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# WSDOT FISH PASSAGE PERFORMANCE REPORT

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JUNE 30, 2023



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Environmental Services Office  
Biology Branch  
Stream Restoration Program

# WSDOT FISH PASSAGE PERFORMANCE REPORT

June 30, 2023

*Cover photos, clockwise from the upper left-hand corner: Coho salmon at Double Ditch Creek on State Route (SR) 546, post-construction; SR 539 Duffner Ditch during 2022 construction; drone image of I-5 Padden Creek, constructed 2022.*

This report is also available in a pdf format at:

[www.wsdot.wa.gov/construction-planning/protecting-environment/fish-passage](http://www.wsdot.wa.gov/construction-planning/protecting-environment/fish-passage).

Additional data can be obtained by contacting Washington State Department of Transportation's Environmental Services Office or Katrina Keleher: [Katrina.Keleher@wsdot.wa.gov](mailto:Katrina.Keleher@wsdot.wa.gov).

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# Table of Contents

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<b>Executive Summary</b> .....	IX
<b>Introduction</b> .....	1
Background on WSDOT Fish Passage Program.....	1
<b>2022 Fish Passage Projects Completed</b> .....	3
Padden Creek, Tributary to Bellingham Bay.....	5
Duffner Ditch, Tributary to Bertrand Creek.....	6
Double Ditch and Pepin Creek, Tributaries to Fishtrap Creek.....	7
Kamm Ditch, Tributary to Nooksack River.....	8
Lake Creek, Tributary to Lake McMurray.....	9
Norway Park Creek, Tributary to Lake McMurray.....	10
Unnamed tributary to Skagit River.....	11
Ravensdale Creek, Tributary to Lake Sawyer.....	12
Unnamed tributaries to Chico Creek.....	13
Little Minter Creek, Tributary to Minter Creek.....	14
Steamboat Creek, Tributary to Pacific Ocean.....	15
Centennial Creek, Tributary to Pilchuck River.....	16
<b>Fish Passage Program Delivery Progress</b> .....	26
<b>Project Planning</b> .....	27
WSDOT Barrier Corrections and Planning Strategy.....	27
Planning and Implementation Improvements.....	27
Funding.....	27
<b>Fish Passage Inventory and Assessment</b> .....	28
Fish Passage Inventory Updates.....	28
U.S. v. WA List of WSDOT Case Area Barrier Culverts.....	29
<b>Monitoring</b> .....	30
Monitoring Plan.....	30
Actions Resulting from Monitoring.....	30
Monitoring Summary.....	31
Post-Project Evaluation for Fish Presence.....	34
Fishway Inspections and Maintenance.....	34

# List of Tables

Table 1. Fish Passage Projects Completed in 2022.....	4
Table 2. WSDOT Fish Passage Barrier Corrections Completed.....	18
Table 3. Fish Passage Barriers Statewide.....	28

# List of Figures

Figure 1. Diagram illustrating lineal and incremental habitat gain.....	1
Figure 2. WSDOT fish passage barriers.....	2
Figure 3. WSDOT fish passage barrier corrections since 1955.....	2
Figure 4. WSDOT fish passage projects completed in 2022.....	3
Figure 5. Padden Creek pre-construction photo.....	5
Figure 6. Padden Creek post-construction photo.....	5
Figure 7. Duffner Ditch pre-construction photo.....	6
Figure 8. Duffner Ditch post-construction photo.....	6
Figure 9. Double Ditch and Pepin Creek pre-construction photos.....	7
Figure 10. Double Ditch and Pepin Creek post-construction photos.....	7
Figure 11. Kamm Ditch pre-construction photo.....	8
Figure 12. Kamm Ditch post-construction photo.....	8
Figure 13. Lake Creek pre-construction photo.....	9
Figure 14. Lake Creek post-construction photo.....	9
Figure 15. Norway Park Creek pre-construction photo.....	10
Figure 16. Norway Park Creek post-construction photo.....	10
Figure 17. Unnamed tributary to Skagit River pre-construction photo.....	11
Figure 18. Unnamed tributary to Skagit River post-construction photo.....	11
Figure 19. Ravensdale Creek pre-construction photo.....	12
Figure 20. Ravensdale Creek post-construction photo.....	12
Figure 21. Unnamed tributaries to Chico Creek pre-construction photos.....	13
Figure 22. Unnamed tributaries to Chico Creek post-construction photos.....	13
Figure 23. Little Minter Creek pre-construction photos.....	14
Figure 24. Little Minter Creek post-construction photos.....	14
Figure 25. Steamboat Creek pre-construction photo.....	15
Figure 26. Steamboat Creek post-construction photo.....	15
Figure 27. Centennial Creek pre-construction photo.....	16
Figure 28. Centennial Creek post-construction photo.....	16
Figure 29. Injunction Barrier Corrections in progress during 2023-2025.....	26
Figure 30. Examples of WSDOT fishways.....	35

# List of Appendices

Appendix I	WSDOT Culvert Barriers Relevant to the Injunction.....	36
Appendix II	Updates to the WSDOT Injunction Barrier List.....	74
Appendix III	Fish Passage Barrier Correction Monitoring Plan.....	88
Appendix IV	Monitoring Results.....	92
Appendix V	Dedicated Funding Project Evaluations - Spawner Surveys.....	96
Appendix VI	WSDOT Fishway Inspections.....	100
	A. Northwest Region.....	101
	B. Olympic Region.....	103
	C. Southwest Region.....	104

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# Executive Summary

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State highways cross rivers and streams in thousands of locations throughout Washington. Some crossings can impede fish migration. Since 1991, the Washington State Department of Transportation (WSDOT) has worked to improve fish passage and foster healthy waterways by removing or restoring barriers that keep fish and other aquatic species from moving freely to feed, migrate, and reproduce. This report summarizes WSDOT's progress in identifying and correcting fish passage barriers and related activities completed in the last year.

Statewide there are 4,017 highway crossings on fish bearing waters. Of those, 2,086 are documented fish passage barriers, including 2,052 culverts. Of these, 1,536 block a significant amount of upstream habitat (>200 meters).

WSDOT completed 15 fish passage projects in 2022, opening 29.11 miles (46.85 kilometers) of potential upstream habitat. Fourteen of the 15 barriers corrected were Federal Court Injunction barrier culverts.

Since 2013, WSDOT has worked to comply with the requirements of a U.S. District Court injunction to correct barriers to salmon and steelhead within the case area. As of June 1, 2023, WSDOT has corrected 114 injunction barrier culverts and opened 501.71 miles (807.42 kilometers) of blocked salmon and steelhead habitat.



To date, WSDOT has completed 114 injunction fish passage barrier corrections in Washington streams. As a result of this effort, access has been restored to an estimated 501.71 miles\* (807.42 kilometers) of potential upstream habitat, assuming no other human-made obstacles exist in the watershed where the project was completed.

\*The amount of habitat that was once blocked by fish passage barriers was derived from physical habitat surveys or by using Geographic Information System (GIS) software for sites lacking physical habitat surveys.



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# Introduction

## Background on WSDOT Fish Passage Program

The Washington State Department of Transportation (WSDOT) has long recognized the importance of minimizing the environmental impacts of Washington's transportation system. As a part of that commitment to the environment, WSDOT created a dedicated program in 1991 to identify and correct barriers that restrict or completely block salmon and trout access to historic spawning and rearing habitat. That same year, WSDOT partnered with the Washington Department of Fish and Wildlife (WDFW) to assist with a comprehensive inventory and assessment of WSDOT owned water crossing structures. With this program, WSDOT identifies high priority barriers and corrects them.

On March 29, 2013, the U.S. District Court issued a permanent injunction requiring the State of Washington to accelerate barrier correction on salmon and steelhead streams within the area subject to the injunction. This area is referred to herein as the "case area". The case area is that portion of the State of Washington west of the Cascade Mountains and north of the Willapa and Columbia River drainages (Figure 2).

This report summarizes WSDOT's progress in correcting fish passage barriers during the previous year and over the life of the program. It provides an update on planned corrections, as well as the results of post-project monitoring, fish utilization of completed projects, and fishway inspections.

The appendices include: a list of barrier culverts subject to the injunction, updates to the WSDOT injunction barrier list, WSDOT's fish passage barrier correction monitoring plan, monitoring results, spawner survey results, and fishways requiring maintenance for fish passage.

Potential habitat values listed in this report are calculated using both lineal and incremental gain (Figure 1). Lineal gain represents the length of potential fish habitat upstream of a corrected fish passage barrier to the end of fish use when no additional WSDOT barriers are documented

upstream. Incremental gain represents the length of potential fish habitat between a corrected WSDOT fish passage barrier and the next WSDOT fish passage barrier or corrected barrier upstream. Reporting incremental habitat gain instead of lineal gain in these circumstances ensures WSDOT avoids double-counting potential habitat gain when more than one WSDOT fish passage barrier correction is located within the same watershed.

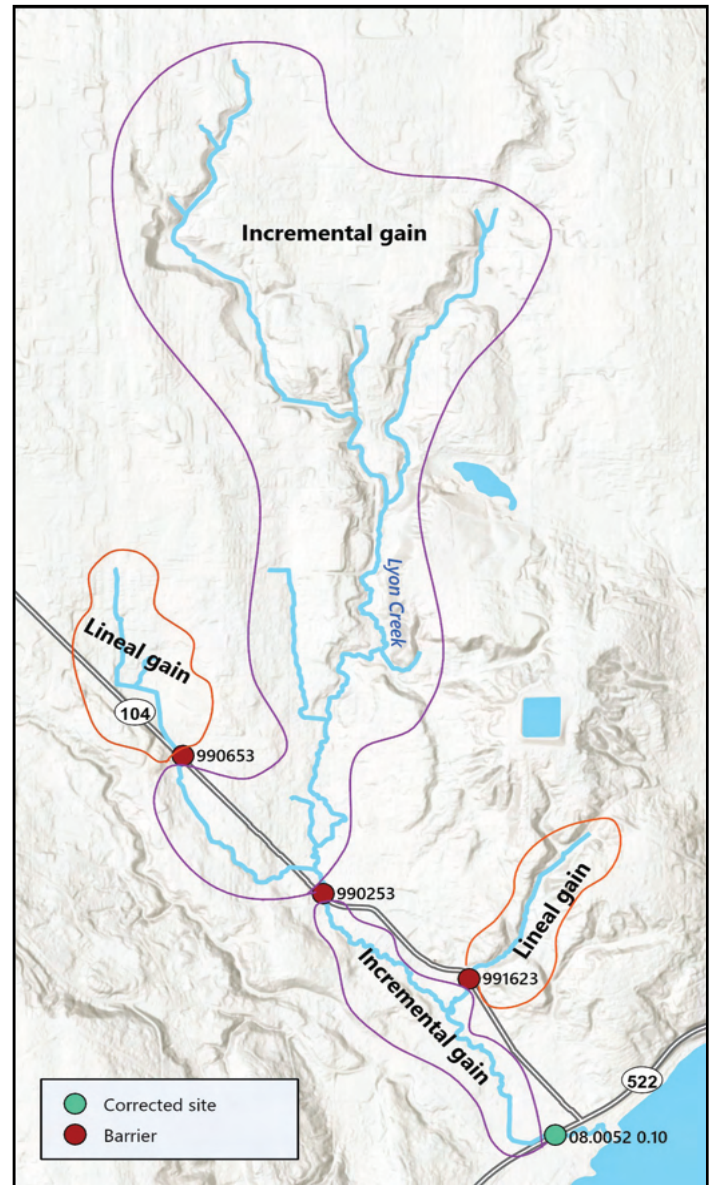


Figure 1. A diagram illustrating lineal and incremental gain in a watershed with one corrected fish passage project (bottom right) and three upstream barriers.

Figure 2. WSDOT fish passage barriers

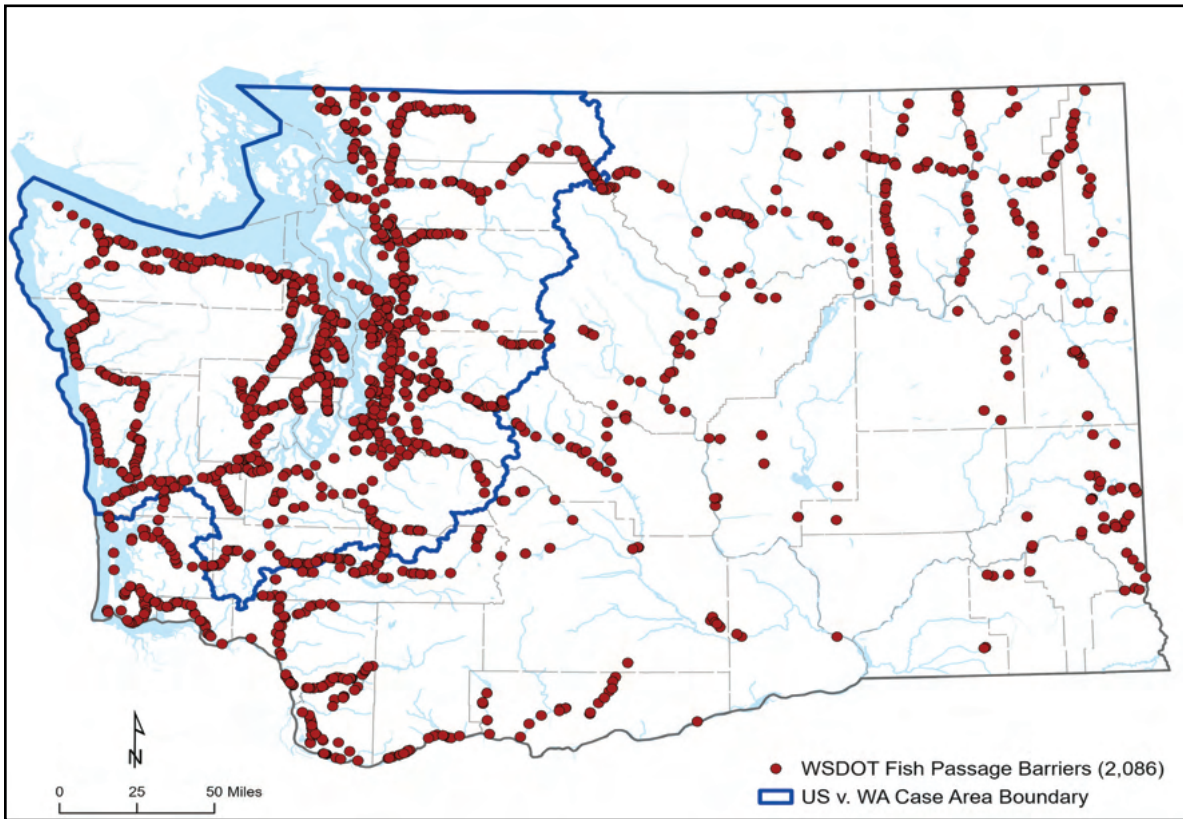
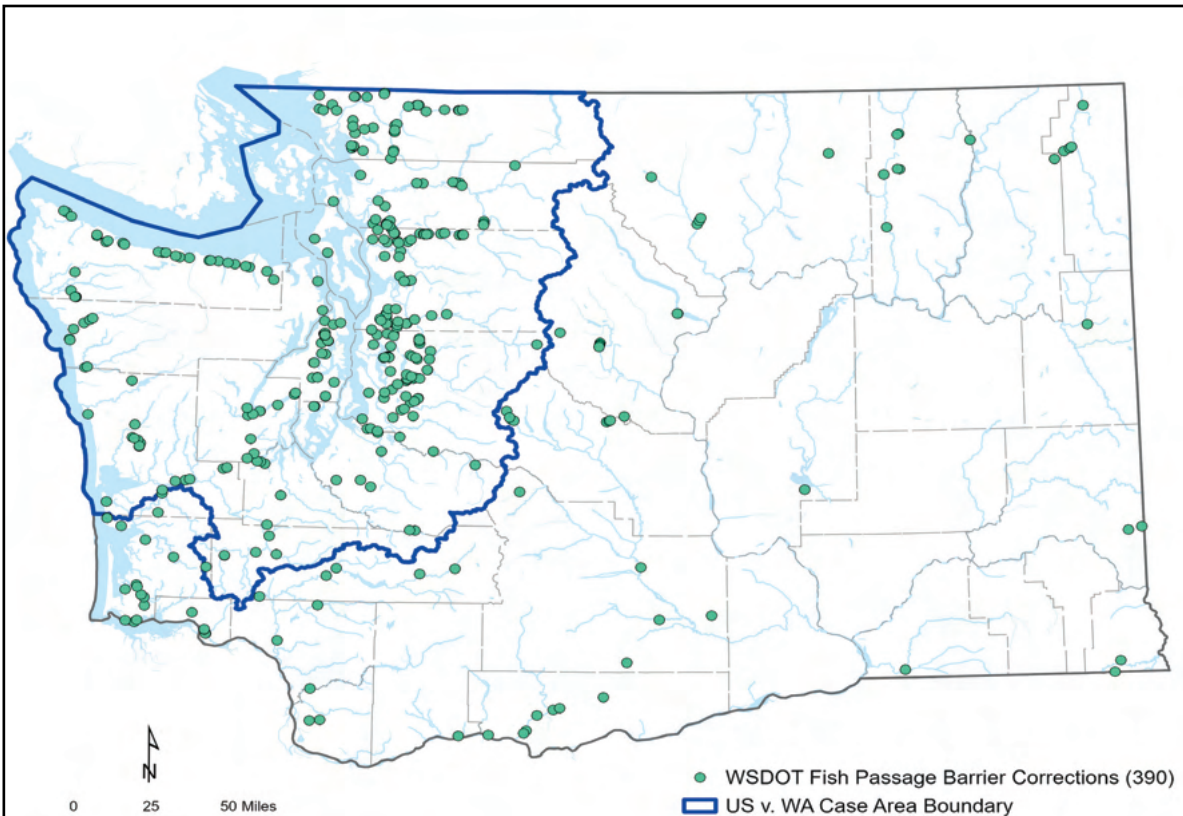


Figure 3. WSDOT fish passage barrier corrections since 1955





# 2022 Fish Passage Projects Completed

WSDOT completed 15 fish passage projects in 2022 (Figure 4, Table 1), opening an estimated 29.11 miles (46.85 kilometers) of potential upstream habitat. One project replaced an existing fish passable culvert with a structure meeting today's design standards as part of the installation of a new traffic circle for an intersection with State Route (SR) 9. Fourteen of the 15 projects corrected injunction barriers.

