets must be provided with energy dissipation within 24 hours of connection to surface water.
- All riprap shall be installed with a filter material or soil separation fabric and comply with the Minnesota Department of Transportation Standard Specifications.
- All storm sewers discharging into wetlands or water bodies shall outlet at or below the normal water level of the respective wetland or water body at an elevation where the downstream slope is 1 percent or flatter. The normal water level shall be the invert elevation of the outlet of the wetland or water body.
- All storm sewer catch basins not needed for site drainage during construction shall be covered to prevent runoff from entering the storm sewer system. Catch basins necessary for site drainage during construction shall be provided with inlet protection.
- In areas where concentrated flows occur (such as swales and areas in front of storm catch basins and intakes) the erosion control facilities shall be backed by stabilization structure to protect those facilities from the concentrated flows.
- Inspect the construction site once every seven days during active construction and within 24 hours after a rainfall event greater than 0.5 inches in 24 hours. All inspections shall be recorded in the SWPPP.
- All BMPs must be repaired, replaced, or supplemented when they become nonfunctional or the sediment reaches 1/3 of the capacity of the BMP. These repairs must be made within 24 hours of discovery, or as soon as field conditions allow access. All repairs shall be recorded in the SWPPP.
- If sediment escapes the construction site, off-site accumulations of sediment must be removed in a manner and at a frequency sufficient to minimize off-site impacts.
- All soils tracked onto pavement shall be removed daily.
- All infiltration areas must be inspected to ensure that no sediment from ongoing construction activity is reaching the infiltration area and these areas are protected from compaction due to construction equipment driving across the infiltration area.
- Temporary soil stockpiles must have silt fence or other effective sediment controls, and cannot be placed in surface waters, including stormwater conveyances such as curb and gutter systems, or conduits and ditches unless there is a bypass in place for the stormwater.
- Collected sediment, asphalt and concrete millings, floating debris, paper, plastic, fabric, construction and demolition debris and other wastes must be disposed of properly and must comply with MPCA disposal requirements.
- Oil, gasoline, paint and any hazardous substances must be properly stored, including secondary containment, to prevent spills, leaks or other discharge. Restricted access to storage areas must be provided to prevent vandalism. Storage and disposal of hazardous waste must be in compliance with MPCA regulations.
- External washing of trucks and other construction vehicles must be limited to a defined area of the site. Runoff must be contained and waste properly disposed of. No engine degreasing is allowed onsite.
- All liquid and solid wastes generated by concrete washout operations must be contained in a leak-proof containment facility or impermeable liner. A compacted clay liner that does not allow washout liquids to enter ground water is considered an impermeable liner. The liquid and solid wastes must not contact the ground, and there must not be runoff from the concrete washout operations or areas. Liquid and solid wastes must be disposed of properly and in compliance with MPCA regulations. A sign must be installed adjacent to each washout facility to inform concrete equipment operators to utilize the proper facilities.
- Upon completion of the project and stabilization of all graded areas, all temporary erosion control facilities (silt fences, hay bales, etc.) shall be removed from the site.
- All permanent sedimentation basins must be restored to their design condition immediately following stabilization of the site.
- Contractor shall submit Notice of Termination for MPCA-NPDES permit within 30 days after Final Stabilization.

### SYMBOL LEGEND

- 950 --- EXISTING CONTOURS
- 950 --- PROPOSED CONTOURS - MAJOR INTERVAL
- 949 --- PROPOSED CONTOURS - MINOR INTERVAL
- - - - - GRADE BREAK LINE
- 2.0% GRADE SLOPE
- SILT FENCE
- SEDIMENT LOG
- ▨ RIP-RAP / ROCK CONST. ENTRANCE
- EROSION CONTROL BLANKET

#### SPOT ABBREVIATIONS:

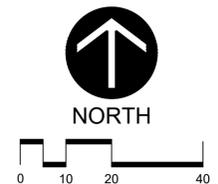
- TC - TOP OF CURB
- GL - GUTTER LINE
- GO - GUTTER OUT
- B - BITUMINOUS
- C - CONCRETE
- EO - EMERGENCY OVERFLOW
- (\*) - EXISTING TO BE VERIFIED

### KEY NOTES

- 1 SILT FENCE, SEE DETAIL 6/C500
- 2 CONSTRUCTION ROCK ENTRANCE, SEE DETAIL 5/C500
- 3 NEW EROSION CONTROL BLANKET, SEE DETAIL 7/C500
- 4 NEW SEDIMENT LOG, SEE DETAIL 4/C501

### GRADING NOTES

- Tree protection consisting of snow fence or safety fence installed at the drip line shall be in place prior to beginning any grading or demolition work at the site.
- All elevations with an asterisk (\*) shall be field verified. If elevations vary significantly, notify the Engineer for further instructions.
- Grades shown in paved areas represent finish elevation.
- All disturbed areas to receive 5" of good quality topsoil and seed.
- All construction shall be performed in accordance with state and local standard specifications for construction.



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 OAKDALE, MN

**RRW PROPERTIES OFFICE BUILDING**  
 1375 CURVE CREST BLVD  
 STILLWATER, MN

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

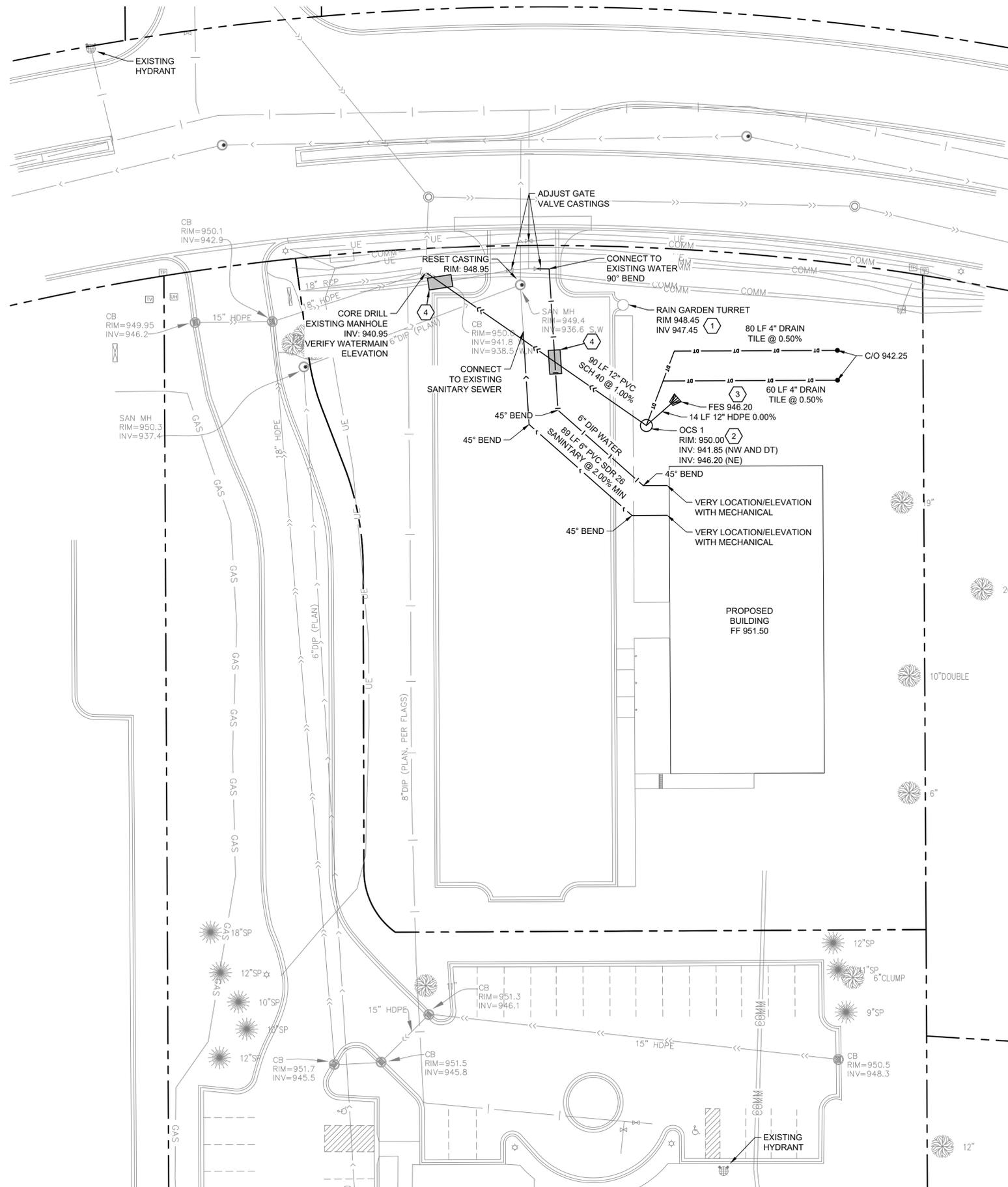
Torry Kraftson, P.E.  
 Date: 6.19.25 Lic. No.: 41371

Rev.	Date	Description

Project #: 12256037.000  
 Drawn By: TRK  
 Checked By:  
 Issue Date: 6.19.25  
 Sheet Title:

GRADING PLAN

Sheet: **C300**



### UTILITY NOTES

- It is the responsibility of the contractor to perform or coordinate all necessary utility connections and relocations from existing utility locations to the proposed building, as well as to all onsite amenities. These connections include but are not limited to water, sanitary sewer, cable TV, telephone, gas, electric, site lighting, etc.
- All service connections shall be performed in accordance with state and local standard specifications for construction. Utility connections (sanitary sewer, watermain, and storm sewer) may require a permit from the City.
- The contractor shall verify the elevations at proposed connections to existing utilities prior to any demolition or excavation. All elevations with an asterisk (\*) shall be field verified. If elevations vary significantly, notify the Engineer for further instructions.
- The contractor shall notify all appropriate engineering departments and utility companies 72 hours prior to construction. All necessary precautions shall be made to avoid damage to existing utilities.
- Storm sewer requires testing in accordance with Minnesota plumbing code 4714.1107 where located within 10 feet of waterlines or the building.
- HDPE storm sewer piping shall meet ASTM F2306 and fittings shall meet ASTM D3212 joint pressure test. Installation shall meet ASTM C2321.
- All RCP pipe shown on the plans shall be MN/DOT class 3.
- Maintain a minimum of 7 1/2' of cover over all water lines and sanitary sewer lines. Where 7 1/2' of cover is not provided, install 2" rigid polystyrene insulation (MN/DOT 3760) with a thermal resistance of at least 5 and a compressive strength of at least 25 psi. Insulation shall be 8' wide, centered over pipe with 6" sand cushion between pipe and insulation. Where depth is less than 5', use 4" of insulation.
- Install water lines 18" above sewers. Where the sewer is less than 18" below the water line (or above), install sewer piping of materials approved for inside building use for 10 feet on each side of the crossing.
- All watermain piping shall be class 52 ductile iron pipe unless noted otherwise.
- See Project Specifications for bedding requirements.
- Pressure test and disinfect all new watermains in accordance with state and local requirements.
- Sanitary sewer piping shall be PVC, SDR-35 for depths less than 12', PVC SDR-26 for depths between 12' and 26', and class 52 D.I.P. for depths of 26' or more.
- A structure adjustment shall include removing and salvaging the existing casting assembly, removing existing concrete rings to the precast section. Install new rings and salvaged casting to proposed grades, cleaning casting flange by mechanical means to insure a sound surface and install an external chimney seal from casting to precast section. Chimney seals shall be Infi-Shield Uni-Band or an approved equal.

### SYMBOL LEGEND

- |   |                  |   |                  |
|---|------------------|---|------------------|
| ○ | STORM MANHOLE    | ⊗ | HYDRANT          |
| ○ | CATCH BASIN      | ⊗ | GATE VALVE & BOX |
| ⊞ | CURB INLET       | ⊗ | WATER SHUTOFF    |
| ▲ | FLARED END       | ☼ | LIGHT POLE       |
| ○ | SANITARY MANHOLE |   |                  |
- 
- |               |                              |
|---------------|------------------------------|
| — T — T —     | TELEPHONE LINE               |
| — OE —        | ELECTRIC OVERHEAD LINE       |
| — UE —        | ELECTRIC UNDERGROUND LINE    |
| — FBO — FBO — | FIBER OPTIC UNDERGROUND LINE |
| — GAS — GAS — | NATURAL GAS UNDERGROUND LINE |
| — S — S —     | SANITARY SEWER PIPE          |
| — W — W —     | STORM SEWER PIPE             |
| — T — T —     | TELEPHONE UNDERGROUND LINE   |
| — W — W —     | WATERMAIN PIPE               |
| — D — D —     | DRAINTILE PIPE               |

### KEY NOTES

- NEW RAIN GUARDIAN TURRETT, SEE DETAIL 1/C502
- NEW OUTLET CONTROL STRUCTURE, SEE DETAIL 2/C501
- NEW FLARED END SECTION, SEE DETAIL 5/C501
- 2' X 4' X 8' INSULATION, SEE DETAIL 6/C501  
PROVIDE MINIMUM 18" CLEARANCE BELOW STORM SEWER

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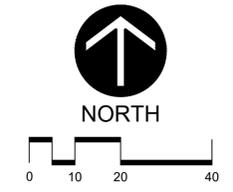
*Torry Kraftson*  
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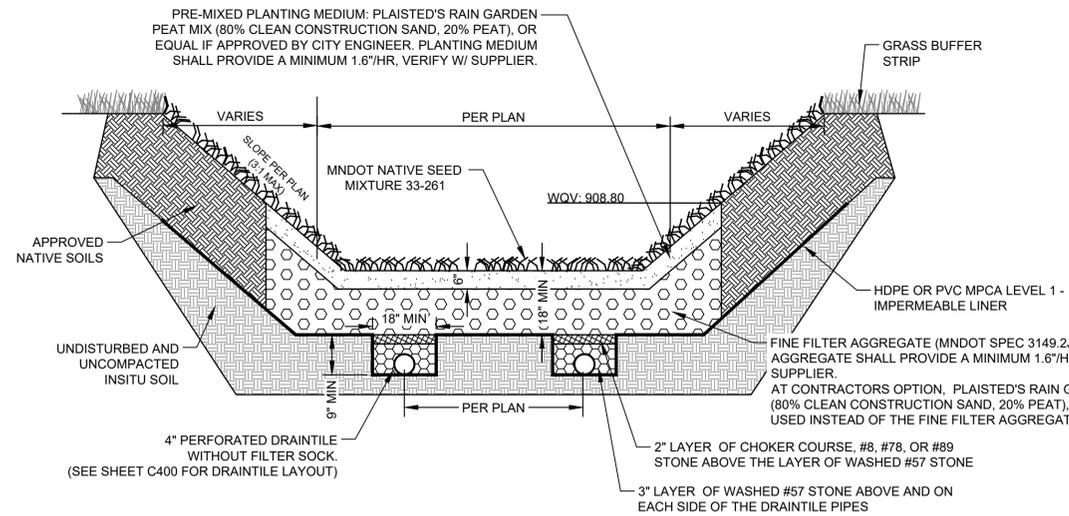
Rev.	Date	Description

