

## Wisconsin Department of Natural Resources SWIMS Project Summary

### General Project Information

**Project ID:** Nemadji\_BUI6\_A  
**Name:** Lower Nemadji River Biological and Water Quality Monitoring  
**Type:** Great Lakes Restoration Initiative  
**Subtype:** Toxics and Areas of Concern  
**Status:** ACTIVE  
**Start Date:** 05/01/2015  
**End Date:** 06/30/2016  
**Purpose:** The Nemadji River was included in the St. Louis River Area of Concern due to sedimentation issues associated with the Excessive Loading of Sediment and Nutrients Beneficial Use Impairment (BUI). In order to assess the influence that sediment loading in the Lower Nemadji River has on the natural communities, WDNR staff will collect fish and macroinvertebrate data along the Lower Nemadji River. Fish and macroinvertebrate community survey data will be used to calculate Indices of Biological Integrity (IBIs) and assess community health in the Lower Nemadji River. Water Quality data will also be collected in the Lower Nemadji River to identify potential stressors to IBIs.  
**Objective:** Objective 1: Evaluate the health of the biological communities in the Lower Nemadji River through the use of indices of biological integrity (IBIs). In order to calculate an IBI for the macroinvertebrate community, macroinvertebrate data is needed along the lower reaches of the Nemadji River. In order to calculate an IBI for the fish community, fish surveys are needed along the lower reaches of the Nemadji River.  
 Objective 2: If impairments are observed, connect any observed impairments in biological community health to observed and documented water quality stressors. In order to connect any possible community health impairments to water quality stressors, water quality data is needed along the lower reaches of the Nemadji River from the same season as the macroinvertebrate and fish data are collected.  
**Comments:**  
**Outcome:** The biotic indices calculated from fish and macroinvertebrate data will result in estimates of community health from "poor" to "excellent" at each survey site. As a whole, these will allow resource managers to determine if the fish and macroinvertebrate communities in the Lower Nemadji are healthy or impaired. If resource managers determine that the communities are under-performing, or are not as healthy as expected, then results of fish and macroinvertebrate surveys will be compared with water quality results to determine if there are any significant correlations.  
**Study Design:**  
**QA Measures:**

### People

Name	Role	Status	Start Date	End Date	Organization	Comments
PISZCZEK, PAUL P	COORDINATOR	ACTIVE	05/01/2015	06/30/2016	Wisconsin DNR	
Primus, Jeremy	TEAM_MEMBER	ACTIVE	10/20/2015		UW Superior	
Roesler, Craig P	COORDINATOR	COMPLETE	05/01/2015	06/30/2016	Wisconsin DNR	
STEIGER, MATTHEW B	COORDINATOR	COMPLETE	05/01/2015	06/30/2016	Wisconsin DNR	
Saillard, Heidi	COORDINATOR	ACTIVE	05/01/2015	06/30/2016		
WICK, MOLLY J	COORDINATOR	ACTIVE	05/01/2015	06/30/2016	Wisconsin DNR	
Wilczewski, Simon	COORDINATOR	ACTIVE	07/13/2017		Lake Superior Research Institute	

### Project Statuses

Date	Reported By	Status	Comments
05/15/2015	MOLLY WICK	Progress: 0-25% Complete	QAPP in progress.
10/02/2015	MOLLY WICK	Progress: 50-75% Complete	QAPP complete, 5/6 months WQ sampling complete.
01/12/2016	MOLLY WICK	Active	Sampling complete, data analysis and report in progress.

### Project Status Detail

**Answer Set: Q4 Oct - Dec 2015**

Question	Answer
1. Reporting Timeframe (Q1) (Q2) (Q3) (Q4):	
2. Amount expended this reporting period:	

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**Question**

**Answer**

- 3. Subcontracts or subgrants awarded this reporting period:
- 4. QAPP (Project Plan) status:
- 5. Local services and/or products purchased this reporting period:
- 6. Number of jobs created this reporting period:
- 7. Work accomplished this reporting period:
- 8. Work goals for coming reporting period:
  - 1. Reporting Timeframe Month/Year to Month/Year (Oct-Mar or Apr-Sept):
  - 2. Quality Documentation status (respond NA if not required):
  - 3. Describe work performed during this reporting period relating to the activities from the grant workplan (Previous 6 months):
  - 4. GLRI Action Plan metric(s) accomplished and numerical progress during this reporting period:
  - 5. GLRI Action Plan metric(s) accomplished and numerical progress since project start (total complete to date):
  - 6. Percentage (estimate) of project work completed during this reporting period:
  - 7. Percentage (estimate) of project work completed since the project start (total complete to date):
  - 8. Is project work on schedule? If no, please explain.
  - 9. If a problem was encountered, describe the problem and action(s) taken to correct it.
  - 10. What work is projected during the next reporting period? (Next 6 months):
  - 11. Will the project take longer than the approved project period? If so, have you requested an extension in writing to the grant coordinator?
  - 12. Amount expended this reporting period (can be approximate) If no amount expended, explain why.
  - 13. Is project invoicing/expenditures up to date? If invoicing is more than 3 months overdue, explain why.
  - 14. Were any significant changes (>10% of the total project amount) made to the project budget? If so, have you notified the grant coordinator in writing?

