

Site Information			
Crossing ID		Watershed Group Name	
Crossing Type	<input type="checkbox"/> Culvert <input type="checkbox"/> Bridge* <input type="checkbox"/> Dam <input type="checkbox"/> Ford <input type="checkbox"/> Other	# of Culverts	
Field Crew		Date (dd/mm/yyyy)	
Stream Name		Time	
Road Name		Projection	<input type="checkbox"/> WGS 84 <input type="checkbox"/> NAD 83
Ownership of Crossing	<input type="checkbox"/> Public Road ROW <input type="checkbox"/> Rail Bed ROW <input type="checkbox"/> Private	Lat (deg, min, sec)	
Debris Blockage Present	<input type="checkbox"/> Yes <input type="checkbox"/> No	Long (deg, min, sec)	
Description of Debris		Fish Habitat**	<input type="checkbox"/> Yes <input type="checkbox"/> No

*If crossing is a bridge or other open bottomed structure, complete bridge section
 **If crossing is identified as being on a fish bearing stream, then proceed with further data collection

Photo Files			
Upstream	File Name	Downstream	File Name
Toward Inflow		Toward Outflow	
Through Culvert		Through Culvert	
Looking Upstream		Looking Downstream	
Other		Other	

Bridge Dimensions			
Span (m)		Wetted Width Under Bridge (m)	
Rise (m)		Average Water Depth Under Bridge (m)	
Bridge Width (m)		Stream Width Ratio	

Rapid Assessment	
Is there a visible outflow drop?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Is the water depth less than 15cm anywhere in the culvert?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Is the culvert backwatered only part of the way or not at all?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Is the stream width noticeably different above and below the culvert?	<input type="checkbox"/> Yes <input type="checkbox"/> No

If the response to any of these questions is YES then continue with the full assessment.

Stream Characteristics			
Water Quality			
Air Temp (°C)		pH	
Water Temp (°C)		Conductivity (µS/cm)	
		DO (mg/L)	
		TDS (mg/L)	
Substrate Sizes (taken upstream of culvert in percent composition)			
Fines (<0.2cm)		Cobble (6.4-25.6cm)	
Gravel (0.2-6.4cm)		Boulder (>25.6cm)	
		Bedrock	

Channel Measurements (taken upstream)				
	Pool	Riffle	Run	Average
Wetted Width (m)				
Bankfull Width (m)				
Stream Width Ratio				

Culvert Information					
Culvert Material	<input type="checkbox"/> Concrete <input type="checkbox"/> Corrugated Metal Pipe (Spiral) <input type="checkbox"/> Corrugated Metal Pipe (Annular) <input type="checkbox"/> Corrugated Plastic <input type="checkbox"/> Wood <input type="checkbox"/> Other	Culvert Shape	<input type="checkbox"/> Circular <input type="checkbox"/> Box <input type="checkbox"/> Pipe Arch <input type="checkbox"/> Open Arch <input type="checkbox"/> Other	Entrance Type	<input type="checkbox"/> Projecting <input type="checkbox"/> Headwall <input type="checkbox"/> Mitered <input type="checkbox"/> Wingwall <input type="checkbox"/> Other
		Is Culvert Deformed?	Deterioration	Baffles	<input type="checkbox"/> Present <input type="checkbox"/> Absent
		<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> None <input type="checkbox"/> Moderate <input type="checkbox"/> Severe	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Culvert Bottom	<input type="checkbox"/> Unnatural <input type="checkbox"/> Natural If Natural, Dominant Substrate: _____		Variable Slope in Culvert	<input type="checkbox"/> Yes <input type="checkbox"/> No	

Culvert Dimensions					
Culvert Measurements (m)	WIDTH	HEIGHT	Corrugation (cm)	WIDTH	HEIGHT
Additional Information					
Inflow Habitat Type	<input type="checkbox"/> Pool <input type="checkbox"/> Riffle <input type="checkbox"/> Run <input type="checkbox"/> Drop			Beaver Dam Present	<input type="checkbox"/> Yes <input type="checkbox"/> No
Backwatered	<input type="checkbox"/> 0% <input type="checkbox"/> 25% <input type="checkbox"/> 50% <input type="checkbox"/> 75% <input type="checkbox"/> 100%			Fish Observed	<input type="checkbox"/> Upstream <input type="checkbox"/> Downstream
Embedment	<input type="checkbox"/> Embedded From Upstream <input type="checkbox"/> Embedded From Downstream			Degree of Embedment	<input type="checkbox"/> 0% <input type="checkbox"/> <20% <input type="checkbox"/> >20%
Length of Culvert with Embedment	<input type="checkbox"/> 0% <input type="checkbox"/> 25% <input type="checkbox"/> 50% <input type="checkbox"/> 75% <input type="checkbox"/> 100%				
Upstream of Culvert					
Elevations				Measurements	
	HI (m) <small>(10 + change in tripod height)</small>	FS (m) <small>(survey rod reading)</small>	Elevation (m) (HI - FS)	Water Depth at Inflow (cm)	Velocity (m/s)
				Stagnation Depth at Inflow (cm)	
Crest of Riffle Upstream				Upstream Riffle to Inflow Invert (m)	
Inflow				Culvert Length (m)	
Upstream Channel Slope (%)					
Downstream of Culvert					
Elevations				Measurements	
	HI (m) <small>(10 + change in tripod height)</small>	FS (m) <small>(survey rod reading)</small>	Elevation (m) (HI - FS)	Water Depth at Outflow (cm)	Velocity (m/s)
				Stagnation Depth at Outflow (cm)	
Outflow				Plunge Pool Bankfull Width (m)	
Plunge Pool Bottom				Outflow to Tailwater Control (m)	
Tailwater Control				Tailwater Control to 2nd Riffle Downstream (m)	
Crest of 2nd Riffle				Culvert Slope	
Pool Surface Elevation				Outflow Drop (cm)	
Downstream Channel Slope					
Tailwater Cross Section					
Widths	Elevations				Measurements
	Station	HI (m) <small>(10 + change in tripod height)</small>	FS (m) <small>(survey rod reading)</small>	Elevation (m) (HI - FS)	Water Depth (m)
Wetted Width (m)	1 (Left Bankfull)				
	2 (1/5 Bankfull Width)				
Bankfull Width (m)	3 (1/5 Bankfull Width)				
	4 (1/5 Bankfull Width)				
Bankfull Width / 5	5 (1/5 Bankfull Width)				
	6 (Right Bankfull)				

Baffle Information (Complete if culvert is baffled)

Baffle Height (cm)		Baffle Material	<input type="checkbox"/> Concrete <input type="checkbox"/> Metal <input type="checkbox"/> Wood <input type="checkbox"/> Other		
Notch Depth (cm)		Baffle Type	<input type="checkbox"/> Straight <input type="checkbox"/> Diagonal <input type="checkbox"/> Right Angled <input type="checkbox"/> Other		
Notch Width (cm)		Notch Chutes	<input type="checkbox"/> Yes <input type="checkbox"/> No		
Number of Baffles		Notch Chute Material	<input type="checkbox"/> Concrete <input type="checkbox"/> Metal <input type="checkbox"/> Wood <input type="checkbox"/> Other		
Distance Between Baffles (m)		Elevations	HI (m)	FS (m)	Elevation (m)
Distance from Bottom Baffle to Outflow (m)			(10 + change in tripod height)	(survey rod reading)	(HI - FS)
		U/S Baffle			
		Adjacent D/S Baffle			
Drop Between Baffles (m)					

Notes

Sketch