

Appendix II. WSDOT Fishways Needing Repair or Maintenance to Address Fish Passage.

Road	Mile Post	Stream	Tributary to	WRIA	% Fish Pass	Last Inspection Date	Inspection Frequency	Fishway Type	Fishway Condition	Recommended Maintenance/ Repair	Funding	Project Status
WSDOT Northwest Region												
SR 9	1.16	Ashley Cr	Little Bear Cr	08.0083	67	14-Oct-04	Discontinued	SBC	MNR	The culvert is not backwatered by the downstream controls; the culvert needs to be replaced.		
I-5	238.4	Bow Hill Cr	Friday Cr	3.0016	100	11-Oct-05	Annual	BC; SBC	MNFP	Remove the beaver dam from the culvert inlet and debris from the baffled culvert.		
I-5	256.28	Baker Cr	Squalicum Cr	01.0553	33	25-May-04	Discontinued	BC, SBC	MNR	Baffles have deteriorated; culvert is rusting out. An engineering review is needed to determine correction option, e.g., new fishway or culvert.	DI	SC
I-5 NB Ext 256	0.01	Baker Cr	Squalicum Cr	01.0553	67	25-May-04	Discontinued	BF	MNR	An engineering review is needed to determine correction option, e.g., new fishway or culvert replacement.		
I-5	244.2	Barnes Cr	Samish Lk	03.0036	33	13-Jan-04	Discontinued	SBC	MNR	Culvert is only partially backwatered by log controls. An engineering review is needed to determine correction option, e.g., new fishway or culvert replacement.		
SR 410	48.29	Boundary Cr	White R	10.0250	33	29-Dec-04	Discontinued	SBC	MNR	Culvert is only partially backwatered; high velocity throughout the culvert. An engineering review is needed to determine correction option, e.g., new fishway or culvert replacement.		
SR 92	1.93	Catherine Cr	Stevens Cr	07.0148	67	14-Oct-04	Discontinued	BC	MNR	The outfall drop exceeds WDFW criteria for fish passage at a fishway in coho streams. The apron baffle also leaks enough that no flow goes over the baffle during low flows. The fishway needs to be upgraded to meet criteria, or the crossing replaced.	DI	SC
I-5	246.75	Chuckanut Cr	Puget Sound	01.0626	0	26-May-04	Discontinued	BC, SBC	MNR	Most of the baffles are either damaged or gone. An engineering review is needed to determine correction option, e.g., new fishway or culvert replacement.		
SR 532	6.14	Church Cr	Stillaguamish R	05.0018	67	13-Oct-04	Discontinued	SBC	MNR	More downstream controls are needed to correct an excess drop at the downstream most log control. Baffles are also recommended to correct sheeting flow in the culvert at low flows.		
SR 18	25.67	Deep Cr	Raging R	07.0396	33	22-Apr-97	Discontinued	BC, SBC	MNR	The culvert baffles are badly deteriorated, and velocities in combination with outfall drop block coho and juveniles. Rebuilding is needed. Engineering required.		
SR 509	20.35	Des Moines Cr	Puget Sound	09.0377	33	17-Dec-03	Discontinued	BC	MNR	The culvert is in the process of being replaced with a full span bridge. It will be completed in 2006.	OT	SC
I-90	18.83	EF Issaquah Cr	Issaquah Cr	08.0183	33	13-May-94	Discontinued	SBC	MNR	The middle sackrete control is deteriorating and threatening to blow out. It needs to be repaired or replaced.		
I-5	219.41	Fisher Cr	Carpenter Cr	03.0181	67	13-Oct-04	Discontinued	BC	MNR	More baffles are needed below the downstream most baffle to correct a depth problem for fish access. Expansion ring baffles were recommended.	DI	CU
SR 18	22.16	Holder Cr	Sammamish Lk	08.0178	0	30-Dec-03	Discontinued	BC	MNR	An engineering review is needed to determine correction option, e.g., new fishway or culvert replacement.	TP	SC
SR 509	25.69	Miller Cr	Puget Sound	09.0371	67	25-Aug-05		SBC	MNR	An engineering review is needed to determine correction option, e.g., new fishway or culvert replacement.		

