

The worksheets in this workbook are customized for :

**Red Wing city of**

### Instructions

You must complete this form for your applicable waste load allocations (WLAs) for oxygen demand, nitrate, total suspended solids (TSS), and total phosphorus (TP). Navigate the form using the worksheet tabs and complete all of the required fields as needed. MPCA staff have inserted the applicable TMDL projects on the **Applicable WLAs determination** tab. Applicants will need to determine whether or not they are meeting the WLAs associated with each TMDL and then provide the information required with that determination on subsequent workbook tabs.

### Notes for using this workbook

**For the workbook to function- you must click Enable Content when opening, and save it as a macro-enabled spreadsheet (.xlsm type file)**

This spreadsheet contains macros. Save the file as a macro-enabled file to retain the macros.

If you need to clear a cell, please use the delete button and not the backspace button.

Some entries are optional. Look at the column header to identify cells that are optional.

This workbook contains protected cells that allow you to enter values but do not delete or change coding.

Worksheets with white tabs are for information only and do not require any input from the applicant.

Worksheets with green tabs may require information from the applicant.

### This workbook contains worksheets for TMDL Waste Load Allocations

The worksheet called **Bacteria Chloride Temp** contains a custom list of applicable WLAs for bacteria, chloride or temperature. This provides information to answer questions 141, 146 and 151 on the MS4 Part 2 Permit Application.

The worksheet called **Applicable WLAs Determination** contains a custom list of oxygen demand, nitrate, TSS and/or TP WLAs for each permittee. Column B in this worksheet needs to be completed by the applicant in order to populate the following worksheets. If there are no TMDLs listed, you have no TMDLs to report on in this workbook, and you should enter 'No' for question 155 on the MS4 Part 2 Permit Application.

The worksheet called **Compliance Schedule** should be completed for all oxygen demand, nitrate, TSS and/or TP TMDL Waste Load Allocations (WLAs) you are not

The worksheet called **Compliance Schedule BMPs** should be completed for all oxygen demand, nitrate, TSS and/or TP TMDL Waste Load Allocations (WLAs) you are not

The worksheet called **Reductions for WLAs met** should be completed for all oxygen demand, nitrate, TSS and/or TP TMDL Waste Load Allocations (WLAs) you are not

The worksheet called **BMPs for WLAs met** should be completed for all oxygen demand, nitrate, TSS and/or TP TMDL Waste Load Allocations (WLAs) you are not

The worksheet called **TMDL Master List** contains summary information for all U.S. Environmental Protection Agency-approved TMDL waste load allocations. It is for informational/reference purposes only.

### Questions?

If you have any questions, see the MS4 staff page to find the staff assigned to your MS4 at:

[https://stormwater.pca.state.mn.us/index.php?title=MS4\\_staff\\_contact\\_information\\_and\\_staff\\_assignments](https://stormwater.pca.state.mn.us/index.php?title=MS4_staff_contact_information_and_staff_assignments)

or see the staff contact information on the Minnesota Pollution Control Agency's (MPCA) MS4 webpage at:

<https://www.pca.state.mn.us/water/municipal-stormwater-ms4>

## Useful links

**Guidance on completing this form (workbook)** - found on the MPCA's website at:

[https://stormwater.pca.state.mn.us/index.php?title=Guidance\\_for\\_completing\\_the\\_MS4\\_Permit\\_TMDL\\_Application\\_Form](https://stormwater.pca.state.mn.us/index.php?title=Guidance_for_completing_the_MS4_Permit_TMDL_Application_Form)

The above link includes guidance for completing the form, examples for completing the form, and a video illustrating how to complete the form.