Table 2 shows a list of fish passage barrier corrections completed since 1955. Figure 3 is a map of these sites.

Figure 4. WSDOT fish passage projects completed in 2022

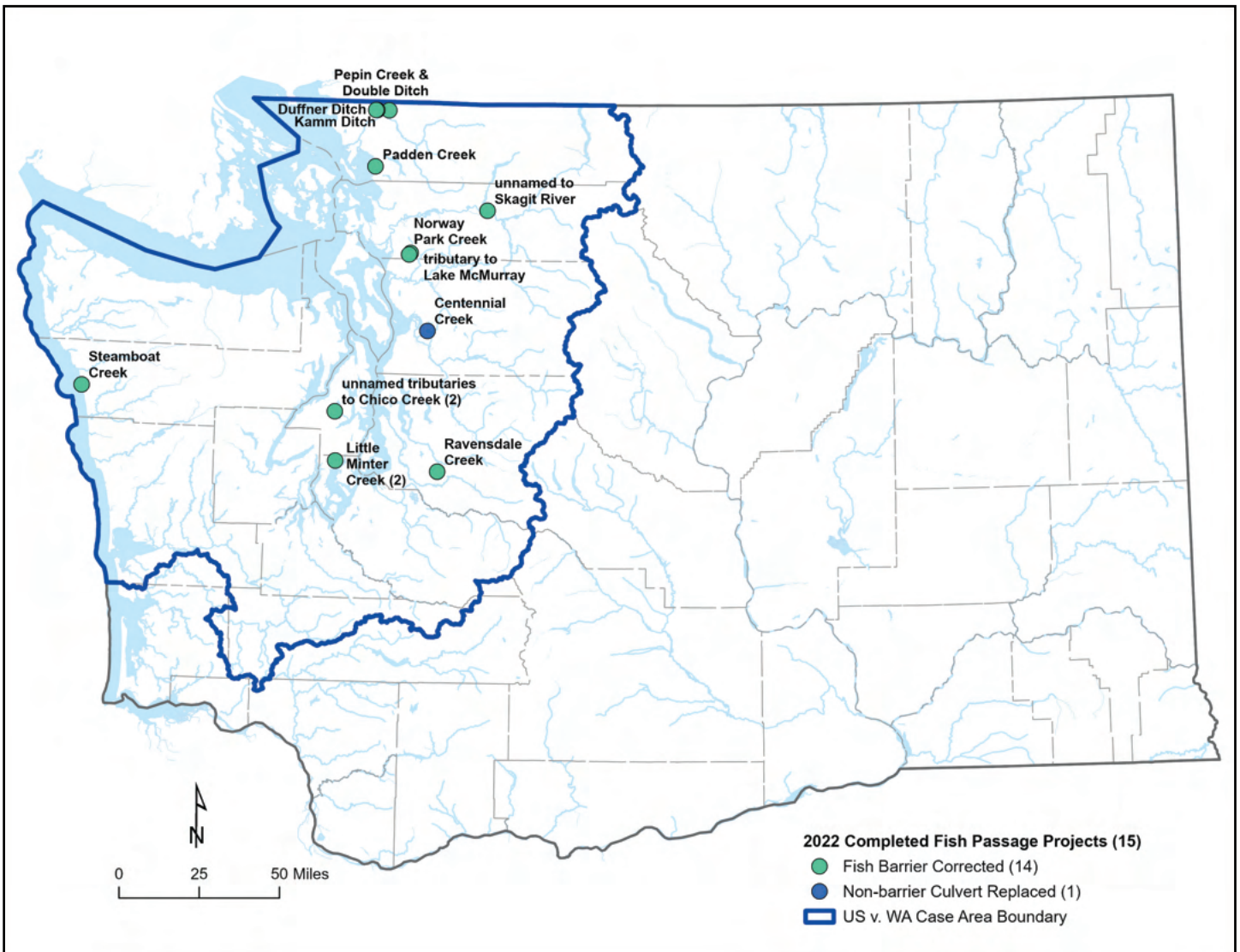


Table 1. Fish Passage Projects Completed in 2022. The fifteen projects listed below corrected fourteen barriers applicable to the Federal Court Injunction.

Site ID	Injunction Culvert	WSDOT Region	Road	MP	Stream	WRIA	Lineal Gain <sup>1</sup> (mi)	Incremental Gain <sup>1</sup> (mi)	Funding
994233	Yes	NW	I-5	250.55	Padden Creek	1	4.95	4.95	I4
931144	Yes	NW	SR 546	0.17	Duffner Ditch	1	0.64	0.64	I4
990510	Yes	NW	SR 546	0.46	Double Ditch	1	7.32	7.32	I4
996161	Yes	NW	SR 546	0.47	Pepin Creek	1	7.32	0.00 <sup>2, 4</sup>	I4
990223	Yes	NW	SR 546	4.21	Kamm Ditch	1	1.16	1.16	I4
990641	Yes	NW	SR 9	40.08	Lake Creek	3	1.54	1.54	I4
990091	Yes	NW	SR 9	41.04	Norway Park Creek	3	1.05	1.05	I4
JK2 <sup>3</sup>	Yes	NW	SR 20	91.30	tributary to Skagit River	4	0.81	0.81	I4
997695	Yes	NW	SR 169	9.95	Ravensdale Creek	9	2.33	2.33	I4
996794	Yes	OLY	Chico Way; SR 3 ROW	41.08	tributary to Chico Creek	15	0.79	0.79	I4
996795	Yes	OLY	SR 3; SB on-ramp	40.99	tributary to Chico Creek	15	0.92	0.12 <sup>2</sup>	I4
15.0051 0.10 <sup>3</sup>	Yes	OLY	SR 302	11.44	Little Minter Creek	15	3.79	0.10 <sup>2</sup>	I4
15.0051 0.20 <sup>3</sup>	Yes	OLY	SR 302	11.50	Little Minter Creek	15	3.69	3.69	I4
990400 <sup>3</sup>	Yes	OLY	US 101	162.60	Steamboat Creek	20	4.62	4.62	I4
935067 <sup>5</sup>	No	NW	Lake Stevens Rd	13.79	Centennial Creek	7	n/a	n/a	I1

**Total Gain: 40.93 mi 29.11 mi**

**Total Injunction Gain: 40.93 mi 29.11 mi**

<sup>1</sup> Lineal gain represents the amount of potential fish habitat upstream of a corrected barrier. Incremental habitat gain is reported for sites having other WSDOT barriers located upstream. Incremental habitat gain is the amount of potential fish habitat upstream to the next WSDOT barrier.

<sup>2</sup> Site with WSDOT barrier(s) upstream.

<sup>3</sup> Site previously corrected with a fishway.

<sup>4</sup> Gain reflected in 990510's value

<sup>5</sup> This site is not a fish barrier but was replaced with a structure that met current fish passage design standards.

Funding Codes:

I4 = Improvement

I1 = Mobility

Note: In our 2022 Annual Report, SR 544 tributary to Four Mile Creek site 996168 and SR 20 unnamed to Skagit River site 994308 were planned for completion in 2022. Due to unforeseen circumstances, construction has been delayed for these sites until the 23-25 biennium.



# Padden Creek, Tributary to Bellingham Bay

## Fish Passage Improvement with I4 Funding



Padden Creek, originating in nearby Lake Padden Park, empties into Bellingham Bay after crossing I-5 at MP 250.55 and flowing through the City of Bellingham in Whatcom County. The crossing was designed with terrestrial wildlife habitat connectivity features, including increased structure size and traversable benches adjacent to the stream channel. Wildlife migrating through protected lands known as the “Chuckanut Wildlife Corridor” will benefit from the new bridge crossing, which will reduce the rate of deer-vehicle collisions in the area. Black-tailed deer have already been documented using the structure to safely pass beneath the roadway.

### Before Construction



Figure 5. The previous structure was a 5 ft square concrete box culvert by 425 ft long. It was a total barrier due to slope and low flow depth.

### After Construction



Figure 6. The barrier was replaced with two 44 ft span bridges with a 64 ft setback wall in the median, restoring access to 2 miles of upstream habitat for chum, coho, steelhead, kokanee from Lake Padden, and coastal and resident trout.

# Duffner Ditch, Tributary to Bertrand Creek

## Fish Passage Improvement with I4 Funding

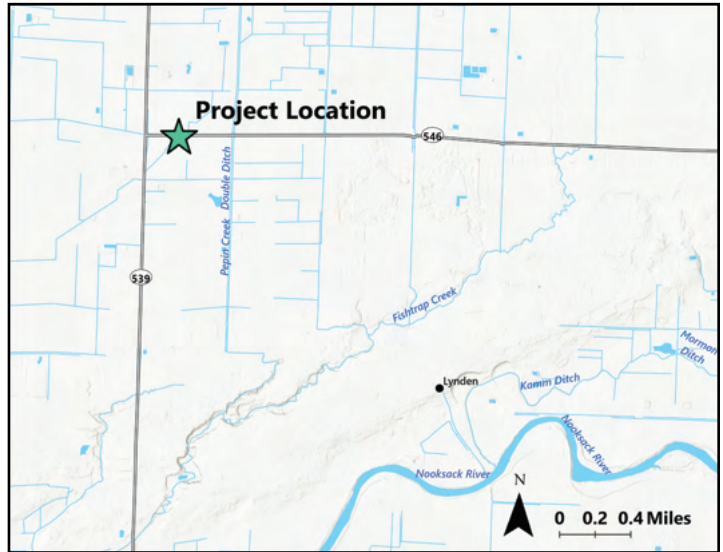
Duffner Ditch crosses SR 546 at MP 0.17 north of Lynden in Whatcom County and flows into Bertrand Creek, a tributary of the Nooksack River. The old culverts created a barrier to fish passage due to insufficient water depth. These culverts blocked access to rearing habitat for coho, steelhead, coastal and resident cutthroat trout.



### Before Construction



Figure 7. The old crossing under SR 546 consisted of two round 2 ft diameter concrete culverts.



### After Construction

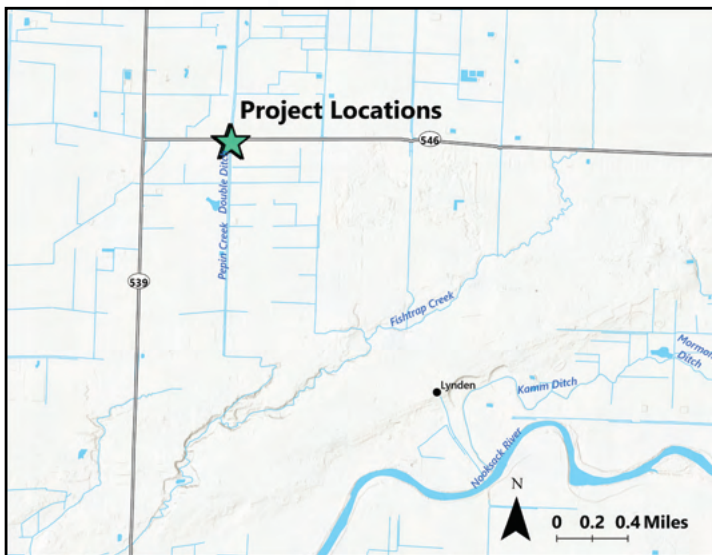


Figure 8. The new crossing is a 45 ft span by 7.5 ft rise concrete box culvert, providing fish passage to 0.64 miles of rearing habitat.



# Double Ditch and Pepin Creek, Tributaries to Fishtrap Creek

## Fish Passage Improvement with I4 Funding



Pepin Creek originates west of the City of Abbotsford, B.C., and splits at the Canada border into two parallel streams known as Pepin Creek and Double Ditch, which then flow south for approximately 7 miles before reaching SR 546. The channel on the west side of Double Ditch Rd is known as Double Ditch Creek and the channel on the east side of the road as Pepin Creek. Pepin Creek and Double Ditch both cross SR 546 at mileposts 0.47 and 0.46, respectively, and continue flowing parallel with each other for a mile south until they rejoin as a single Pepin Creek, which flows for another mile before entering Fishtrap Creek within the City of Lynden.

This project restored access to 7.32 miles of fish habitat upstream into Canada, benefitting pink, chum, Chinook, coho salmon, steelhead, coastal and resident cutthroat trout. Adult coho salmon were observed spawning upstream of the project in both Pepin Creek and Double Ditch one month after construction was completed.

### Before Construction

Figure 9. The old structures were two 6 ft span by 4 ft rise concrete box culverts that were identified as partial barriers due to low flow depth.



### After Construction

Figure 10. A 19 ft span by 9 ft rise concrete structure was constructed at Pepin Creek and a 15 ft span by 7.5 ft rise concrete structure was constructed at Double Ditch.



# Kamm Ditch, Tributary to Nooksack River

## Fish Passage Improvement with I4 Funding

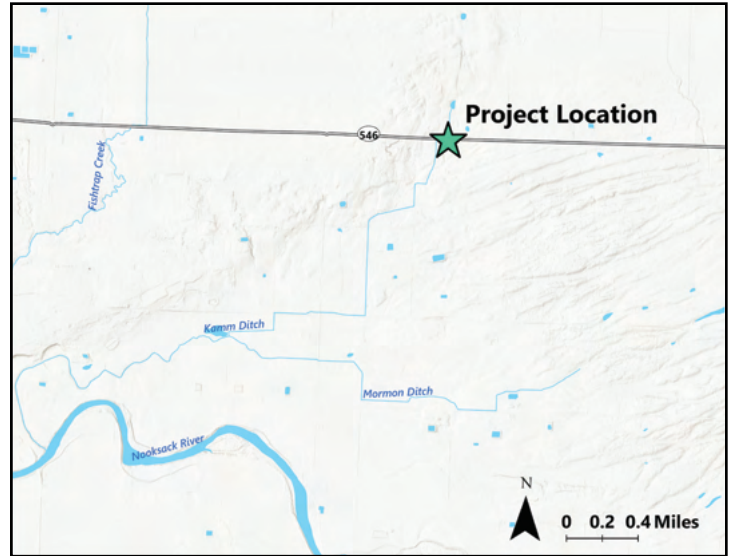
Kamm Ditch crosses SR 546 at MP 4.21 east of Lynden in Whatcom County and flows to the Nooksack River. The old culvert was a barrier to fish passage due to velocity and blocked access to 1.2 miles of rearing habitat for chum, coho, steelhead, coastal and resident cutthroat trout.



### Before Construction



Figure 11. The old crossing was a 6 ft span by 4 ft rise concrete culvert.



### After Construction



Figure 12. The new crossing is a 14 ft span by 8 ft rise concrete culvert.

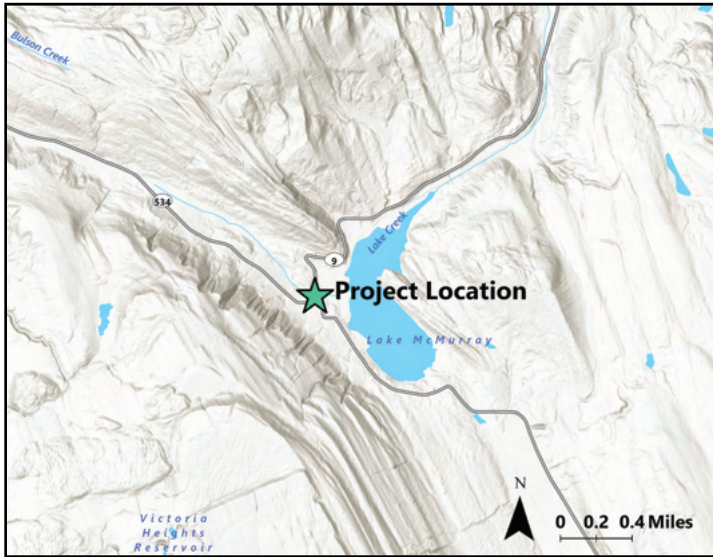


# Lake Creek, Tributary to Lake McMurray

## Fish Passage Improvement with I4 Funding



Lake Creek is a tributary to Lake McMurray in Skagit County within the lower Skagit River watershed. This waterbody hosts multiple salmonid species including coho, steelhead, cutthroat and resident trout. Juvenile coho have been observed on multiple occasions rearing in this stream over the past 20 years. This project opened 1.54 miles of stream habitat, including 1.14 acres of habitat suitable for salmonid rearing.



