General Project Information

Project ID: NKE102

Name: Mason Creek Watershed Protection Plan

Type: Water Quality Planning
Subtype: Nine Key Element Plan

Status: ACTIVE

Start Date: 1/1/2018

End Date: 1/1/2028

Purpose:

The Mason Creek watershed which is located within Washington, Waukesha, and Dodge Counties, is an 8.2-square mile subbasin within the upper part of the Oconomowoc River watershed. Mason Creek discharges to North Lake along with the Oconomowoc and Little Oconomowoc Rivers. Several lakes (Friess, Loews, Keesus, Beaver, and Pine) also contribute flow to North Lake. Discharge from North Lake flows through Okauchee Lake, Oconomowoc Lake, Fowler Lake, and Lac La Belle before the Oconomowoc River flows into the Rock River.

The Mason Creek watershed has been identified as an important contributor of sediment and phosphorus to both the Oconomowoc and Rock Rivers. Mason Creek has been listed as an impaired waterway by the U.S. Environmental Protection Agency (USEPA) and Wisconsin Department of Natural Resources (WDNR). Excessive sediment and nutrient loading to North Lake have led to unnatural conditions such as increased algal blooms, deep water oxygen depletion, and water clarity issues. North Lake has been listed as impaired for high phosphorus loads.

A significant amount of the nonpoint source loads of phosphorus and sediment to North Lake were found to be coming from the Mason Creek watershed. This fact, along with low dissolved oxygen, elevated water temperature, and degraded habitat prompted local units of government and organizations to partner with State and Federal agencies to improve the water quality in the Lake and watershed. Although these efforts have had had some success, the water quality in North Lake and Mason Creek continues to be a cause for concern. In response, the North Lake Management District and Tall Pines Conservancy worked with the Southeastern Wisconsin Regional Planning Commission to develop the Mason Creek Watershed Protection Plan in cooperation with the City of Oconomowoc, Towns of Erin and Merton, Washington and Waukesha Counties, the WDNR, USEPA, and the Natural Resources Conservation Service (NRCS).

The Mason Creek Watershed Protection Plan provides a framework for communities to work together on a common mission to protect and improve land and water resources and meet the assigned TMDL load and wasteload allocations. The protection plan is designed to be a practical guide for the improvement of water quality within the Mason Creek watershed, addressing the management of land surfaces that drain directly and indirectly to streams and consequently to downstream reaches including North Lake, the Oconomowoc River, the Rock River, and ultimately, the Mississippi River.

Objective:

Key Management Objectives to Improve Mason Creek: □□

Reduce the loads of sediment and phosphorus from upland sources to improve water quality and enhance and restore stream

form and function; □□

Reduce the volume and velocity of runoff from upland areas to streams, increase soil infiltration, and enhance groundwater

recharge: □□

Maintain and expand wetland habitats and fish and wildlife habitats and populations; □□

Increase public awareness of water quality issues and participation in watershed conservation activities.

Comments: Due to large file size, had to split plan into four - 10 MB parts to submit into SWIMS.

Outcome:

Study Design:

QA Measures:

People							
Name	Role	Status	Start Date	End Date	Organization	Comments	
CRAIG, ANDREW D	COORDINATOR	ACTIVE	1/1/2018	1/1/2019	Wisconsin DNR		

786000

786100

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Wisconsin Department of Natural Resources SWIMS Project Summary

Project Stat	uses						
Date	Reported By	Status	Comment	ents			
Actions							
Action		Detailed Description		Start Date	End Date	Status	
TMDL Monitor	ing	The purpose of the project is to evaluate portions of Mason Cr tributaries in Waukesha and W Counties. Mason Creek is curl listed for pollutants including to and sediment/total suspended impairments including low DO habitat and elevated Tempera is still listed as a Class I Trout also part of the Rock River TM	eek and its /ashington rently 303d otal phosphorus solids, with , degraded tures and yet it stream. It is	4/1/2014	12/31/2014	COMPLETE	
Details:	Parameter	Value/Amount	Units	Cor	nments		
	Total Nitrogen						
	Total Phosphorus						
N: 1/ =:	Total Suspended So			2/1/2019	4/4/2222	ADDD0: /55	
Nine Key Elen		Mason Creek Nine Key Plan			1/1/2028	APPROVED	
Details:	Parameter	Value/Amount	Units	Cor	nments		
	Degraded Biological Community						
	Degraded Habitat						
	Total Nitrogen						
	Total Phosphorus						
	Total Suspended So	olids					
Monitoring S	Stations						
Station ID	Name		Com	nments			
Assessmen	t Units						
WBIC	Segment	Local Name	C	Official Name			
774400	1	Beaver Lake	В	Beaver Lake			
775200	1	Cornell Lake	G	Grass Lake			
775800	1	Forest Lake	F	orest Lake			
778400	1	Moose Lake	N	loose Lake			
779200	1	Pine Lake	F	Pine Lake			
780600	1	Tamarack Lake	Т	amarack Lak	e		
				Jnnamed			
785100	1	Unnamed Lake (T08nr17es13)	-	mameu			
785100 785200	1	Unnamed Lake (T08nr17es13) Unnamed Lake (T08nr17es13)		Jnnamed			