Project #: 12256037.000  
 Drawn By: TRK  
 Checked By:  
 Issue Date: 6.19.25  
 Sheet Title:

UTILITY PLAN

Sheet: **C400**

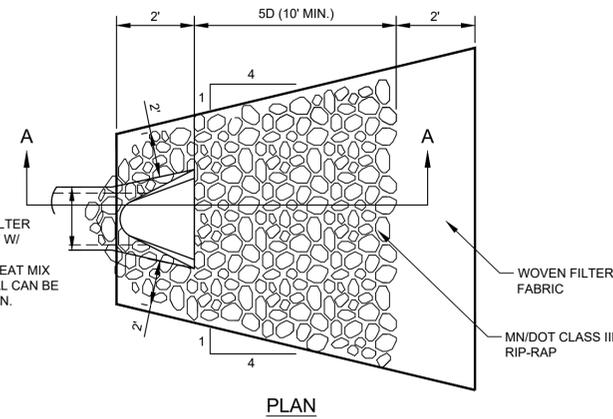




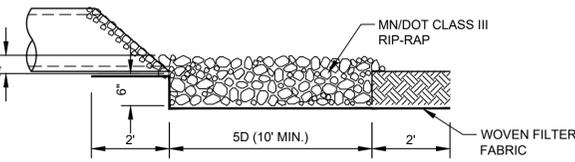
- FILTRATION BASIN NOTES:**
- SOILS WITHIN FILTRATION AREAS SHALL BE PROTECTED FROM COMPACTION DUE TO CONSTRUCTION TRAFFIC. AREAS SHALL BE STAKED AND MARKED OFF, WITH ONLY LOW IMPACT EQUIPMENT (TRACKED OR SIMILAR) ALLOWED.
  - BASIN BOTTOM MUST EXCAVATED TO THE BOTTOM INVERT OF DRAINTILE, ROCK, AND SAND SECTIONS AND SIT OPEN AND DRY FOR AT LEAST 48 HOURS AND PRIOR TO INSTALLATION OF ROCK, DRAINTILE, STONE, AND SAND SECTIONS.
  - PROVIDE AS-BUILT SURVEY TO VERIFY CONSTRUCTED VOLUME. CORRECT NON-COMPLIANT BASINS.

**FILTRATION BASIN CROSS SECTION**

7  
C501  
NOT TO SCALE



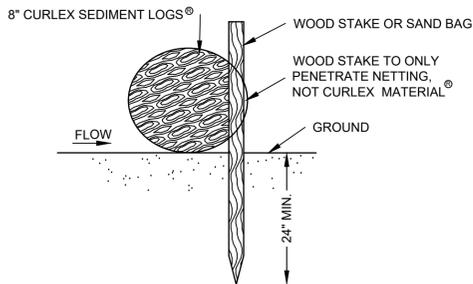
**SECTION A-A**



NOTE:  
500X MIRAFI FABRIC OR EQUAL

**RIP-RAP AT OUTLETS**

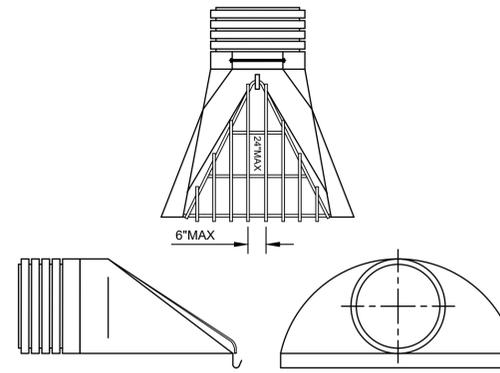
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NOTES:  
1. STAKE OR SAND BAG SPACING SHALL BE 2 FEET O.C.

**SEDIMENT LOG DETAIL**

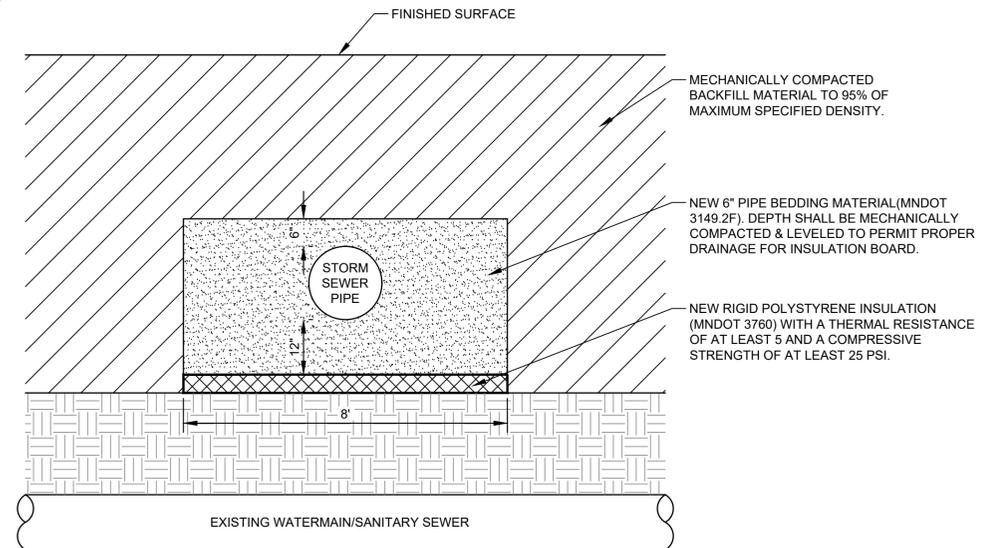
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NOT TO SCALE



PROVIDE 3 CLIPS TO FASTEN TRASH GUARD TO F.E.S. HOT DIP GALVANIZE AFTER FABRICATION.

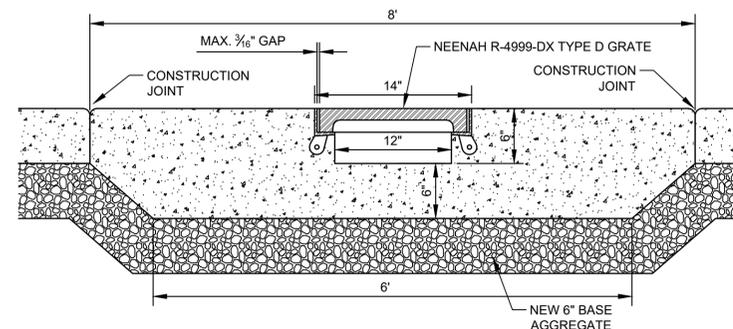
**FLARED END SECTION DETAIL**

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C501  
NOT TO SCALE



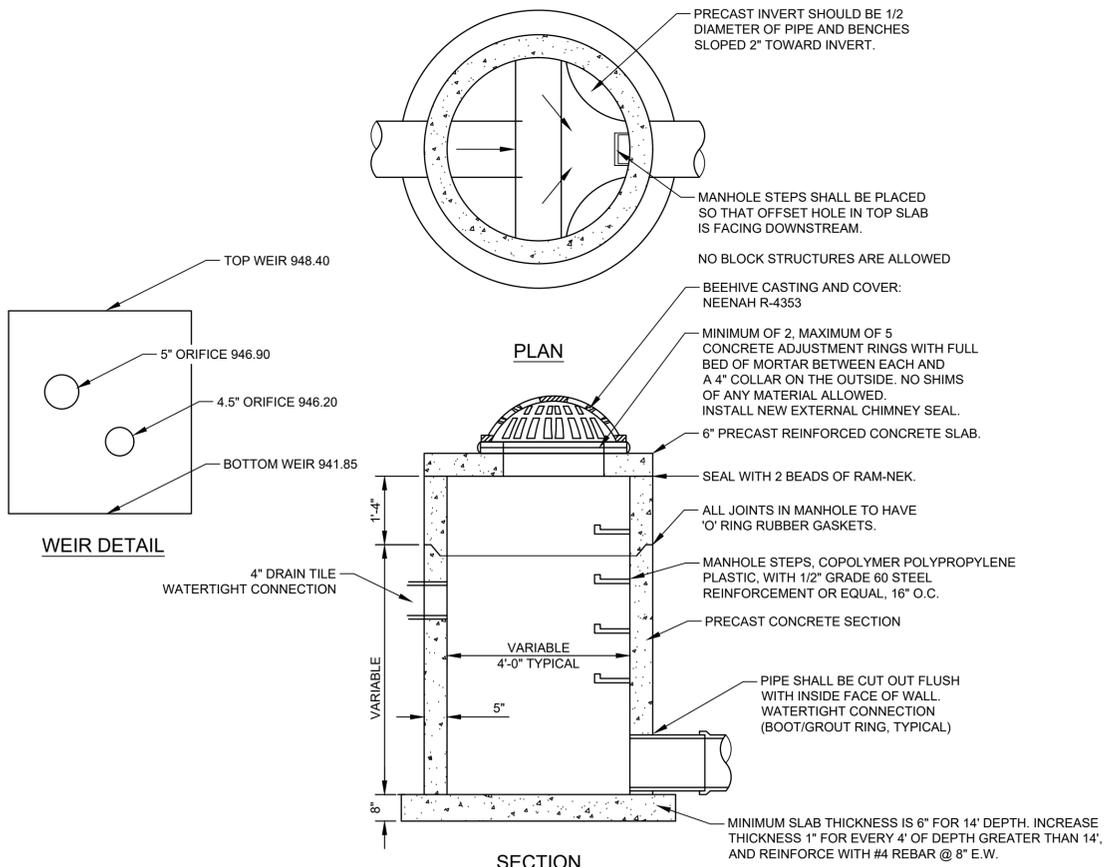
**INSULATION DETAIL**

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C501  
NOT TO SCALE



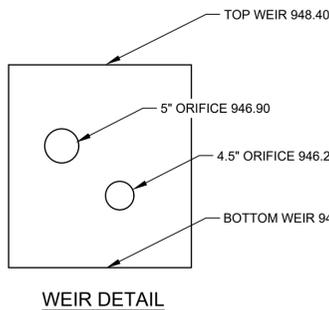
**TRENCH DRAIN DETAIL**

7  
C501  
NOT TO SCALE



**OUTLET CONTROL STRUCTURE MANHOLE DETAIL**

2  
C501  
NOT TO SCALE



**WEIR DETAIL**

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

Torry Kraftson, P.E.  
Date: 6.19.25 Lic. No.: 41371

Rev.	Date	Description

Project #: 12256037.000  
Drawn By: TRK  
Checked By:  
Issue Date: 6.19.25  
Sheet Title:

**DETAILS**

Sheet:  
**C501**



August 8, 2025

Shawn Sanders  
City of Stillwater  
216 N Fourth Street  
Stillwater, MN 55082

Dear Mr. Sanders,

The Middle St. Croix Watershed Management Organization (MSCWMO) received submittal items on July 9<sup>th</sup>, 2025 for the gas station reconstruction at 103 Main St N within the MSCWMO boundaries and the City of Stillwater. The proposed project qualifies for full review under the MSCWMO 2015 Watershed Management Plan (WMP) since it involves more than 6000 square feet of new/reconstructed impervious surface. The MSCWMO board recommends approval with the following one conditions:

1. Provide proposed easements for stormwater management facilities and a proposed maintenance and operations plan for the stormwater management facilities.

MSCWMO review process information can be downloaded from [www.mscwmo.org](http://www.mscwmo.org). Please contact me at 651-796-2227 or [moldenburg-downing@mnwcd.org](mailto:moldenburg-downing@mnwcd.org) if you have any questions or comments regarding this correspondence.

Sincerely,

A handwritten signature in black ink, appearing to read "Matt Oldenburg-Downing".

Matt Oldenburg-Downing | Administrator  
Middle St. Croix Watershed Management Organization



**MSCWMO Review ID:** 25-016

**Review Date:** 8/1/2025

**Project Name:** Gas Station

**Location:** 103 Main St N, Stillwater

**Applicant:** Jeffrey Prasch

**Purpose:** Reconstruction

**Recommendation:** Approval with one condition:

1. Provide proposed easements for stormwater management facilities and a proposed maintenance and operations plan for the stormwater management facilities.

**Applicability:**

- Any project undertaking grading, filling, or other land alteration activities which involve movement of 100 cubic yards of earth or removal of vegetation on greater than 10,000 square feet of land.
- Any project that creates or fully reconstruct 6,000 square feet or more of impervious surface.
- All major subdivisions or minor subdivisions that are part of a common plan of development. Major subdivisions are defined as subdivisions with 4 or more lots.
- Any project with wetland impacts, grading within public waters, grading within buffers or within 40-feet of the bluff line.
- Development projects that impact 2 or more of the member communities.
- New or redevelopment projects within the St. Croix Riverway that require a building permit that add 500 square feet of additional impervious surface.
- Any project requiring a variance from the current local impervious surface zoning requirements for the property.
- Any land development activity, regardless of size, that the City determines is likely to cause an adverse impact to an environmentally sensitive area or other property, or may violate any other erosion and sediment control standard set by the member community.

**Submittal Items:**

- A completed and signed project review application form and review fee.
- Grading Plan/Mapping Exhibits:
  - Property lines and delineation of lands under ownership of the applicant.
  - Delineation of existing on-site wetlands, shoreland and/or floodplain areas (including any buffers).
- NA Ordinary High Water (OHW) elevations and datum, as determined by the MDNR (if applicable).
- Existing and proposed site contour elevations related to NAVD 1988 datum (preferred) or NGVD, 1929. Datum must be noted on exhibits.

- Drainage easements covering land adjacent to ponding areas, wetlands, and waterways up to their 100-year flood levels and covering all ditches and storm sewers. Access easements to these drainage easements and to other stormwater management facilities shall also be shown. (Not required for sites within public right-of-way)

NA Minimum building elevation for each lot.

- Identification of downstream water body.
- Delineation of the subwatersheds contributing runoff from off-site, proposed and existing on-site subwatersheds, and flow directions/patterns.
- Location, alignment, and elevation of proposed and existing stormwater facilities.

NA Existing and proposed normal water elevations and the critical (the highest) water level produced from the 100-year 24-hour storms.

- Location of the 100-year flood elevation, natural overflow elevation, and lowest floor elevations.
- A Stormwater Pollution Prevention Plan in compliance with the requirements of the NPDES SDS Construction Stormwater Permit.
- Permanent Stormwater Management System in compliance with the requirements of the NPDES SDS Construction Stormwater Permit and MSCWMO Performance Standards.
  - Impervious areas (Pre- and Post-Construction).
  - Construction plans and specifications for all proposed stormwater management facilities.