### Before Construction



Figure 13. The undersized crossing consisted of a round 3 ft diameter 41 ft long concrete pipe. This structure was a partial barrier due to the slope of the pipe exceeding fish passable standards.

### After Construction



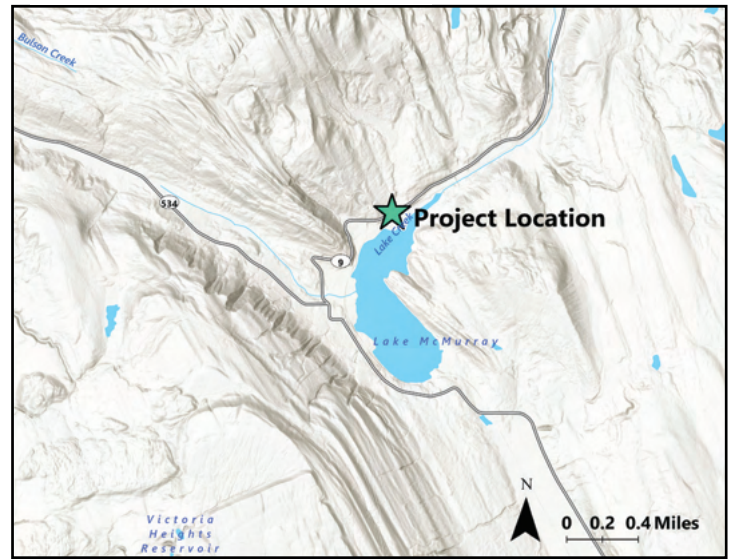
Figure 14. The new crossing is a 26 ft span by 10.6 ft rise concrete culvert and is 35 ft long.



# Norway Park Creek, Tributary to Lake McMurray

## Fish Passage Improvement with I4 Funding

Norway Park Creek, a tributary to Lake McMurray in Skagit County flows into Lake Creek, Big Lake, Nookachamps Creek and ultimately to the Skagit River. Before this project, coho adults and juveniles were known to gather downstream of this crossing and struggle to pass the undersized structure. The structure crosses under SR 9 at MP 41.04. This project opened 1.05 miles of upstream habitat. Coho, steelhead, coastal and resident cutthroat trout are all known to utilize Norway Park Creek.



## Before Construction



Figure 15. The previous crossing was a 2.5 ft diameter by 145 ft long corrugated metal pipe culvert which was a barrier to salmonid passage due to both inadequate water depths and unacceptably high water velocities. Before this barrier removal project, this site was also frequently obstructed with debris and posed a maintenance problem.

## After Construction



Figure 16. New 3-sided concrete water crossing structure is 80.5 ft in long and 16 ft wide.

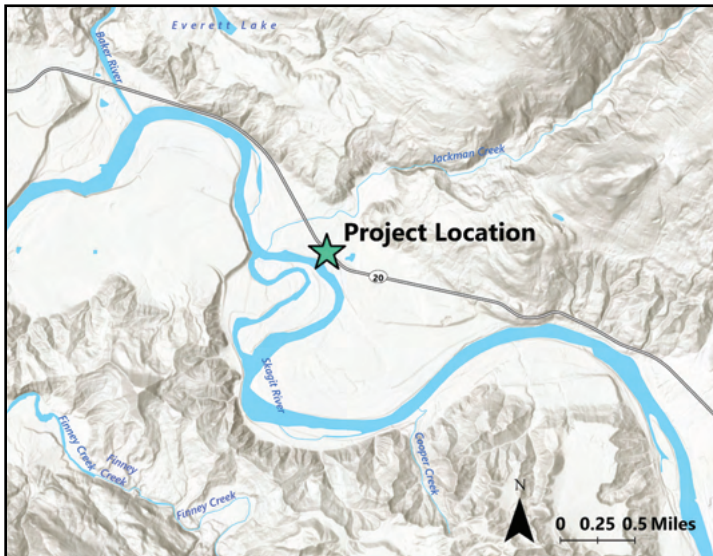


# Unnamed Tributary to Skagit River

## Fish Passage Improvement with I4 Funding



This unnamed stream is located in Concrete, Washington and crosses under SR 20 at MP 91.30 before flowing into the Skagit River. This project restored access to 0.81 miles of stream including habitat suitable for spawning and rearing for coho, steelhead, coastal and resident trout.



### Before Construction



Figure 17. The old crossing was a 2 ft diameter and 300 ft long mixed material pipe with a slope of 3.05%. This crossing was considered a total barrier due to slope. Before construction, the upstream channel flowed along SR 20 in a ditch and under 3 driveways that were each fish passage barriers.

### After Construction



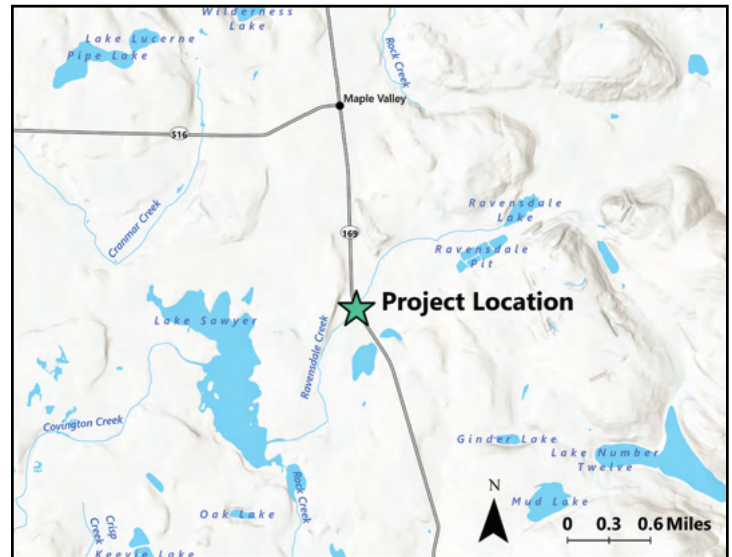
Figure 18. The new crossing is a 13 ft wide by 9.6 ft rise by 40 ft long concrete box culvert. The project design realigned the stream to avoid passing through the 3 barrier driveway culverts.



# Ravensdale Creek, Tributary to Lake Sawyer

## Fish Passage Improvement with I4 Funding

Ravensdale Creek is a tributary of Lake Sawyer and crosses SR 169 at MP 9.95 as it flows through a large groundwater fed wetland complex. This site has been identified by the King County Wildlife Habitat Network as an important habitat linkage. To allow for safe movement of animals, a wildlife bench was established under the bridge and vertical clearance of the structure was maximized to increase the openness ratio suitable for larger animals. WSDOT partnered with King County who received funding through the Brian Abbott Fish Barrier Removal Board to correct two county-owned culverts immediately downstream of SR 169. Correcting all three barriers concurrently minimized repeated impacts to the environment and the traveling public. This project promotes wetland function and restores access to nearly 2 miles of upstream habitat for chum, Chinook, coho, steelhead, coastal and resident trout.



### Before Construction



Figure 19. The structure removed was a 6 ft span by 5 ft rise concrete box culvert.

### After Construction



Figure 20. The new structure under SR 169 is a 113 ft long bridge. After construction, numerous juvenile salmonids were observed upstream of the project.



# Unnamed Tributaries to Chico Creek

## Fish Passage Improvement with I4 Funding



This unnamed tributary of Chico Creek was reconstructed as part of an interchange improvement project for the SR 3/Chico Way NW exit in Kitsap County. The stream was realigned to eliminate crossing SR 3 and instead crosses Chico Way NW, allowing for a shorter structure (996794). A second WSDOT crossing (996795) was abandoned as part of the stream realignment. This project also includes correction of the Chico Creek mainstem culvert under SR 3. That barrier correction will be finished in 2023.

### Before Construction



Figure 21. The old crossing for 996794 was a 2 ft diameter culvert and the old crossing for 996795 was a 3 ft diameter corrugated aluminum culvert.

### After Construction



Figure 22. The new crossing under Chico Way NW is a 41.8 ft bridge, restoring access to 0.8 miles of habitat for chum, coho, steelhead, coastal and resident cutthroat trout.



# Little Minter Creek, Tributary to Minter Creek

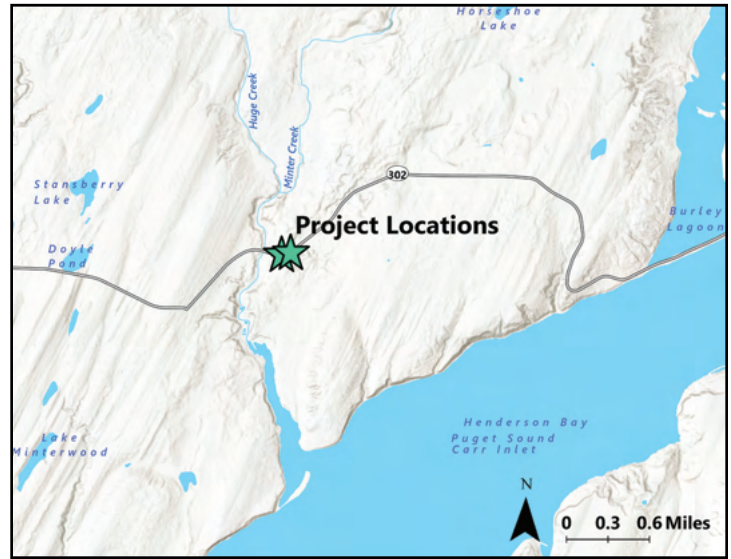
## Fish Passage Improvement with I4 Funding

Little Minter Creek is a tributary to Minter Creek located on the Kitsap Peninsula near the town of Purdy and crosses SR 302 at MP 11.44 (lower) and 11.5 (upper). This project builds upon correction of the Minter Creek bridge which occurred in 2021 and restores access to an additional 3.8 miles of habitat. Chum, coho, steelhead, coastal and resident cut-throat trout are expected to benefit from this barrier correction.

### Before Construction



Figure 23. Both old crossings were 6 ft span by 4 ft rise concrete box culverts with an attached fishway consisting of 4 steel baffles inside the culvert and bed controls downstream of each structure. The lower culvert was a barrier due to an excessive water surface drop. The upper was a barrier due to insufficient water depth after the bed controls failed.



### After Construction



Figure 24. The new lower crossing is a 18.9 ft span by 14 ft rise concrete box culvert. The new upper crossing is also a concrete box culvert, 18.3 ft span by 14 ft rise.



# Steamboat Creek, Tributary to Pacific Ocean

## Fish Passage Improvement with I4 Funding

Steamboat Creek is a large tributary to the Pacific Ocean crossing US 101 at MP 162.6. This project corrects the only documented fish passage barrier in the Steamboat Creek watershed, restoring access to 4.6 miles of spawning and rearing habitat upstream within Olympic National Park for coho, steelhead, coastal and resident cutthroat trout.



## Before Construction



Figure 25. The old crossing was a triple cell concrete box culvert with each cell measuring 6 ft span by 6 ft rise that was retrofitted in 1998 with a baffled fishway in each cell to facilitate fish passage. The fishway was assessed as a barrier due to excessive water surface drop at the outlet.



## After Construction



Figure 26. The new crossing is a 208 ft bridge. Adult coho salmon were observed spawning upstream of the new bridge in November 2022.



# Centennial Creek, Tributary to Pilchuck River

## Fish Passage Improvement with I1 Funding



Centennial Creek is a tributary of the Pilchuck River, crossing Lake Stevens Road within the SR 9 right-of-way (ROW) at MP 13.79 in Lake Stevens. The existing culvert was assessed as 100% fish passable, however it was replaced with a structure meeting today's design standards as part of the installation of a new traffic circle for the intersection with SR 9.

### Before Construction



Figure 27. The old crossing was a 2.5 ft diameter concrete culvert.

### After Construction



Figure 28. The new crossing is a 19 ft span by 5.6 ft rise concrete box culvert. The design reach immediately downstream of the new culvert is constructed of hardened step pools to connect the flat gradient of the headwater plateau where the project is located down a steep embankment to a wetland downstream. Juvenile salmonids were observed migrating through the step pools in May 2023.

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Table 2. WSDOT Fish Passage Barrier Corrections Completed. Sorted by Year, Region, Road, and Milepost.

WSDOT Region	Site Id	Road	MP	Stream	WRIA	Year Fixed	Potential Habitat Gain <sup>1</sup> (mi)	Project Cost \$ <sup>2</sup>
OL	990480	SR 112	49.48	Whiskey Creek	19	1955	1.69	
OL	14.0010 0.10	US 101	356.8	Countyline Creek	14	1985	0.47	
NW	08.0049 3.00	I-5 NB	177.67	McAleer Creek	8	1986	0.09	
OL	14.0009A 0.06	US 101	357.9	Holiday Valley Creek	14	1986	1.10	
NW	03.0354A 0.04	SR 20	77.7	Little Careys Creek	3	1987	0.53	
NW	996965	I-90	20.42	tributary to EF Issaquah Creek	8	1990	1.14	
OL	990448	US 101	246.4	Tumwater Creek	18	1991	5.55	19,991
NW	990142	SR 202	11.96	Evans Creek	8	1992	4.71	319,044
OL	990323	SR 3	33.7	Parish Creek	15	1992	1.00	14,835
SW	990171	SR 6	8.9	Green Creek	24	1992	1.10	8,000
NW	995411	I-5	246.75	Chuckanut Creek	1	1993	0.71	
NW	01.0626 0.35	SR 11	18.6	Chuckanut Creek	1	1993	4.78	68,788
NW	991712	US 2	18	tributary to Skykomish River	7	1993	1.07	60,000
OL	15.0280 1.00	SR 308	1.15	Big Scandia Creek	15	1993	4.00	
NW	990014	SR 542	3.5	Squalicum Creek	1	1994	2.95	68,000
NW	08.0302 0.00	SR 169	23.62	Maplewood Creek	8	1994	1.20	
NW	08.0077 0.20	SR 527	6.57	Penny Creek	8	1994	8.36	
SC	990189	US 97	37.14	Highbridge Springs	37	1994	0.70	
SW	990363	US 101	29.8	SF Nemah River	24	1994	2.71	34,986
NW	990644	SR 530	31.01	tributary to Stillaguamish River	5	1995	0.81	
NW	991168	SR 530	31.9	tributary to Stillaguamish River	5	1995	0.12	
NW	990272	SR 104	29.65	McAleer Creek	8	1995	3.32	
NW	08.0070A 0.01	SR 527	4	Sulphur Springs Creek	8	1995	0.20	
NW	08.0075 0.70	SR 527	4.46	Silver Creek No2	8	1995	1.60	
NW	08.0070B 0.30	SR 527	6.32	Nickel Creek	8	1995	0.80	
OL	996952	SR 160	3.8	Curley Creek	15	1995	10.13	
OL	990219	US 101	267.18	Johnson Creek	17	1995	4.51	121,945
NW	991154	SR 530	55.07	Hatchery Creek	4	1996	0.22	
NW	991153	SR 530	55.9	tributary to Skagit River	4	1996	0.07	
NW	990271	SR 530	29.63	Mc Govern Creek	5	1996	5.29	
NW	991162	SR 530	31.2	tributary to NF Stillaguamish River	5	1996	0.12	
NW	991164	SR 530	32.51	tributary to NF Stillaguamish River	5	1996	0.10	
NW	991519	SR 18	19.59	tributary to Carey Creek	8	1996	1.09	
NW	990064	SR 18	19.76	Carey Creek	8	1996	11.32	
OL	990348	SR 112	3.99	Rasmussen Creek	19	1996	0.82	545,699
OL	990197	US 101	171.7	Huelsdonk Creek	20	1996	0.71	18,594
OL	990169	US 101	189.4	Grader Creek	20	1996	2.79	189,964
EA	990350	SR 20	388.13	Renshaw Creek	62	1997	0.07	
EA	990351	SR 20	389.5	Renshaw Creek	62	1997	0.73	
NW	991155	SR 530	54.6	Lyle Creek	4	1997	1.30	
NW	990390	SR 18	8.9	Soosette Creek	9	1997	4.71	
OL	990224	SR 3	57.1	Kinman Creek	15	1997	2.25	365,902
OL	990164	US 101	186.3	Fuhrman Creek	20	1997	0.36	
OL	990156	US 101	186.41	Frakker Creek	20	1997	0.12	
OL	990716	US 101	186.45	tributary to Frakker Creek	20	1997	0.12	
OL	991512	US 101	186.7	Forgotten Marsh	20	1997	0.16	
OL	991501	US 101	103.65	tributary to Big Creek - new fishway built in 1997; fishway tune up in 2003	22	1997	2.13	126,327
OL	991581	US 101	104.9	tributary to Fairchild Creek	22	1997	3.39	198,126
OL	990143	US 101	105.6	Fairchild Creek	22	1997	2.63	195,742
OL	22.0349 0.70	US 12	12.36	Camp Creek	22	1997	6.20	
SW	992462	US 101	28.92	Roaring Creek Slough	24	1997	0.26	
EA	990250	SR 20	384.95	Lost Creek	62	1998	16.16	
NW	05.0021 4.10	I-5	216.73	WF Church Creek	5	1998	4.47	17,101
NW	07.0383A 0.50	SR 202	13.8	Dry Creek	7	1998	1.75	
NW	101S-23	SR 203	7.83	tributary to Harris Creek	7	1998	3.14	
NW	994239	SR 520	6.27	Yarrow Creek	8	1998	0 <sup>4</sup>	
NW	997679	SR 509	24.42	Miller Creek	9	1998	3.59	
OL	990278	SR 108	8.89	McDonald Creek	14	1998	3.67	260,615
OL	991852	SR 303	6.9	Barker Creek	15	1998	2.76	
OL	990121	SR 305	12.8	Dogfish Creek	15	1998	0.08	