Unnamed Lake (T08nr17es23)

Unnamed Lake (T08nr17es23)

Unnamed

Unnamed

5574439	1	Local Water	Unnamed
5574433	1	Local Water	Unnamed
5574338	1	Local Water	Unnamed
5574220	1	Local Water	Unnamed
5034245	1	Unnamed Stream	Unnamed
851200	1	Unnamed Stream	Unnamed
851100	2	Mason Creek	Mason Creek
851100	1	Mason Creek	Mason Creek
851000	1	Cornell Lake	Cornell Lake
850800	1	North Lake	North Lake
850700	1	Garvin Lake	Garvin Lake
850500	1	Tierney Lake	Tierney Lake
850400	1	Local Water	Unnamed
850300	1	Okauchee Lake	Okauchee Lake
848200	1	Oconomowoc River	Oconomowoc River
786900	1	Unnamed Lake (T08nr17es36)	Unnamed
786800	1	Unnamed Lake (T08nr17es36)	Unnamed
786700	1	Unnamed Lake (T08nr17es36)	Unnamed
786400	1	Unnamed Lake (T08nr17es24)	Unnamed
786300	1	Un Lake	Unnamed
786200	1	Unnamed Lake (T08nr17es23)	Unnamed

Lab Account Codes			
Account Code	Description	Start Date	End Date

Form Code Form Name

Methods

Method Code Method Description

Fieldwork Events
Start Date Status Field ID Station ID Station Name

Documents						
Title	Description	Author	Published	Comments		
Mason Creek Watershed Protection Plan - Part 1	The Mason Creek watershed which is located within Washington, Waukesha, and Dodge Counties, is an 8.2-square mile sub-basin within the upper part of	SEWRPC	1/1/2018			

the Oconomowoc River watershed. Mason Creek discharges to North Lake along with the Oconomowoc and Little Oconomowoc Rivers. Several lakes (Friess, Loews, Keesus, Beaver, and Pine) also contribute flow to North Lake. Discharge from North Lake flows through Okauchee Lake, Oconomowoc Lake, Fowler Lake, and Lac La Belle before the Oconomowoc River flows into the Rock River. The Mason Creek watershed has been identified as an important contributor of sediment and phosphorus to both the Oconomowoc and Rock Rivers. Mason Creek has been listed as an impaired waterway by the U.S. Environmental Protection Agency (USEPA) and Wisconsin Department of Natural Resources (WDNR). Excessive sediment and nutrient loading to North Lake have led to unnatural conditions such as increased algal blooms, deep water oxygen depletion, and water clarity issues. North Lake has been listed as impaired for high phosphorus loads. A significant amount of the nonpoint source loads of phosphorus and sediment to North Lake were found to be coming from the Mason Creek watershed. This fact, along with low dissolved oxygen, elevated water temperature, and degraded habitat prompted local units of government and organizations to partner with State and Federal agencies to improve the water quality in the Lake and watershed. Although these efforts have had had some success, the water quality in North Lake and Mason Creek continues to be a cause for concern. In response, the North Lake Management District and Tall Pines Conservancy worked with the Southeastern Wisconsin Regional Planning Commission to develop the Mason Creek Watershed Protection Plan in cooperation with the City of Oconomowoc, Towns of Erin and Merton, Washington and Waukesha Counties, the WDNR, USEPA, and the Natural Resources Conservation Service (NRCS). The Mason Creek Watershed Protection Plan provides a framework for communities to work together on a