NA Location(s) of past, current or future onsite well and septic systems (if applicable).

- Other exhibits required to show conformance to these Performance Standards.
- Hydrologic/Hydraulic Design Exhibits:
  - All hydrologic and hydraulic computations completed to design the proposed stormwater management facilities shall be submitted. Model summaries must be submitted. The summaries shall include a map that corresponds to the drainage areas in the model and all other information used to develop the model.

NA A table (or tables) must be submitted showing the following:

- A listing of all points where runoff leaves the site and the existing and proposed stormwater runoff rates and volumes.
- A listing of the normal water levels under existing and proposed conditions and the water levels produced from the storm and runoff events listed above for all on-site wetlands, ponds, depressions, lakes, streams, and creeks.
- A proposed maintenance agreement, which may be in the format of Appendix I, or other form approved by the city.
- This site drains to, and is within one mile of special or impaired water and complies NPDES CSW additional requirements.

**STORMWATER MANAGEMENT PERFORMANCE STANDARDS**

- Water quality treatment is provided prior to direct discharge of stormwater to wetlands and all other water bodies.

**Rate and Flood Control Standards**

- The peak rate of stormwater runoff from a newly developed or redeveloped site shall not exceed the 2-, 10-, and 100-year 24-hour storms with respective 2.8, 4.2, and 7.3-inch rainfall depths with MSCWMO approved time distribution based on Atlas 14 for existing and proposed conditions. The runoff curve number for existing agriculture areas shall be less than or equal to the developed condition curve number. The newly developed or redeveloped peak rate shall not exceed the existing peak rate of runoff for all critical duration events, up to and including the 100-year return frequency storm event for all points where discharges leave a site during all phases of development. **Modeling not required, impervious area reduced**

NA Predevelopment conditions assume “good hydrologic conditions” for appropriate land covers as identified in TR-55 or an equivalent methodology. Runoff curve numbers have been increased where predevelopment land cover is cropland:

Hydrologic Soil Group A	Runoff Curve Number 56
Hydrologic Soil Group B	Runoff Curve Number 70
Hydrologic Soil Group C	Runoff Curve Number 79
Hydrologic Soil Group D	Runoff Curve Number 83

NA Computer modeling analyses includes secondary overflows for events exceeding the storm sewer systems level-of-service up through the critical 100-year event.

NA In sub-areas of a landlocked watershed, the proposed project does not increase the predevelopment volume or rate of discharge from the sub-area for the 10-year return period event.

- Flowage easements up to the 100-yr flood level have been secured for stormwater management facilities (such as ditches and storm sewers).**
- Lowest floor elevations of structures built adjacent to stormwater management features and other water bodies are a minimum of two feet above the 100-year flood elevation and a minimum of two feet above the natural overflow of landlocked basins.

**Volume Control Standards**

NA Calculations/computer model results indicate stormwater volume is controlled for new development and redevelopment requirements per the MSCWMO Design Standards.

Volume Retention Required (cu. ft.)	Volume Retention Provided (cu. ft.)						
$11,083 \text{ sq. ft.} \times \frac{1.1 \text{ in}}{12 \text{ in/ft}} = 1,016 \text{ cu. ft.}$	<table border="0"> <tr> <td><b>BMP</b></td> <td><b>Volume</b></td> </tr> <tr> <td>BMP #1</td> <td>X,XXX cu. ft.</td> </tr> <tr> <td>BMP #2</td> <td>X,XXX cu. ft.</td> </tr> </table>	<b>BMP</b>	<b>Volume</b>	BMP #1	X,XXX cu. ft.	BMP #2	X,XXX cu. ft.
<b>BMP</b>	<b>Volume</b>						
BMP #1	X,XXX cu. ft.						
BMP #2	X,XXX cu. ft.						
<b>Total Required Volume Retention = 1,016 cu. ft.</b>	<b>Total Provided Volume Retention = X,XXX cu. ft.</b>						

**Flexible Treatment Options (when applicable)**

- Applicant demonstrated qualifying restrictions as defined in Section 7.2.2 (4) of the 2015 MSCWMO Watershed Management Plan that prohibits the infiltration of the entire required volume.

NA FTO #1: MIDS calculator submission removes 75% of the annual total phosphorous.

- FTO #2: MIDS calculator submission removes 60% of the annual total phosphorous. NA FTO #3: Offsite mitigation equivalent to the volume reduction standard is provided.

***Infiltration/Filtration Design Standards***

Proposed stormwater management features meet or exceed NPDES General Construction Permit requirements are designed in conformance with the most recent edition of the State of Minnesota Stormwater Manual.

NA None of the following conditions exist that prohibit infiltration of stormwater on the site

- a. Areas where vehicle fueling and maintenance occur.
- b. Areas where contaminants in soil or groundwater will be mobilized by infiltrating stormwater.
- c. Areas where soil infiltration rates are field measured at more than 8.3 inches per hour unless amended to slow the infiltration rate below 8.3 inches per hour.
- d. Areas with less than three (3) feet of separation distance from the bottom of the infiltration system to the elevation of the seasonally saturated soils or the top of bedrock.
- e. Areas of Hydrologic Soil Group D (clay) soils
- f. Areas within DSWMAs and ERAs unless infiltration is deemed appropriate based on Minnesota Stormwater Manual Guidance
- g. Areas within 1,000 feet up-gradient, or 100 feet down-gradient of active karst features unless allowed by a local unit of government with a current MS4 permit.
- h. Areas that receive runoff from industrial facilities not authorized to infiltration stormwater under the NPDES stormwater permit for industrial activities.

NA Minimum setbacks from the Minnesota Department of Health for infiltration practices are met

Setback	Minimum Distance (ft.)
Property line	10
Building foundation*	10
Private well	35
Public water supply well	50
Septic system tank/leach field	35

\*Minimum with slopes directed away from the building

NA Pretreatment device(s) remove at least 50% of sediment loads. If downstream from a potential hot spot, a skimmer is in place to facilitate cleanup.

NA Water quality volume will be discharged through infiltration or filtration media in 48 hours or less.

NA For bioretention (biofiltration and bioinfiltration) volume control management facilities above ground with vegetation the period of inundation shall be calculated using the maximum water depth below the surface discharge elevation and the soil infiltration rate.

NA For infiltration basin volume control management facilities the period of inundation shall be calculated using the maximum water depth below the surface discharge elevation and the soil infiltration rate.

NA Appropriate soil borings have been conducted that meet the minimum standards.

- a. A minimum of one boring was conducted at the location of the infiltration facility for facilities up to 1,000 ft<sup>2</sup>; between 1,000 and 5,000 ft<sup>2</sup>, two borings; between 5,000 and 10,000 ft<sup>2</sup>, three borings; and greater than 10,000 ft<sup>2</sup>, 4 borings plus an additional boring for every 2,500 ft<sup>2</sup> beyond 12,500 ft<sup>2</sup>.
- b. Soil borings extend a minimum of five feet below the bottom of the infiltration practice. If fractured bedrock is suspected, the soil boring goes to a depth of at least ten feet below the proposed bottom of the volume control facility.
- c. A minimum of three feet of separation to the seasonal water table and/or bedrock.
- d. Identify unified soil classification.

NA The least permeable soils horizon identified in the soil boring dictated the infiltration rate.

NA Additional flows are bypassed and are routed through stabilized discharge points.

NA Filtration basin demonstrates a basin draw down between 24 hours and 48 hours.

NA Filtration system Iron Enhanced Sand Filter is sized to bind soluble phosphorous removal for 30 year functional life of the system using the published value of 17lbs.phosphorous removal per 20 yards of 5% by weight iron filings to 95% sand.

NA Identify as build survey and method to demonstrate infiltration or filtration basin is functioning.

NA Construction plans provide adequate construction guidance to prevent clogging or compaction and demonstrate performance.

- a. Excavation within 2.0 feet of final grade for infiltration/filtration systems is prohibited until contributing drainage areas are constructed and fully stabilized.
- b. Rigorous sediment and erosion controls planned to divert runoff away from the system.
- c. Installation of volume control facilities must occur in dry soil conditions. Excavation, soil placement and rapid stabilization of perimeter slopes must be accomplished prior to the next precipitation event.
- d. Excavation shall be performed by an excavator with a toothed bucket. Use excavator bucket to place materials. Construction equipment shall not be allowed into the basin.
- e. Prior to the release of any remaining fee or security, the permit holder must provide documentation that constructed volume control facilities perform as designed.

There is a way to visually verify the system is operating as designed.

A minimum 8.0' maintenance access is provided to all stormwater facilities.

## EROSION AND SEDIMENT CONTROL PERFORMANCE STANDARDS

A Stormwater Pollution Prevention Plan (SWPPP) that meets the National Pollutant Discharge Elimination System (NPDES) requirements.

### **Narrative**

- Identify the person knowledgeable and experienced who will oversee the implementation of the SWPPP; the installation, inspection, and maintenance of the BMPs.
- a. Identifies the person who will oversee the BMP inspection and maintenance.
  - b. Identify the training requirements are satisfied.
  - c. Inspections performed once every 7 days.
  - d. Inspections performed within 24 hours of a rain event greater than 0.5 in/24 hours.
  - e. Inspection and Maintenance records include:

- i. Date and time of inspection.
  - ii. Name of person(s) conducting inspections.
  - iii. Finding of inspections, including the specific location where corrective actions are needed.
  - iv. Corrective actions taken (including dates, times, and party completing maintenance activities).
  - v. Date and amount of rainfall events greater than 0.5 in/24 hours.
  - vi. Rainfall amounts must be obtained by a properly maintained rain gauge installed onsite, or by a weather station that is within one mile or by a weather reporting system.
  - vii. Requirements to observe, describe, and photograph any discharge that may be occurring during the inspection.
  - viii. All discovered nonfunctional BMPs must be repaired, replaced, or supplemented with functional BMPs within 24 hours after discovery, or as soon as field conditions allow.
- Describes procedures to amend the SWPPP and establish additional temporary ESC BMPs as necessary for site conditions.
- Describes the installation timing for all Erosion Sediment Control (ESC) Best Management Practices (BMPs).
- Describes final stabilization methods for all exposed areas.
- NA Methods used to minimize soil compaction and preserve topsoil must be described.
- Describes dewatering technique to prevent nuisance conditions, erosion, or inundation of wetlands.
- NA Identifies any specific chemicals and the chemical treatment systems that may be used for enhancing the sedimentation process on the site, and how compliance will be achieved with the permit requirements.
- Describes the following pollution prevention management measures:
- a. Storage, handling, and disposal of construction products, materials, and wastes.
  - b. Fueling and maintenance of equipment or vehicles; spill prevention and response.
  - c. Vehicle and equipment washing.
  - d. No engine degreasing allowed on site.
  - e. Containment of Concrete and other washout waste.
  - f. Portable toilets are positioned so that they are secure.

### ***Plan Sheets***

- NA Temporary Sediment Basins required (10 acres draining to common location or 5 acres App. A) and design meets the following criteria:
- a. Adequately sized – 2-year, 24-hour storm, minimum 1,800 feet/acre; or no calculative minimum 3,600ft<sup>3</sup>/acre.
  - b. Designed to prevent short circuiting.
  - c. Outlets designed to remove floating debris.
  - d. Outlets designed to allow complete drawdown.
  - e. Outlets designed to withdraw water from the surface
  - f. Outlets have energy dissipation.
  - g. Have a stabilized emergency spillway.
  - h. Situated outside of surface waters and any natural buffers.
- Locations and types of all temporary and permanent Erosion Control BMPs.
- a. Exposed soils have erosion protection/cover initiated immediately and finished within 7 days.

- b. Wetted perimeters of ditches stabilized within 200 feet of surface water within 24 hours.
  - c. Pipe outlets have energy dissipation within 24 hours of connecting.
  - Locations and types of all temporary and permanent Sediment Control BMPs.
    - a. Sediment control practices established on down gradient perimeters and upgradient of any buffer zones.
    - b. All inlets are protected.
    - c. Stockpiles have sediment control and placed in areas away from surface waters or natural buffers.
    - d. Construction site entrances minimize street tracking?
    - e. Plans minimize soil compaction and, unless infeasible to preserve topsoil.
    - f. Fifty foot natural buffers preserved or (if not feasible) provide redundant sediment controls when a surface water is located within 50 feet of the project's earth disturbances and drains to the surface water.
  - Tabulated quantities of all erosion prevention and sediment control BMPs.
  - Stormwater flow directions and surface water divides for all pre- and post-construction drainage areas.
  - Locations of areas not to be disturbed (buffer zones).
  - Location of areas where construction will be phased to minimize duration of exposed soil areas.
- NA Blufflines are protected from construction activities in urban (40 foot buffer) areas and rural areas (100-foot buffer).

### WETLAND PERFORMANCE STANDARDS

- NA Direct discharge of stormwater to wetlands and all other water bodies without water quality treatment is prohibited.
- NA Any potential changes to the hydrology of the wetland (i.e. changes to the outlet elevation or contributing drainage area) must be reviewed to evaluate the impact of both the existing and proposed wetland conditions and approved by the MSCWMO.
- NA Land-altering activities shall not increase the bounce in water level or duration of inundation from a 2.0-inch 24-hour storm for any downstream wetland beyond the limit specified in Table 7.2 for the individual wetland susceptibility class.

### LAKE, STREAM AND WETLAND BUFFER PERFORMANCE STANDARDS

- NA A buffer zone of unmowed natural vegetation is maintained or created upslope of all water bodies (wetlands, streams, lakes).
- NA A 50 foot natural buffer or (if a buffer is infeasible) provide redundant sediment controls when a surface water is located within 50 feet of the project's earth disturbances and stormwater flows to the surface water.
- NA If adjacent to a Special or Impaired Water an undisturbed buffer zone of not less than 100 linear feet from the special water is maintained both during construction and as a permanent feature post construction.



August 8, 2025

Shawn Sanders  
City of Stillwater  
216 N Fourth Street  
Stillwater, MN 55082

Dear Mr. Sanders,

The Middle St. Croix Watershed Management Organization (MSCWMO) received submittal items on July 9<sup>th</sup>, 2025 for the Aiple House/Lumberjack Landing retrofit project at 1513 Main St. N within the MSCWMO boundaries and the City of Stillwater. Revised materials were received from the project applicant on August 4<sup>th</sup>, 2025 which demonstrate compliance with flexible treatment option #2. The proposed project qualifies for full review under the MSCWMO 2015 Watershed Management Plan (WMP). The MSCWMO board recommends approval with the following one condition:

1. SWPPP shall include inspection frequency/time frames, stabilization time frames, and tabulation of estimated quantities.

MSCWMO review process information can be downloaded from [www.mscwmo.org](http://www.mscwmo.org). Please contact me at 651-796-2227 or [moldenburg-downing@mnwcd.org](mailto:moldenburg-downing@mnwcd.org) if you have any questions or comments regarding this correspondence.