**Answer Set: Q3 July - Sept 2015**

**Question**

**Answer**

- 1. Reporting Timeframe (Q1) (Q2) (Q3) (Q4):
- 2. Amount expended this reporting period:
- 3. Subcontracts or subgrants awarded this reporting period:
- 4. QAPP (Project Plan) status:
- 5. Local services and/or products purchased this reporting period:
- 6. Number of jobs created this reporting period:
- 7. Work accomplished this reporting period:
- 8. Work goals for coming reporting period:
  - 1. Reporting Timeframe Month/Year to Month/Year (Oct-Mar or Apr-Sept):
  - 2. Quality Documentation status (respond NA if not required):
  - 3. Describe work performed during this reporting period relating to the activities from the grant workplan (Previous 6 months):
  - 4. GLRI Action Plan metric(s) accomplished and numerical progress during this reporting period:
  - 5. GLRI Action Plan metric(s) accomplished and numerical

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### Question

### Answer

- progress since project start (total complete to date):
6. Percentage (estimate) of project work completed during this reporting period:
  7. Percentage (estimate) of project work completed since the project start (total complete to date):
  8. Is project work on schedule? If no, please explain.
  9. If a problem was encountered, describe the problem and action(s) taken to correct it.
  10. What work is projected during the next reporting period? (Next 6 months):
  11. Will the project take longer than the approved project period? If so, have you requested an extension in writing to the grant coordinator?
  12. Amount expended this reporting period (can be approximate) If no amount expended, explain why.
  13. Is project invoicing/expenditures up to date? If invoicing is more than 3 months overdue, explain why.
  14. Were any significant changes (>10% of the total project amount) made to the project budget? If so, have you notified the grant coordinator in writing?

### Answer Set: Q2 2015

### Question

### Answer

1. Reporting Timeframe (Q1) (Q2) (Q3) (Q4):
2. Amount expended this reporting period:
3. Subcontracts or subgrants awarded this reporting period:
4. QAPP (Project Plan) status:
5. Local services and/or products purchased this reporting period:
6. Number of jobs created this reporting period:
7. Work accomplished this reporting period:
8. Work goals for coming reporting period:
  1. Reporting Timeframe Month/Year to Month/Year (Oct-Mar or Apr-Sept):
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  5. GLRI Action Plan metric(s) accomplished and numerical progress since project start (total complete to date):
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  12. Amount expended this reporting period (can be approximate) If no amount expended, explain why.
  13. Is project invoicing/expenditures up to date? If invoicing is more than 3 months overdue, explain why.

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<b>Question</b>	<b>Answer</b>
14. Were any significant changes (>10% of the total project amount) made to the project budget? If so, have you notified the grant coordinator in writing?	

**Answer Set: DEFAULT**

<b>Question</b>	<b>Answer</b>
1. Reporting Timeframe (Q1) (Q2) (Q3) (Q4):	
2. Amount expended this reporting period:	
3. Subcontracts or subgrants awarded this reporting period:	
4. QAPP (Project Plan) status:	
5. Local services and/or products purchased this reporting period:	
6. Number of jobs created this reporting period:	
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**Actions**

Action	Detailed Description	Start	End Date	Status
Monitor Water Quality or Sediment	Monitor water quality	05/01/2015	06/30/2016	PROPOSED
Monitor Wildlife	Fish and macroinvertebrate community assessment	05/01/2015	06/30/2016	PROPOSED

**Monitoring Stations**

Station ID	Name	Comments
10037076	NEMADJI RIVER - WOODLAWN ROAD	
163233	Nemadji River - 50 Yds Above Finn Rd Bridge	

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Station ID	Name	Comments
10044435	Nemadji River 15m DS Dedham Rd.	
10044397	Nemadji River 3 miles DS CTH C	
163003	Nemadji River at Cth C Near South Superior WI	
163049	Nemadji River at Sth 2-53	
163048	Nemadji River at Sth 35	

### Assessment Units

WBIC	Segment	Local Name	Official Name
2835300	1	Lower Nemadji River	Nemadji River

### Lab Account Codes

Account Code	Description	Start Date	End Date
GL042	LOWER NEMADJI RIVER BIOLOGICAL	05/15/2015	12/31/2015

### Forms

Form Code	Form Name
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### Methods

Method Code	Description
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### Fieldwork Events