**Link to permit** - found on MPCA's website at:

[https://stormwater.pca.state.mn.us/index.php?title=Stormwater\\_Program\\_for\\_Municipal\\_Separate\\_Storm\\_Sewer\\_Systems\\_\(MS4\)#MS4\\_stormwater\\_permit](https://stormwater.pca.state.mn.us/index.php?title=Stormwater_Program_for_Municipal_Separate_Storm_Sewer_Systems_(MS4)#MS4_stormwater_permit)

**Guidance for categorical wasteload allocations** - found on the MPCA's website at:

[https://stormwater.pca.state.mn.us/index.php?title=Guidance\\_for\\_categorical\\_TMDLs](https://stormwater.pca.state.mn.us/index.php?title=Guidance_for_categorical_TMDLs)

## **Bacteria, Chloride and Temperature Wasteload Allocation TMDL pr**

Column A, rows 9 and beyond, will list any applicable WLAs for bacteria, chloride or temp zero % reduction). Use the information in this tab to answer questions 141, 146 and 151 i project listed for any certain pollutant, you would check the 'No' box for the corresponding

Permittee name  
Percent Reduction

### **Applicable WLAs for Bacteria, Temperature, or Chloride**

#### **E. coli**

##### **Cannon River WRAPS 2011**

Cannon River  
Spring Creek

##### **Miss. River - Lake Pepin (Wells Creek) WRAPS 2008**

Bullard Creek  
Hay Creek

## **objects (permit item 12.9)**

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perature TMDL projects (USEPA approved, more than a  
n the MS4 Part 2 Permit Application. If there is not a  
question(s) in the MS4 Part 2 Permit Application.

Red Wing city of  
(Multiple Items)

## **Applicable Oxygen Demand, Nitrate, TSS, TP TMDL projects (permit item 12.1**

Column A, rows 9 and below, includes any applicable WLAs (USEPA approved, more than a zero % r (waterbody id)-pollutant. Column F lists the corresponding applicable numeric WLAs for those project **in Column B**. Once you are done with your determination in Column B, click the red text in highlighter with the red text in cell A7 again. For each WLA that is marked as 'Yes' in Column B, please complete complete 'Compliance Schedule' and 'Compliance Schedule BMPs' tabs.

Permittee name

Pollutant

Percent Reduction

Notes

### **Applicable Oxygen Demand, Nitrate, TP and/or TSS WLA TMDLs-Waterbody-Pollutant**

South Metro Mississippi TSS TMDL-Mississippi River-(07040001-531)-TSS

### **3 & 12.10)**

reduction) for oxygen demand, nitrate,  
s. **The applicant needs to make a de**  
d cell A7. This will autopopulate the res  
the tabs 'Reductions for WLAs met' a

Red Wing city of  
(Multiple Items)  
(Multiple Items)  
(Multiple Items)

Workbook autopopulated.  
Continue to other tabs.

**Meeting WLA? (Yes/No)**

Yes

TSS, or TP TMDL projects. They are listed by TMDL project name-waterbody-  
**termination if they are meeting each WLA or not and type 'Yes' or 'No'**  
 st of the workbook. If you make any changes in Column B, click on the button  
 and 'BMPS for WLAs met'. For each WLA marked 'No' in Column B, please

Permittee name	Red Wing city of
Pollutant	(Multiple Items)

TMDL Project - waterbody - pollutant	WLA type	Numeric WLA
South Metro Mississippi TSS TMDL-Mississippi River-(07040001-531)-TSS	Categorical	154.000

<b>Units</b>	<b>Flow Condition</b>	<b>Percent Reduction</b>	<b>Notes</b>
lbs/acre/year	Not Applicable	<b>Not Available</b>	(blank)

































































































































































































































































































































































































































































































































































































## **BMPs (Best Management Practices) for Wasteload Allocations being met (permit item**

Fill in the following table with a list of all stormwater BMPs implemented to achieve the applicable WLA. For structural, geographic coordinates (x coordinate and y coordinate), and owner. Then put an "X" in the boxes for the TMDL that WLA's met" worksheet. For more guidance on completing this tab, see:

[https://stormwater.pca.state.mn.us/index.php?title=Guidance for completing the MS4 Permit TMDL](https://stormwater.pca.state.mn.us/index.php?title=Guidance%20for%20completing%20the%20MS4%20Permit%20TMDL)

For the "Best Management Practice/Activity" column, please use the dropdown (click on downward arrow to see options)

<b>Required</b>	<b>Optional</b>
<b>Best Management Practice/Activity</b>	<b>BMP description (optional)</b>
Constructed_basin	Wet pond/wet detention pond
Constructed_basin	Wet pond/wet detention pond
Constructed_basin	Dry pond/dry detention pond
Constructed_basin	Wet pond/wet detention pond
Constructed_basin	Dry pond/dry detention pond
Constructed_basin	Wet pond/wet detention pond
Constructed_basin	Wet pond/wet detention pond























































































Coordinates required if with "NA"	Required	Required if cell says "Enter owner"	Optional
Y coordinate (e.g., 45.21049133)	Owner	Other owner	Estimated TSS reduction (lbs)
NA	Permittee (you)	NA	
44.563111	Permittee (you)	NA	
NA	Permittee (you)	NA	
44.554856	Other	Red Wing Golf Club	
NA	Permittee (you)	NA	
44.569152	Other	Target	
4.564704	Other	Walmart	
		Enter owner	







































































































































































































































































































































































































































































































































































































































## TMDL Master List

### Municipal Separate Storm Sewer Systems (MS4) Program

Total Maximum Daily Load (TMDL), Wasteload Allocations (WLAs)

**This table is for reference only** and shows ALL waste load allocations assigned to an MS4 and all flow zones, whether they need to be reported on in this application or not. See 'Applicable WLAs determination' tab for oxygen demand, nitrogen, TSS and TP WLAs that need compliance schedules or documentation to demonstrate that the WLAs are being met.

Permittee name	MS4 Permit #	TMDL project name	Waterbody ID
Red Wing city of	MS400235	Cannon River WRAPS 2011	07040002-501
Red Wing city of	MS400235	Cannon River WRAPS 2011	07040002-501
Red Wing city of	MS400235	Cannon River WRAPS 2011	07040002-501
Red Wing city of	MS400235	Cannon River WRAPS 2011	07040002-501
Red Wing city of	MS400235	Cannon River WRAPS 2011	07040002-501
Red Wing city of	MS400235	Cannon River WRAPS 2011	07040002-569
Red Wing city of	MS400235	Cannon River WRAPS 2011	07040002-569
Red Wing city of	MS400235	Cannon River WRAPS 2011	07040002-569
Red Wing city of	MS400235	Cannon River WRAPS 2011	07040002-569
Red Wing city of	MS400235	Cannon River WRAPS 2011	07040002-569
Red Wing city of	MS400235	Miss. River - Lake Pepin (Wells Creek) WRAPS 2008	07040001-518
Red Wing city of	MS400235	Miss. River - Lake Pepin (Wells Creek) WRAPS 2008	07040001-518
Red Wing city of	MS400235	Miss. River - Lake Pepin (Wells Creek) WRAPS 2008	07040001-518
Red Wing city of	MS400235	Miss. River - Lake Pepin (Wells Creek) WRAPS 2008	07040001-518
Red Wing city of	MS400235	Miss. River - Lake Pepin (Wells Creek) WRAPS 2008	07040001-518
Red Wing city of	MS400235	Miss. River - Lake Pepin (Wells Creek) WRAPS 2008	07040001-526
Red Wing city of	MS400235	Miss. River - Lake Pepin (Wells Creek) WRAPS 2008	07040001-526
Red Wing city of	MS400235	Miss. River - Lake Pepin (Wells Creek) WRAPS 2008	07040001-526
Red Wing city of	MS400235	Miss. River - Lake Pepin (Wells Creek) WRAPS 2008	07040001-526