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SR 528	2.47	Munson Cr	Allen Cr	07.0073	67	16-Jan-04	Discontinued	SBC	MNR	An engineering review is needed to determine correction option, e.g., new fishway or culvert replacement.		
I-405	26.46	Perry Cr	North Cr	08.0070 A	67	14-Oct-04	Discontinued	BC	MNR	Recommended replacement of a missing baffle in culvert and elimination of sheet flow problem at culvert outlet.	TP	SC
I-405	29.75	Swamp Cr	Sammamish R	08.0059	67	1-Mar-05	Discontinued	BC, SBC	MNR	Replace missing streambed controls.	DI	SC
SR 522	2.86	Thornton Cr	Lk Washington	08.0030	67	20-Sep-99	Discontinued	BC, PC	MNR	Missing plank controls. An engineering review is needed to determine correction option, e.g., new fishway or culvert replacement.		
SR 530	31.01	Unnamed	NF Stillaguamish R	05	67	16-Jan-04	Discontinued	SBC	MNR	Outfall at a log control exceeds WDFW fish passage criteria. An engineering review is needed to determine correction option, e.g., new fishway or culvert replacement.		
SR 531	8.71	Unnamed	MF Quilceda Cr	07.0060	67	15-Jan-04	Discontinued	SBC	MNR	Excessive drops at two inappropriately spaced log controls. An engineering review is needed to determine correction option, e.g., new fishway or culvert replacement.		
SR 167	25.65	Unnamed	Springbrook Cr	09.0006	67	2-Aug-05	Annual	WP	MNR	The drops at weirs exceeds WDFW fish passage criteria. An engineering review is needed to determine correction option, e.g., new fishway or culvert replacement.		
SR 520	4.48	Unnamed	Lk Washington	08.0257	33	30-Dec-03	Discontinued	SBC	MNR	Controls do not backwater the culvert. An engineering review is needed to determine correction option, e.g., new fishway or culvert replacement.	TP	SC
SR 18	0.83	Unnamed	Unnamed	10	67	2-Mar-04	Discontinued	SBC	MNR	The outfall drop at a control exceeds WDFW fish passage criteria. An engineering review is needed to determine correction option, e.g., new fishway or culvert replacement.	TP	SC
US 2	23.08	Wagley's Cr	Skykomish R	07.0939	33	19-Aug-03	Discontinued	WP	MNR	Remove the old dam and fishway to allow fish passage. The fishway is non-functional. Wooden structure has deteriorated, so the flow goes under most of the structure.		
WSDOT North Central Region												
US 97	158.32	Iron Cr	Swauk Cr	39.1209	67	4-Oct-04		BC	MNR	An engineering review is needed to determine correction option, e.g., new fishway or culvert replacement.		
SR 28	22.72	Lynch Coulee	Columbia R	41	0	23-Jan-04	Discontinued	BC	MNR	Baffles are deteriorated or missing. An engineering review is needed to determine correction option, e.g., new fishway or culvert replacement.		
WSDOT Olympic Region												
SR 308	1.15	Big Scandia Cr	Liberty Bay	15.0280	67	17-Nov-04	Discontinued	BC, SBC	MNR	Replace damaged baffles. Engineering design is needed.		
SR 3	40.96	Chico Cr	Dyes Inlet	15.0229	67	17-Nov-04	Discontinued	BC	MNR	Install two additional baffles at the head end of the culvert to eliminate sheet flow. Current depth is app. 0.3'. Chum salmon are now having great difficulty negotiating this section of the culvert.		