Sincerely,

A handwritten signature in dark ink, appearing to read "Matt Oldenburg-Downing".

Matt Oldenburg-Downing | Administrator  
Middle St. Croix Watershed Management Organization



**MSCWMO Review ID:** 25-017

**Review Date:** 8/8/2025

**Project Name:** Aiple House / Lumberjack Landing

**Location:** 1513 Main St N

**Applicant:** Kyle Crawford

**Purpose:** Park and utility improvements

**Recommendation:** Approval with one condition:

1. SWPPP shall include inspection frequency/time frames, stabilization time frames, and tabulation of estimated quantities.

**Applicability:**

- Any project undertaking grading, filling, or other land alteration activities which involve movement of 100 cubic yards of earth or removal of vegetation on greater than 10,000 square feet of land.
- Any project that creates or fully reconstruct 6,000 square feet or more of impervious surface.
- All major subdivisions or minor subdivisions that are part of a common plan of development. Major subdivisions are defined as subdivisions with 4 or more lots.
- Any project with wetland impacts, grading within public waters, grading within buffers or within 40-feet of the bluff line.
- Development projects that impact 2 or more of the member communities.
- New or redevelopment projects within the St. Croix Riverway that require a building permit that add 500 square feet of additional impervious surface.
- Any project requiring a variance from the current local impervious surface zoning requirements for the property.
- Any land development activity, regardless of size, that the City determines is likely to cause an adverse impact to an environmentally sensitive area or other property, or may violate any other erosion and sediment control standard set by the member community.

**Submittal Items:**

- A completed and signed project review application form and review fee.
- Grading Plan/Mapping Exhibits:
  - Property lines and delineation of lands under ownership of the applicant.
  - Delineation of existing on-site wetlands, shoreland and/or floodplain areas (including any buffers).
  - Ordinary High Water (OHW) elevations and datum, as determined by the MDNR (if applicable).
  - Existing and proposed site contour elevations related to NAVD 1988 datum (preferred) or NGVD, 1929. Datum must be noted on exhibits.

NA Drainage easements covering land adjacent to ponding areas, wetlands, and waterways up to their 100-year flood levels and covering all ditches and storm sewers. Access easements to these drainage easements and to other stormwater management facilities shall also be shown. (Not required for sites within public right-of-way)

NA Minimum building elevation for each lot.

- Identification of downstream water body.
- Delineation of the subwatersheds contributing runoff from off-site, proposed and existing on-site subwatersheds, and flow directions/patterns.
- Location, alignment, and elevation of proposed and existing stormwater facilities.
- Existing and proposed normal water elevations and the critical (the highest) water level produced from the 100-year 24-hour storms.
- Location of the 100-year flood elevation, natural overflow elevation, and lowest floor elevations.
- A Stormwater Pollution Prevention Plan in compliance with the requirements of the NPDES SDS Construction Stormwater Permit.
- Permanent Stormwater Management System in compliance with the requirements of the NPDES SDS Construction Stormwater Permit and MSCWMO Performance Standards.
  - Impervious areas (Pre- and Post-Construction).
  - Construction plans and specifications for all proposed stormwater management facilities.

NA Location(s) of past, current or future onsite well and septic systems (if applicable).

- Other exhibits required to show conformance to these Performance Standards.
- Hydrologic/Hydraulic Design Exhibits:
  - All hydrologic and hydraulic computations completed to design the proposed stormwater management facilities shall be submitted. Model summaries must be submitted. The summaries shall include a map that corresponds to the drainage areas in the model and all other information used to develop the model.
  - A table (or tables) must be submitted showing the following:
    - A listing of all points where runoff leaves the site and the existing and proposed stormwater runoff rates and volumes.
    - A listing of the normal water levels under existing and proposed conditions and the water levels produced from the storm and runoff events listed above for all on-site wetlands, ponds, depressions, lakes, streams, and creeks.

NA A proposed maintenance agreement, which may be in the format of Appendix I, or other form approved by the city.

- This site drains to, and is within one mile of special or impaired water and complies NPDES CSW additional requirements.

**STORMWATER MANAGEMENT PERFORMANCE STANDARDS**

- Water quality treatment is provided prior to direct discharge of stormwater to wetlands and all other water bodies.

**Rate and Flood Control Standards**

- The peak rate of stormwater runoff from a newly developed or redeveloped site shall not exceed the 2-, 10-, and 100-year 24-hour storms with respective 2.8, 4.2, and 7.3-inch rainfall depths with MSCWMO approved time distribution based on Atlas 14 for existing and proposed conditions. The runoff curve number for existing agriculture areas shall be less than or equal to the developed condition curve number. The newly developed or redeveloped peak rate shall not exceed the existing peak rate of runoff for all critical duration events, up to and including the 100-year return frequency storm event for all points where discharges leave a site during all phases of development.
- Predevelopment conditions assume “good hydrologic conditions” for appropriate land covers as identified in TR-55 or an equivalent methodology. Runoff curve numbers have been increased where predevelopment land cover is cropland:

Hydrologic Soil Group A	Runoff Curve Number 56
Hydrologic Soil Group B	Runoff Curve Number 70
Hydrologic Soil Group C	Runoff Curve Number 79
Hydrologic Soil Group D	Runoff Curve Number 83

- Computer modeling analyses includes secondary overflows for events exceeding the storm sewer systems level-of-service up through the critical 100-year event.

NA In sub-areas of a landlocked watershed, the proposed project does not increase the predevelopment volume or rate of discharge from the sub-area for the 10-year return period event.

NA Flowage easements up to the 100-yr flood level have been secured for stormwater management facilities (such as ditches and storm sewers).

NA Lowest floor elevations of structures built adjacent to stormwater management features and other water bodies are a minimum of two feet above the 100-year flood elevation and a minimum of two feet above the natural overflow of landlocked basins.

**Volume Control Standards**

- Calculations/computer model results indicate stormwater volume is controlled for new development and redevelopment requirements per the MSCWMO Design Standards. **No volume control, used FTO#2**

Volume Retention Required (cu. ft.)	Volume Retention Provided (cu. ft.)						
$17,860 \text{ sq. ft.} \times \frac{1.1 \text{ in}}{12 \text{ in/ft}} = 1,637 \text{ cu. ft.}$	<table border="0"> <tr> <td><b>BMP</b></td> <td><b>Volume</b></td> </tr> <tr> <td>BMP #1</td> <td>X,XXX cu. ft.</td> </tr> <tr> <td>BMP #2</td> <td>X,XXX cu. ft.</td> </tr> </table>	<b>BMP</b>	<b>Volume</b>	BMP #1	X,XXX cu. ft.	BMP #2	X,XXX cu. ft.
<b>BMP</b>	<b>Volume</b>						
BMP #1	X,XXX cu. ft.						
BMP #2	X,XXX cu. ft.						
<b>Total Required Volume Retention = 1,637 cu. ft.</b>	<b>Total Provided Volume Retention = X,XXX cu. ft.</b>						

**Flexible Treatment Options (when applicable)**

- Applicant demonstrated qualifying restrictions as defined in Section 7.2.2 (4) of the 2015 MSCWMO Watershed Management Plan that prohibits the infiltration of the entire required volume. **HSG D soils and high GW**

NA FTO #1: MIDS calculator submission removes 75% of the annual total phosphorous.

- FTO #2: MIDS calculator submission removes 60% of the annual total phosphorous. **61% TP removal**

NA FTO #3: Offsite mitigation equivalent to the volume reduction standard is provided.

***Infiltration/Filtration Design Standards***

- Proposed stormwater management features meet or exceed NPDES General Construction Permit requirements are designed in conformance with the most recent edition of the State of Minnesota Stormwater Manual.
- None of the following conditions exist that prohibit infiltration of stormwater on the site
  - a. Areas where vehicle fueling and maintenance occur.
  - b. Areas where contaminants in soil or groundwater will be mobilized by infiltrating stormwater.
  - c. Areas where soil infiltration rates are field measured at more than 8.3 inches per hour unless amended to slow the infiltration rate below 8.3 inches per hour.
  - d. Areas with less than three (3) feet of separation distance from the bottom of the infiltration system to the elevation of the seasonally saturated soils or the top of bedrock. **ok for filtration**
  - e. Areas of Hydrologic Soil Group D (clay) soils **ok for filtration**
  - f. Areas within DSWMAs and ERAs unless infiltration is deemed appropriate based on Minnesota Stormwater Manual Guidance
  - g. Areas within 1,000 feet up-gradient, or 100 feet down-gradient of active karst features unless allowed by a local unit of government with a current MS4 permit.
  - h. Areas that receive runoff from industrial facilities not authorized to infiltration stormwater under the NPDES stormwater permit for industrial activities.

- Minimum setbacks from the Minnesota Department of Health for infiltration practices are met

Setback	Minimum Distance (ft.)
Property line	10
Building foundation*	10
Private well	35
Public water supply well	50
Septic system tank/leach field	35

\*Minimum with slopes directed away from the building

- Pretreatment device(s) remove at least 50% of sediment loads. If downstream from a potential hot spot, a skimmer is in place to facilitate cleanup.
- Water quality volume will be discharged through infiltration or filtration media in 48 hours or less.
- For bioretention (biofiltration and bioinfiltration) volume control management facilities above ground with vegetation the period of inundation shall be calculated using the maximum water depth below the surface discharge elevation and the soil infiltration rate.
- For infiltration basin volume control management facilities the period of inundation shall be calculated using the maximum water depth below the surface discharge elevation and the soil infiltration rate.
- Appropriate soil borings have been conducted that meet the minimum standards.

- a. A minimum of one boring was conducted at the location of the infiltration facility for facilities up to 1,000 ft<sup>2</sup>; between 1,000 and 5,000 ft<sup>2</sup>, two borings; between 5,000 and 10,000 ft<sup>2</sup>, three borings; and greater than 10,000 ft<sup>2</sup>, 4 borings plus an additional boring for every 2,500 ft<sup>2</sup> beyond 12,500 ft<sup>2</sup>.
  - b. Soil borings extend a minimum of five feet below the bottom of the infiltration practice. If fractured bedrock is suspected, the soil boring goes to a depth of at least ten feet below the proposed bottom of the volume control facility.
  - c. A minimum of three feet of separation to the seasonal water table and/or bedrock.
  - d. Identify unified soil classification.
- The least permeable soils horizon identified in the soil boring dictated the infiltration rate.
  - Additional flows are bypassed and are routed through stabilized discharge points.
  - Filtration basin demonstrates a basin draw down between 24 hours and 48 hours.
- NA Filtration system Iron Enhanced Sand Filter is sized to bind soluble phosphorous removal for 30 year functional life of the system using the published value of 17lbs.phosphorous removal per 20 yards of 5% by weight iron filings to 95% sand.
- NA Identify as build survey and method to demonstrate infiltration or filtration basin is functioning.
- Construction plans provide adequate construction guidance to prevent clogging or compaction and demonstrate performance.
    - a. Excavation within 2.0 feet of final grade for infiltration/filtration systems is prohibited until contributing drainage areas are constructed and fully stabilized.
    - b. Rigorous sediment and erosion controls planned to divert runoff away from the system.
    - c. Installation of volume control facilities must occur in dry soil conditions. Excavation, soil placement and rapid stabilization of perimeter slopes must be accomplished prior to the next precipitation event.
    - d. Excavation shall be performed by an excavator with a toothed bucket. Use excavator bucket to place materials. Construction equipment shall not be allowed into the basin.
    - e. Prior to the release of any remaining fee or security, the permit holder must provide documentation that constructed volume control facilities perform as designed.
  - There is a way to visually verify the system is operating as designed.
  - A minimum 8.0' maintenance access is provided to all stormwater facilities.

## EROSION AND SEDIMENT CONTROL PERFORMANCE STANDARDS

- A Stormwater Pollution Prevention Plan (SWPPP) that meets the National Pollutant Discharge Elimination System (NPDES) requirements.

### **Narrative**

- Identify the person knowledgeable and experienced who will oversee the implementation of the SWPPP; the installation, inspection, and maintenance of the BMPs.
  - a. Identifies the person who will oversee the BMP inspection and maintenance.
  - b. Identify the training requirements are satisfied.
  - c. Inspections performed once every 7 days.
  - d. Inspections performed within 24 hours of a rain event greater than 0.5 in/24 hours.

- e. Inspection and Maintenance records include:
  - i. Date and time of inspection.
  - ii. Name of person(s) conducting inspections.
  - iii. Finding of inspections, including the specific location where corrective actions are needed.
  - iv. Corrective actions taken (including dates, times, and party completing maintenance activities).
  - v. Date and amount of rainfall events greater than 0.5 in/24 hours.
  - vi. Rainfall amounts must be obtained by a properly maintained rain gauge installed onsite, or by a weather station that is within one mile or by a weather reporting system.
  - vii. Requirements to observe, describe, and photograph any discharge that may be occurring during the inspection.
  - viii. All discovered nonfunctional BMPs must be repaired, replaced, or supplemented with functional BMPs within 24 hours after discovery, or as soon as field conditions allow.
- Describes procedures to amend the SWPPP and establish additional temporary ESC BMPs as necessary for site conditions.
- Describes the installation timing for all Erosion Sediment Control (ESC) Best Management Practices (BMPs).
- Describes final stabilization methods for all exposed areas.
- Methods used to minimize soil compaction and preserve topsoil must be described.
- NA Describes dewatering technique to prevent nuisance conditions, erosion, or inundation of wetlands.
- NA Identifies any specific chemicals and the chemical treatment systems that may be used for enhancing the sedimentation process on the site, and how compliance will be achieved with the permit requirements.
- Describes the following pollution prevention management measures:
  - a. Storage, handling, and disposal of construction products, materials, and wastes.
  - b. Fueling and maintenance of equipment or vehicles; spill prevention and response.
  - c. Vehicle and equipment washing.
  - d. No engine degreasing allowed on site.
  - e. Containment of Concrete and other washout waste.
  - f. Portable toilets are positioned so that they are secure.

### **Plan Sheets**

- NA Temporary Sediment Basins required (10 acres draining to common location or 5 acres App. A) and design meets the following criteria:
  - a. Adequately sized – 2-year, 24-hour storm, minimum 1,800 feet/acre; or no calculative minimum 3,600ft<sup>3</sup>/acre.
  - b. Designed to prevent short circuiting.
  - c. Outlets designed to remove floating debris.
  - d. Outlets designed to allow complete drawdown.
  - e. Outlets designed to withdraw water from the surface
  - f. Outlets have energy dissipation.
  - g. Have a stabilized emergency spillway.
  - h. Situated outside of surface waters and any natural buffers.
- Locations and types of all temporary and permanent Erosion Control BMPs.

- a. Exposed soils have erosion protection/cover initiated immediately and finished within 7 days.
- b. Wetted perimeters of ditches stabilized within 200 feet of surface water within 24 hours.
- c. Pipe outlets have energy dissipation within 24 hours of connecting.