Red Wing city of	MS400235	Miss. River - Lake Pepin (Wells Creek) WRAPS 2008	07040001-526
Red Wing city of	MS400235	South Metro Mississippi TSS TMDL	07040001-531

Waterbody name	WLA type	Numeric WLA	Units	Flow Condition	Percent Reduction	Pollutant	Annual/Daily	MPCA Recommended Baseline year
Cannon River	Individual	44.500	billions of organisms/day	Very High	Not Available	E. coli	Daily	2010
Cannon River	Individual	13.850	billions of organisms/day	High	Not Available	E. coli	Daily	2010
Cannon River	Individual	7.650	billions of organisms/day	Mid	Not Available	E. coli	Daily	2010
Cannon River	Individual	4.460	billions of organisms/day	Low	Not Available	E. coli	Daily	2010
Cannon River	Individual	2.430	billions of organisms/day	Very Low	Not Available	E. coli	Daily	2010
Spring Creek	Individual	22.040	kg/day	Very High	Not Available	E. coli	Daily	2009
Spring Creek	Individual	5.930	kg/day	High	Not Available	E. coli	Daily	2009
Spring Creek	Individual	4.010	kg/day	Mid	Not Available	E. coli	Daily	2009
Spring Creek	Individual	3.130	kg/day	Low	Not Available	E. coli	Daily	2009
Spring Creek	Individual	2.300	kg/day	Very Low	Not Available	E. coli	Daily	2009
Hay Creek	Individual	9.300	billions of organisms/day	Very High	Not Available	E. coli	Daily	2010
Hay Creek	Individual	7.300	billions of organisms/day	High	Not Available	E. coli	Daily	2010
Hay Creek	Individual	6.700	billions of organisms/day	Mid	Not Available	E. coli	Daily	2010
Hay Creek	Individual	5.900	billions of organisms/day	Low	Not Available	E. coli	Daily	2010
Hay Creek	Individual	4.800	billions of organisms/day	Very Low	Not Available	E. coli	Daily	2010
Bullard Creek	Individual	0.700	billions of organisms/day	Very High	Not Available	E. coli	Daily	2010
Bullard Creek	Individual	0.500	billions of organisms/day	High	Not Available	E. coli	Daily	2010
Bullard Creek	Individual	0.400	billions of organisms/day	Mid	Not Available	E. coli	Daily	2010
Bullard Creek	Individual	0.400	billions of organisms/day	Low	Not Available	E. coli	Daily	2010

Bullard Creek	Individual	0.300	billions of organisms/day	Very Low	Not Available	E. coli	Daily	2010
Mississippi River	Categorical	154.000	lbs/acre/year	Not Applicable	Not Available	TSS	Annual	Not Applicable

TMDL Approval Date	Notes
2/16/2017	
2/16/2017	
2/16/2017	
2/16/2017	
2/16/2017	
2/16/2017	
2/16/2017	
2/16/2017	
2/16/2017	
2/16/2017	
Original TMDL Approved on 8/18/15, modification approved on 6/5/19	
Original TMDL Approved on 8/18/15, modification approved on 6/5/19	
Original TMDL Approved on 8/18/15, modification approved on 6/5/19	
Original TMDL Approved on 8/18/15, modification approved on 6/5/19	
Original TMDL Approved on 8/18/15, modification approved on 6/5/19	
Original TMDL Approved on 8/18/15, modification approved on 6/5/19	
Original TMDL Approved on 8/18/15, modification approved on 6/5/19	
Original TMDL Approved on 8/18/15, modification approved on 6/5/19	

Original TMDL Approved on 8/18/15, modification approved on 6/5/19	
4/26/2016	

**Requires Compliance Schedule**

**Requires Compliance Schedule**



**Meeting WLAs**

South Metro Mississippi TSS TMDL-Mississippi River-(0



**Meeting WLAs**

South Metro Mississippi TSS TMDL-Mississippi River-(07040001-531)-TSS