WSDOT Region	Site Id	Road	MP	Stream	WRIA	Year Fixed	Potential Habitat Gain <sup>1</sup> (mi)	Project Cost \$ <sup>2</sup>
OL	991263	US 101	162.15	Big Cedar Creek - baffles installation in 1998; baffles re-installed 2001	20	1998	1.46	121,328
OL	991502	US 101	101.1	tributary to SB Big Creek	22	1998	1.62	250,899
OL	991532	US 12	13.8	tributary to Chehalis River	22	1998	2.39	
SW	990119	SR 14	55.8	Dog Creek	29	1998	0.08	
SW	990211	SR 14	66	Jewett Creek	29	1998	0.13	413,000
SW	990116	SR 142	5.2	Dillacort Creek	30	1998	0.60	
NC	990149	SR 971	8.9	First Creek	47	1999	10.56	287,000
NC	990145	SR 971	9.1	First Creek	47	1999	0.01	287,000
NW	990433	SR 900	19.5	Tibbets Creek	8	1999	1.10	147,000
OL	990249	US 101	174	Lost Creek	20	1999	0.83	
OL	991270	SR 109	36.43	tributary to Pacific Ocean	21	1999	1.91	189,566
OL	991690	US 101	111.9	tributary to Stevens Creek	22	1999	0.60	
SW	991698	US 101	24.13	tributary to Willapa Bay	24	1999	0.41	
SW	990035	SR 4	35.6	Birnie Creek	25	1999	2.44	67,570
SW	992272	I-5	42.4	tributary to Cowlitz River	26	1999	0.74	
SW	990948	US 12	127.44	Dry Creek	26	1999	3.38	
EA	990881	SR 20	380.1	tributary to Lake Thomas	59	2000	0.35	
EA	992006	SR 21	172.17	Lambert Creek	60	2000	11.97	
NC	980108	SR 153	29.28	Beaver Creek	48	2000	1.86	765,461
NW	991708	SR 20	90.13	tributary to Skagit River	4	2000	0.17	
NW	990622	I-5	211.5	Secret Creek	5	2000	2.26	45,107
NW	990294	SR 528	2.52	Munson Creek	7	2000	1.24	
NW	990262	SR 522	1.87	Maple Leaf Creek	8	2000	1.46	
NW	105 R071916a	SR 410	48.29	Boundary Creek	10	2000	0.37	
OL	990910	SR 106	6.95	Dalby Creek	14	2000	0.53	
OL	990466	US 101	246.9	Valley Creek	18	2000	1.26	102,297
OL	991295	SR 105	31.1	tributary to South Bay	22	2000	0.22	
SC	990436	US 97	57.2	Toppenish Creek	37	2000	13.13	
SW	991684	SR 506	2.33	tributary to Stillwater Creek	26	2000	0.80	99,000
EA	990312	SR 20	309.31	O'Brien Creek	52	2001	7.28	302,000
EA	990299	SR 20	309.96	NF O'Brien Creek	52	2001	0.13	302,000
EA	990300	SR 20	310.06	NF O'Brien Creek	52	2001	0.92	302,000
NC	990381	US 2	87.1	Skinney Creek	45	2001	1.90	480,000
NC	990382	US 2	87.67	Skinney Creek	45	2001	0.30	480,000
NC	990383	US 2	88.03	Skinney Creek	45	2001	0.30	480,000
NW	DM10	SR 20	114.94	Damnation Creek	4	2001	1.48	
OL	991797	SR 3	25.31	Sweetwater Creek	15	2001	0.68	261,000
OL	991729	SR 112	19.56	tributary to Clallam River	19	2001	0.13	
OL	991545	SR 112	19.89	tributary to Clallam River	19	2001	0.13	
SW	990220	SR 4	4.5	Johnson Creek	24	2001	2.12	269,000
SW	991397	SR 4	25.91	tributary to Skamokawa River	25	2001	0.15	
SW	990036	SR 409	3.85	Birnie Creek	25	2001	0.09	322,000
SW	991440	SR 503	49.03	Kenyon Creek	27	2001	0.89	224,000
SW	992271	SR 142	3.65	Knight Creek	30	2001	7.19	
NC	990202	US 97	158.32	Iron Creek	39	2002	8.60	
NW	991741	SR 534	1.2	tributary to Bulson Creek	3	2002	4.93	790,555
NW	NC180	SR 9	39.69	tributary to Lake McMurray	3	2002	0.22	
NW	NC170	SR 9	39.87	tributary to Lake McMurray	3	2002	0.18	
NW	995398	SR 9	69.88	tributary to Samish River	3	2002	0.22	
NW	990291	SR 530	44	Moose Creek	5	2002	4.15	140,000
NW	990317	SR 530	44.27	Fink Creek	5	2002	4.15	140,000
NW	990344	SR 9	28.38	Portage Creek	5	2002	4.42	
NW	991166	SR 9	32.2	Bryant Creek	5	2002	0.34	
NW	LP23	SR 9	35.46	tributary to Pilchuck Creek	5	2002	0.32	
NW	LP27	SR 9	35.52	tributary to unnamed tributary	5	2002	0.19	
NW	LP28	SR 9	35.7	tributary to unnamed tributary	5	2002	0.12	
NW	990625	SR 9	38.57	tributary to Pilchuck Creek tributary	5	2002	0.66	
NW	LP32	SR 9	38.69	tributary to unnamed tributary	5	2002	0.38	
NW	08.0268	0.80 I-405	10.12	Coal Creek	8	2002	5.12	155,710
NW	993115	I-405	29.67	Martha Creek	8	2002	1.75	



Table 2. (Continued)

WSDOT Region	Site Id	Road	MP	Stream	WRIA	Year Fixed	Potential Habitat Gain <sup>1</sup> (mi)	Project Cost \$ <sup>2</sup>
NW	08.0110 0.10	SR 202	11.05	Rutherford Creek	8	2002	1.10	
SC	990440	SR 241	9.17	tributary to Sulphur Creek Wasteway	37	2002	2.57	
SC	990409	SR 410	82.8	Wash Creek	38	2002	0.14	
SW	990071	SR 401	8.8	Cement Creek	24	2002	4.02	200,000
EA	990180	SR 21	155.06	Golden Harvest Creek	52	2003	13.53	
NW	995977	SR 20	25.77	tributary to Penn Cove	6	2003	0.79	
NW	101S-27	SR 203	12.76	Deer Creek	7	2003	0.73	
NW	08.0183 1.00	I-90	17	EF Issaquah Creek	8	2003	0.89	
NW	991189	SR 527	6.99	tributary to North Creek	8	2003	0.31	
NW	995981	SR 9	0.88	tributary to Little Bear Creek	8	2003	0.47	
NW	991199	SR 167	23.65	Upper Springbrook Creek	9	2003	0.53	
NW	990208	SR 18	12.7	Jenkins Creek	9	2003	10.18	
NW	990209	SR 18	13.8	Jenkins Creek	9	2003	5.10	
OL	161180	US 101	167.44	Fletcher Creek	20	2003	1.36	19,005
SW	990377	US 12	81.22	Silver Creek	26	2003	4.22	527,000
NW	990434	SR 542	15.32	Jim Creek	1	2004	0.59	
NW	995578	SR 542	44.14	tributary to NF Nooksack River	1	2004	0.12	
NW	995580	SR 542	44.34	tributary to NF Nooksack River	1	2004	0.12	
NW	995584	SR 542	45.57	Happy Valley Creek	1	2004	0.45	
NW	990136	SR 11	6.84	Edison Slough	3	2004	8.78	
NW	994411	I-90	15.48	Tibbets Creek	8	2004	4.23	5,536,555
NW	105 S012018a	SR 509	10.71	Lakota Creek	10	2004	1.32	
OL	115 MC176	SR 106	7.06	Alderbrook Creek	14	2004	0.57	
OL	990370	US 101	359.6	Schneider Creek	14	2004	7.21	
OL	17.0285 0.20	US 101	270.98	Jimmycomelately Creek	17	2004	6.46	1,282,482
OL	18.0234 1.10	US 101	250	Ennis Creek	18	2004	5.56	58,165
OL	19.0110 0.50	SR 112	32.02	Jim Creek	19	2004	8.76	870,000
SW	992311	US 101	53.56	Old Mill Pond Creek	24	2004	0.39	
NC	992058	SR 262	13.19	Irrigation Ditch to Potholes Reservoir	41	2005	6.84	
NC	990228	SR 20	181.34	Little Boulder Creek	48	2005	3.14	567,336
NW	995582	SR 542	45.51	Happy Valley Creek	1	2005	0.10	
NW	992374	SR 522	18.44	tributary to Evans Creek	7	2005	1.67	
NW	990016	SR 522	18.77	tributary to unnamed tributary	7	2005	0.23	
NW	991821	SR 92	0.47	Stevens Creek	7	2005	1.29	634,398
NW	991576	SR 18	18.19	Taylor Creek	8	2005	1.06	
NW	990426	SR 18	18.43	Taylor Creek	8	2005	1.02	
NW	102 N171	SR 527	7.38	Mill Creek	8	2005	0.70	
NW	993087	SR 527	9.33	tributary to Penny Creek	8	2005	0.12	
NW	991620	SR 161	33.9	tributary to EF Hylebos Creek	10	2005	1.33	
OL	991636	SR 706	8.02	tributary to Nisqually River	11	2005	4.51	
OL	991227	SR 706	9.81	tributary to Nisqually River	11	2005	0.21	
OL	990384	SR 106	0.85	Skobob Creek	16	2005	0.89	1,731,000
OL	991275	US 101	130.6	tributary to Ten O'Clock Creek	21	2005	0.15	
EA	991471	SR 31	18.22	Three Mile Creek	62	2006	4.77	
NC	990282	US 2	70.21	Mill Creek	45	2006	7.18	1,674,411
NC	980114	SR 20	205.84	Beaver Creek	48	2006	50.11	700,915
NC	980124	SR 20	206.85	Frazer Creek	48	2006	7.64	700,915
NW	370220	SR 9	96.1	Easterbrook Creek	1	2006	0.47	
NW	370219	SR 9	96.6	Bone Creek	1	2006	2.27	
NW	995979	SR 20	14.65	Crockett Lake	6	2006	1.78	
NW	990376	I-405	19.12	Forbes Creek	8	2006	2.93	
NW	08.0320 1.30	SR 18	16.94	Downs Creek - culvert replacement in 2006; fishway rebuild 2008	8	2006	2.42	
NW	995980	SR 9	0.97	tributary to Little Bear Creek	8	2006	0.31	
NW	990316	SR 9	1.16	Cutthroat Creek	8	2006	1.74	
OL	990998	SR 305	11.62	SF Dogfish Creek	15	2006	0 <sup>5</sup>	
OL	991853	SR 305	12.1	SF Dogfish Creek	15	2006	0 <sup>5</sup>	
OL	996943	SR 305	12.16	SF Dogfish Creek	15	2006	0 <sup>5</sup>	
OL	991854	SR 305	12.29	SF Dogfish Creek	15	2006	0 <sup>5</sup>	
OL	15.0285 H 0.50	SR 305	12.34	SF Dogfish Creek	15	2006	0.99	
OL	990714	SR 112	24.91	tributary to Pysht River	19	2006	1.00	647,773

Table 2. (Continued)

WSDOT Region	Site Id	Road	MP	Stream	WRIA	Year Fixed	Potential Habitat Gain <sup>1</sup> (mi)	Project Cost \$ <sup>2</sup>
OL	990713	SR 112	54.35	Bear Creek	19	2006	2.32	666,151
SW	992223	SR 142	13.4	Snyder Canyon Creek	30	2006	3.89	0 <sup>6</sup>
SW	30.0068 0.40	SR 142	20.2	Bowman Creek	30	2006	22.79	1,495,495
EA	995837	SR 270	4.29	tributary to Paradise Creek	34	2007	4.62	
EA	999625	SR 270	9.08	tributary to Paradise Creek	34	2007	1.61	
NC	995038	US 2	57.8	tributary to Tye River	7	2007	0.13	
NC	994035	SR 20	278.6	Bonaparte Creek	49	2007	10.99	
NW	990578	SR 542	28.3	tributary to Boulder Creek	1	2007	0.35	
NW	981788	SR 548	6.35	Terrell Creek	1	2007	4.26	
NW	07.0148 1.30	SR 92	1.93	Catherine Creek	7	2007	4.55	377,749
NW	08.0059 7.00	I-405	29.75	Swamp Creek	8	2007	0.39	436,324
NW	993090	I-5	182.73	Swamp Creek	8	2007	6.69	433,648
NW	996459	SR 524	13.05	Whistle Creek	8	2007	0.16	
OL	991566	SR 303	5.6	Steele Creek	15	2007	1.99	
OL	990122	SR 307	0.07	Dogfish Creek	15	2007	4.32	
SC	990988	SR 24	1.07	Blue Slough	37	2007	2.30	
NW	991109	SR 539	2.06	tributary to Spring Creek	1	2008	0.24	
NW	990112	SR 539	4.3	Deer Creek	1	2008	4.73	
NW	FD41	SR 20	44.74	Meadow Creek	3	2008	5.10	
NW	991817	SR 9	31.61	tributary to Bryant Creek	5	2008	0.48	
NW	995209	SR 96	3.96	tributary to unnamed tributary	7	2008	0.04	
NW	991641	SR 524	9.1	Filbert Creek	8	2008	0.71	
SC	999499	US 12	319.35	Touchet River	32	2008	0 <sup>7</sup>	
SW	994652	I-5	11	tributary to Gee Creek	27	2008	1.28	
NW	990046	SR 542	28.01	Bruce Creek	1	2009	1.86	
NW	990023	SR 542	28.74	Baptist Camp Creek	1	2009	0.32	495,103
NW	991751	SR 531	3.8	Cougar Creek	5	2009	0.48	
NW	991184	SR 900	20.09	Clay Creek	8	2009	0.12	
NW	991723	SR 900	20.34	tributary to Tibbetts Creek	8	2009	0.40	
OL	998155	SR 16	20.06	tributary to Burley Creek	15	2009	0.11	
OL	993576	SR 16	20.2	tributary to Burley Creek	15	2009	0.12	
OL	991244	SR 106	2.95	tributary to Skokomish River	16	2009	0.27	1,270,093
OL	992196	SR 104	12.7	tributary to Squamish Harbor	17	2009	1.13	1,475,868
OL	991908	US 101	76.48	Mosquito Creek	24	2009	2.21	1,357,943
SW	994286	I-5	74.05	Berwick Creek	23	2009	7.19	
SW	992234	SR 122	4.99	tributary to Mayfield Lake	26	2009	1.15	385,839
EA	997498	US 2	296.35	Deadman Creek	55	2010	57.29	
NW	991060	SR 542	16.07	tributary to Nooksack River	1	2010	0.12	
NW	990606	SR 542	38.98	Chain-up Creek	1	2010	0.17	1,289,251
OL	990709	SR 305	9.6	tributary to Liberty Bay	15	2010	1.74	2,887,452
OL	991742	SR 305	9.86	Bjorgen Creek	15	2010	0.94	3,546,564
OL	991252	US 101	335.02	tributary to Hood Canal	16	2010	0.13	
SW	931450	SR 105	24.26	tributary to Seastrand Creek	24	2010	0 <sup>8</sup>	
SW	993139	SR 105	24.42	tributary to Seastrand Creek	24	2010	0 <sup>8</sup>	
SW	992821	US 101	3.3	tributary to Columbia River	24	2010	0.87	
NW	990429	SR 548	4.67	Terrell Creek	1	2011	7.03	1,569,358
NW	AR11	SR 20	75.75	Red Cabin Creek	3	2011	8.70	3,610,665
NW	07.0939 0.40	US 2	23.08	Wagleys Creek	7	2011	9.39	726,441
NW	994459	SR 520	4.48	tributary to Lake Washington	8	2011	1.49	
NW	998987	SR 520	4.81	tributary to Lake Washington	8	2011	0.62	
NW	994119	SR 520	5.81	tributary to Yarrow Creek	8	2011	0.32	
OL	990729	US 101	100.9	tributary to SB Big Creek	22	2011	0.75	845,786
OL	990032	US 101	102.14	tributary to SB Big Creek	22	2011	2.52	1,062,966
OL	999532	I-5	85.81	tributary to Dry Creek	23	2011	0.99	
OL	992493	US 101	68.99	tributary to Lower Salmon Creek	24	2011	2.86	1,505,251
SW	990307	SR 105	16.57	Norris Slough	24	2011	1.55	3,023,493
EA	990096	SR 21	172.85	Curlew Creek	60	2012	14.86	
NW	990151	SR 530	42.99	Fortson Creek	5	2012	0.64	1,852,338
NW	08.0183 1.60	I-90	18.83	EF Issaquah Creek	8	2012	6.88	3,337,235
NW	996930	ROW	1.03	tributary to Sammamish River	8	2012	0.03	
NW	994234	SR 520	5.95	Yarrow Creek	8	2012	3.99	