- Locations and types of all temporary and permanent Sediment Control BMPs.
  - a. Sediment control practices established on down gradient perimeters and upgradient of any buffer zones.
  - b. All inlets are protected.
  - c. Stockpiles have sediment control and placed in areas away from surface waters or natural buffers.
  - d. Construction site entrances minimize street tracking?
  - e. Plans minimize soil compaction and, unless infeasible to preserve topsoil.
  - f. Fifty foot natural buffers preserved or (if not feasible) provide redundant sediment controls when a surface water is located within 50 feet of the project's earth disturbances and drains to the surface water.
- Tabulated quantities of all erosion prevention and sediment control BMPs.
- Stormwater flow directions and surface water divides for all pre- and post-construction drainage areas.
- Locations of areas not to be disturbed (buffer zones).
- Location of areas where construction will be phased to minimize duration of exposed soil areas.
- Blufflines are protected from construction activities in urban (40 foot buffer) areas and rural areas (100-foot buffer).

## WETLAND PERFORMANCE STANDARDS

- NA Direct discharge of stormwater to wetlands and all other water bodies without water quality treatment is prohibited.
- NA Any potential changes to the hydrology of the wetland (i.e. changes to the outlet elevation or contributing drainage area) must be reviewed to evaluate the impact of both the existing and proposed wetland conditions and approved by the MSCWMO.
- NA Land-altering activities shall not increase the bounce in water level or duration of inundation from a 2.0-inch 24-hour storm for any downstream wetland beyond the limit specified in Table 7.2 for the individual wetland susceptibility class.

## LAKE, STREAM AND WETLAND BUFFER PERFORMANCE STANDARDS

- A buffer zone of unmowed natural vegetation is maintained or created upslope of all water bodies (wetlands, streams, lakes).
- NA A 50 foot natural buffer or (if a buffer is infeasible) provide redundant sediment controls when a surface water is located within 50 feet of the project's earth disturbances and stormwater flows to the surface water.
- If adjacent to a Special or Impaired Water an undisturbed buffer zone of not less than 100 linear feet from the special water is maintained both during construction and as a permanent feature post construction.



August 8, 2025

Carrie Seifert  
West Lakeland Township  
959 Paris Avenue Circle N  
West Lakeland Township, MN 55082

Dear Ms. Seifert,

The Middle St. Croix Watershed Management Organization (MSCWMO) received revised submittal items on July 21<sup>st</sup>, 2025 for the single family home construction at 151XX 15<sup>th</sup> St N within the MSCWMO boundaries and West Lakeland Township. The proposed project qualifies for full review under the MSCWMO 2015 Watershed Management Plan (WMP) since it involves more than 6000 square feet of new/reconstructed impervious surfaces. The MSCWMO board recommends approval with the following seven conditions:

1. Provide note for 14 day stabilization timeframe for temporary erosion and sediment control on plans.
2. Indicate quantity for seed, erosion control blanket and silt fence on plans.
3. Provide a note for required placement of down gradient sediment control before land disturbing activity.
4. Provide notes for street sweeping, inspections and maintenance, pollution prevention, and final stabilization on plans. (see highlighted items)
5. Indicate downspout locations and route runoff from new impervious surfaces to the proposed bioretention basin directing runoff away from the steep slope.
6. Provide construction notes for bioretention basin on plans (see highlighted items).
7. Conduct soil borings or dig a test pit to determine soil types and infiltration capacity of in-situ soils for the bioretention basin. If soils are conducive to infiltration (HSG A or B) eliminate the underdrain and utilize a [bioinfiltration basin cross section](#).

MSCWMO review process information can be downloaded from [www.mscwmo.org](http://www.mscwmo.org). Please contact me at 651-796-2227 or [moldenburg-downing@mnwcd.org](mailto:moldenburg-downing@mnwcd.org) if you have any questions or comments regarding this correspondence.

Sincerely,

A handwritten signature in dark ink, appearing to read "Matt Oldenburg-Downing".

Matt Oldenburg-Downing | Administrator  
Middle St. Croix Watershed Management Organization

**MSCWMO Review ID:** 25-019

**Review Date:** 8/8/2025

**Project Name:** Schultz Residence

**Location:** 151XX 15th St N, West Lakeland

**Applicant:** Mattie Wick

**Purpose:** Single family home construction

**Recommendation:** Approval with 7 conditions:

1. Provide note for 14 day stabilization timeframe for temporary erosion and sediment control on plans.
2. Indicate quantity for seed, erosion control blanket and silt fence on plans.
3. Provide a note for required placement of down gradient sediment control before land disturbing activity.
4. Provide notes for street sweeping, inspections and maintenance, pollution prevention, and final stabilization on plans. (see highlighted items)
5. Indicate downspout locations and route runoff from new impervious surfaces to the proposed bioretention basin directing runoff away from the steep slope.
6. Provide construction notes for bioretention basin on plans (see highlighted items).
7. Conduct soil borings or dig a test pit to determine soil types and infiltration capacity of in-situ soils for the bioretention basin. If soils are conducive to infiltration (HSG A or B) eliminate the underdrain and utilize a [bioinfiltration basin cross section](#).

**Submittal Items:**

- A completed and signed project review application form and \$350 review fee.
- Grading plan showing grading limits, existing and proposed site contour elevations related to NAVD 1988 datum (preferred) or NGVD, 1929.
- Location of proposed and existing permanent structures.
- Ordinary High Water (OHW) elevations and location of all existing water bodies.
- Location of all bluff lines.
- Lowest floor elevations of structures built adjacent to stormwater management features and other water bodies must be a minimum of two feet above the regulator flood protection elevation.
- Delineation of existing wetlands, shoreland, ordinary high water levels, drain tiling, and floodplain areas.
- Details of proposed buffer upslope of water resources including site and vegetation characteristics (when applicable). **Wetland is Class B management class – 30' minimum buffer**
- Location of the 100-year flood elevation, natural overflow elevation, and lowest floor elevations.

- Erosion and sediment control plan demonstrating locations, specifications, and details of the following items:
- A. Erosion Prevention
    - i. Stabilize all exposed soil areas (including stockpiles) with temporary erosion control (seed and mulch or blanket) within 14 days after construction activities in the area have temporarily or permanently ceased.
    - ii. Identify location, type and quantity of temporary erosion prevention practices.
    - iii. Identify permanent vegetation.
  - B. Sediment Control
    - i. Sediment control practices will be placed down-gradient before up-gradient land disturbing activities begin.
    - ii. Identify the location, type and quantity of sediment control practices.
    - iii. Vehicle tracking practices must be in place to minimize track out of sediment from the construction site. Streets must be cleaned if tracking practices are not adequate to prevent sediment from being tracked onto the street.
  - C. Inspections and Maintenance
    - i. Applicant must inspect all erosion prevention and sediment control practices once every 7 days or after a ½" rain event to ensure integrity and effectiveness. All nonfunctional practices must be repaired, replaced or enhanced the next business day after discovery.
    - ii. Plans shall include contact information including email and a phone number of the person responsible for inspection and compliance with erosion and sediment control.
  - D. Pollution Prevention
    - i. Solid waste must be stored, collected and disposed of in accordance with state law.
    - ii. Provide effective containment for all liquid and solid wastes generated by washout operations (concrete, stucco, paint, form release oils, curing compounds).
    - iii. Hazardous materials that have potential to leach pollutants must be under cover to minimize contact with stormwater.
  - E. Final Stabilization
    - i. For residential construction only, individual lots are considered final stabilized if the structures are finished and temporary erosion protection and down gradient sediment control has been completed.
    - ii. Grading and landscape plans shall include soil tillage and soil bed preparation methods that are employed prior to landscape installation to a minimum depth of 8" and incorporate amendments to meet Minnesota State Stormwater Manual predevelopment soil type bulk densities.
      - 1. Observe minimum setbacks for areas within the dripline of existing trees, over utilities within 30 in of the surface, where compaction is required by design and inaccessible slopes.
- Details of proposed structural stormwater practices (Meets Minnesota Stormwater Manual guidelines)
- A. Stormwater flows are diverted away from bluffs whenever feasible Runoff from the new impervious roof and driveway must be routed to the bioretention basin and away from steep slopes. Indicate downspout locations and routing of runoff on plans.
  - B. Volume control facilities must drain down within 48 hours, as required by the MPCA NPDES Construction Stormwater Permit.

- i. The period of inundation shall be calculated using the maximum water depth below the surface discharge elevation and the soil infiltration rate.
- C. The maximum water depth for volume control facilities is 1.5 feet.
- D. Planting plan identified vegetation suitable for the hydrology of the basin.
- E. Separation from seasonally saturated soils or bedrock is 3 feet or more for bioretention and infiltration practices.
- F. Volume control facilities meet the following setback requirements:

Setback	Minimum Distance (ft.)
Property line	10
Building foundation*	10
Private well	35
Public water supply well	50
Septic system tank/leach field	35

\*Minimum with slopes directed away from the building

- G. Volume control is provided for the first 1.1” inch of runoff for all impervious:

Volume Retention Required (cu. ft.)	Volume Retention Provided (cu. ft.)
$12,370 \text{ sq. ft.} \times \frac{1.1 \text{ in}}{12 \text{ in/ft}} = 1,134 \text{ cu. ft.}$	<b>BMP Volume</b> BMP #1 1,200 cu. ft.
<b>Total Required Volume Retention = 1,134 cu. ft.</b>	<b>Total Provided Volume Retention = 1,200 cu. ft.</b>

**H. Construction Standards**

- i. To prevent soil compaction, the proposed volume control facility must be staked off and marked during construction to prevent heavy equipment and traffic from traveling over it.
- ii. Facilities may not be excavated within 2.0 feet of final grade until the contributing drainage area has been constructed and fully stabilized.
- iii. Facilities are in-place during construction activities, all sediment and runoff must be diverted away the facility, using practices such as pipe capping or diversions.
- iv. Facilities installation must occur in dry soil conditions. Excavation, soil placement and rapid stabilization of perimeter slopes must be accomplished prior to the next precipitation event.
- v. Excavation shall be performed by an excavator with a toothed bucket. Use excavator bucket to place materials. Construction equipment shall not be allowed into the basin.
- vi. Prior to the release of any remaining fee or security, the owner must provide documentation that constructed volume control facilities perform as designed.

**I. Details**

- i. Include a standard cross section of the infiltration device similar to those identified in the Minnesota Stormwater Manual ([https://stormwater.pca.state.mn.us/index.php/Bioretention\\_plan\\_and\\_section\\_drawings](https://stormwater.pca.state.mn.us/index.php/Bioretention_plan_and_section_drawings)) Detail provided is for biofiltration basin with an underdrain. If in-situ soils are found to be conducive to infiltration a [bioinfiltration basin cross section](#) and elimination of the underdrain is preferred.
- ii. The cross section must detail the infiltration media used in the device. Typically, devices use Mix B as described in the Minnesota Stormwater Manual: A well-blended, homogenous mixture of 70 to 85 percent washed construction sand; and 15 to 30 percent MnDOT Grade 2 compost.



## Erosion & Sediment Control Compliance Summary & Corrective Action Notice

Inspector Name: Aaron DeRusha      Inspection Date: 07/10/2025

Project Name: 115 Lakeland Shores      Project Address: 115 Lakeland Shores Rd N

Site is within one mile of and discharges to an impaired or special water?

Yes    No

Inspection Type:    Pre-construction    Routine    Rainfall    Post-construction

Overall Site Grade:

<input checked="" type="checkbox"/> A	The site is <b>in full compliance</b> . All practices are in place and the site is well maintained.
<input type="checkbox"/> B	The site is <b>in compliance</b> , but normal maintenance activities are required.
<input type="checkbox"/> C	The site is <b>not in compliance</b> . Maintenance or supplemental practices are required.
<input type="checkbox"/> D	The site is <b>not in compliance</b> . Erosion and sediment control practices are in poor condition and controllable water resources or off-site impacts are likely.
<input type="checkbox"/> F	The site is in <b>severe non-compliance</b> . Controllable water quality or off-site impacts have occurred. Enforcement proceedings will be initiated unless immediate corrective actions are taken.

Corrective Action(s) Required:

**General Comments or Potential Areas of Future Concern:**

Perimeter controls installed per plan. Discussed site with Patrick, 1st Choice Builders. Discussed routing of roof runoff to proposed rain garden via site grading or roof downspouts into buried tile tubing to carry water under driveway to rain garden location.

Were any discharges observed during this inspection?  No    Yes

## Erosion & Sediment Control Compliance Summary & Corrective Action Notice

	Compliant	Non-compliant	Under Review	Not Inspected
<b>Erosion Prevention Requirements:</b>				
Soils are stabilized where no construction activity has occurred for 14 days (including stockpiles)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Disturbance of steep slopes has been minimized or stabilization practices designed for steep slopes are used	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>
Ditches/swales are stabilized 200' back from point of discharge	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Pipe outlets have energy dissipation (within 24 hours of connection)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Construction phasing in accordance with the approved plan is being followed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Areas not to be disturbed are marked off (flags, signs, ect.)	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>
<b>Sediment Control Requirements:</b>				
Perimeter sediment controls are installed properly on all down gradient perimeters	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
Appropriate BMPs are installed protecting inlets, catch basins, and culvert inlets	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>
Erodible stockpiles have perimeter control in place	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>
Temporary sediment basin is built as shown on approved construction plans	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>
Soil compaction is minimized where applicable	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>
<b>Maintenance and Inspection Requirements:</b>				
Previously stabilized areas are maintaining ground cover	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
Perimeter controls are maintained and functioning properly	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
Inlet protection devices are maintained and adequately protecting inlets	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>
Temporary sediment basins are being maintained and properly functioning	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>
Vehicle tracking BMPs are in place at site exits and are maintained/functioning properly	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
Tracked sediment is being removed within 24 hours	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Surface waters, ditches, conveyances, and discharge points have been inspected	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
<b>Other Requirements:</b>				

## Erosion & Sediment Control Compliance Summary & Corrective Action Notice

Pollution prevention management measures for solid waste, hazardous materials, concrete and truck washing are in place	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>
If dewatering is occurring, BMPs are being used to ensure clean water is leaving the site and discharge is not causing erosion	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>
If being utilized, infiltration/filtration systems are marked and protected from compaction and sediment	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>
If required buffers are preserved around all streams, rivers, lakes, and wetlands during construction	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>
If required, buffer monumentation has been installed	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>

# Erosion & Sediment Control Compliance Summary & Corrective Action Notice

Images of non-compliant items, concerns, or general conditions:

# Erosion & Sediment Control Compliance Summary & Corrective Action Notice



# Erosion & Sediment Control Compliance Summary & Corrective Action Notice



# Erosion & Sediment Control Compliance Summary & Corrective Action Notice





## Erosion & Sediment Control Compliance Summary & Corrective Action Notice

Inspector Name: Aaron DeRusha      Inspection Date: 07/15/2025

Project Name: 115 Lakeland Shores      Project Address: 115 Lakeland Shores Rd N

Site is within one mile of and discharges to an impaired or special water?