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US 101	346.95	Coffee Cr	Goldsborough Cr	14.0036	67	28-Apr-04	Discontinued	SBC	MNR	No immediate maintenance is required. During this review, however, a velocity problem was identified in the middle culvert, and there are indicators of the same problem in the other two culverts, also. Correction of the problem will require replacement.		
SR 112	48.49	Field Cr	Strait of Juan de Fuca	19.0026	67	9-Dec-03	Discontinued	SBC	MNR	The drop at the downstream log control exceeds WDFW fish passage criteria. The problem might be correctable without replacement; new culvert was installed in 2001.		
US 101	146.85	Harlow Cr	Queets R	21.0134	67	29-Sep-05	Discontinued	BC, SBC	MNR	Replace the lost apron baffle section on the left bank side of the apron and trim the dislodged fabric at the upstream log control at the streambed level.	DI	CS
US 101	238.35	Indian Cr	Elwah R	18.0283	67	3-Nov-04	Discontinued	BC	MNR	The drop over the entrance weir exceeds WDFW fish passage criteria. Suggested notching the baffle (requiring concrete cutting) to facilitate fish passage.		
US 101	267.18	Johnson Cr	Port Williams	17.0301	67	3-Nov-04	Discontinued	BC, SBC	MNR	An engineering plan is required to address the existing 0.41 mter drop over the exposed/bedrock control. If the control fails, the upstream log controls will fail as well.	DI	CU
SR 167 NB on ext 8	0.16	Jovita Cr	Milwaukee Canal	10.0033	67	9-Mar-04	Discontinued	BC	MNR	Drops over log controls exceed WDFW fish passage criteria. Fishway requires engineering review to determine if replacement is an option.		
US 101	250.5	Lees Cr	Strait of Juan de Fuca	18.0232	0	28-Apr-04	Discontinued	BC, PC	MNR	The culvert is a total barrier due to slope and velocity and will need to be replaced.	DI	SC
SR 302	11.36	Little Minter Cr	Minter Cr	15.0051	67	17-Nov-04	Discontinued	BC, SBC	MNR	The addition of an upstream culvert baffle is needed to eliminate sheet flow. The outfall drop exceeds WDFW fish passage criteria. Rock controls need to be replaced.		
SR 302	11.42	Little Minter Cr	Minter Cr	15.0051	67	17-Nov-04	Discontinued	BC, SBC	MNR	Re-space the culvert baffles and add one to eliminate a sheet flow problem below the first interior baffle. Correct the leakage (read erosion) around the ends of the downstream plank controls.		
US 101	260.95	Matriotti Cr	Dungeness R	18.0021	67	3-Nov-04	Discontinued	SBC	MNR	All the downstream log controls have failed. Engineering required to determine correction option.		
SR 302 ROW	16.09	Purdy Cr	Burley Lagoon	15.0060	67	22-Sep-05	Annual	BC, SBC	MNR	Provide permanent, stable backwatering of the culvert by adding downstream controls or repairing the damaged apron and replace the missing baffle.		
US 101	197.1	Swanson Cr	Soleduck R	20.0312	67	19-Nov-04	Discontinued	BC, SBC	MNR	Baffle divider wall needs to be sealed to insure proper flow to the fishway.		
SR 109	36.43	Unnamed	Pacific Ocean	21.0715	67	12-Oct-04	Discontinued	WP	MNR	Short term - remove debris. Long term - Replace blown out streambed control, and replace or baffle culvert to eliminate velocity problem at the upper end.	DI	CU
SR 16	20.36	Unnamed	Burley Cr	15	33	12-Dec-03	Discontinued	BC	MNR	An engineering review is needed to determine correction option, e.g., new fishway or culvert replacement.		
US 101	111.9	Unnamed	Stevens Cr	22	67	29-Apr-04	Discontinued	BC	MNR	Most baffles are missing. An engineering review is needed to determine correction option, e.g., new fishway or culvert replacement.	OT	CU

