

## Restoring Riparian Connectivity: Padden Cr. Fish Passage Assessment

Goal: "A channel that simulates characteristics of the natural channel will present no more of a challenge to movement of organisms than the natural channel."

-- Design seamlessly connects downstream and upstream channel profiles.

<b>Channel Characteristic</b>	<b>Improved</b>	<b>Neutral</b>	<b>Degraded</b>
Upstream hydrology	buffered	neutral	flashy
Notes			
Channel slope, local	< adjacent slopes	= adjacent slopes	> adjacent slopes
Notes			
Channel slope, overall	< mean stream slope	= mean stream slope	> mean stream slope
Notes			
Bankfull width	> adjacent reaches	= adjacent reaches	< adjacent reaches
Notes			
Channel bedform (culvert,LWD,bedrock)	More complex	Equivalent to adjacent	Bare streambed
Notes			
Channel mobility-stability	Resilient channel	Stable channel	Unstable channel
Notes			
Bank continuity	Wide floodplain	Continuous banks	Constricted channel
Notes			
Channel roughness	Roughness>adjacent	Equivalent to adjacent	Straight channel
Notes			
Knick points & incision	None	Continuous depth profile	Nick point @ culvert
Notes			
Scour pool mechanism	None	Localized plunge pool	Incision up to culvert
Notes			
Scour pool depth	None	Shallow	Deep
Notes			
Drop structures	rock, log weirs@all	Some rock, log weirs	None; sediment
Notes			
Profile restoration w/LWD	LWD-restore profile	Some LWD	No LWD
Notes			
Woody species condition	High survival&growth	Intermediate surv.&growth	Most plants dead
Notes			
Woody species browse	Leader,branches intact	Leader &branches browsed	Arrested growth form
Notes			
Summary			

Priorities for improvement \_\_\_\_\_

\_\_\_\_\_

Opportunities/strategies for improvement \_\_\_\_\_

\_\_\_\_\_



Photo: Washington State Department of Transportation



Photo: J. McLaughlin