Yes  No

Inspection Type:  Pre-construction  Routine  Rainfall  Post-construction

Overall Site Grade:

<input checked="" type="checkbox"/> A	The site is <b>in full compliance</b> . All practices are in place and the site is well maintained.
<input type="checkbox"/> B	The site is <b>in compliance</b> , but normal maintenance activities are required.
<input type="checkbox"/> C	The site is <b>not in compliance</b> . Maintenance or supplemental practices are required.
<input type="checkbox"/> D	The site is <b>not in compliance</b> . Erosion and sediment control practices are in poor condition and controllable water resources or off-site impacts are likely.
<input type="checkbox"/> F	The site is in <b>severe non-compliance</b> . Controllable water quality or off-site impacts have occurred. Enforcement proceedings will be initiated unless immediate corrective actions are taken.

Corrective Action(s) Required:

**General Comments or Potential Areas of Future Concern:**

Met with excavator on site to discuss basin. Basin footprint meets size requirement pre sand media install. Sand media is on site and ready for install. Discussed water from impervious surfaces should be routed to basin at final construction, including roof runoff from north side of garage. Basin should be protected from runoff with biologs or other perimeter control once the sand media is installed until the contributing drainage area is stabilized in order to protect the media.

Were any discharges observed during this inspection?  No  Yes

# Erosion & Sediment Control Compliance Summary & Corrective Action Notice

## Erosion & Sediment Control Compliance Summary & Corrective Action Notice

	Compliant	Non-compliant	Under Review	Not Inspected
<b>Erosion Prevention Requirements:</b>				
Soils are stabilized where no construction activity has occurred for 14 days (including stockpiles)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Disturbance of steep slopes has been minimized or stabilization practices designed for steep slopes are used	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>
Ditches/swales are stabilized 200' back from point of discharge	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Pipe outlets have energy dissipation (within 24 hours of connection)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Construction phasing in accordance with the approved plan is being followed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Areas not to be disturbed are marked off (flags, signs, ect.)	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>
<b>Sediment Control Requirements:</b>				
Perimeter sediment controls are installed properly on all down gradient perimeters	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
Appropriate BMPs are installed protecting inlets, catch basins, and culvert inlets	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>
Erodible stockpiles have perimeter control in place	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>
Temporary sediment basin is built as shown on approved construction plans	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>
Soil compaction is minimized where applicable	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
<b>Maintenance and Inspection Requirements:</b>				
Previously stabilized areas are maintaining ground cover	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>
Perimeter controls are maintained and functioning properly	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
Inlet protection devices are maintained and adequately protecting inlets	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>
Temporary sediment basins are being maintained and properly functioning	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>
Vehicle tracking BMPs are in place at site exits and are maintained/functioning properly	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
Tracked sediment is being removed within 24 hours	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Surface waters, ditches, conveyances, and discharge points have been inspected	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
<b>Other Requirements:</b>				

## Erosion & Sediment Control Compliance Summary & Corrective Action Notice

Pollution prevention management measures for solid waste, hazardous materials, concrete and truck washing are in place	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>
If dewatering is occurring, BMPs are being used to ensure clean water is leaving the site and discharge is not causing erosion	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>
If being utilized, infiltration/filtration systems are marked and protected from compaction and sediment	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>
If required buffers are preserved around all streams, rivers, lakes, and wetlands during construction	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>
If required, buffer monumentation has been installed	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>

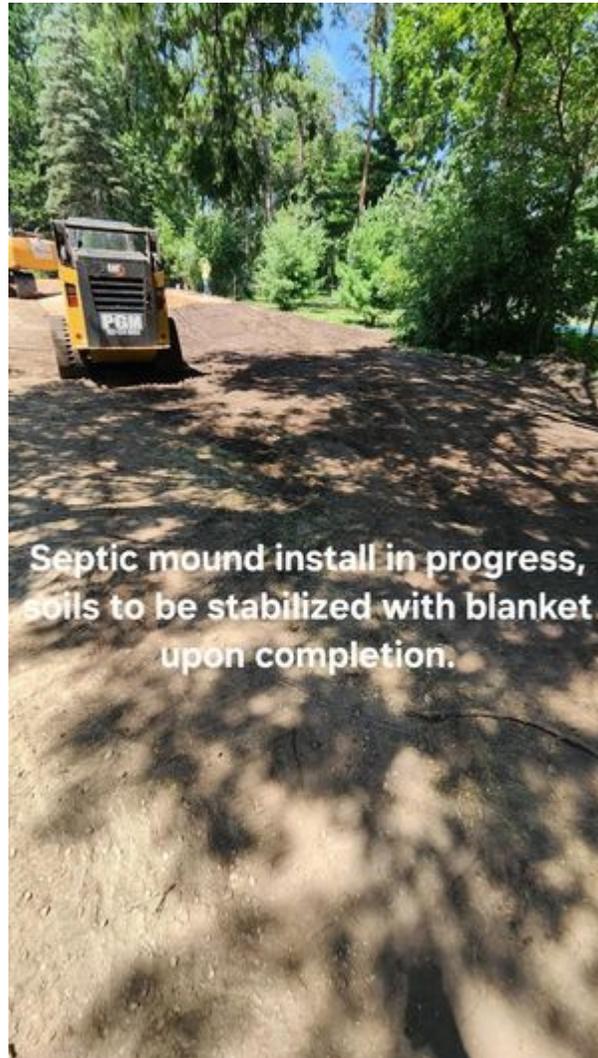
# Erosion & Sediment Control Compliance Summary & Corrective Action Notice

Images of non-compliant items, concerns, or general conditions:

## Erosion & Sediment Control Compliance Summary & Corrective Action Notice



## Erosion & Sediment Control Compliance Summary & Corrective Action Notice





## Erosion & Sediment Control Compliance Summary & Corrective Action Notice

Inspector Name: Aaron DeRusha

Inspection Date: 07/10/2025

Project Name: Hamer Deck

Project Address: 1045 Quentin Ave S

Site is within one mile of and discharges to an impaired or special water?

Yes  No

Inspection Type:  Pre-construction  Routine  Rainfall  Post-construction

Overall Site Grade:

<input type="checkbox"/> A	The site is <b>in full compliance</b> . All practices are in place and the site is well maintained.
<input checked="" type="checkbox"/> B	The site is <b>in compliance</b> , but normal maintenance activities are required.
<input type="checkbox"/> C	The site is <b>not in compliance</b> . Maintenance or supplemental practices are required.
<input type="checkbox"/> D	The site is <b>not in compliance</b> . Erosion and sediment control practices are in poor condition and controllable water resources or off-site impacts are likely.
<input type="checkbox"/> F	The site is in <b>severe non-compliance</b> . Controllable water quality or off-site impacts have occurred. Enforcement proceedings will be initiated unless immediate corrective actions are taken.

Corrective Action(s) Required:

1. Silt fence is not properly trenched and/or anchored

**General Comments or Potential Areas of Future Concern:**

If all soil disturbing activities for the metal stairway and paver removal are complete, silt fence on the beach may be removed. Pavers removed and native plugs planted with mulch. Upper silt fence is not knifed into ground, and stakes should be reversed to the downhill side of the silt fence. Pavers by the house have been removed and mulch installed. Upper deck in place. Left voicemail with Ben Graf to discuss timeline for the floating deck.

Were any discharges observed during this inspection?  No  Yes

# Erosion & Sediment Control Compliance Summary & Corrective Action Notice

## Erosion & Sediment Control Compliance Summary & Corrective Action Notice

	Compliant	Non-compliant	Under Review	Not Inspected
<b>Erosion Prevention Requirements:</b>				
Soils are stabilized where no construction activity has occurred for 14 days (including stockpiles)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Disturbance of steep slopes has been minimized or stabilization practices designed for steep slopes are used	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
Ditches/swales are stabilized 200' back from point of discharge	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Pipe outlets have energy dissipation (within 24 hours of connection)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Construction phasing in accordance with the approved plan is being followed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Areas not to be disturbed are marked off (flags, signs, ect.)	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>
<b>Sediment Control Requirements:</b>				
Perimeter sediment controls are installed properly on all down gradient perimeters	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>
Appropriate BMPs are installed protecting inlets, catch basins, and culvert inlets	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>
Erodible stockpiles have perimeter control in place	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>
Temporary sediment basin is built as shown on approved construction plans	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>
Soil compaction is minimized where applicable	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>
<b>Maintenance and Inspection Requirements:</b>				
Previously stabilized areas are maintaining ground cover	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
Perimeter controls are maintained and functioning properly	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
Inlet protection devices are maintained and adequately protecting inlets	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>
Temporary sediment basins are being maintained and properly functioning	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>
Vehicle tracking BMPs are in place at site exits and are maintained/functioning properly	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
Tracked sediment is being removed within 24 hours	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Surface waters, ditches, conveyances, and discharge points have been inspected	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
<b>Other Requirements:</b>				

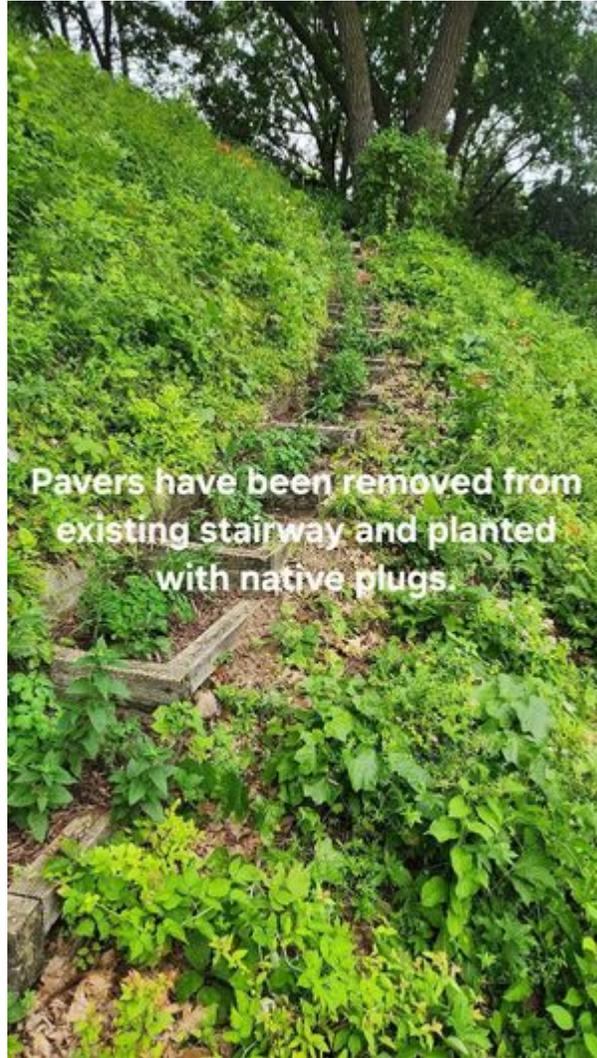
## Erosion & Sediment Control Compliance Summary & Corrective Action Notice

Pollution prevention management measures for solid waste, hazardous materials, concrete and truck washing are in place	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>
If dewatering is occurring, BMPs are being used to ensure clean water is leaving the site and discharge is not causing erosion	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>
If being utilized, infiltration/filtration systems are marked and protected from compaction and sediment	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>
If required buffers are preserved around all streams, rivers, lakes, and wetlands during construction	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>
If required, buffer monumentation has been installed	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>

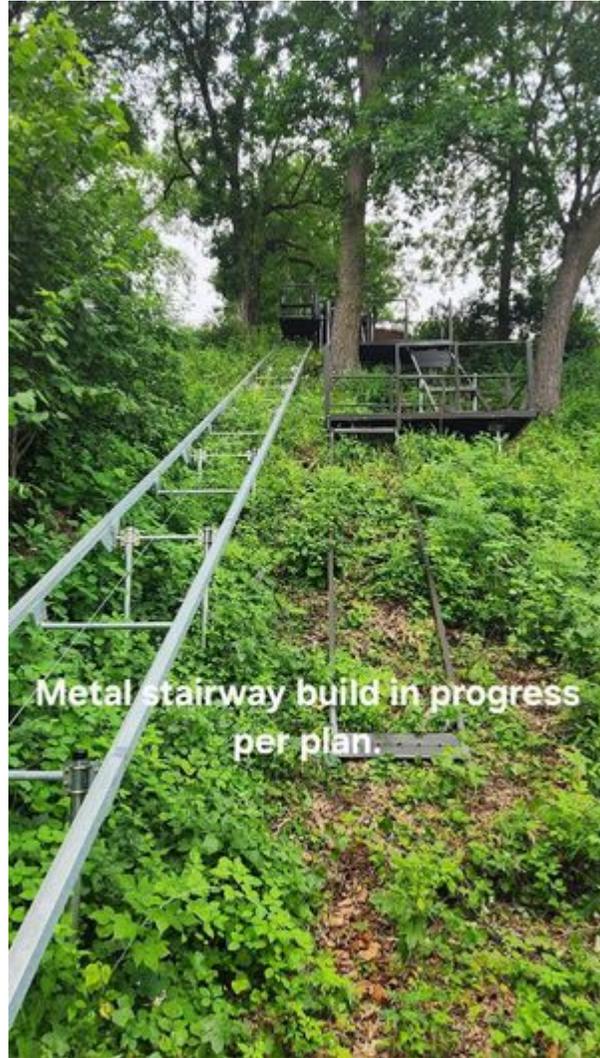
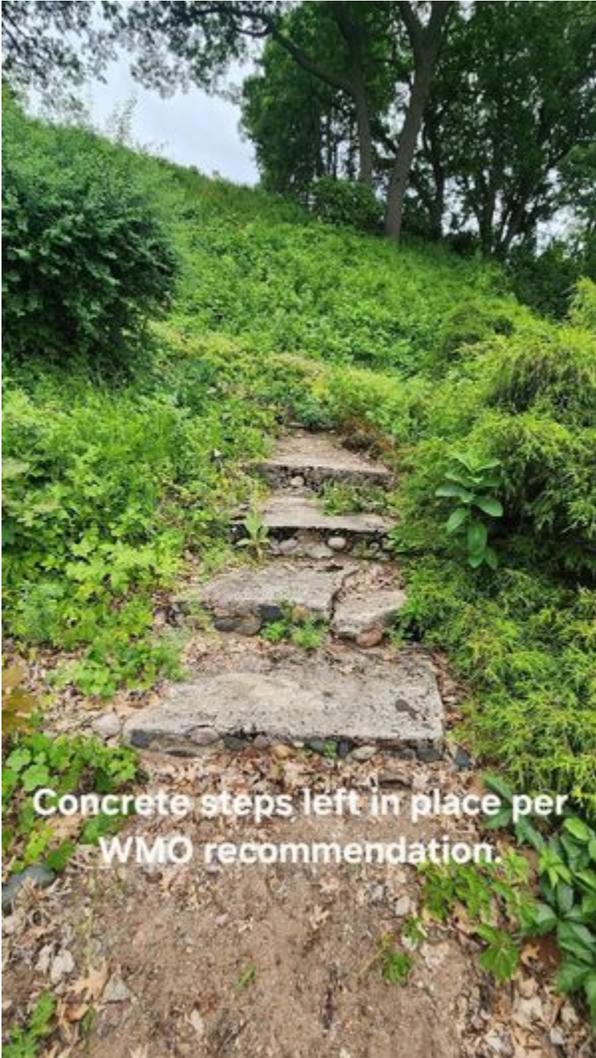
# Erosion & Sediment Control Compliance Summary & Corrective Action Notice