Table 2. (Continued)

WSDOT Region	Site Id	Road	MP	Stream	WRIA	Year Fixed	Potential Habitat Gain <sup>1</sup> (mi)	Project Cost \$ <sup>2</sup>
NW	994227	SR 520	5.95	Yarrow Creek	8	2012	0 <sup>4</sup>	
NW	991736	SR 520	6.04	Yarrow Creek	8	2012	0 <sup>4</sup>	
NW	931684	SR 9	2.65	tributary to Great Dane Creek	8	2012	0.12	
NW	991486	SR 167	25.65	Panther Creek <sup>3</sup>	9	2012	3.72	
OL	991730	SR 112	25.6	tributary to Pysht River	19	2012	2.08	996,662
OL	990304	SR 112	47.1	Nelson Creek	19	2012	2.91	2,031,115
SW	994301	I-5	81.77	China Creek	23	2012	5.15	
SW	990052	US 97	21.35	Butler Creek	30	2012	13.71	3,634,545
EA	990362	SR 21	133.6	S Nanamkin Creek	52	2013	15.97	
NC	991849	US 2	88.54	Skinney Creek	45	2013	0.45	
NW	991036	I-5	255.40	Squalicum Creek	1	2013	17.70	1,516,068
NW	994389	SR 11	20.42	Padden Creek <sup>12</sup>	1	2013	1.84	2,899,049
NW	991448	SR 9	67.33	NP Creek	3	2013	1.31	1,220,015
NW	994449	SR 520	6.03	Yarrow Creek	8	2013	0.51	
NW	994705	SR 520	6.44	SF Yarrow Creek	8	2013	0.44	
OL	991215	SR 162	4.82	Ball Creek	10	2013	1.54	
OL	990297	SR 7	41.17	Muck Creek	11	2013	5.21	2,065,841
OL	991246	SR 106	13.50	Twanoh Falls Creek	14	2013	2.81	2,864,719
OL	990092	SR 112	57.61	Coville Creek	19	2013	9.76	1,754,881
OL	993048	SR 107	0.76	tributary to Little North River	24	2013	0.00	
SC	992942	I-90	56.81	Rocky Run Creek	39	2013	0.16	
SW	993138	SR 105	24.39	Seastrand Creek <sup>12</sup>	24	2013	0.00	
SW	992228	US 12	115.29	tributary to Cowlitz River	26	2013	0.00	
SW	932550	SR 142	23.66	tributary to Little Klickitat River <sup>12</sup>	30	2013	0.00	
NW	995404	SR 530	36.83	tributary to NF Stillaguamish River	5	2014	0.04	
NW	991169	SR 530	36.9	tributary to NF Stillaguamish River <sup>12</sup>	5	2014	2.17	
NW	991170	SR 530	37.58	tributary to NF Stillaguamish River	5	2014	0.12	
NW	990359	SR 530	37.95	Rowan II Creek	5	2014	0 <sup>9</sup>	
NW	991171	SR 530	37.96	tributary to NF Stillaguamish River	5	2014	0 <sup>9</sup>	
NW	995405	SR 530	38.13	tributary to NF Stillaguamish River	5	2014	0 <sup>9</sup>	
NW	994128	SR 522	21.95	tributary to Skykomish River	7	2014	0.90	
NW	994125	SR 522	21.97	tributary to Skykomish River	7	2014	0.07	
NW	994236	SR 520	6.19	Yarrow Creek	8	2014	0 <sup>4</sup>	
NW	994704	SR 520	6.40	tributary to Yarrow Creek	8	2014	0 <sup>4</sup>	
NW	994237	SR 520	6.26	Yarrow Creek	8	2014	0 <sup>4</sup>	
NW	994238	SR 520	6.27	Yarrow Creek	8	2014	0 <sup>4</sup>	
NW	932370	SR 410	31.12	Scatter Creek	10	2014	16.71	
OL	15.0229 0.10	SR 3	40.96	Chico Creek - temporary weirs inside the box culvert	15	2014	pending <sup>10</sup>	326,100
OL	990555	US 101	259.79	Owl Creek	18	2014	2.23	
NW	01.0228 4.80	SR 542	6.55	Anderson Creek <sup>3</sup>	1	2015	13.61	8,029,094
NW	991120	SR 9	42.36	Lake Creek <sup>12</sup>	3	2015	6.43	2,444,365
NW	991718	SR 203	14.55	Coe Clemons Creek	7	2015	1.45	3,215,200
NW	08.0052 0.10	SR 522	5.76	Lyon Creek <sup>12</sup>	8	2015	1.82	1,600,001
NW	991210	SR 99	6.86	WF Hylebos Creek <sup>3</sup>	10	2015	2.09	2,639,948
SC	995878	SR 129	5.78	Rattlesnake Creek	35	2015	8.97	1,038,260
SW	991374	SR 4	3.1	Petes Creek	24	2015	7.09	
SW	931100	SR 4	33.94	tributary to Elochoman Slough	25	2015	0.19	1,506,146
SW	990818	SR 4	34.1	tributary to Elochoman Slough	25	2015	1.68	1,738,124
SW	990283	SR 502	5.13	Mill Creek	28	2015	2.79	
NW	991621	SR 542	24.9	High Creek	1	2016	2.41	2,118,192
NW	996155	SR 548	11.19	tributary to Drayton Harbor	1	2016	2.02	934,932
NW	990624	SR 532	9.75	Secret Creek <sup>12</sup>	5	2016	1.44	3,278,072
NW	996928	SR 522	9.6	Horse Creek	8	2016	1.64	
NW	930179	SR 167	11.43	tributary to Milwaukee Canal	10	2016	1.38	
OL	105 R050320a	SR 167	10.8	Jovita Creek <sup>3</sup>	10	2016	2.53	
OL	990972	SR 161	12.85	South Creek	11	2016	23.83	1,634,328
OL	991049	SR 507	36.35	Lacamas Creek	11	2016	15.09	2,139,771
OL	14.0021 0.30	SR 108	11.9	Little Skookum Creek	14	2016	3.37	2,674,585

Table 2. (Continued)

WSDOT Region	Site Id	Road	MP	Stream	WRIA	Year Fixed	Potential Habitat Gain <sup>1</sup> (mi)	Project Cost \$ <sup>2</sup>
OL	992205	SR 104	22.47	Grovers Creek	15	2016	3.23	1,504,836
OL	996753	SR 16 EB	28.1	Anderson Creek	15	2016	5.77	0 <sup>6</sup>
OL	990017	SR 16 WB	28.1	Anderson Creek	15	2016	0.00	6,745,035
OL	996735	SR 3	26.13	tributary to Mindy Creek	15	2016	0.81	
OL	990123	SR 307	0.49	Dogfish Creek	15	2016	4.90	1,366,090
OL	992002	SR 307	4.62	Gamble Creek	15	2016	5.63	1,867,216
OL	990205	SR 112	5.17	Jansen Creek	19	2016	3.55	2,602,158
OL	990214	SR 112	33.21	Joe Creek	19	2016	4.45	1,949,017
OL	990144	SR 112	48.49	Field Creek <sup>3</sup>	19	2016	5.55	196,019
OL	20.0312 0.60	US 101	197.1	Swanson Creek	20	2016	4.13	2,111,082
OL	990962	SR 121	4.04	Blooms Ditch	23	2016	3.07	2,556,888
OL	343040	SR 121	4.1	tributary to Blooms Ditch	23	2016	0.04	0 <sup>6</sup>
EA	990267	US 395	249.98	Matsen Creek	60	2017	0.90	224,1983.81
NW	03.0181 0.50	I-5	219.41	Fisher Creek <sup>3</sup>	3	2017	17.11	8,600,106
NW	05.0018 2.00	SR 532	6.14	Church Creek <sup>12</sup>	5	2017	14.82	5,756,865
NW	995181	SR 203	14.1	Thayer Creek	7	2017	0.78	
NW	991058	SR 531	8.65	Edgecomb Creek	7	2017	0.06	0 <sup>6</sup>
NW	991059	SR 531	8.71	Edgecomb Creek <sup>3</sup>	7	2017	1.76	3,100,000
NW	996475	I-90	17	tributary to NF Issaquah Creek	8	2017	0.22	7,400,000
NW	996963	I-90	17	NF Issaquah Creek	8	2017	0.86	0 <sup>6</sup>
NW	934151	I-90	17.06	tributary to NF Issaquah Creek	8	2017	0.09	0 <sup>6</sup>
NW	991842	SR 900	15.86	Green Creek	8	2017	1.34	1,800,000
OL	18.0021 5.40	US 101	260.93	Matriotti Creek <sup>3</sup>	18	2017	5.02	2,500,000
OL	991660	SR 112	52.9	Nordstrom Creek	19	2017	3.02	2,300,000
SC	999342	I-90	59.37	Resort Creek	39	2017	0.84	
SW	991409	SR 401	0.84	Megler Creek <sup>11</sup>	24	2017	0.80	\$68,475
NC	990413	US 97	159.24	Swauk Creek <sup>12</sup>	39	2018	1.08	3,600,000
NC	992763	US 97	165.54	tributary to Tronsen Creek	45	2018	0.43	1,000,000
NW	990187	SR 542	32.00	Hedrick Creek	1	2018	0.34	7,000,000
NW	991122	SR 9	48	Gribble Creek <sup>3</sup>	3	2018	2.67	3,200,000
NW	991717	SR 203	4.98	Historic Langlois Creek	7	2018	5.54	2,100,000
NW	990233	SR 92	2.73	Little Pilchuck Creek	7	2018	28.45	7,000,000
NW	102 L062	SR 202	0.10	Little Bear Creek <sup>12</sup>	8	2018	19.88	10,300,000
NW	102 L020	SR 524	12.44	Great Dane Creek	8	2018	4.60	1,600,000
OL	991739	SR 112	7.35	Olsen Creek	19	2018	3.62	3,500,000
OL	22.0507 0.10	SR 8	5.00	MF Wildcat Creek	22	2018	18.64	7,600,000
OL	990133	SR 8	6.30	EF Wildcat Creek	22	2018	13.62	9,000,000
OL	994791	US 12	9.04	tributary to Wynoochee River	22	2018	1.65	4,900,000
SC	992948	I-90	60.60	Townsend Creek	39	2018	1.63	
SC	992950	I-90	61.35	Price Creek	39	2018	1.04	
SW	991634	SR 504	17.00	Wooster Creek	26	2018	1.76	3,700,000
NW	992349	SR 9	77.36	tributary to Tawes Creek	1	2019	0.59	3,900,000
NW	992350	SR 9	77.43	tributary to Tawes Creek	1	2019	3.14	0 <sup>6</sup>
NW	992356	SR 9	77.94	Tawes Creek	1	2019	2.19	2,700,000
NW	991160	SR 530	25.94	Schooyard Creek <sup>3</sup>	5	2019	3.53	3,900,000
SC	990048	SR 129	0.90	Buford Creek <sup>11</sup>	35	2019	3.96	
SW	990735	SR 6	22.64	Salmon Creek	23	2019	3.56	2,500,000
SW	990744	SR 6	31.06	SB Fronia Creek	23	2019	3.48	3,000,000
SW	990746	SR 6	31.08	Fronia Creek	23	2019	0.00	0 <sup>6</sup>
NW	995715	I-5	268.64	tributary to California Creek	1	2020	3.20	9,200,000
NW	990581	SR 11	18.65	Hoags Creek	1	2020	0.71	2,200,000
NW	996003	SR 548	0.29	tributary to California Creek	1	2020	3.30	2,800,000
NW	991159	SR 530	24.65	Trafton Creek	5	2020	2.81	17,600,000
NW	990325	SR 202	13.24	Patterson Creek	7	2020	3.21	7,300,000
NW	991174	SR 202	19.69	tributary to Patterson Creek	7	2020	2.58	6,000,000
NW	991173	SR 202	19.77	tributary to Patterson Creek	7	2020	5.47	0 <sup>6</sup>
NW	991716	SR 203	13.60	Loutsis Creek	7	2020	3.14	6,700,000
OL	115 MC093	US 101	346.95	Coffee Creek	14	2020	13.32	20,300,000
OL	990943	SR 116	4.67	Kilisut Harbor <sup>11</sup>	17	2020	1.49	11,900,000

Table 2. (Continued)

WSDOT Region	Site Id	Road	MP	Stream	WRIA	Year Fixed	Potential Habitat Gain <sup>1</sup> (mi)	Project Cost \$ <sup>2</sup>
OL	991647	US 101	175.45	tributary to Hoh River	20	2020	1.89	
OL	990178	US 101	146.85	Harlow Creek <sup>3</sup>	21	2020	9.56	9,200,000
OL	990148	US 101	147.49	Fisher Creek	21	2020	3.19	5,300,000
SW	991412	SR 401	2.03	Hungry Harbor <sup>11</sup>	24	2020	0.42	
NC	990414	US 97	159.67	Swauk Creek	39	2021	6.92	\$7,300,000
NW	994386	SR 11	21.08	Padden Creek	1	2021	0.41	5,300,000
NW	NC129	SR 538	2.18	Logan Creek	3	2021	1.61	3,100,000
NW	991106	SR 9	70.6	tributary to Landingstrip Creek	3	2021	1.34	2,100,000
NW	GR9	SR 20	87.70	Fish Creek	4	2021	1.46	5,000,000
NW	GR23	SR 20	88.82	Lorenzan Creek	4	2021	0.98	0 <sup>6</sup>
NW	LP19	SR 9	37.26	tributary to Pilchuck Creek trib	5	2021	0.02	2,800,000
NW	996492	SR 169	17.92	tributary to Cedar River <sup>11</sup>	8	2021	0.14	
NW	105 R042117a	SR 164	8.24	Pussyfoot Creek <sup>3</sup>	10	2021	9.33	19,500,000
OLY	990286	SR 302	11.30	Minter Creek	15	2021	25.48	9,600,000
OLY	990021	US 101	253.85	Bagley Creek <sup>3</sup>	18	2021	6.49	14,600,000
OLY	18.0173 2.40	US 101	256.10	Siebert Creek	18	2021	33.99	21,400,000
OLY	934250	US 101 ROW	253.84	tributary to Bagley Creek	18	2021	1.90	0 <sup>6</sup>
SW	991544	SR 6	46.39	tributary to Chehalis River	23	2021	7.92	10,700,000
SW	991757	SR 6	46.50	tributary to Chehalis River	23	2021	0.19	0 <sup>6</sup>
NW	994233	I-5	250.55	Padden Creek	1	2022	4.95	28,300,000
NW	931144	SR 546	0.17	Duffner Ditch	1	2022	0.64	5,600,000
NW	990510	SR 546	0.46	Double Ditch	1	2022	7.32	0 <sup>6</sup>
NW	996161	SR 546	0.47	Pepin Creek	1	2022	0.00	0 <sup>6</sup>
NW	990223	SR 546	4.21	Kamm Ditch	1	2022	1.16	2,200,000
NW	990641	SR 9	40.09	Lake Creek	3	2022	1.54	17,500,000
NW	990091	SR 9	41.04	Norway Park Creek	3	2022	1.05	0 <sup>6</sup>
NW	JK2	SR 20	91.3	unnamed to Skagit River	4	2022	0.81	7,700,000
NW	997695	SR 169	9.95	Ravensdale Creek	9	2022	2.33	16,100,000
OLY	996794	SR 3; SB off-ramp	41.08	tributary to Chico Creek	15	2022	0.79	10,300,000
OLY	996795	SR 3; SB on-ramp	40.99	tributary to Chico Creek	15	2022	0.12	0 <sup>6</sup>
OLY	15.0051 0.10	SR 302	11.36	Little Minter Creek <sup>3</sup>	15	2022	0.10	4,600,000
OLY	15.0051 0.20	SR 302	11.42	Little Minter Creek <sup>3</sup>	15	2022	3.69	0 <sup>6</sup>
OLY	990400	US 101	162.60	Steamboat Creek <sup>3</sup>	20	2022	4.62	13,000,000

Shaded - injunction barrier corrections

**Total Habitat Gain: 1,295.01 mi**

**Total Injunction Habitat Gain: 501.71 mi**

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## Table 2 Notes

- 1 - For watersheds with multiple corrections, lineal gain is typically shown for the site highest in the watershed and incremental gain is shown for lower sites.
- 2 - Project Costs only available for barrier corrections completed as a stand-alone project. Recent corrections are subject to update, as more work may occur in the project but after barrier correction. Costs rounded up to the nearest \$100,000.
- 3 - Previous correction reverted to a barrier; barrier re-corrected.
- 4 - Lineal gain represented by site 994234 (2012).
- 5 - Lineal gain represented by site 15.0285 H 0.50 (2006).
- 6 - Project Costs included in a related site's contract.
- 7 - Bridge repair and fish passage improvement in 2008, but still a barrier due to outfall drops.
- 8 - Amount of habitat gain unknown at this time.
- 9 - Amount of habitat gain unknown; site not previously documented as a barrier before emergency situation.
- 10 - Pending - Interim fix; potential gain will be reported after the culvert is replaced by a bridge.
- 11 - Partnership. Project costs represent WSDOT contribution.
- 12 - Habitat gains for some sites have been updated since the publishing of previous reports, which has impacted total gain amounts. Sites with habitat gains that have changed from one mile or more include the following: 994389 Padden Creek (corrected in 2013); 993138 Seastrand Creek (corrected in 2013); 932550 (tributary to Little Klickitat River (corrected in 2013); 991169 tributary to NF Stillaguamish River (corrected in 2014); 991120 Lake Creek (corrected in 2015); 08.0052 0.10 Lyon Creek (corrected in 2015); 990624 Secret Creek (corrected in 2016); 05.0018 2.00 Church Creek (corrected in 2017); 990413 Swauk Creek (corrected in 2018); 102 L062 Little Bear Creek (corrected in 2018). We continue to learn new information as habitat surveys are completed and update as needed.