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SR 16	20.44	Unnamed	Burley Cr	15	33	12-Dec-03	Discontinued	BC	MNR	An engineering review is needed to determine correction option, e.g., new fishway or culvert replacement.		
SR 3	41.52	Unnamed	Dyes Inlet	15.0241	0	15-Jul-04	Discontinued	SBC	MNR	Damaged downstream control; outfall drop at the culvert exceeds WDFW fish passage criteria. An engineering review is needed to determine correction option, e.g., new fishway or culvert replacement.		
SR 3	41.81	Unnamed	Dyes Inlet	15	0	20-Jul-04	Discontinued	SBC	MNR	Damaged downstream control; outfall drop at the culvert exceeds WDFW fish passage criteria. An engineering review is needed to determine correction option, e.g., new fishway or culvert replacement.		
SR 3	42.21	Unnamed	Dyes Inlet	15.0243	0	20-Jul-04	Discontinued	SBC	MNR	The drops at the downstream controls exceed WDFW fish passage criteria. An engineering review is needed to determine correction option, e.g., new fishway or culvert replacement.		
SR3	47.72	Unnamed	Clear Cr	15.0254	67	8-Aug-04	Discontinued	BC	MNR	The drop at the downstream control exceeds WDFW fish passage. An engineering review is needed to determine correction option, e.g., new fishway or culvert replacement.		
SR 112	49.48	Whiskey Cr	Strait of Juan de Fuca	19.0020	33	27-Jan-04	Discontinued	BC	MNR	An engineering review is needed to determine correction option, e.g., new fishway or culvert replacement.	TP	CU
WSDOT Southwest Region												
SR 142	20.2	Bowman Cr	L Klickitat R	30.0068	33	6-Jun-01	Discontinued	BC, SBC	MNR	The baffles have deteriorated and are not functioning properly. An engineering review is needed to determine correction option, e.g., new fishway or culvert replacement.		
Nevala Rd (SR 503 ROW)		Ross Cr	NF Lewis R	27.0305	33	8-Apr-04	Discontinued	BC	MNR	This fishway needs to be replaced. The culvert is undersized and improperly aligned. The baffles have deteriorated and no longer function. The steel plate at the outlet creates an excessive drop.		
SR 503	33.28	Unnamed	Brooks Cr	27.0432	33	15-Dec-03	Discontinued	BC	MNR	The drop at the downstream end of the culvert exceeds WDFW fish passage criteria. An engineering review is needed to determine correction option, e.g., new fishway or culvert replacement.		
SR 503	49.03	Kenyon Cr	NF Lewis R	27.0320	100	23-Sep-05	Annual	BC; WP	MNFP	An eight step concrete weir-pool fishway with wooden weirs at the outlet of a concrete box culvert. The culvert is equipped with 12 bent steel baffles, placed vertical to flow and tapered to one end for low flow. A small beaver dam (12" to 18" high) needs to be removed from the inlet end of the culvert.		
SR 503	52.1	Robinson Cr	Lewis R	27.0300	100	23-Sep-05	Annual	BC; WP	MNFP	Replace the stop-logs in the middle weir of the pool-chute portion with stop-logs that better fit the slot, about 3" thick. The current 2X12 boards are not holding in place.		
WSDOT South Central Region												
US 97	37.14	Highbridge Springs	Satus Cr	37	0	21-Jan-04	Discontinued	BC, SBC	MNR	Excessive drops and low pool volume. An engineering review is needed to determine correction option, e.g., new fishway or culvert replacement.		

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SR 410	82.8	Wash Cr	American R	38	67	7-Jun-04	Discontinued	BC, SBC	MNR	Inappropriately spaced log controls with excessive drops. An engineering review is needed to determine correction option, e.g., new fishway or culvert replacement.		
WSDOT Eastern Region												
US 2	304.4	Deer Cr	Little Spokane R	55.0380	33	22-Jan-04	Discontinued	BC, SBC	MNR	An outfall drop at the apron exceeds WDFW fish passage criteria. An engineering review is needed to determine correction option, e.g., new fishway or culvert replacement.		
SR 20	389.5	Renshaw Cr	Pend Oreille R	62.0310	0	22-Jan-04	Discontinued	SBC	MNR	An engineering review is needed to determine correction option, e.g., new fishway or culvert replacement.		

Fishway Type:

BF - baffled flume
BC - baffled culvert
SBC - streambed control
WP - weir pool
PC - pool-chute

Condition:

MNR - requires replacement
MNFP - requires maintenance for fish passage

Project Status:

SC - fish passage project scheduled
CS - fish passage project completed successfully
CS - fish passage project completed not completed successfully

Funding Type:

TP - safety and mobility or other road improvement projects
DI - projects within the WSDOT Environmental Retrofit Program
OT - other sources of funding supplementing or supplemented by WSDOT, such as counties, cities, or tribal entities.