

## Reach Information Form (Lotic)

**I. Background information:** Date: \_\_\_\_\_

Riparian area/stream name: \_\_\_\_\_ Reach ID: \_\_\_\_\_

Map Units Affected: \_\_\_\_\_

Administrative unit/state: \_\_\_\_\_

ID team members: \_\_\_\_\_

Assessment method: Reach length (miles/km): \_\_\_\_\_

- Complete reconnaissance
- Selective inspection of representative areas
- Remote imagery with selective ground inspection

Location: Attach aerial image, USGS 7.5-minute topographic map, or GIS map with reach breaks indicated.

**II. Reach break location:**

Reach starting point (upstream)	Reach ending point (downstream)
_____ N. Lat.    UTM E _____ m	_____ N. Lat.    UTM E _____ m
or	or
_____ W. Long.    N _____ m	_____ W. Long.    N _____ m

Positions by GPS?     Yes     No    Photos taken?     Yes     No    UTM Zone: \_\_\_\_\_

Datum:                     NAD27     NAD83     WGS84     Other (specify): \_\_\_\_\_

Rationale for reach breaks: \_\_\_\_\_

**III. Description of potential and rationale** (should include description of hydrologic regime, stream type(s), and riparian plant communities at potential; may include additional information such as valley type, gradient, entrenchment ratio, sinuosity, width/depth ratio, and bed and bank materials):

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## PFC Assessment Form (Lotic)

Riparian area/stream name: \_\_\_\_\_ Reach ID: \_\_\_\_\_ Date: \_\_\_\_\_

Yes	No	NA	HYDROLOGY
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1) Floodplain is inundated in “relatively frequent” events.
Rationale:			
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2) Beaver dams are stable.
Rationale:			
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	3) Sinuosity, gradient, and width/depth ratio are in balance with the landscape setting (i.e., landform, geology, and bioclimatic region).
Rationale:			
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4) Riparian area is expanding or has achieved potential extent.
Rationale:			
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	5) Riparian impairment from the upstream or upland watershed is absent.
Rationale:			



Yes	No	NA	VEGETATION
			6) There is adequate diversity of stabilizing riparian vegetation for recovery/maintenance.
Rationale:			
			7) There are adequate age classes of stabilizing riparian vegetation for recovery/maintenance.
Rationale:			
			8) Species present indicate maintenance of riparian soil-moisture characteristics.
Rationale:			
			9) Stabilizing plant communities capable of withstanding moderately high streamflow events are present along the streambank.
Rationale:			
			10) Riparian plants exhibit high vigor.
Rationale:			
			11) An adequate amount of stabilizing riparian vegetation is present to protect banks and dissipate energy during moderately high flows.
Rationale:			

			12) Plant communities are an adequate source of woody material for maintenance/recovery.
Rationale:			
<b>Yes</b>	<b>No</b>	<b>NA</b>	<b>GEOMORPHOLOGY</b>
			13) Floodplain and channel characteristics (i.e., rocks, woody material, vegetation, floodplain size, overflow channels) are adequate to dissipate energy.
Rationale:			
			14) Point bars are revegetating with stabilizing riparian plants.
Rationale:			
			15) Streambanks are laterally stable.
Rationale:			
			16) Stream system is vertically stable (not incising).
Rationale:			
			17) Stream is in balance with the water and sediment that is being supplied by the drainage basin (i.e., no excessive erosion or deposition).
Rationale:			



### Summary Determination

**Functional rating (check one)**

- Proper functioning condition
- Functional-at risk
- Nonfunctional

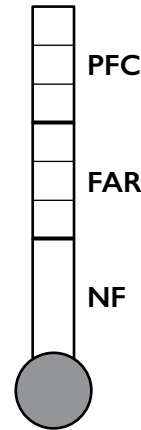
**Trend (check one)**

**Monitored trend**

- Upward
- Downward
- Static

**Apparent trend**

- Upward
- Downward
- Not apparent



**Rationale for rating:** \_\_\_\_\_  
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**Rationale for trend:** \_\_\_\_\_  
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**Are there factors present preventing the achievement of PFC or affecting progress towards desired condition that are outside the control of the manager?**