	common mission to protect and improve land and water resources and meet the assigned TMDL load and wasteload allocations. The protection plan is designed to be a practical guide for the improvement of water quality within the Mason Creek watershed, addressing the management of land surfaces that drain directly and indirectly to streams and consequently to downstream reaches including North Lake, the Oconomowoc River, the Rock River, and ultimately, the Mississippi River.			
Mason Creek Watershed Protection Plan - Part 2	The Mason Creek watershed which is located within Washington, Waukesha, and Dodge Counties, is an 8.2-square mile sub-basin within the upper part of the Oconomowoc River watershed. Mason Creek discharges to North Lake along with the Oconomowoc and Little Oconomowoc Rivers. Several lakes (Friess, Loews, Keesus, Beaver, and Pine) also contribute flow to North Lake. Discharge from North Lake flows through Okauchee Lake, Oconomowoc Lake, Fowler Lake, and Lac La Belle before the Oconomowoc River flows into the Rock River. The Mason Creek watershed has been identified as an important contributor of sediment and phosphorus to both the Oconomowoc and Rock Rivers. Mason Creek has been listed as an impaired waterway by the U.S. Environmental Protection Agency (USEPA) and Wisconsin Department of Natural Resources (WDNR). Excessive sediment and nutrient loading to North Lake have led to unnatural conditions such as increased algal blooms, deep water oxygen depletion, and water clarity issues. North Lake has been listed as impaired for high phosphorus loads. A significant amount of the nonpoint source loads of phosphorus and sediment to North Lake were found to be coming from the Mason Creek watershed. This fact, along with low dissolved oxygen, elevated water temperature, and degraded habitat prompted local units of government and organizations to partner with State and Federal agencies to improve the	SEWRPC	8/1/2018	

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Mason Creek Watershed Protection Plan - Part 3	The Mason Creek watershed which is located within Washington, Waukesha, and Dodge Counties, is an 8.2-square mile sub-basin within the upper part of the Oconomowoc River watershed. Mason Creek discharges to North Lake along with the Oconomowoc and Little Oconomowoc Rivers. Several lakes (Friess, Loews, Keesus, Beaver, and Pine) also contribute flow to North Lake. Discharge from North Lake flows through Okauchee Lake, Oconomowoc Lake, Fowler Lake, and Lac La Belle before the Oconomowoc River flows into the Rock River. The Mason Creek watershed has been identified as an important contributor of sediment and phosphorus to both the Oconomowoc and Rock Rivers. Mason Creek has been listed as an impaired waterway by the U.S. Environmental Protection Agency	SEWRPC	8/1/2018	

Mason Creek Watershed Protection Plan - Part 4

Wisconsin Department of Natural Resources SWIMS Project Summary

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		0/1/2010	
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The Mason Creek watershed which is	SEWRPC	8/1/2018	
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mile sub-basin within the upper part of the Oconomowoc River watershed. Mason Creek discharges to North Lake along with the Oconomowoc and Little Oconomowoc Rivers. Several lakes (Friess, Loews, Keesus, Beaver, and Pine) also contribute flow to North Lake. Discharge from North Lake flows through Okauchee Lake, Oconomowoc Lake, Fowler Lake, and Lac La Belle before the Oconomowoc River flows into the Rock River. The Mason Creek watershed has been identified as an important contributor of sediment and phosphorus to both the Oconomowoc and Rock Rivers. Mason Creek has been listed as an impaired waterway by the U.S. Environmental Protection Agency (USEPA) and Wisconsin Department of Natural Resources (WDNR). Excessive sediment and nutrient loading to North Lake have led to unnatural conditions such as increased algal blooms, deep water oxygen depletion, and water clarity issues. North Lake has been listed as impaired for high phosphorus loads. A significant amount of the nonpoint source loads of phosphorus and sediment to North Lake were found to be coming from the Mason Creek watershed. This fact, along with low dissolved oxygen, elevated water temperature, and degraded habitat prompted local units of government and organizations to partner with State and Federal agencies to improve the water quality in the Lake and watershed. Although these efforts have had had some success, the water quality in North Lake and Mason Creek continues to be a cause for concern. In response, the North Lake Management District and Tall Pines Conservancy worked with the Southeastern Wisconsin Regional Planning Commission to develop the Mason Creek Watershed Protection Plan in cooperation with the City of Oconomowoc, Towns of Erin and Merton, Washington and Waukesha Counties, the WDNR, USEPA, and the Natural Resources Conservation Service (NRCS). The Mason Creek Watershed Protection Plan provides a framework

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Budget

Combined Budgets: Combined WSLH:

Combined Total: \$0.00

Funding					
Organization	Source	Туре	Amount	Start Date	End Date