

# 2020 MS4 General Permit-TMDL Application Form Interactive Question and Answer Session



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# Where is the TMDL Application Form?

Guidance: <u>Guidance for completing the MS4 Permit TMDL Application Form - Minnesota Stormwater Manual (state.mn.us)</u>

Overview page: 2020 MS4 General Permit TMDL Application - Minnesota Stormwater Manual (state.mn.us)

TMDL Application Forms: ShareBase by Hyland

Application Forms were moved to a new location

### Rice Creek Watershed District Southwest Urban Lakes

#### **Total Maximum Daily Load Study**



Image: Island Lake



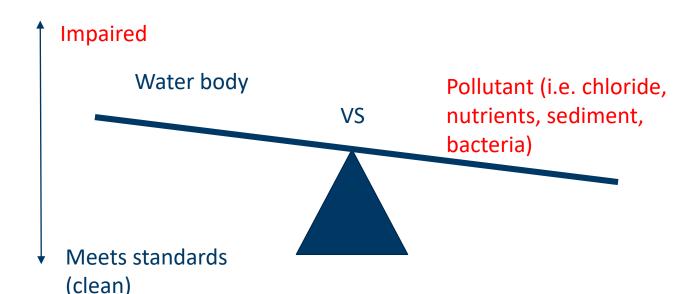


# TMDL Report

What's a TMDL?

-Total Maximum Daily Load

- An equation
  - A report



wq-iw11-19e

# 2020 Permit –Application requirements

### Oxygen demand, nitrate, total suspended solids and total phosphorus

# TMDL Permit Application Form Completion

Yes! I have WLAs that are being met

No! I have WLAs that are not being met

Complete 'Reductions for WLA met' tab Complete 'BMPs for WLAs' met tab Complete 'Compliance Schedule' tab Complete 'Compliance Schedule BMPs' tab

#### New resources

- Street sweeping Minnesota Stormwater Manual (state.mn.us)
- Draft Street Sweeping Calculator is available for use for phosphorus reductions: <a href="Street Sweeping">Street Sweeping</a> <a href="Phosphorus Credit Calculator">Phosphorus Credit Calculator</a> <a href="Minnesota Stormwater Manual">Minnesota Stormwater Manual</a> (state.mn.us)
- User's Guide for Draft Street Sweeping Calculator: <u>Street Sweeping Phosphorus Credit Calculator: User</u> Guide Minnesota Stormwater Manual (state.mn.us)

• No calculator for Street Sweeping and TSS, but there are some limited guidance if you want to determine reductions: TSS credits for street sweeping - Minnesota Stormwater Manual (state.mn.us)

### MPCA Calculated Loading Rates

MPCA staff have calculated loading rates (lbs/ac/yr) for each of the TMDL Projects

below:

#### **Categorical WLAs with no percent reduction**

**Burandt Lake Excess Nutrients TMDL** 

Elk River Watershed TMDL

Golden Lake TMDL

Lower Cannon River Turbidity TMDL

Miss. River - Saint Cloud WRAPS 2009

Twin (Upper, Middle, and Lower) and Ryan Lakes TMDLs

**Zumbro River Watershed Turbidity TMDL** 

#### No reductions at mid-flow or no percent reductions listed

Cannon River WRAPS

Cedar River WRAPS

Hawk Creek Watershed WRAPS

North Fork Crow and Lower Crow Bacteria, Turbidity, and Low DO TMDL

South Fork Crow River WRAPS 2012

Red Lake River WRAPS 2012

West Fork Des Moines River Watershed TMDL: Excess Nutrients (North and South Heron Lake), Turbidity, and Fecal Coliform

Loading rates can be found in the spreadsheet located in the FAQ: <u>Guidance for completing the MS4 Permit TMDL Application Form - Minnesota Stormwater Manual (state.mn.us)</u>

# Loading rates

A	В	С	D	E	F	G	Н	The state of the s	J
Documentation for Waste load Allocations being	met (permit iter	n 12.10)							_
Fill in the following table for each applicable oxyen demand, nitrate reductions from BMPs that serve to meet the MS4 WLA reduction:									
https://stormwater.pca.state.mn.us/index	:.php?title=Guidance_fo	r_completing_the_MS	64_Permit_TMDL_Appl	ication_Form#12.10_Reductions	for WLAs met tab				
Required	Cumulative Estima		Required	Required if "other" selected in column D	Required	Required	Required if WLA is categorical	Required if WLA is categorical	Optional
TMDL project name, waterbody and pollutant	Cumulative estimated reduction- How are you claiming to meet the WLA?	to units specified in	Method(s) used to calculate	Name of other model	Do you have the calculations available on file?	Is this part of a categorical WLA? (See Column E on Applicable WLAs determination tab)	If part of a Categorical WLA, how did you determine your portion of the WLA?	What is your portion of the categorical WLA? (Include units	Notes
Golden Lake TMDL-Golden-(02-0045-00)-TP		Enter your calculated loading	MPCA Simple	The state of the s	Yes	Yes	Other	Used calculated loading rate	Enter MPCA calculated loading rate
Golden Lake TMDL-Golden-(02-0045-00)-TP	Loading rate (lb/ac/yr)	rate			Yes	Yes	Other	Used calculated loading rate	Enter MPCA calculated load

