

# RIVERS, STREAMS AND FLOODPLAINS EVALUATION

Wisconsin Department of Transportation

## Factor Sheet C-2

Alternative	Total Length of Center Line of Existing Roadway Length of This Alternative
Preferred <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> None identified	

See FDM Procedure 21-25-25 <http://dotnet/fdm/21/25-25-1.pdf>, FHWA Floodplain Report.

See FDM Procedure 24-5-5 for general guidance. See WDNR Surface Water Classifications: Outstanding Resource Waters (NR 102.10): Exceptional Resource Water (NR 102.11): Great Lakes Systems (NR 102.12(1)): Fish and Aquatic Life Waters (NR 102.13): Waters listed in NR 104.05, Tables 3-8

1. **Stream Name:** \_\_\_\_\_  
*A separate factor sheet must be completed for each river, stream or floodplain*

2. **Stream Type: (Indicate Trout Stream Class, if known)**

*For mapping, go to this site: <http://www.dnr.state.wi.us/org/water/fhp/fish/species/trout/streamclassification.shtml>*

- Unknown  
 Warm water  
 Cold water

If trout stream, identify trout stream classification: \_\_\_\_\_

Wild and Scenic River

3. **Size of Upstream Watershed Area: (Square miles or acres)**

\_\_\_\_\_

4. **Stream flow characteristics:**

- Permanent Flow (year-round)  
 Temporary Flow (dry part of year)

5. **Stream Characteristics:**

A. Substrate:

1.  Sand
2.  Silt
3.  Clay
4.  Cobbles
5.  Other-describe: \_\_\_\_\_

B. Average Water Depth: \_\_\_\_\_

C. Vegetation in Stream

- Absent  
 Present - If known describe: \_\_\_\_\_

D. Identify Aquatic Species Present:

*U. S. Fish & Wildlife Service will provide information on federally listed species. WDNR will provide information on both state and federal species. If endangered or threatened species are identified, complete Threatened And Endangered Species, Factor Sheet C-7.*

E. If water quality data is available, include this information:

F. Is this river or stream on the WDNR's "Impaired Waters" list?

- No  
 Yes - List: \_\_\_\_\_

See WisDNR website: <http://dnr.wi.gov/org/water/wm/wqs/303d/303d.html>

6. **If bridge or box culvert replacement, are migratory bird nests present?**

- Not Applicable  
 None identified  
 Yes – Identify Bird Species present

Estimated number of nests is:

*The most common species observed nesting under existing bridges are cliff and barn swallows and the eastern phoebe. The nesting period for both species has been established as May 15 through August 20. Work which may disturb or destroy active nests during the nesting period requires the contractor to apply for a depredation permit from the U. S. Fish and Wildlife Service. If other species of migratory birds are found nesting under the*

Project ID# \_\_\_\_\_

*existing structure, the project manager or contractor should contact the Regional Environmental Coordinator to determine the active nesting period and the appropriate actions required.*

**7. Is a U. S. Fish & Wildlife Depredation Permit required to remove swallow nests?**

- Not Applicable
- Yes
- No - Describe mitigation measures:

*An active nest is a nest with eggs or chicks. An unfinished nest is not considered active unless eggs have been laid. The need for a permit may be avoided by removing all inactive nests prior to May 15 and installing an acceptable netting under the existing superstructure. The netting should seal off the entire area with a continuous barrier to prevent birds from entering through small openings and shall be taut to prevent wind damage. Suitable netting should have a mesh opening size of 3/4" or less. Snow type fence, wire reinforced filter fabric, and poultry wire are acceptable. Mist net or any other thin flexible netting that could trap or entangle birds is not acceptable. The netting should be maintained until August 20 or until the existing superstructure is completely removed.*

**8. Describe land adjacent to stream:**

*If wetland impacts, complete wetland factor sheet, Factor Sheet C-1.*

**9. Identify upstream or downstream dischargers or receivers (if any) within 0.8 kilometers (1/2 mile) of the project site:**

**10. Describe proposed work in, over, or adjacent to stream. Indicate whether the work is within the 100-year floodplain and whether it is a crossing or a longitudinal encroachment:** [Note: Coast Guard must be notified when Section 10 waters are affected by a proposal. Also see Wetland Evaluation, Factor Sheet C-1, Question 8.]

**11. Discuss the effects of any backwater which would be created by the proposed action. Indicate whether the proposed activities would be in compliance with NR 116 by creating 0.01 ft. backwater or less:**

*Exceedance of NR 116 is possible if suitable arrangements (letters, etc.) are made with affected landowners.*

**12. Describe and provide the results of coordination with any floodplain zoning authority:**

**13. Would the proposal or any changes in the design flood, or backwater cause any of the following impacts?**

- No impacts would occur.
- Significant interruption or termination of emergency vehicle service or a community's only evacuation route.
- Significant flooding with a potential for property loss and a hazard to life.
- Significant impacts on natural floodplain values such as flood storage, fish or wildlife habitat, open space, aesthetics, etc.

**14. Discuss existing or planned floodplain use and briefly summarize the project's effects on that use:**

**15. Discuss probable direct impacts to water quality within the floodplain, both during and after construction. Include the probable effects on plants, animals, and fish inhabiting or dependent upon the stream:**

**16. Are measures proposed to enhance beneficial effects?**

- No
- Yes. Describe: \_\_\_\_\_

*This question is focused on measures to enhance beneficial effects. Beneficial measures might include such things as boulder retards or improved fish passage measures. Erosion control or storm water management measures which will be used to prevent damage to the stream should be shown on Erosion Control Evaluation, Factor Sheet D-6 and Stormwater Evaluation, Factor Sheet D-5.*

*All environmental commitments must be listed on Basic Sheet 8, Environmental Commitments.*