Start Date	Status	Field ID	Station ID	Station Name
06/10/2015	COMPLETE	N-53	163049	Nemadji River at Sth 2-53
06/10/2015	COMPLETE	N-C	163003	Nemadji River at Cth C Near South Superior WI
06/10/2015	COMPLETE	N-W	10037076	NEMADJI RIVER - WOODLAWN ROAD
06/10/2015	COMPLETE		163049	Nemadji River at Sth 2-53
06/10/2015 11:15	COMPLETE	N-53	163049	Nemadji River at Sth 2-53
06/10/2015 11:45	COMPLETE	N-W	10037076	NEMADJI RIVER - WOODLAWN ROAD
06/10/2015 12:30	COMPLETE	N-C	163003	Nemadji River at Cth C Near South Superior WI
07/08/2015	COMPLETE	N-53	163049	Nemadji River at Sth 2-53
07/08/2015	COMPLETE	N-C	163003	Nemadji River at Cth C Near South Superior WI
07/08/2015	COMPLETE	N-W	10037076	NEMADJI RIVER - WOODLAWN ROAD
07/08/2015 09:30	COMPLETE	N-53	163049	Nemadji River at Sth 2-53
07/08/2015 10:30	COMPLETE	N-A	10037076	NEMADJI RIVER - WOODLAWN ROAD
07/08/2015 11:30	COMPLETE	N-C	163003	Nemadji River at Cth C Near South Superior WI
08/06/2015 09:45	COMPLETE	N-53	163049	Nemadji River at Sth 2-53
08/06/2015 09:45	COMPLETE	N-53	163049	Nemadji River at Sth 2-53
08/06/2015 10:00	COMPLETE	N-W	10037076	NEMADJI RIVER - WOODLAWN ROAD
08/06/2015 10:00	COMPLETE	N-W	10037076	NEMADJI RIVER - WOODLAWN ROAD
08/06/2015 10:20	COMPLETE	N-C	163003	Nemadji River at Cth C Near South Superior WI
08/06/2015 10:20	COMPLETE	N-C	163003	Nemadji River at Cth C Near South Superior WI
09/09/2015 11:00	COMPLETE	N-53	163049	Nemadji River at Sth 2-53
09/09/2015 11:00	COMPLETE	N-53	163049	Nemadji River at Sth 2-53
09/09/2015 11:30	COMPLETE	N-W	10037076	NEMADJI RIVER - WOODLAWN ROAD
09/09/2015 11:30	COMPLETE	N-W	10037076	NEMADJI RIVER - WOODLAWN ROAD
09/09/2015 12:00	COMPLETE	N-C	163003	Nemadji River at Cth C Near South Superior WI
09/09/2015 12:05	COMPLETE	N-C	163003	Nemadji River at Cth C Near South Superior WI

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Start Date	Status	Field ID	Station ID	Station Name
10/14/2015	COMPLETE	N-53	163049	Nemadji River at Sth 2-53
10/14/2015	COMPLETE	N-53 DUP	163049	Nemadji River at Sth 2-53
10/14/2015	COMPLETE	N-C	163003	Nemadji River at Cth C Near South Superior WI
10/14/2015	COMPLETE	N-C DUP	163003	Nemadji River at Cth C Near South Superior WI
10/14/2015	COMPLETE	N-W	10037076	NEMADJI RIVER - WOODLAWN ROAD
10/14/2015	COMPLETE	N-W DUP	10037076	NEMADJI RIVER - WOODLAWN ROAD
10/14/2015 10:30	COMPLETE	N-53	163049	Nemadji River at Sth 2-53
10/14/2015 10:30	COMPLETE	N-53(DUP)	10037076	NEMADJI RIVER - WOODLAWN ROAD
10/14/2015 11:15	COMPLETE	N-W	10037076	NEMADJI RIVER - WOODLAWN ROAD
10/14/2015 11:15	COMPLETE	N-W(DUP)	10037076	NEMADJI RIVER - WOODLAWN ROAD
10/14/2015 12:05	COMPLETE	N-C	163003	Nemadji River at Cth C Near South Superior WI
10/14/2015 12:05	COMPLETE	N-C(DUP)	163003	Nemadji River at Cth C Near South Superior WI
10/22/2015 12:10	COMPLETE	20151022-16-01	10044397	Nemadji River 3 miles DS CTH C
10/22/2015 14:30	COMPLETE	20151022-16-02	163003	Nemadji River at Cth C Near South Superior WI
10/22/2015 15:30	COMPLETE	20151022-16-03	163233	Nemadji River - 50 Yds Above Finn Rd Bridge
10/22/2015 15:45	COMPLETE	20151022-16-04	163233	Nemadji River - 50 Yds Above Finn Rd Bridge
11/02/2015 10:00	COMPLETE	20151102-16-01	10044435	Nemadji River 15m DS Dedham Rd.
11/02/2015 12:30	COMPLETE	20151102-16-03	163048	Nemadji River at Sth 35

### Documents

Title	Description	Author	Published	Comments
Fish Community Survey Summary Nemadji River	Fish community summary for the Nemadji River, 2016.	Nelson, Aaron	07/01/2016	
Lower Nemadji River Biological and Water Quality Montioring QAPP	Approved QAPP for Lower Nemadji River monitoring	Molly Wick	08/27/2015	
Lower Nemadji River Water Quality and Macroinvertebrate Community Assessment 2015		Craig Roesler	02/09/2016	

### Budget

**Combined Budgets:**

**Combined SLOH:**

**Combined Total:**

### Funding

Organization	Source	Type	Amount	Start Date	End Date
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