# Fish Passage Program Delivery Progress

We continue our work to comply with the requirements of a U.S. District Court injunction to correct barriers to salmon and steelhead, and open 90 percent of blocked habitat as specified in the injunction by 2030. We have significantly increased the number of projects under construction contract and beginning design in the 2023-2025 biennium.

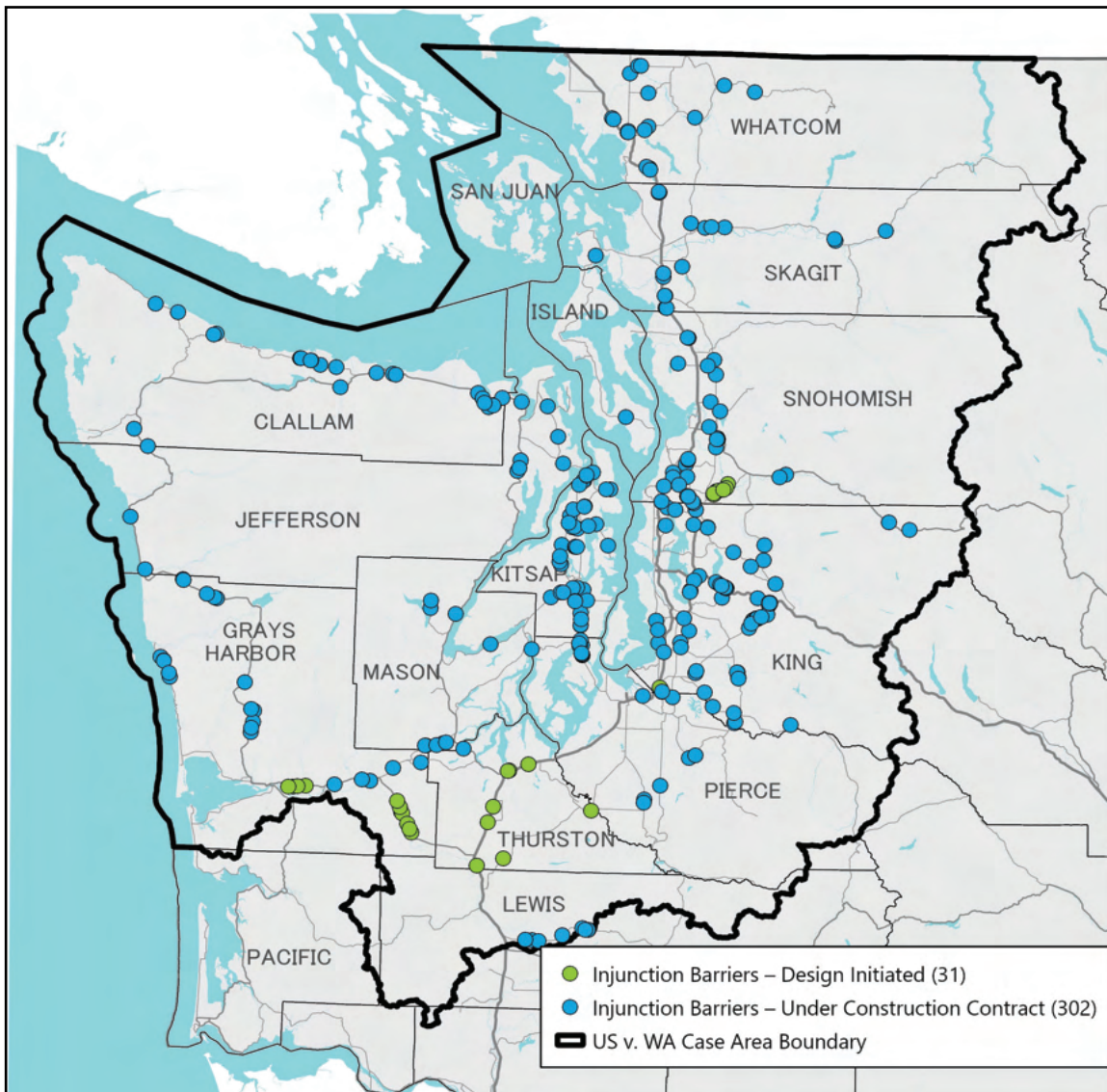
We update our Fish Passage project delivery plans quarterly or sooner based on new information. See

our webpage for updated information on the delivery plan:

[2030 Fish Passage Project Delivery Plans Webpage](#)

Additionally, two barriers outside of the injunction area are being corrected this summer with grant funding from the Brian Abbott Fish Barrier Removal Board, including sites 990217 and 960240, crossing US 97 Johnson Creek, tributary to the Okanogan River north of Omak.

Figure 29. Injunction Barrier Corrections in progress during 2023-2025



<https://wsdot.wa.gov/construction-planning/protecting-environment/fish-passage/2030-fish-passage-project-delivery-plans>



# Project Planning

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## WSDOT Barrier Corrections and Planning Strategy

WSDOT corrects fish passage barriers mainly through stand-alone projects or as part of larger transportation projects.

### Stand-alone Projects

These projects are part of the WSDOT Environmental Retrofit Subprogram (14). The sole purpose of these projects is to correct fish passage barriers. As part of managing WSDOT's barrier correction program for efficient use of state resources, decisions about project prioritization may involve factors such as:

- amount of habitat blocked and habitat quality,
- tribal input,
- future safety/mobility projects which may address the barrier,
- multiple WSDOT barriers in a watershed,
- project grouping efficiencies for combined construction or traffic detour management,
- structure condition/maintenance issues (culverts identified as being at risk for structural failure are given a high priority),
- partnership opportunities with local agencies, tribes, enhancement groups, and other landowners.

Although WSDOT seeks to address all known barriers statewide for correction, barrier culverts within the case area are prioritized to meet WSDOT's commitments under the federal culvert injunction. The prioritization process aims to select the projects that efficiently provide benefits for anadromous and resident fish species.

### WSDOT Transportation Improvement Projects

WSDOT also corrects fish barriers through larger transportation projects, including safety and mobility

projects. WSDOT integrates fish passage barrier corrections into planned WSDOT transportation improvement projects whenever possible. All fish passage barriers within an upcoming transportation project are considered for correction, including barriers with limited habitat gain that are not considered for correction with dedicated funding. WSDOT works closely with WDFW and tribes to identify all fish passage barriers within a project's boundaries.

## Planning and Implementation Improvements

To ensure compliance with the U.S. v. WA case by 2030, WSDOT is advancing project delivery through numerous efficiencies, including:

- utilizing the Design-Build and Progressive Design-Build process to encourage innovative design and to increase delivery capacity,
- expediting natural resource consultations and permitting by designating fish passage staff at regulatory agencies,
- bundling projects geographically to minimize impacts to communities and the traveling public while promoting overall watershed benefits,
- fostering partnerships to encourage additional barrier corrections and maximize funding streams,
- ensuring early right-of-way acquisition and utility notification reduces schedule delays, and
- development of standard plans for buried structures up to 30 feet wide which reduces design time and expedites construction.

## Funding

Move Ahead Washington provides the funding to continue delivering a plan to comply with the minimum requirements of the injunction through 2030. For the 2023-2025 biennium, the legislature provided just over \$1 billion for WSDOT's fish passage program.

# Fish Passage Barrier Inventory and Assessment

## Fish Passage Inventory Updates

WDFW has inspected 7,691 water crossings along 7,052 miles of state highways. WDFW completed the initial inventory in October of 2007. The inspected crossings include culverts as well as other features associated with WSDOT highways and rights-of-way, such as streambed controls and dams.

- Of the 7,691 water crossings, 4,017 were identified as crossings over fish bearing waters.
- Approximately 52% (2,086) of the evaluated fish bearing crossings were identified as barriers (Table 3). Out of the 2,086\* barriers, 1,060 are total barriers to fish passage, 953 provide partial fish passage, while 73 barriers have an unknown percent passability.
- 252 crossings require further analysis to determine fish passage barrier status.
- Barriers with a significant habitat gain\*\* (1,536) are prioritized as directed by the injunction.
- 85 fish passage barrier crossings require verification of significant habitat gain

\*The number of fish passage barriers is a dynamic value that changes as the on-going inventory takes place. As previously undetected culverts are inventoried, the number of crossings (and possibly fish passage barriers) may increase.

\*\*A significant reach of habitat is defined as a section of stream having at least 200 linear meters of usable habitat without a gradient or natural barrier, both upstream and downstream of the fish passage feature.

Table 3. Fish Passage Barriers Statewide

Total Number of Fish Barriers	Fish Passage Barriers			Unknown Barrier Status	Barriers with Significant Habitat Gain	Barriers with Limited Habitat Gain <sup>1</sup>	Barriers with Habitat Threshold Gain Not Determined	Barriers Fixed <sup>2</sup>
	Total Barriers (0% Passable)	Partial Barriers (33% or 67% Passable)	Percent Passable Unknown					
2086	1060	953	73	252	1536	465	85	390

Based on WSDOT Fish Passage Inventory as of June 1, 2023.

<sup>1</sup> Barriers with less than 200 m potential habitat gain.

<sup>2</sup> Three hundred ninety WSDOT fish passage barriers have been reported as replaced or retrofitted for fish passage; however, some of these require additional work to meet current fish passage criteria.

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Culvert conditions can change over time and reassessment is an ongoing effort. One example is WSDOT's reassessment of injunction-relevant non-barrier culverts every 10 years. In 2022, WDFW reassessed 73 injunction relevant non-barrier culverts and determined:

- 39 had no change in barrier status,
- 20 changed to an unknown barrier status,
- 2 were non-fish bearing,
- 2 were resident trout only
- 10 were barriers.

WSDOT also directs WDFW to reassess water crossings along highways in advance of transportation improvement projects in order to provide project planners with the most up-to-date information about WSDOT's fish passage sites. In 2022, WDFW conducted an inventory and assessment on 24.44 miles of highway related to transportation improvements.

### **U.S. v. WA List of WSDOT Case Area Barrier Culverts**

In 2022, WSDOT corrected 14 injunction barriers, opening 29.11 miles (46.85 kilometers) of salmon and steelhead habitat.

A list of culverts blocking salmon or steelhead passage within the case area was filed on September 27, 2013, containing 1,014 barriers, including 847 with a significant habitat gain and 167 with a limited habitat gain.

As of June 30, 2023, WSDOT has 989 culvert barriers relevant to the U.S. v. WA case - 806 with significant habitat upstream ( $\geq 200$  meters) and 183 with a limited habitat gain ( $< 200$  meters).

The List of WSDOT Case Area Barrier Culverts (Case 2:01-sp-00001-RSM Document 779-1) is updated as WSDOT learns new information about culverts within the case area and the disposition of culverts

may change. The injunction requires the state to re-evaluate non-barrier culverts once every ten years to determine whether they remain passable. Newly identified barriers are discovered as part of this re-inventory work, as culvert conditions can change over time and become barriers.

Updates to the List of WSDOT Case Area Barrier Culverts:

- 114 barriers have been corrected and are no longer barriers,
- 1 culvert was on the original 2013 injunction list but was corrected prior to 2013,
- 43 culverts are on resident-fish streams, not containing steelhead or salmon,
- 18 barriers are on streams determined to be non-fish bearing,
- 4 barriers are equipped with tide gates,
- 1 barrier was a duplicate record in WDFW's database,
- 43 barriers were re-evaluated as fish passable,
- 14 barriers were incorrectly assigned to WSDOT ownership,
- 2 barriers are not a culvert under a roadway as defined by the federal injunction.
- 215 new injunction relevant barrier culverts were identified.

Appendix I lists the barrier culverts relevant to the injunction as of June 1, 2023. Appendix II lists the updates to the list of WSDOT Case Area Barrier Culverts.



# Monitoring

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## Monitoring Plan

In accordance with the U.S. v. WA Culvert Injunction, representatives from tribal nations and state agencies subject to the injunction agreed upon and finalized the Monitoring Implementation Guidelines in September 2015, which are the basis of WSDOT's Fish Passage Monitoring Plan. Find the complete Monitoring Plan in Appendix III. The Monitoring Plan provides a protocol that can be broadly applied to ensure a consistent and efficient post-project monitoring process for all WSDOT fish passage projects, and satisfies all state and federal permit requirements. Fish passage barrier corrections are monitored at the following time periods:

### Post-Construction Compliance Inspection

WSDOT evaluates all fish passage projects immediately upon completion of construction to ensure they conform to construction permits and design plans. Sites are also evaluated for their ability to pass fish using WDFW's barrier assessment methods.

### Over-Winter Inspection

WSDOT inspects water crossing structures corrected under the injunction within the first year following construction after peak winter flows subside to evaluate the impact of high and low seasonal flows on fish passage at the new structure.

### Long-Term Evaluations

Water crossing structures corrected under the injunction are evaluated at Year 5 and Year 10 after construction to determine if they continue to provide fish passage and to evaluate if the structures conform to the design standards under which they were constructed.

## Actions Resulting from Monitoring

Resulting actions are determined on a case-by-case basis and involve one of the following:

### 1. No Action Needed

The structure is providing fish passage and stream function. The responses to the monitoring standards are within the expected norms.

### 2. Increased Monitoring

The structure is providing fish passage and stream function. Some of the responses to the monitoring standards are outside the expected norms. This action is taken when stream function may naturally correct the substandard responses.

### 3. Repair

The structure is in danger of losing fish passage or stream function, or has lost fish passage but can be restored within the scope of maintenance.

### 4. Modifications

The structure has lost fish passage and stream function but can be restored with a modification to the project site. Modifications are beyond maintenance as they change a portion of the original design elements. Any modification will be monitored to ensure that it functions as designed.

### 5. Add to newly identified barrier list and replace

The structure has lost fish passage and stream function and can only be repaired through complete replacement of the structure.

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## Monitoring Summary

WSDOT conducted 48 monitoring assessments during 2022, including: 14 Post-Construction Compliance Inspections, 14 Over-Winter Assessments, and 5 Long-Term Evaluations relevant to the injunction, plus we conducted Additional Monitoring Evaluations at 10 sites under Action #2 (Increased Monitoring), 2 ad hoc assessments, and 3 assessments under Actions #3/4 (Repair/Modify) of the Monitoring Plan. The WSDOT Fish Passage Barrier Correction Monitoring Plan can be found in Appendix III. Summarized monitoring results for 2022 can be found in Appendix IV.

Individual monitoring reports can be generated on the WSDOT fish passage inventory web map by entering the site's unique Site ID. View our webmap by entering the URL or scanning the QR code below.



[www.tinyurl.com/wsdotfishpassage](http://www.tinyurl.com/wsdotfishpassage)

Of the 14 Post-Construction Inspections, all were within acceptable monitoring parameters.

Of the 14 Over-Winter Evaluations, 4 projects received a determination of Increased Monitoring needed. Increased Monitoring site visits are tailored to the specific condition observed for each individual project and conducted at a frequency and duration such that a determination of whether further action is warranted. Summary of the 4 projects receiving an Increased Monitoring determination:

- SR 20 Fish Creek (GR9, WRIA 4) was designed for a potential future condition, and in doing so, the current channel is overly wide for the stream and promotes low water depth through the upstream design channel. Complexity features

installed inside the culvert are maintaining the channel shape for the current condition. The project was rechecked during spawning season.

- SR 9 Landingstrip Creek (991106, WRIA 3) tributary suffered a large storm event immediately after construction. The undersized boulder clusters inside the culvert deformed and promoted a general loss of channel shape and over coarsening. However, the large woody material placed upstream and downstream of the new culvert arrested a major regrade and is still functioning adequately as hydraulic features and fish habitat.
- SR 169 Cedar River tributary (996492, WRIA 8) has some deformation of the channel shape due to roadside drainage input near the inlet of the new culvert. Recently planted live willow stakes and additional rounded rock placed at the outfall of the drainpipe should curtail any further deformation.
- US 101 Bagley Creek (990021, WRIA 18) tributary experienced an upstream head cut and deformation of the channel inside the culvert due to a lack of complexity features in the design in these areas.

