

**STREAM CROSSING INSPECTION FORM**

GENERAL SITE INFORMATION									
Date	Inspector(s)	Crossing No.	Crossing owner	Name of road	Legal Description	Unmapped Crossing?	GPS UTM_E	GPS UTM_N	
Name of stream	Stream category	Fish-bearing status	Species (if known)	Fish-bearing status confirmed in field		Length of habitat upstream (m)	GIS UTM_E	GIS UTM_N	
				Likely	Unlikely				
FISH PASSAGE PARAMETERS									
Hang height (0.01m)	Riffle Crest depth (0.01m)	Outlet drop (0.01m)	Effective depth of pool (0.01m)	Backwater in culvert (%)	Substrate in culvert (%)	Substrate Type	Culvert slope uniform?	Fish barrier present?	
VERTEX DATA							LASER LEVEL DATA	Inlet Elevation (m)	Outlet Elevation (m)
Reading	SHALLOW FILL		STEEP FILL					Culvert Length (m)	Slope (%)
			<i>Foreshot (towards outlet)</i>		<i>Backshot</i>				
	HD (m)	Slope (°)	HD (m)	Slope (°)	HD (m)	Slope (°)			
1									
2									
3									
CULVERT PARAMETERS									
Type	Culvert Material	Road surface material	Diameter (0.01m)	Length (m)	Height of fill over culvert (m)	Bankfull channel width (0.01m)	Bankfull channel depths (0.01m)		Armour Inflow Outflow
BRIDGE PARAMETERS							PERFORMANCE AND SAFETY		
Type	Total deck length (m)	Deck Width (# of lanes)	Decking material	Decking pattern	Curb type	Road surface material	Blockage of opening (%)	Cause of blockage	Grader markers/Bridge reflectors
Abutment type	Abutment functioning?	Wingwalls functioning?	Armour	Bankfull channel width (0.01m)	Bankfull channel depths (0.01m)	Bankfull width under bridge (0.01m)	Bridge signs	Structural problems	
EROSION AND SEDIMENTATION									
1. Preliminary Inspection				3. Sediment Source Inspection					
Evidence of sedimentation?	Source of Sediment			Location	Length	Width	Veg. cover class	Remediation type	
				R. Dwnstrm					
				R. Upstrm					
2. Ditch Inspection				L. Dwnstrm					
Location	Length	Drainage improvement type		L. Upstrm					
R. Dwnstrm				Above Inlet					
R. Upstrm				Above Outlet					
L. Dwnstrm									
L. Upstrm									
4. External Sediment Sources (road, bridge deck, etc.)									
				Rating:		Source/Action:			
SUMMARY REMARKS					PHOTOS				
Immediate Attention Required? (If yes, describe.)					Frame #	Description			
						Inlet			
					Outlet				
					Upstream of crossing (fish habitat)				
					Downstream of crossing (fish habitat)				
					View of road left (LDB)				
					View of road right (RDB)				
					Other -				
Comments									