Images of non-compliant items, concerns, or general conditions:

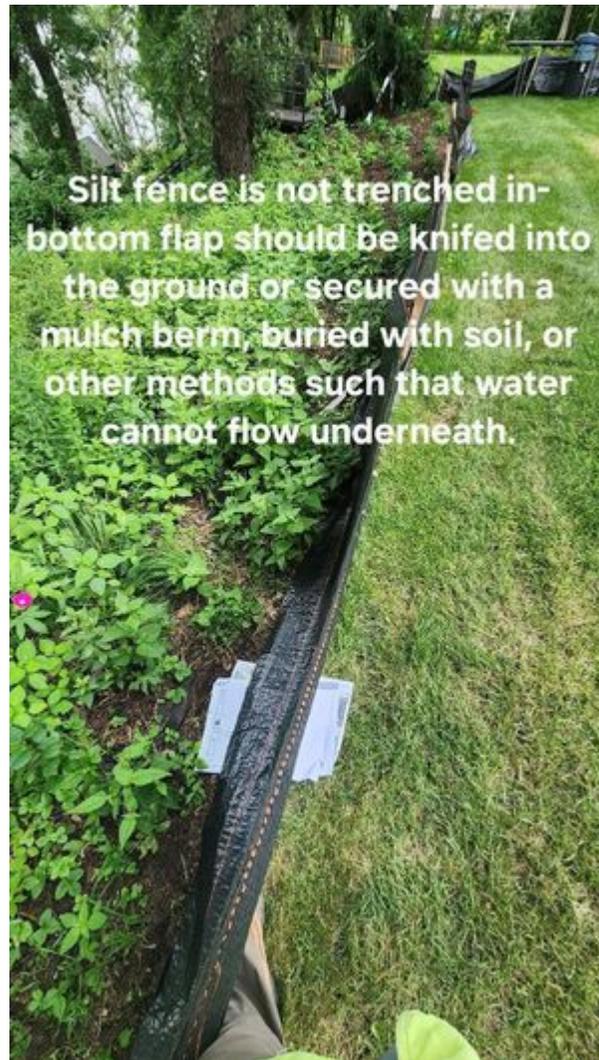
## Erosion & Sediment Control Compliance Summary & Corrective Action Notice



## Erosion & Sediment Control Compliance Summary & Corrective Action Notice



## Erosion & Sediment Control Compliance Summary & Corrective Action Notice



## Erosion & Sediment Control Compliance Summary & Corrective Action Notice



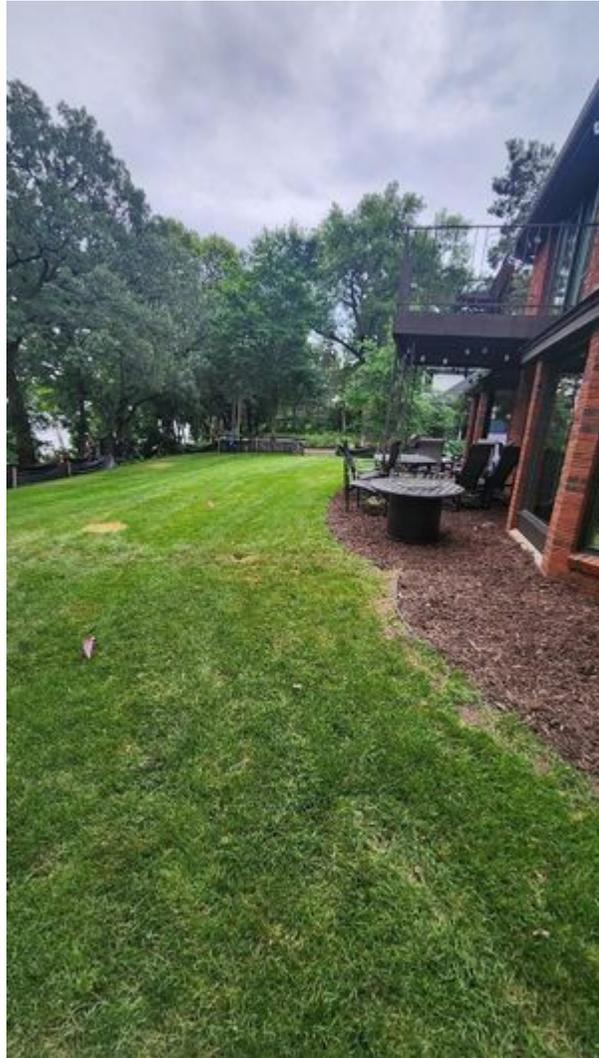
# Erosion & Sediment Control Compliance Summary & Corrective Action Notice



# Erosion & Sediment Control Compliance Summary & Corrective Action Notice



# Erosion & Sediment Control Compliance Summary & Corrective Action Notice





# Erosion & Sediment Control Compliance Summary & Corrective Action Notice

## Erosion & Sediment Control Compliance Summary & Corrective Action Notice

	Compliant	Non-compliant	Under Review	Not Inspected
<b>Erosion Prevention Requirements:</b>				
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Pipe outlets have energy dissipation (within 24 hours of connection)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Construction phasing in accordance with the approved plan is being followed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Areas not to be disturbed are marked off (flags, signs, ect.)	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>
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Temporary sediment basin is built as shown on approved construction plans	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>
Soil compaction is minimized where applicable	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>
<b>Maintenance and Inspection Requirements:</b>				
Previously stabilized areas are maintaining ground cover	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>
Perimeter controls are maintained and functioning properly	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>
Inlet protection devices are maintained and adequately protecting inlets	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
Temporary sediment basins are being maintained and properly functioning	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>
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Tracked sediment is being removed within 24 hours	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Surface waters, ditches, conveyances, and discharge points have been inspected	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
<b>Other Requirements:</b>				

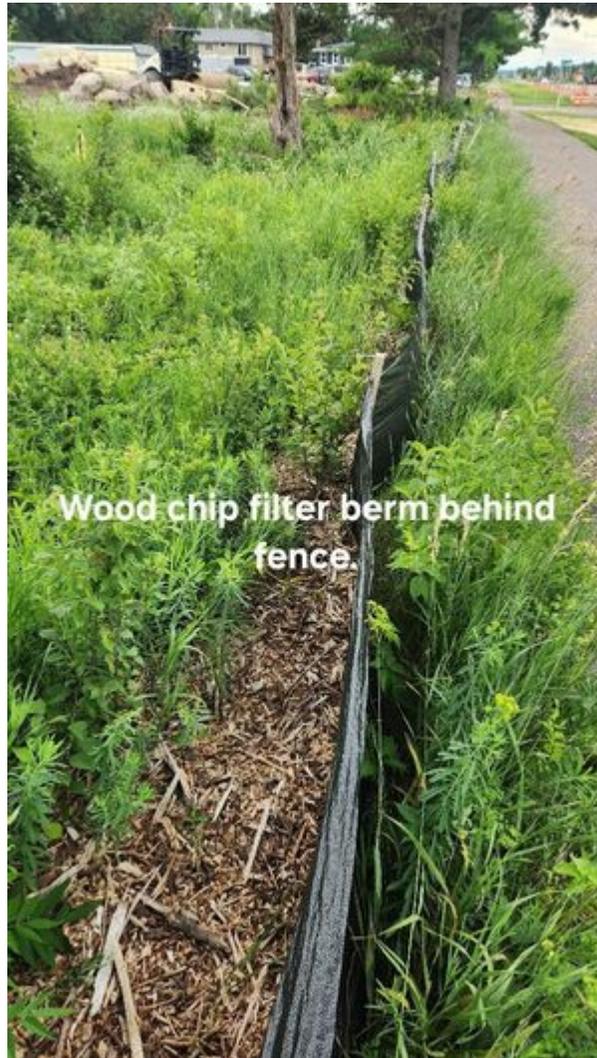
## Erosion & Sediment Control Compliance Summary & Corrective Action Notice

Pollution prevention management measures for solid waste, hazardous materials, concrete and truck washing are in place	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>
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If required buffers are preserved around all streams, rivers, lakes, and wetlands during construction	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>
If required, buffer monumentation has been installed	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>

# Erosion & Sediment Control Compliance Summary & Corrective Action Notice

Images of non-compliant items, concerns, or general conditions:

## Erosion & Sediment Control Compliance Summary & Corrective Action Notice



# Erosion & Sediment Control Compliance Summary & Corrective Action Notice



# Erosion & Sediment Control Compliance Summary & Corrective Action Notice



# Erosion & Sediment Control Compliance Summary & Corrective Action Notice



## Erosion & Sediment Control Compliance Summary & Corrective Action Notice



Stabilize soil stockpiles if work will be paused longer than 7 days.



## Erosion & Sediment Control Compliance Summary & Corrective Action Notice

Inspector Name: Aaron DeRusha      Inspection Date: 07/16/2025

Project Name: Lakeland Shores Properties, LLC.      Project Address: 16530 ? 1st St S

Site is within one mile of and discharges to an impaired or special water?

Yes  No

Inspection Type:  Pre-construction  Routine  Rainfall  Post-construction

Overall Site Grade:

<input type="checkbox"/> A	The site is <b>in full compliance</b> . All practices are in place and the site is well maintained.
<input type="checkbox"/> B	The site is <b>in compliance</b> , but normal maintenance activities are required.
<input type="checkbox"/> C	The site is <b>not in compliance</b> . Maintenance or supplemental practices are required.
<input checked="" type="checkbox"/> D	The site is <b>not in compliance</b> . Erosion and sediment control practices are in poor condition and controllable water resources or off-site impacts are likely.
<input type="checkbox"/> F	The site is in <b>severe non-compliance</b> . Controllable water quality or off-site impacts have occurred. Enforcement proceedings will be initiated unless immediate corrective actions are taken.

Corrective Action(s) Required:

1. Remove sediment accumulation from inlet protection
2. Immediately cease use of all non-stabilized accessses and remove all sediment from paved surfaces within 1 calendar day. All accesses must have rock or other means to prevent trackout.

General Comments or Potential Areas of Future Concern:

Trackout must be removed daily, especially during wet weather. Sediments cannot be allowed to wash down the storm drain.

Were any discharges observed during this inpection?  No  Yes

## Erosion & Sediment Control Compliance Summary & Corrective Action Notice

	Compliant	Non-compliant	Under Review	Not Inspected
<b>Erosion Prevention Requirements:</b>				
Soils are stabilized where no construction activity has occurred for 14 days (including stockpiles)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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Ditches/swales are stabilized 200' back from point of discharge	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Pipe outlets have energy dissipation (within 24 hours of connection)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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<b>Sediment Control Requirements:</b>				
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Appropriate BMPs are installed protecting inlets, catch basins, and culvert inlets	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>
Erodible stockpiles have perimeter control in place	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>
Temporary sediment basin is built as shown on approved construction plans	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>
Soil compaction is minimized where applicable	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>
<b>Maintenance and Inspection Requirements:</b>				
Previously stabilized areas are maintaining ground cover	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>
Perimeter controls are maintained and functioning properly	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>
Inlet protection devices are maintained and adequately protecting inlets	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>
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Vehicle tracking BMPs are in place at site exits and are maintained/functioning properly	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>
Tracked sediment is being removed within 24 hours	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Surface waters, ditches, conveyances, and discharge points have been inspected	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>
<b>Other Requirements:</b>				

## Erosion & Sediment Control Compliance Summary & Corrective Action Notice

Pollution prevention management measures for solid waste, hazardous materials, concrete and truck washing are in place	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>
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If required buffers are preserved around all streams, rivers, lakes, and wetlands during construction	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>
If required, buffer monumentation has been installed	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>

# Erosion & Sediment Control Compliance Summary & Corrective Action Notice

Images of non-compliant items, concerns, or general conditions:

## Erosion & Sediment Control Compliance Summary & Corrective Action Notice



# Erosion & Sediment Control Compliance Summary & Corrective Action Notice



## Erosion & Sediment Control Compliance Summary & Corrective Action Notice



# Erosion & Sediment Control Compliance Summary & Corrective Action Notice





## Erosion & Sediment Control Compliance Summary & Corrective Action Notice

Inspector Name: Aaron DeRusha

Inspection Date: 07/10/2025

Project Name: Mildon home

Project Address: 16757 25th St S

Site is within one mile of and discharges to an impaired or special water?

Yes  No

Inspection Type:  Pre-construction  Routine  Rainfall  Post-construction

Overall Site Grade:

<input checked="" type="checkbox"/> A	The site is <b>in full compliance</b> . All practices are in place and the site is well maintained.
<input type="checkbox"/> B	The site is <b>in compliance</b> , but normal maintenance activities are required.
<input type="checkbox"/> C	The site is <b>not in compliance</b> . Maintenance or supplemental practices are required.
<input type="checkbox"/> D	The site is <b>not in compliance</b> . Erosion and sediment control practices are in poor condition and controllable water resources or off-site impacts are likely.
<input type="checkbox"/> F	The site is in <b>severe non-compliance</b> . Controllable water quality or off-site impacts have occurred. Enforcement proceedings will be initiated unless immediate corrective actions are taken.

Corrective Action(s) Required:

**General Comments or Potential Areas of Future Concern:**

House demo underway. Double perimeter controls on river side of project are well installed. Discussed critical areas to protect on river side of build, future rain garden locations, and directing runoff to future rain gardens via tile tubing from roof downspouts.