Of the 5 Long-Term Evaluations conducted, all met fish passage standards and stream function for the Year 5 Interval. Five additional projects meeting the Year 5 interval were delayed in having an assessment conducted, because all 5 were previously identified as needing a performance management action.

For the 10 projects receiving an Increased Monitoring Evaluation (typically annually), 3 no longer pose a concern for fish passage and reverted to the regular monitoring schedule, 5 will remain on an annual schedule, and 2 were proposed for performance management.

- Three projects associated with SR 520 Yarrow Creek and tributary (994236 and 994119, WRIA 8) were deemed satisfactory and resumed the regular monitoring schedule. Beaver dams previously removed from two of these culverts will be monitored on an as-needed basis in the future at the request of regional staff.
- SR 530 Trafton Creek (991159, WRIA 5) continues to receive annual low flow monitoring to Year 5.
- SR 11 Padden Creek (994386, WRIA 1) project experienced a near 100-year storm event after construction that mobilized a significant amount of sediment into the culvert and resulted in subsurface flow during periods of low flow. This project continues to receive increased monitoring to determine if subsurface flow persists and is inconsistent with the common condition of the reach.
- SR 522 Horse Cr (996928, WRIA 8) experienced deformation of the channel inside the culvert and scour at the outlet right bank wing wall as vegetation encroached on the channel from the left bank. A recheck during spawning season determined flow depth was sufficient through the culvert to pass fish, however the project could benefit from the addition of channel forcing features that promote development of a defined thalweg. Annual monitoring continues.
- US 101 Fisher Creek (03.0181 0.50, WRIA 3) was monitored for loss of channel shape and potential subsurface flow during summer. A camera was installed at the site to inform the hydrologic dynamics over the course of a year. Camera monitoring coupled with annual site visits continue for this project.

- US 101 Coffee Creek (935445, WRIA 14) continues to receive annual site visits that include low flow and temperature monitoring to Year 5.
- SR 20 Fish Creek (GR9, WRIA 4) was rechecked during Fall 2022 to evaluate if the water depth was sufficient to pass adults. WSDOT determined that the overly wide channel resulted in 1-2" of flow depth, plane bed conditions, and overall loss of complexity to the channel shape, primarily upstream of the culvert to such a degree as to make it difficult for adults to pass. The channel shape within the culvert interior is maintained by channel forcing features (meander bars) and does not display the same low depth of flow conditions as outside the structure. Proposed for Repair.
- US 101 Hoh River tributary (991647, WRIA 20) was closely monitored due to persistent seasonal subsurface flow through the culvert and downstream design channel since construction. Proposed for Modification.

Performance Management: WSDOT Monitoring is tracking pending performance management actions at 10 recently constructed projects to maintain or restore fish passage and/or stream function per Actions #3 and #4 of the Injunction Monitoring Plan. Projects pending actions include SR 202 Little Bear Creek (low depth of flow), SR 900 Green Creek (low depth of flow, channel continuity), SR 532 Secret Creek (entrainment, channel continuity), SR 3 Mindy Creek tributary (seasonal subsurface flow, hydraulic drop), US 101 Matriotti Creek (seasonal subsurface flow), SR 112 Joe Creek (flow loss, low depth of flow), I-90 NF Issaquah Creek (low depth of flow), I-90 NF Issaquah Creek tributary (channel continuity, fish stranding), SR 203 Thayer Creek (subsurface flow), and SR 522 Evans Creek tributary (low depth of flow). In addition, 2 projects are pending actions to address hydraulic concerns related to infrastructure. Those projects are US 101 Harlow Creek (bank erosion/channel scour) and SR 8 Middle Fork Wildcat Creek (bank erosion/abutment scour). In 2022, WSDOT proposed performance management actions take place at 2 more projects (US 101 Hoh



River tributary and SR 20 Fish Creek). Effectiveness monitoring was conducted at 3 projects where performance management actions took place:

- SR 530 Trafton Creek (991159, WRIA 5) developed barrier hydraulic drops over two rock weirs inside the structure after construction. The channel was reassessed following a bed modification that disassembled/reassembled the rock vanes and weirs to create meander bar/ boulder clusters, alternating through the length of the structure along with the addition of buried slash in the channel. WSDOT continues to monitor this project to evaluate the effectiveness of the bed modification.
- SR 202 Patterson Creek (990325, WRIA 7) avulsed several hundred feet upstream of the project limit which routed the main creek channel into a drainage ditch along SR 202, cutting off flow from the wetland upstream of the new crossing. Temporary measures were taken during summer 2021 to reduce impacts to the highway embankment by installing post-assisted log structures in the ditch. In 2022, the avulsed channel was realigned away from SR 202 and was reestablished at the original tie in location of the project. Follow-up monitoring concluded the action was successful.
- SR 11 Hoag's Creek (990581, WRIA 1) experienced subsurface flow within the project limits inconsistent with the natural flow regime for the reach and was referred for performance management to correct the condition. The corrective action included rebuilding the banks, installing boulder barbs for sinuosity, and fine bands to force surface flow in the culvert. A deformable grade control was buried at the outlet of the culvert. These corrective actions continue to be monitored for their effectiveness.

## Post-Project Evaluation for Fish Presence

Adult spawner surveys determine species presence above and below a newly completed fish passage project. Typically, the surveys are conducted 500 meters (1,640.5 feet) downstream and upstream of the project. The surveys may be shorter if the distance to a confluence with a larger body of water downstream is less than 500 meters or if there is a natural barrier upstream within the 500 meters. If there is no spawning habitat within 500 meters upstream or downstream of the fish passage project, the survey may be relocated to where fish are likely to spawn.

Appendix V lists recent spawner surveys conducted by WDFW for 14 projects. In late 2022 and early 2023, WDFW conducted salmon spawner surveys on 17 streams where WSDOT completed fish passage projects. Adult salmon were observed upstream of six of the seventeen streams surveyed.

While adult salmon may not have been observed during WDFW's site visit, it doesn't mean that fish are not present. There are many reasons fish might not have been observed, for example due to poor stream visibility if there are turbid stream conditions or high glare, or biologists may arrive before or after the fish had already passed.

Not all potential habitat may be utilized by salmonids immediately following a fish passage correction. In some cases, it may take years before the newly opened habitat is utilized to its full potential. Fish passage is only one of the many factors influencing fish production. Among the other factors are surface water diversions, pollution, hydropower, unfavorable ocean conditions, predation, harvest, downstream barriers, and general habitat degradation or loss.

## Fishway Inspections and Maintenance

WDFW's 2013 Water Crossing Design Guidelines defines a fishway as "A system specifically designed for passage of fish over, around or through an obstruction. Such systems include hydraulic-control devices, special attraction devices, collection and transportation channels, fish ladders, a series of weirs designed for fish passage, and culvert retrofit systems." Figure 30 illustrates examples of durable and effective WSDOT fishways.

Many highway culvert crossings were retrofitted with fishways during the early to mid-1990's as an interim method to provide fish passage until long-term solutions (e.g. culvert replacement) could be implemented. The expected lifespan of fishway structures is approximately twenty-five years and many of those fishways are deteriorating, becoming fish barriers requiring repair. WSDOT no longer constructs fishways because they do not meet current fish passage design standards nor the terms of the federal culvert injunction.

WSDOT currently maintains 139 fishways statewide. The total number of WSDOT fishways decreased this year, as four deficient fishway culverts were replaced with newly constructed bridges last summer, including two crossings on SR 302 Little Minter Creek, one crossing on US 101 Steamboat Creek, and one crossing on US 101 Indian Creek.

Regular inspections and maintenance are essential for the continued successful operation of fishways. Some of the fishways require frequent maintenance to ensure fish passage, but they are not fish passage barriers. WDFW biologists usually perform regular inspections of fishways in the spring. They document maintenance needs or fish passage deficiencies then notify WSDOT. Follow-up inspections, normally conducted in the fall, ensure that fish passage deficiencies were corrected, and maintenance needs were met.

In Spring of 2023, WDFW inspected 83 fishways: 64 of those sites were deemed passable to fish in

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2022, and four require maintenance to improve fish passage. WDFW also inspected 21 fishways that are partial barriers but with ongoing maintenance can afford some degree of passability. One of those 21 partially passable fishways will require maintenance to maintain the same level of fish passage. Maintenance of the fishways includes removal of organic debris, trash, and sediment, repairing broken weirs and other similar activities ensuring fish passage through fishways.

When fishways reach the end of their useful life and can no longer provide fish passage, they are put on the barrier list to be evaluated by biologists and engineers for a repair solution. Like the other fish passage barriers, barrier fishways are included in the scoping and prioritization process that will ultimately lead to repair or replacement. The results of the spring 2023 fishway inspections can be found in Appendix VI.

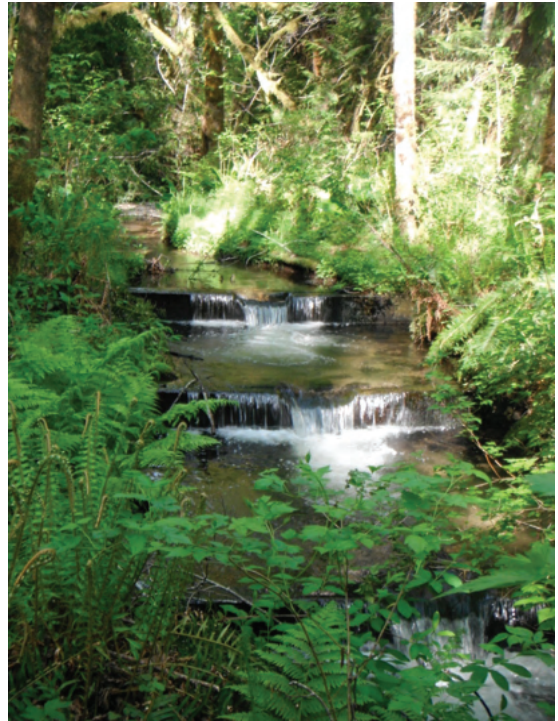


Figure 30 Examples of WSDOT fishways. Above: 990363 on US 101 SF Nemah River; Top right: 14.0009A 0.06 on US 101 Holiday Valley Creek; Bottom right: 27.0300 0.00 on SR 503 Robinson Creek.



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# Appendix I

## WSDOT Culvert Barriers Relevant to the Injunction

## Appendix I. WSDOT Culvert Barriers Relevant to the Injunction (as of June 1, 2023)

806 barrier culverts with ≥ 200 meters habitat gain; 183 barrier culverts with <200 meters habitat gain

List sorted by WSDOT Region, Road, and Milepost location.

WSDOT Region	Site Id	Road	Milepost	Stream	Tributary to	WRIA	County	Lineal Habitat Gain ≥ 200 m	On Original 2013 Injunction List
NW	995470	I-405	2.31	Rolling Hills Cr	Springbrook Cr	9	King	Yes	Yes
NW	994406	I-405	3.06	Thunder Hills Cr	Rolling Hills Cr	9	King	Yes	Yes
NW	998969	I-405	4.61	unnamed	Lake Washington	8	King	No	No
NW	996482	I-405	5.09	Johns Cr	Lake Washington	8	King	Yes	No
NW	933259	I-405	7.61	unnamed	Lake Washington	8	King	Yes	No
NW	996032	I-405	7.62	unnamed	Lake Washington	8	King	Yes	Yes
NW	998971	I-405	7.83	unnamed	Lake Washington	8	King	Yes	No
NW	998972	I-405	7.9	unnamed	Lake Washington	8	King	Yes	No
NW	936041	I-405	9.2	Lakehurst Cr	Lake Washington	8	King	Yes	No
NW	932933	I-405	10.06	unnamed	Coal Cr	8	King	Yes	No
NW	933258	I-405	12.03	Trail Cr	Mercer Sl	8	King	No	No
NW	933244	I-405	13.16	Sturtevant Cr	Kelsey Cr	8	King	Yes	No
NW	992385	I-405	15.09	Yarrow Cr	Lake Washington	8	King	Yes	Yes
NW	990376	I-405	19.12	Forbes Cr	Juanita Bay	8	King	Yes	No
NW	932812	I-405	20.49	unnamed	Juanita Cr	8	King	Yes	No
NW	992654	I-405	20.92	unnamed	Juanita Cr	8	King	Yes	Yes
NW	998602	I-405	21.94	Juanita Cr	Lake Washington	8	King	Yes	Yes
NW	993106	I-405	25.35	unnamed	North Cr	8	Snohomish	No	Yes
NW	08.0070 A 0.25	I-405	26.46	Perry Cr	North Cr	8	Snohomish	Yes	Yes
NW	993109	I-405	26.9	unnamed	Queensborough Cr	8	Snohomish	Yes	Yes
NW	995857	I-405; NB on-ramp	0.42	Gilliam Cr	Green R	9	King	Yes	Yes
NW	998974	I-405; SB	12.43	Hixson Cr	Mercer Sl	8	King	No	Yes
NW	998976	I-405; SB	27.76	Royal Anne Cr	North Cr	8	Snohomish	No	No
NW	998977	I-405; SB	27.83	unnamed	Royal Anne Cr	8	Snohomish	Yes	Yes
NW	991008	I-405;NB	27.7	Royal Anne Cr	North Cr	8	Snohomish	No	No
NW	995292	I-5	141.54	W Hylebos Cr	Hylebos Cr	10	King	Yes	Yes
NW	992364	I-5	143.6	W Hylebos Cr	Hylebos Cr	10	King	Yes	Yes
NW	991031	I-5	145.93	Bingaman Cr	Bingaman Pond	9	King	Yes	No
NW	935070	I-5	147.57	unnamed	unnamed SF McSorley Cr	9	King	No	No

## Appendix I. WSDOT Culvert Barriers Relevant to the Injunction (as of June 1, 2023)

806 barrier culverts with  $\geq 200$  meters habitat gain; 183 barrier culverts with  $<200$  meters habitat gain

List sorted by WSDOT Region, Road, and Milepost location.

WSDOT Region	Site Id	Road	Milepost	Stream	Tributary to	WRIA	County	Lineal Habitat Gain $\geq 200$ m	On Original 2013 Injunction List
NW	934543	I-5	172.38	unnamed	SF Thornton Cr	8	King	No	No
NW	994562	I-5	174.71	Thornton Cr	Lake Washington	8	King	Yes	Yes
NW	990273	I-5	177.93	McAleer Cr	Lake Washington	8	Snohomish	Yes	Yes
NW	996229	I-5	183.33	unnamed	Swamp Cr	8	Snohomish	No	Yes
NW	102 N218	I-5	186.93	unnamed	North Cr	8	Snohomish	No	Yes
NW	993091	I-5	187.64	unnamed	Silver Lk	8	Snohomish	Yes	Yes
NW	930252	I-5	187.93	unnamed	Penny Cr	8	Snohomish	Yes	Yes
NW	995262	I-5	189.9	unnamed	Wood Cr	7	Snohomish	No	Yes
NW	933665	I-5	196.24	unnamed	Snohomish R	7	Snohomish	Yes	No
NW	996076	I-5	210.01	unnamed	Stillaguamish R	5	Snohomish	Yes	Yes
NW	990622	I-5	211.5	Secret Cr	Pilchuck Cr	5	Snohomish	Yes	No
NW	992181	I-5	213.27	unnamed	unnamed Pilchuck Cr trib	5	Snohomish	Yes	Yes
NW	992182	I-5	213.27	unnamed	unnamed Pilchuck Cr trib	5	Snohomish	Yes	Yes
NW	991979	I-5	213.29	unnamed	unnamed Pilchuck Cr trib	5	Snohomish	Yes	Yes
NW	992175	I-5	213.66	unnamed	Secret Cr	5	Snohomish	Yes	Yes
NW	LP66	I-5	213.86	unnamed	Secret Cr	5	Snohomish	Yes	Yes
NW	996077	I-5	214.38	unnamed	WF Church Cr	5	Snohomish	Yes	Yes
NW	996074	I-5	214.65	unnamed	WF Church Cr	5	Snohomish	Yes	Yes
NW	996454	I-5	214.65	unnamed	WF Church Cr	5	Snohomish	Yes	Yes
NW	996071	I-5	214.73	WF Church Cr	Church Cr	5	Snohomish	Yes	Yes
NW	996073	I-5	214.74	WF Church Cr	Church Cr	5	Snohomish	Yes	Yes
NW	995221	I-5	218.01	unnamed	unnamed Milltown Cr trib	3	Skagit	No	Yes
NW	995242	I-5	218.44	unnamed	Milltown Cr	3	Skagit	Yes	Yes
NW	991725	I-5	224.62	Maddox Cr	SF Skagit R	3	Skagit	Yes	Yes
NW	CR122	I-5	225.24	Martha Washington Cr	Maddox Cr	3	Skagit	Yes	Yes
NW	995228	I-5	235.65	unnamed	Samish R	3	Skagit	No	Yes



## Appendix I. WSDOT Culvert Barriers Relevant to the Injunction (as of June 1, 2023)

806 barrier culverts with ≥ 200 meters habitat gain; 183 barrier culverts with <200 meters habitat gain

List sorted by WSDOT Region, Road, and Milepost location.