**STREAM CROSSING INSPECTION FORM**

REFERENCE TABLE			
<b>GENERAL SITE INFORMATION</b>			
Stream Category: (LP) Large Permanent, (SP) Small Permanent, (I) Intermittent			
Fish-bearing status: (F) Fish bearing, (N) Non-fish bearing, (U) Unknown			
<b>FISH PASSAGE PARAMETERS</b>			
Backwater in culvert (%): 0,25,50,75,100%		Substrate in culvert (%): 0,25,50,75,100%	
Substrate type: (S) Sand; (G) Gravel; (C) Cobble; (B) Boulder; (O) Other; (N) None			
<b>CULVERT PARAMETERS</b>			
Type: (E) Elliptical, (O) Open-bottom arch, (R) Round; (RC) Reclaimed			
Culvert Material: (S) Steel; (C) Concrete; (O) Other			
Road surface material: (G) Gravel; (C) Clay or mineral soil with no gravel; (CC) Calcium carbonate; (O) Other			
Armour: (R) Riprap; (G) Gabions; (G) Geotextile; (V) Vegetation; (O) Other; (N) None			
<b>BRIDGE PARAMETERS</b>			
Type: (T) Timber; (S) Steel; (C) Concrete; (RC) Reclaimed			
Decking material: (W) Wood, (C) Concrete, (S) Steel, (O) Other, includes Synthetic			
Decking pattern: (C) Closed; (O) Open			
Curb type: (W) Wood, (C) Concrete, (G) Geotextile, (N) None			
Road surface material: (G) Gravel; (C) Clay; (CC) Calcium carbonate; (S) Sand; (O) Other			
Abutment type: (SP) Steel pilings, (CP) Concrete pilings; (LP) Log pilings; (C) Concrete blocks; (L) Logs; (T) Treated lumber; (O) Other; (N) None			
Abutments functioning? (Y) In good condition, no eroding materials; (N) Falling apart and/or materials eroding from behind structure; (N/A) Not applicable			
Wingwalls functioning? (Y) In good condition, no eroding materials; (N) Falling apart and/or materials eroding from behind structure; (N/A) Not applicable			
Armour: (R) Riprap; (G) Gabions; (G) Geotextile; (V) Vegetation; (SF) Silt fence; (ES) Erosion socks; (O)ther; (N)one			
<b>PERFORMANCE AND SAFETY</b>			
Blockage of opening: 0,10, 25,50,75,100%			
Cause of blockage: (B) Beaver; (D) Debris; (I) Intentional; (S) Slumping; (R) Road material; (O) Other; (N) None			
Structural problems - <i>Culverts</i> : (C) Collapsing; (D) Damaged; (SL) Slumping; (U) Undersized; (V) Vegetation protruding; (O) Other; (N) None			
Structural problems - <i>Bridges</i> : (C) Collapsing; (D) Damaged; (BA) Broken/separated/damaged abutments; (RA) Rotten abutments; (SA) Sunken abutments; (DG) Damaged guardrail; (GM) Grout missing; (SL) Slumping; (V) Vegetation protruding; (O) Other; (N) None			
<b>EROSION AND SEDIMENTATION</b>			
<b>2. Ditch Inspection</b>	Drainage improvement type: <i>Refer to "Remedial Measures" options.</i>		
<b>3. Sediment Source Inspection</b>	Vegetation Cover Class: (1) 0-10 % cover; (2) 10-30% cover; (3) 30-50% cover; (4) 50-95% cover; (5) 95-100% cover		
	Remediation type: <i>Refer to "Remedial Measures" options.</i>		
<b>4. External Sediment Sources</b>	Rating: (H) High; M (Medium); L (Low) - <i>see manual for clarification</i>		
	Action: <i>Refer to "Remedial Measures" options.</i>		
<b>SUMMARY REMARKS</b>			
<b>Emergency repair required?</b> If Yes, choose repair options from "Remedial Measures."			
<b>Suggested Remedial Measures or Follow-up - <i>Bridges</i></b>			
B1 - Requires abutments/pilings	B10 - Remove/clean mud build-up from deck	B18 - Build up wing walls	
B2 - Replace/repair abutment or wing wall	B11 - Enclose open deck	B19 - Repair bridge deck	
B3 - Raise sunken bridge structure	B12 - Concrete deck requires re-grouting	B20 - Other (Describe)	
B4 - Stabilize/armour scouring under bridge	B13 - Replace worn running surface		
B5 - Requires longer bridge span	B14 - Repair damaged guard rails		
B6 - Remove tree debris from under bridge	B15 - Repair/replace guard rail curbs		
B7 - Install missing warning signs	B16 - Enclose open guard rails with curbs		
B8 - Install missing safety reflectors	B17 - Tie Wingwalls into abutments		
B9 - Requires deck corner barrier plates to prevent road material buildup into stream			
<b>Suggested Remedial Measures or Follow-up - <i>Culverts</i></b>			
C1 - Requires sediment barriers/markers (from road grading)	C7 - Remove beaver dam blockage		
C2 - Requires replacement - undersized diameter and/or length	C8 - Pipe requires baffles		
C3 - Requires replacement - internal structural problems	C9 - Requires fish presence check		
C4 - Requires pipe extensions - short pipe	C10 - Requires fish habitat assessment		
C5 - Repair separated joint	C11 - Install debris/beaver grates		
C6 - Repair washout	C12 - Other (explain)		
<b>Applies to both bridges and culverts</b>			
1 - Requires rip rap armour	8 - Stabilize and repair gully/slumping on fill slopes	15 - Requires geotextile material	
2 - Requires silt fence	9 - Repair sink hole and associated structural problems		
3 - Requires erosion socks	10 - Remove beaver dam		
4 - Requires vegetation cover seeding	11 - Remove and reclaim		
5 - Requires diversion ditches	12 - Monitor for increase in severity		
6 - Requires cross-drain	13 - Requires ditch(es)		
7 - Requires ditch blocks	14 - Repair/maintain silt fence		