- Yes                       No

**If yes, what are those factors? Check all that apply.**

- |  |  |
|--|--|
| <input type="checkbox"/> Flow regulations            | <input type="checkbox"/> Road encroachment         |
| <input type="checkbox"/> Mining activities           | <input type="checkbox"/> Oil field water discharge |
| <input type="checkbox"/> Upstream channel conditions | <input type="checkbox"/> Augmented flows           |
| <input type="checkbox"/> Channelization              | <input type="checkbox"/> Other (specify:)          |

**Explain factors preventing achievement of PFC: \_\_\_\_\_**

\_\_\_\_\_

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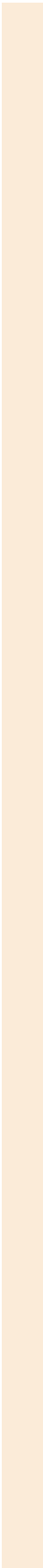
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\_\_\_\_\_



### Lotic PFC Riparian Plant List Form

Riparian area/stream name: \_\_\_\_\_ Reach ID: \_\_\_\_\_ Date: \_\_\_\_\_

Region (USACE or other): \_\_\_\_\_

	Plant ✓ Symbol	Common Name	Scientific Name	AB	GS	WIC	SC	IN
<b>Trees/Shrubs</b>								
<b>Graminoids/Grasses</b>								
<b>Forbs</b>								

Notes: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



## Explanation Of Plant List

√ Check species present.

**Abundance (AB):** Use a scale of 1 to 4, with 1 = species is present but with only one to a few individuals in the reach, 2 = species is found occasionally throughout the area, 3 = species is common throughout the area, and 4 = species is ubiquitous throughout the area.

**Geomorphic Surface (GS):** C = active channel; B = streambank; F = floodplain; MC = mid-channel bar; PB = point bar; T = terrace. **Specify and define others.**

**Wetland Indicator Category (WIC):** See most recent National Wetland Plant List at [http://wetland\\_plants.usace.army.mil/](http://wetland_plants.usace.army.mil/)

- **OBL** (obligate wetland plants)—Almost always occur in wetlands.
- **FACW** (facultative wetland plants)—Usually occur in wetlands, but may occur in nonwetlands
- **FAC** (facultative wetland plants)—Occur in wetlands and nonwetlands
- **FACU** (facultative upland plants)—Usually occur in nonwetlands, but may occur in wetlands
- **UPL** (upland plants)—Almost never occur in wetlands

**Stability Class/Rooting Strength (SC):** Relative values based on general rooting characteristics assigned by Burton et al. (2011); numerical values conform to Winward (2000).

### Forbs

Taproot or most roots, shallow (<15 cm)	Low (2)
Fibrous roots, usually up to 30 cm	Medium (5)
Rhizomatous roots, with little indication of extensive fibrous roots	Medium (5)
Rhizomatous roots, with extensive fibrous roots	High (8.5)

### Graminoids

Annual, biennial, and short-lived perennials	Low (2)
Stoloniferous, caespitose, tufted, or short rhizomatous perennials (<1 m tall)	Low (2)
Slender or thin creeping rhizomes	Medium (5)
Long, stout, well-developed creeping rhizomes	High (8.5)

### Woody Species

Taprooted species	Low (2)
Short shrubs (<1 m tall) with shallow root systems	Low (2)
Shallow to moderate root systems	Medium (5)
Rhizomatous root system, generally shallow (<15 cm)	Medium (5)
Root crown with spreading roots	High (8.5)
Widespread root systems	High (8.5)

**Nonnative, Invasive Species (IN):** Note whether this species is nonnative, invasive species by marking this column.