If you are meeting a calculated loading rate, this is how you would note that on the TMDL Application

# Compliance schedule and target dates

1. If permittee is implementing practices with quantifiable reductions, it is expected that they will provide a target date for compliance with the WLA, using their best judgement. (Possible methods would be extrapolating from reductions planned this cycle, check WRAPS or Implementation Plan for target dates)

#### Compliance schedule for Wasteload Allocations not being met (permit item 12.8)

Fill in the target year that each of the applicable WLA(s) will be achieved for each TMDL, waterbody and pollutant listed in column A. If you have an applicable WLA for total suspended solids (TSS) or total phosphorus (TP), a cumulative estimate of TSS and TP load reductions to be achieved during the permit term and the method used to determine the estimate should be entered in Columns D and E. For further instruction on completing this tab, refer to:

https://stormwater.pca.state.mn.us/index.php?title=Guidance for completing the MS4 Permit TMDL Application Form#12.8 Compliance schedule tab

TMDL Project Name, Waterbody, and Pollutant	Pollutant	Target year WLA will be	Estimated pollutant reduction this permit cycle (include units, such as lbs, percent reduction, lb/acre, etc.)	Method(s) for calculating reduction
North Fork Crow and Lower Crow Bacteria, Turbidity, and Low DO TMDL-Crow River-(07010204-502)-TSS	TSS	2050	10 lb/ac	MPCA Simple Estimator
South Metro Mississippi TSS TMDL-Mississippi River- (07040001-531)-TSS	TSS	2025	10 lb/ac	MPCA Simple Estimator

# Compliance schedule and target dates

2. If the permittee is implementing practices that measurably reduce pollutants, but aren't necessarily quantifiable right now, they should provide a target date for meeting their WLA, and "undetermined reductions". If better data comes out in the future, their target date may be changed on future applications.

#### Compliance schedule for Wasteload Allocations not being met (permit item 12.8)

Fill in the target year that each of the applicable WLA(s) will be achieved for each TMDL, waterbody and pollutant listed in column A. If you have an applicable WLA for total suspended solids (TSS) or total phosphorus (TP), a cumulative estimate of TSS and TP load reductions to be achieved during the permit term and the method used to determin estimate should be entered in Columns D and E. For further instruction on completing this tab, refer to:

https://stormwater.pca.state.mn.us/index.php?title=Guidance\_for\_completing\_the\_MS4\_Permit\_TMDL\_Application\_Form#12.8\_Compliance\_schedule\_tab

	Pollutant	Target year WLA will	Estimated pollutant reduction this permit cycle (include units, such as lbs, percent reduction, lb/acre, etc.)	Method(s) for calculation
and Low DO TMDL-Crow River-(07010204-502)-				
TSS	TSS	2050	undetermined reductions	Other
South Metro Mississippi TSS TMDL-Mississippi River-(07040001-531)-TSS	TSS	2030	undetermined reductions	Other

# Compliance schedule and target dates

3. If they are not going to implement any practices that reduce pollutant loading (ie seeking approval and/or planning for future BMPs, feasibility studies, etc) they may enter "target year to be reported next permit cycle" in the target year box. "No reductions planned this permit cycle" in the estimated reductions box.

#### Compliance schedule for Wasteload Allocations not being met (permit item 12.8)

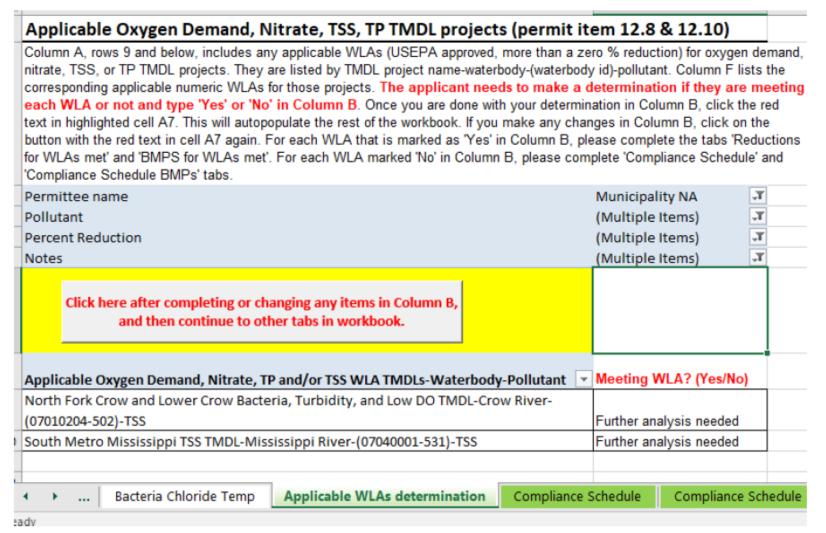
Fill in the target year that each of the applicable WLA(s) will be achieved for each TMDL, waterbody and pollutant listed in column A. If you have an applicable WLA for total suspended solids (TSS) or total phosphorus (TP), a cumulative estimate of TSS and TP load reductions to be achieved during the permit term and the method used to determine the estimate should be entered in Columns D and E. For further instruction on completing this tab, refer to:

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TMDL Project Name, Waterbody, and Pollutant	Pollutant	Target year WLA will be	Estimated pollutant reduction this permit cycle (include units, such as lbs, percent reduction, lb/acre, etc.)	Method(s) for calculating reduction
North Fork Crow and Lower Crow Bacteria, Turbidity, and Low DO TMDL-Crow River-(07010204-502)-TSS	TSS	Target year to be reported next permit cycle	No reductions planned this cycle	Other
South Metro Mississippi TSS TMDL-Mississippi River- (07040001-531)-TSS	TSS	Target year reported next permit cycle	No reductions planned this cycle	Other

# Compliance schedule and target dates- those affected by 2019 legislation

 On the Applicable WLAs determination tab- In column B, under Meeting WLA? Yes/No, enter "Further analysis needed".



# Compliance schedule and target dates- those affected by 2019 legislation

 On question 174 of the PDF portion of the Application- Provide the suggested statement below, or similar. Note: Once the permit application is public noticed and coverage under the MS4 permit is issued to the applicant, the application becomes an enforceable part of the permit.

#### Additional information

174. Provide any additional information about your current Stormwater Pollution Prevention Program (SWPPP) that you would like to share (optional): (Maximum 30 lines of text)

Due to the 2019 legislation, [insert name of municipality] finds it necessary to use this permit term to re-define the regulated areas within the municipal jurisdiction, and to partner with the MPCA to properly determine appropriate and applicable WLAs associated with EPA-approved TMDLs that apply to the municipality. In addition, the [insert name of municipality] will develop a plan/strategy to address any applicable WLAs as determined through this process.

### Additional information request

- If you marked 'Yes' in any cells in Column B on the 'Applicable WLAs determination' tab on the TMDL application form, please include a brief narrative explaining the approach you used to make that determination. This narrative may be entered in Q174 on page 32 of the MS4 Part 2 Permit Application (PDF) or as a supplemental attachment (e.g., Word document). Recommended information to include in your narrative:
  - What MS4 area did you use in your determination? (i.e. MS4 Boundary layer, NCLD developed land cover, entire jurisdictional area, etc.)
  - Which WLA area did you use in your determination? (TMDL study area shapefile from Sharebase site, looked at map from TMDL report, some other delineation, etc.)
  - If the units in the numeric WLA column on the 'Applicable WLAs determination' tab and the units used in the 'Reductions for WLA met' tabs do not correspond, please explain how you converted from one to the other.

#### Resources – Minnesota Stormwater Manual

# Total Maximum Daily Loads (TMDLs) - Minnesota Stormwater Manual

#### TMDL MS4 permit guidance

- Summary of TMDL requirements in stormwater permits
- Guidance for completing the MS4 Permit TMDL Application Form
- Guidance for meeting chloride TMDL MS4 permit requirements
- Guidance for meeting bacteria TMDL MS4 permit requirements
- Guidance for meeting dissolved oxygen or oxygen demand TMDL MS4 permit requirements
- Guidance for meeting temperature TMDL MS4 permit requirements



- <u>Guidance for categorical TMDLs</u> Updated guidance
- List of Approved TMDLs with MS4 WLAs
- Forms, guidance, and resources for completing the TMDL annual report form
- Baseline year
- Interpreting wasteload allocations based on flow/load duration curves

#### **New Resource**

# Shapefiles for TMDL projects



- Should include subwatershed areas used in the project
- May include MS4 areas
- https://app.sharebase.com/#/folder/37975/share/185-OU4QvSU24mc9PBCUGuysE-jhy1o

# **Recordings & Presentations**

• MS4 webinars and videos - Minnesota Stormwater Manual (state.mn.us)

#### 2020 General Permit TMDL Application Form Webinars and Presentations [edit]

- 1. MS4 Permit Application form (Excel spreadsheet) Overview Feb. 16, 2021 Webex meeting
- 2. Powerpoint of February 16-includes links to helpful resources
- 3. South Metro Mississippi River TSS TMDL February 23, 2021 Webex meeting
- 4. Powerpoint of February 23-includes links to helpful resources

#### Webinars [edit]

- 1. Overview of the MS4 Part 2 Permit Application (PDF) and public notice process Feb. 10, 2021 Webex meeting
- 2. Overview of the MPCA Simple Estimator Feb. 18, 2021 Zoom meeting
- 3. MS4 Audit Process
- 4. Self-Audit Guidance
- 5. How to use the Notice of Termination/Permit Modification Form
- 6. MS4 Program Overview and minimum control measures (MCM) descriptions
- 2020 MS4 general permit | Minnesota Pollution Control Agency (state.mn.us)



Questions?

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