



UPPER DESCHUTES
WATERSHED COUNCIL

Riparian Zone Analysis

Site Overview:

Date: _____ Name(s): _____

Name of River: _____

Location/Site Name _____ Bank: _____

Location Description: _____

Riparian Zone:

Procedure: Measure the width of the riparian zone at each of the following distances from the upstream end of the stream reach, then give the riparian zone there a score based on the following evaluation:

Overall Riparian Health (check appropriate box below)

- 5: Thriving** (native plants only; no human impact or natural disturbance, stable banks, shade for water)
- 4: Healthy** (native plants dominate; stable banks, some/partial shade, buffers river from activity)
- 3: Threatened** (noticeable impact from human activity; weeds, or other disturbance affecting banks/stream)
- 2: Impacted** (noticeable weeds, trails, lack of vegetation, or other disturbance)
- 1: Damaged** (extreme situation of above)

Distance from upstream end of stream reach	Width of Riparian Zone – measure at 90° angle to stream; start at edge of stream, measure distance until there is a change to upland plants.	Score of riparian zone health based on above score
0'		
50'		
100'		
150'		
200'		
250'		

Stream Habitat Features

Site Overview:

Date: _____ Name(s): _____

Name of River: _____

Location/Site Name _____

Location Description: _____

Stream Habitat Features:

Walk along the stream reach and determine the amount of the reach that consists of the following stream features. Use the tape to measure the distance covered by each feature as you go. For pools and woody material, focus on the ones that are on the half of the river closer to you, or, if we will not sample the other side, complete the following for the entire width of the river.

Which part of the river is being sampled? ___ Entire River Width ___ Right Half of River (from Rt bank) ___ Left Half of River (from Lft bank)

Stream Habitat Features: (Pool, Riffle, Glide/Run, Woody Material)

Tape Readings (record the start and stop #'s)	Distance Covered (Stop – Start)	Stream Habitat Feature P =pool R =riffle G=glide/run WM =woody material	Other Notes (description, important details, estimated depth of river)
Ex: 10 ft- 15 ft	5 ft.	R	12 inches deep, no vegetation on banks

Total Distance for each stream habitat feature type:

Pool: _____ Riffle: _____ Run/Glide _____ Woody Material _____

Percent (%) of each stream habitat feature type (out of the _____ ft of stream reach):

Pool: _____ Riffle: _____ Run/Glide _____ Woody Material _____

Water Quality Data

Date of Data Collection: _____

Scientist Team: _____

Name of River: _____ **Location:** _____

Bank occupied: ___ Right ___ Left (from the perspective of looking downstream)

Time: _____ **Current Weather:** _____

Recent Weather: _____

Procedure:

1. Turn on LabQuest unit and plug in temperature and Dissolved Oxygen probes
2. Prepare dissolved Oxygen probe (follow specific procedure in booklet) and let warm up
3. Measure and record Temperature of air and water
4. Measure and record Dissolved Oxygen
5. Unplug DO and temp probes; plug in pH, Turbidity, and conductivity and let them warm up
6. Interpret the results of temperature and Dissolved Oxygen - Are values healthy for fish?
7. Measure and record pH
8. Calibrate then measure and record turbidity
9. Measure and record conductivity
10. Interpret the last three tests - Are values healthy for fish?

Water Quality Factor	#	Units	Healthy ? (yes/high/low)	Evaluation of Stream Health (Discussion of what the value indicates about conditions for Salmonids?)
Air Temperature				
Water Temperature				
pH				
Dissolved Oxygen				
Turbidity				