Were any discharges observed during this inspection?  No  Yes

## Erosion & Sediment Control Compliance Summary & Corrective Action Notice

	Compliant	Non-compliant	Under Review	Not Inspected
<b>Erosion Prevention Requirements:</b>				
Soils are stabilized where no construction activity has occurred for 14 days (including stockpiles)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Disturbance of steep slopes has been minimized or stabilization practices designed for steep slopes are used	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>
Ditches/swales are stabilized 200' back from point of discharge	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Pipe outlets have energy dissipation (within 24 hours of connection)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Construction phasing in accordance with the approved plan is being followed	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Areas not to be disturbed are marked off (flags, signs, ect.)	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>
<b>Sediment Control Requirements:</b>				
Perimeter sediment controls are installed properly on all down gradient perimeters	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
Appropriate BMPs are installed protecting inlets, catch basins, and culvert inlets	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>
Erodible stockpiles have perimeter control in place	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>
Temporary sediment basin is built as shown on approved construction plans	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>
Soil compaction is minimized where applicable	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
<b>Maintenance and Inspection Requirements:</b>				
Previously stabilized areas are maintaining ground cover	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>
Perimeter controls are maintained and functioning properly	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
Inlet protection devices are maintained and adequately protecting inlets	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>
Temporary sediment basins are being maintained and properly functioning	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>
Vehicle tracking BMPs are in place at site exits and are maintained/functioning properly	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
Tracked sediment is being removed within 24 hours	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Surface waters, ditches, conveyances, and discharge points have been inspected	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
<b>Other Requirements:</b>				

## Erosion & Sediment Control Compliance Summary & Corrective Action Notice

Pollution prevention management measures for solid waste, hazardous materials, concrete and truck washing are in place	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>
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If required, buffer monumentation has been installed	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>

# Erosion & Sediment Control Compliance Summary & Corrective Action Notice

Images of non-compliant items, concerns, or general conditions:





## Erosion & Sediment Control Compliance Summary & Corrective Action Notice

Inspector Name: Aaron DeRusha      Inspection Date: 07/16/2025

Project Name: West Lakeland Outdoor Truck Storage Lot    Project Address: 430 Cedar View Road

Site is within one mile of and discharges to an impaired or special water?

Yes     No

Inspection Type:     Pre-construction     Routine     Rainfall     Post-construction

Overall Site Grade:

<input type="checkbox"/> A	The site is <b>in full compliance</b> . All practices are in place and the site is well maintained.
<input type="checkbox"/> B	The site is <b>in compliance</b> , but normal maintenance activities are required.
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<input type="checkbox"/> D	The site is <b>not in compliance</b> . Erosion and sediment control practices are in poor condition and controllable water resources or off-site impacts are likely.
<input type="checkbox"/> F	The site is in <b>severe non-compliance</b> . Controllable water quality or off-site impacts have occurred. Enforcement proceedings will be initiated unless immediate corrective actions are taken.

Corrective Action(s) Required:

**General Comments or Potential Areas of Future Concern:**

Met on site with owner. Base aggregate has been installed. Shallow bedrock encountered on the west and south perimeters, was not able to be fully expanded to plans. Southeast corner has culvert installed to carry water through concrete barriers, but outlet is perched and may cause erosion on the slope to the south. Will need follow up meeting with Matt to determine next steps. Owner claims to have photos of the culvert and slope pre construction. Extent of lot may be pushed past area noted on plans, as evidenced by fence location on plans and concrete barriers in photos. Culvert not shown on site survey.

## Erosion & Sediment Control Compliance Summary & Corrective Action Notice

Were any discharges observed during this inspection?  No  Yes

## Erosion & Sediment Control Compliance Summary & Corrective Action Notice

	Compliant	Non-compliant	Under Review	Not Inspected
<b>Erosion Prevention Requirements:</b>				
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<b>Maintenance and Inspection Requirements:</b>				
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Perimeter controls are maintained and functioning properly	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>
Inlet protection devices are maintained and adequately protecting inlets	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>
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Surface waters, ditches, conveyances, and discharge points have been inspected	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>
<b>Other Requirements:</b>				

## Erosion & Sediment Control Compliance Summary & Corrective Action Notice

Pollution prevention management measures for solid waste, hazardous materials, concrete and truck washing are in place	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>
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## Erosion & Sediment Control Compliance Summary & Corrective Action Notice

Images of non-compliant items, concerns, or general conditions:

# Erosion & Sediment Control Compliance Summary & Corrective Action Notice



# Erosion & Sediment Control Compliance Summary & Corrective Action Notice



# Erosion & Sediment Control Compliance Summary & Corrective Action Notice



# Erosion & Sediment Control Compliance Summary & Corrective Action Notice





## Erosion & Sediment Control Compliance Summary & Corrective Action Notice

Inspector Name: Aaron DeRusha      Inspection Date: 07/24/2025

Project Name: West Lakeland Outdoor Truck Storage Lot    Project Address: 430 Cedar View Road

Site is within one mile of and discharges to an impaired or special water?

Yes     No

Inspection Type:     Pre-construction     Routine     Rainfall     Post-construction

Overall Site Grade:

<input type="checkbox"/> A	The site is <b>in full compliance</b> . All practices are in place and the site is well maintained.
<input checked="" type="checkbox"/> B	The site is <b>in compliance</b> , but normal maintenance activities are required.
<input type="checkbox"/> C	The site is <b>not in compliance</b> . Maintenance or supplemental practices are required.
<input type="checkbox"/> D	The site is <b>not in compliance</b> . Erosion and sediment control practices are in poor condition and controllable water resources or off-site impacts are likely.
<input type="checkbox"/> F	The site is in <b>severe non-compliance</b> . Controllable water quality or off-site impacts have occurred. Enforcement proceedings will be initiated unless immediate corrective actions are taken.

Corrective Action(s) Required:

### General Comments or Potential Areas of Future Concern:

Met on site with Jeff Polacek and Matt Downing to discuss culvert outfall. Will discuss with district engineer to provide ideas to prevent undercutting of the culvert at the inlet, and slope scour at the outlet. Discussed a rip rap plunge pool with geotextile fabric at the outlet, shortening the culvert, placing rock filled baskets in front of the culvert inlet, or sealing the front edge of the apron with concrete and pouring a concrete pad to stabilize the inlet, such that water cannot get underneath the apron. Front side of apron is already more undercut than last week after moderate rains. Practices will be voluntary, but highly recommended to protect the integrity of the lot and outfall. Solutions need to be able to address eliminating possible ice cover in winter and semi truck traffic.

## Erosion & Sediment Control Compliance Summary & Corrective Action Notice

Were any discharges observed during this inspection?  No  Yes

## Erosion & Sediment Control Compliance Summary & Corrective Action Notice

	Compliant	Non-compliant	Under Review	Not Inspected
<b>Erosion Prevention Requirements:</b>				
Soils are stabilized where no construction activity has occurred for 14 days (including stockpiles)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Disturbance of steep slopes has been minimized or stabilization practices designed for steep slopes are used	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>
Ditches/swales are stabilized 200' back from point of discharge	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Pipe outlets have energy dissipation (within 24 hours of connection)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Construction phasing in accordance with the approved plan is being followed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Areas not to be disturbed are marked off (flags, signs, ect.)	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>
<b>Sediment Control Requirements:</b>				
Perimeter sediment controls are installed properly on all down gradient perimeters	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>
Appropriate BMPs are installed protecting inlets, catch basins, and culvert inlets	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>
Erodible stockpiles have perimeter control in place	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>
Temporary sediment basin is built as shown on approved construction plans	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>
Soil compaction is minimized where applicable	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>
<b>Maintenance and Inspection Requirements:</b>				
Previously stabilized areas are maintaining ground cover	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>
Perimeter controls are maintained and functioning properly	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>
Inlet protection devices are maintained and adequately protecting inlets	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>
Temporary sediment basins are being maintained and properly functioning	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>
Vehicle tracking BMPs are in place at site exits and are maintained/functioning properly	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>
Tracked sediment is being removed within 24 hours	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Surface waters, ditches, conveyances, and discharge points have been inspected	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>
<b>Other Requirements:</b>				

## Erosion & Sediment Control Compliance Summary & Corrective Action Notice

Pollution prevention management measures for solid waste, hazardous materials, concrete and truck washing are in place	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>
If dewatering is occurring, BMPs are being used to ensure clean water is leaving the site and discharge is not causing erosion	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>
If being utilized, infiltration/filtration systems are marked and protected from compaction and sediment	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>
If required buffers are preserved around all streams, rivers, lakes, and wetlands during construction	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>
If required, buffer monumentation has been installed	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>

# Erosion & Sediment Control Compliance Summary & Corrective Action Notice

Images of non-compliant items, concerns, or general conditions:





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## **Staff Report- June/July 2025**

### **Administration**

- Prepared August meeting materials
- Participated in Lower St. Croix Partnership meetings
- Watershed management plan coordination
- Permit review coordination with communities

### **Project Reviews**

- 836 Minnesota St – **ACTION**
- 297 Lake St. S – **ACTION**
- 1365 Curve Crest Blvd. – **ACTION**
- 103 Main St N. – **ACTION**
- Lumberjack Landing – **ACTION**
- 850 Quixote Ave – **DISCUSS**
- 151XX 15<sup>th</sup> St N. – **ACTION**
- 1081 Quixote Ave N. – **DISCUSS**

### **10-Year Management Plan Update**

**Description:** The Board of Water and Soil Resources (BWSR) requires watersheds to have a management plan and MSCWMO's current management plan expires in 2025, as such a management plan update is underway. This plan will meet BWSR's various requirements and is on track to be completed by the end of 2025.

**Activities This Month:** Task 1 - stakeholder engagement portion of the plan is complete. Task – 2 Implementation, Prioritization, and Actions is complete. An inventory and assessment of existing BMPs and mapping of MSCWMO's features has been completed and the report is an appendix of the plan. A detailed inspection protocol has been developed. Updates to the cost share program and performance standards have been made and reviewed by the Board. Task 3 – Plan Composition is draft is complete and was sent out to review agencies on February 28, 2025. The 60-day Review Period has closed, 164 total comments were received. Two meetings have been held with BWSR to review of the agency comments. Proposed responses to plan comments have been developed and sent to review agencies. The August 14<sup>th</sup> Board Meeting will serve as the Public Hearing for these comment responses.

**Staff:** Rebecca Oldenburg-Downing, WCD

### **Water Monitoring Program**

**Description:** The MSCWMO water monitoring program includes the monitoring of flow at three sites. These sites have that equipment serves to collect data on the total volume of water flowing into Lily Lake at the Greeley Street Inlet, through Perro Creek at the Diversion

Structure, as well as, the Perro Creek Diversion Structure Overflow. Water quality is also collected at the Greeley Street Inlet and the Perro Creek Diversion Structure on a monthly basis, as well as during storm events.

Additionally, the MSCWMO monitors two lakes, Lily and McKusick for several parameters from April-October. Data is collected on both lakes on a biweekly basis and includes: water level, clarity, pH, temperature and dissolved oxygen profiles, an aesthetics and user profile, and field conditions. Additionally, water quality samples are collected from the surface of the lakes and analyzed for total phosphorus, total Kjeldahl nitrogen, and chlorophyll.

**Activities This Month:** Equipment has been deployed to monitor the Perro Diversion and Perro Diversion Overflow sites. Three base grab and five storm samples have been collected at Perro Creek Diversion Structure. Lake monitoring is ongoing with eight samples having been collected on Lily and McKusick Lakes, respectively. Lake elevation gages readings are being take on Lily Lake, McKusick Lake, and Brick Pond. A volunteer will be collecting elevations on Brick Pond.

**Staff:** Rebecca Oldenburg-Downing, WCD

### **Erosion and Sediment Control Inspections**

**Description:** The MSCWMO has contracted with the WCD to conduct erosion and sediment control inspections for construction projects that have been reviewed and recommended for permit approval by partner communities. The WCD also maintains an ArcGIS Online based database for project plan review tracking, erosion control inspection, and BMP implementation and maintenance activities.

**Activities This Month:** Eight inspections and/or technical assistance were provided at the 115 Lakeland Shores Rd Garage, 1045 Quentin- Hamer Deck, Lakeland Shores Properties, LLC, 16757 25<sup>th</sup> St S- Mildon Home, and West Lakeland Outdoor Truck Storage projects. Proper construction of the infiltration basin and grading to carry water to the basin were discussed at the 115 Lakeland Shores Rd Garage project, and no issues were found. The Hamer Deck project had finished removing and stabilizing the bluffside pavers, nearly complete with the hillside lift, and will be installing the deck next. Minor adjustments to perimeter controls were needed. At the Lakeland Shores Properties, LLC project repairs to the perimeter controls were needed. Following heavy rains, a resident complaint regarding sediment trackout on the street was received and investigated in a second inspection. The site operator was directed to immediately remove sediments from the roadway and cease all use of all non-stabilized accesses to the site. The Mildon Home site was found to be in compliance with double rows of perimeter controls being well installed. Future critical areas to monitor and proper rain garden construction was discussed with the landowner. The West Lakeland Outdoor Truck Storage project was found to be finished with the gravel parking area installation. However, a perched culvert collecting drainage from the site not described on the original survey was found and noted to be a risk for undermining at the front edge of the culvert, and slope scour at the perched outlet. A follow up site meeting was conducted to determine compliance, and assistance to prevent undermining and/or scour at the ends of the culvert is being provided to the landowner.

**Staff:** Aaron DeRusha, WCD

### **BMP Maintenance**

**Description:** The MSCWMO has a maintenance obligation for its Capital Improvement Projects and projects funded by Clean Water Fund grants. The MSCWMO partners with the Washington Conservation District to fulfill this maintenance requirement.

**Activities this month:** Vegetative maintenance at Lakeland project site, Lily Lake basin, and Stillwater Country Club. Red Hailstone treatment in the Mulberry Rvaine.

**Staff:** Cameron Blake, WCD

### **Small Scale Habitat & Water Quality Enhancement Projects**

**Description:** In 2024 the WCD received Conservation Corps crew time on behalf of the WMO under FY24 Clean Water Funding to continue small-scale habitat and water quality enhancement projects in throughout the District. Identified projects included a vegetative buffer enhancement along Perro Creek in Bayport, support for a 215-foot buffer expansion between Riviera Avenue S and the St. Croix River in Lake St. Croix Beach under the WCD FY23 Habitat Enhancement Landscape Program (HELP) Grant, and continued support for private shoreline enhancement.

**Activities This Month:** WCD staff have continued to monitor and maintain the Lake St. Croix Beach “South Beach” buffer restoration during establishment.

**Staff:** Brett Stolpestad, WCD

### **Meetings:**

- Bayhaven Trail Pre - App – June 12<sup>th</sup>
- 1081 Quixote – June 19<sup>th</sup>
- 1081 Quixote on Site – June 25<sup>th</sup>
- LSC Steering Team – June 25<sup>th</sup>
- EMWREP Planning – July 1<sup>st</sup>
- MIDS re-education – July 7<sup>th</sup>
- Management Plan Comment Review – July 16<sup>th</sup>
- PFAS Grant App – July 17<sup>th</sup>
- Outdoor Truck Storage Site Visit – July 24<sup>th</sup>

## **MSCWMO Member Communities**

Afton • Bayport • Baytown • Lakeland • Lakeland Shores • Lake St. Croix Beach • Oak Park Heights  
St. Mary's Point • Stillwater • West Lakeland