

Correction Analysis Form *(Instructions at end of worksheet)*

Site Information *(measurements in feet)*

Project Name: Kristoferson Creek Fish Passage Barrier Corr		IAC/SRFB Project #: 14-1074	Date: 8/25/08 rev 3-10-14
Bankfull Width (outside influence of culvert): 4.9 feet	Utilities Crossing: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown		
Road Fill at Culvert Invert: 2 feet	Road Width: 22 feet		
Road Description/condition (mainline, spur road, driveway/access): Shoreline frontage road, chip seal surface			

Evaluator Information

Evaluator Name: Kelly Cahill, PE		Affiliation: Snohomish Conservation District	
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Upstream Habitat/ Channel Description

Channel Slope (outside of culvert influence): <1%	Regrade Potential (streambed US – streambed DS in feet): 0.4
Dominant Substrate: <input checked="" type="checkbox"/> sand (<1/5") <input type="checkbox"/> gravel (1/5"-3") <input type="checkbox"/> cobble (3"-12") <input type="checkbox"/> boulder (>12") <input type="checkbox"/> bedrock	
Additional upstream information, habitat description, other site conditions or concerns, including potential regrade impacts relative to channel stability and habitat: Upstream channel is incised and is subject to backwatering and tidal inundation during the upper portion of tide.	

Downstream Habitat/ Channel Description

Channel Slope: 1% (outside of culvert influence)
Additional downstream information, habitat description, other site conditions or concerns: Significant amount of driftwood severely limits ability to inventory the area within 90 feet of downstream end of culverts. Beyond the driftwood is a tide flat pocket estuary with fine-grained soils.

Correction Options and Preferred Alternative

Options to consider – Provide up to three site-appropriate correction alternatives.

Option 1: Concrete box culvert, 9' x 5' (preferred alternative)

Option 2: Bridge

Option 3: No action

Preferred alternative - Provide a one or two paragraph recommendation for this site. Include any site-specific concerns that will need to be addressed during design and construction: The preferred alternative is a concrete box culvert. Corrugated metal is not a good choice of materials due to the contact with saltwater at the site. A bridge would be more costly and would be more susceptible to damage by wind, waves, and debris during storms. A bridge would also require the road surface elevation to be increased in the vicinity of the crossing.

Cost Estimates

Rough cost estimate* - Attach detailed cost breakdown using the appropriate cost estimate

template, provided separately.

Option 1: \$148,000 - see detailed cost estimate

Option 2: \$x

Option 3: \$0

* This is a rough approximation of project costs; actual costs may vary depending on specifications identified during final project design.