WSDOT Region	Site Id	Road	Milepost	Stream	Tributary to	WRIA	County	Lineal Habitat Gain ≥ 200 m	On Original 2013 Injunction List
NW	995249	I-5	242.03	unnamed	Friday Cr	3	Skagit	Yes	Yes
NW	370614	I-5	243.43	unnamed	Samish Lk	3	Whatcom	Yes	Yes
NW	FR75	I-5	245.76	Lake Cr	Samish Lk	3	Whatcom	Yes	Yes
NW	995411	I-5	246.75	Chuckanut Cr	Puget Sound	1	Whatcom	Yes	Yes
NW	995699	I-5	251.36	unnamed	Connelly Cr	1	Whatcom	Yes	Yes
NW	990022	I-5	256.28	Baker Cr	Squalicum Cr	1	Whatcom	Yes	Yes
NW	995701	I-5	258.56	unnamed	unnamed Silver Cr trib	1	Whatcom	Unknown	No
NW	995703	I-5	259.08	unnamed	unnamed Silver Cr trib	1	Whatcom	Unknown	Yes
NW	934371	I-5	259.91	unnamed	Silver Cr	1	Whatcom	Yes	No
NW	995723	I-5	260.39	unnamed	Silver Cr	1	Whatcom	Yes	No
NW	995704	I-5	260.58	Silver Cr	Nooksack R	1	Whatcom	Yes	No
NW	995709	I-5	260.98	unnamed	Tennant Cr	1	Whatcom	Yes	Yes
NW	995726	I-5	275.33	Cain Cr	Semiahmoo Bay	1	Whatcom	Yes	Yes
NW	03.0183 1.20	I-5; LX	218.56	unnamed	Milltown Cr	3	Skagit	Yes	No
NW	995233	I-5; Median	240.95	unnamed	Friday Cr	3	Skagit	Yes	Yes
NW	995227	I-5; NB	234.65	unnamed	Samish R	3	Skagit	No	Yes
NW	995232	I-5; NB	240.95	unnamed	Friday Cr	3	Skagit	Yes	Yes
NW	995250	I-5; NB	243.96	unnamed	Samish Lk	3	Whatcom	Yes	Yes
NW	990025	I-5; NB	244.2	Barnes Cr	Samish Lk	3	Whatcom	Yes	Yes
NW	995241	I-5; NB Ext 240	241.03	unnamed	Friday Cr	3	Skagit	Yes	Yes
NW	995246	I-5; NB Ext 240	241.1	unnamed	unnamed Friday Cr trib	3	Skagit	Yes	Yes
NW	995299	I-5; NB off-ramp	143.75	W Hylebos Cr	Hylebos Cr	10	King	Yes	Yes
NW	998964	I-5; NB off-ramp	154.48	unnamed	Gilliam Cr	9	King	No	Yes
NW	995245	I-5; NB off-ramp	240.92	unnamed	Friday Cr	3	Skagit	Yes	Yes
NW	995248	I-5; NB off-ramp	246	unnamed	unnamed Friday Cr trib	3	Whatcom	Yes	Yes
NW	996030	I-5; NB off-ramp to I-405	154.39	Gilliam Cr	Green R	9	King	Yes	Yes
NW	935921	I-5; NB on-ramp	0.03	unnamed	Silver Cr	1	Whatcom	Yes	No
NW	995300	I-5; NB on-ramp	143.9	W Hylebos Cr	Hylebos Cr	10	King	Yes	Yes

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List sorted by WSDOT Region, Road, and Milepost location.

WSDOT Region	Site Id	Road	Milepost	Stream	Tributary to	WRIA	County	Lineal Habitat Gain ≥ 200 m	On Original 2013 Injunction List
NW	995247	I-5; NB on-ramp	246	unnamed	unnamed Friday Cr trib	3	Whatcom	Yes	Yes
NW	992003	I-5; NB on-ramp	256	Spring Cr	Baker Cr	1	Whatcom	Yes	Yes
NW	933402	I-5; NB on-ramp	270.5	unnamed	unnamed California Cr trib	1	Whatcom	No	No
NW	995295	I-5; NB ROW	141.17	unnamed	unnamed Hylebos Cr trib	10	King	Yes	Yes
NW	933401	I-5; NB ROW	270.4	unnamed	unnamed California Cr trib	1	Whatcom	Yes	No
NW	933400	I-5; NB; ROW	270.2	unnamed	unnamed California Cr trib	1	Whatcom	Yes	No
NW	993124	I-5; ROW	187.89	unnamed	Silver Lk	8	Snohomish	Yes	Yes
NW	933613	I-5; ROW S 288th St	145.81	Bingaman Cr	Bingaman Pond	9	King	Yes	No
NW	990623	I-5; SB	211.7	Secret Cr	Pilchuck Cr	5	Snohomish	Yes	No
NW	995234	I-5; SB	240.95	unnamed	Friday Cr	3	Skagit	Yes	Yes
NW	995238	I-5; SB	241.03	unnamed	Friday Cr	3	Skagit	Yes	Yes
NW	FR73	I-5; SB	243.91	unnamed	Samish Lk	3	Whatcom	Yes	Yes
NW	994501	I-5; SB	244.2	Barnes Cr	Samish Lk	3	Whatcom	Yes	Yes
NW	995236	I-5; SB Ext 240	240.92	unnamed	Friday Cr	3	Skagit	Yes	Yes
NW	995240	I-5; SB Ext 240	240.99	unnamed	Friday Cr	3	Skagit	Yes	Yes
NW	995256	I-5; SB Ext 246	246.12	unnamed	Lake Cr	3	Whatcom	Yes	Yes
NW	995255	I-5; SB Ext 246	246.22	unnamed	Lake Cr	3	Whatcom	Yes	Yes
NW	995731	I-5; SB Ext 270	270.14	unnamed	unnamed California Cr trib	1	Whatcom	Yes	Yes
NW	995293	I-5; SB off-ramp	142.1	W Hylebos Cr	Hylebos Cr	10	King	Yes	Yes
NW	995259	I-5; SB off-ramp	241.1	unnamed	unnamed Friday Cr trib	3	Skagit	Yes	Yes
NW	995297	I-5; SB on-ramp	141.84	W Hylebos Cr	Hylebos Cr	10	King	Yes	Yes
NW	995235	I-5; SB ROW	240.95	unnamed	Friday Cr	3	Skagit	Yes	Yes
NW	102 M048	I-5; Service Rd	177.85	unnamed	McAleer Cr	8	Snohomish	Yes	Yes
NW	102 M046	I-5; WB Ext 177	177.85	McAleer Cr	Lake Washington	8	Snohomish	Yes	Yes
NW	995720	I-5;NB	270.14	unnamed	unnamed California Cr trib	1	Whatcom	Yes	No

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806 barrier culverts with ≥ 200 meters habitat gain; 183 barrier culverts with <200 meters habitat gain

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WSDOT Region	Site Id	Road	Milepost	Stream	Tributary to	WRIA	County	Lineal Habitat Gain ≥ 200 m	On Original 2013 Injunction List
NW	930940	I-5;ROW	215.07	WF Church Cr	Church Cr	5	Snohomish	Yes	No
NW	933867	I-90	6.78	unnamed	Lake Washington	8	King	No	No
NW	994412	I-90	10.21	Richards Cr	Lake Washington	8	King	No	Yes
NW	996251	I-90	10.52	Sunset Cr	Richards Cr	8	King	Yes	Yes
NW	996478	I-90	12.75	unnamed	Lake Sammamish	8	King	Yes	Yes
NW	992798	I-90	13.83	Lewis Cr	Lake Sammamish	8	King	Yes	Yes
NW	994415	I-90	14.83	W Village Park Cr	Lake Sammamish	8	King	Yes	No
NW	932343	I-90	15.14	unnamed	Lake Sammamish	8	King	Yes	Yes
NW	996472	I-90	15.92	unnamed	Tibbetts Cr	8	King	Yes	Yes
NW	991182	I-90	16.21	unnamed	Tibbetts Cr	8	King	Yes	Yes
NW	996965	I-90	20.42	unnamed	EF Issaquah Cr	8	King	Yes	Yes
NW	994410	I-90	23.13	Soderman Cr	Raging R	7	King	Yes	Yes
NW	994984	I-90	24.86	unnamed	Lake Cr	7	King	Yes	Yes
NW	932089	I-90; EB	21.82	unnamed	EF Issaquah Cr	8	King	No	Yes
NW	996966	I-90; EB on-ramp	15.92	unnamed	Tibbetts Cr	8	King	Yes	Yes
NW	934820	I-90; EB on-ramp	25.69	unnamed	Lake Cr	7	King	Yes	No
NW	934821	I-90; WB	25.68	unnamed	Lake Cr	7	King	Yes	No
NW	996476	I-90; WB Off-Ramp	16.03	unnamed	Tibbetts Cr	8	King	Yes	No
NW	934822	I-90; WB off-ramp	25.68	unnamed	Lake Cr	7	King	Yes	No
NW	996477	I-90; WB onramp	15.82	unnamed	Tibbetts Cr	8	King	Yes	Yes
NW	996967	I-90; WB on-ramp	15.89	unnamed	Tibbetts Cr	8	King	Yes	Yes
NW	990111	SR 104	25.52	Willow Cr	Shelleberger Cr	8	Snohomish	Yes	Yes
NW	996208	SR 104	29.23	unnamed	Lake Ballinger	8	Snohomish	No	Yes
NW	990653	SR 104	30.67	unnamed	Lyon Cr	8	King	Yes	Yes
NW	990253	SR 104	31.23	Lyon Cr	Lake Washington	8	King	Yes	Yes
NW	991623	SR 104	31.73	unnamed	Lyon Cr	8	King	Yes	Yes
NW	995790	SR 11	8.66	unnamed	Samish Bay	1	Skagit	Yes	Yes
NW	995796	SR 11	18.47	unnamed	Chuckanut Cr	1	Whatcom	Yes	Yes
NW	105 S011918a	SR 161	34.03	unnamed	Hylebos Cr	10	King	Yes	Yes



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WSDOT Region	Site Id	Road	Milepost	Stream	Tributary to	WRIA	County	Lineal Habitat Gain $\geq 200$ m	On Original 2013 Injunction List
NW	997974	SR 161	34.14	unnamed	unnamed Hylebos Cr trib	10	King	Yes	Yes
NW	992062	SR 161	34.71	unnamed	Hylebos Cr	10	King	Yes	Yes
NW	992064	SR 161	35.01	unnamed	EF Hylebos Cr	10	King	Yes	Yes
NW	992360	SR 164	5.89	Charlie Jones Cr	White R	10	King	Yes	Yes
NW	996279	SR 164	7.01	unnamed	White R	10	King	No	Yes
NW	991213	SR 164	9.06	Second Cr	White R	10	King	Yes	Yes
NW	996281	SR 164	10.65	unnamed	unnamed White R trib	10	King	No	Yes
NW	991839	SR 164	13.34	unnamed	Newaukum Cr	9	King	Yes	Yes
NW	996290	SR 167	11.37	unnamed	Milwaukee Canal	10	King	Yes	Yes
NW	991224	SR 167	16.12	Mill Cr	Green R	9	King	Yes	No
NW	935187	SR 167	17.39	unnamed	Mill Cr	9	King	No	No
NW	991198	SR 167	21.17	Mill Cr	Springbrook Cr	9	King	Yes	Yes
NW	995469	SR 167	22.63	unnamed	Springbrook Cr	9	King	Unknown	Yes
NW	933329	SR 167	23.71	unnamed	Springbrook Cr	9	King	Yes	No
NW	991681	SR 167	23.84	unnamed	Springbrook Cr	9	King	Yes	Yes
NW	933530	SR 167	23.93	unnamed	unnamed Springbrook Cr trib	9	King	Yes	No
NW	991200	SR 167	24.17	unnamed	Springbrook Cr	9	King	No	Yes
NW	991202	SR 167	25.94	Rolling Hills Cr	Springbrook Cr	9	King	Yes	Yes
NW	935343	SR 167; NB off-ramp	22.24	unnamed	Harrison Cr	9	King	Yes	No
NW	935342	SR 167; NB off-ramp	22.25	unnamed	Harrison Cr	9	King	Yes	No
NW	935056	SR 169	7.1	Rock Cr	Jones Lk	9	King	Yes	No
NW	997691	SR 169	7.15	Unnamed	Jones Lk	9	King	Yes	Yes
NW	997692	SR 169	7.25	unnamed	Jones Lk	9	King	Yes	Yes
NW	997693	SR 169	8.27	unnamed	Ginder Cr	9	King	Yes	Yes
NW	997694	SR 169	8.29	Ginder Cr	Rock Cr	9	King	Yes	Yes
NW	996493	SR 169	18.06	unnamed	Cedar R	8	King	No	Yes
NW	996500	SR 169	19.82	unnamed	Cedar R	8	King	No	No
NW	996514	SR 169; ROW	18.06	unnamed	Cedar R	8	King	No	Yes

## Appendix I. WSDOT Culvert Barriers Relevant to the Injunction (as of June 1, 2023)

806 barrier culverts with ≥ 200 meters habitat gain; 183 barrier culverts with <200 meters habitat gain

List sorted by WSDOT Region, Road, and Milepost location.

WSDOT Region	Site Id	Road	Milepost	Stream	Tributary to	WRIA	County	Lineal Habitat Gain ≥ 200 m	On Original 2013 Injunction List
NW	996277	SR 18	0.29	unnamed	EF Hylebos Cr	10	King	Yes	Yes
NW	997660	SR 18	7.51	unnamed	Big Soos Cr	9	King	Yes	Yes
NW	997661	SR 18	8	unnamed	Soosette Cr	9	King	Yes	Yes
NW	995474	SR 18	21.03	unnamed	Holder Cr	8	King	Yes	Yes
NW	990173	SR 18	22.08	Holder Cr	Issaquah Cr	8	King	Yes	Yes
NW	995970	SR 18	22.55	unnamed	unnamed Holder Cr trib	8	King	No	No
NW	995971	SR 18	22.75	unnamed	Holder Cr	8	King	Yes	Yes
NW	995972	SR 18	22.95	unnamed	Holder Cr	8	King	Yes	Yes
NW	995973	SR 18	23.45	unnamed	Holder Cr	8	King	Yes	Yes
NW	995974	SR 18	23.56	unnamed	unnamed Holder Cr trib	8	King	Yes	Yes
NW	994859	SR 18	23.66	unnamed	Deep Cr	7	King	Yes	No
NW	934882	SR 18	24.42	unnamed	Deep Cr	7	King	Yes	No
NW	935338	SR 18	24.71	unnamed	Deep Cr	7	King	No	No
NW	07.0396 0.80	SR 18	25.7	Deep Cr	Raging R	7	King	Yes	Yes
NW	990236	SR 18	27.57	Lake Cr	Raging R	7	King	Yes	Yes
NW	934828	SR 18	27.83	unnamed	Lake Cr	7	King	Yes	No
NW	995298	SR 18; SW cloverleaf	2.67	W Hylebos Cr	Hylebos Cr	10	King	Yes	Yes
NW	996319	SR 20	46.01	unnamed	Campbell Lk	3	Skagit	Yes	Yes
NW	995422	SR 20	46.54	unnamed	Lake Campbell	3	Skagit	Yes	No
NW	995423	SR 20	48.08	unnamed	Fidalgo Bay	3	Skagit	Yes	No
NW	995424	SR 20	48.12	unnamed	Fidalgo Bay	3	Skagit	Yes	No
NW	995425	SR 20	48.17	unnamed	Fidalgo Bay	3	Skagit	Yes	No
NW	PA104	SR 20	51.77	Blind Sl	Padilla Bay	3	Skagit	Yes	No
NW	SF49	SR 20	61.26	Gages Sl	Skagit R	3	Skagit	Yes	Yes
NW	991142	SR 20	69.08	unnamed	Red Cr	3	Skagit	Yes	Yes
NW	991547	SR 20	70.24	unnamed	Coal Cr	3	Skagit	Yes	Yes
NW	991146	SR 20	72.85	Childs Cr	Skagit R	3	Skagit	Yes	No
NW	995436	SR 20	78.01	unnamed	Careys Lk	3	Skagit	No	Yes
NW	991123	SR 20	80.1	unnamed	Skagit R	3	Skagit	Yes	No

## Appendix I. WSDOT Culvert Barriers Relevant to the Injunction (as of June 1, 2023)

806 barrier culverts with  $\geq 200$  meters habitat gain; 183 barrier culverts with  $<200$  meters habitat gain

List sorted by WSDOT Region, Road, and Milepost location.

WSDOT Region	Site Id	Road	Milepost	Stream	Tributary to	WRIA	County	Lineal Habitat Gain $\geq 200$ m	On Original 2013 Injunction List
NW	991445	SR 20	85.63	unnamed	unnamed Skagit R trib	4	Skagit	Yes	Yes
NW	997396	SR 20	85.94	unnamed	House Cr	4	Skagit	Yes	Yes
NW	997398	SR 20	86.86	unnamed	Skagit R	4	Skagit	Yes	Yes
NW	GR54	SR 20	87.01	Eagle Cr	Skagit R	4	Skagit	Yes	Yes
NW	991150	SR 20	87.2	Eagle Cr	Skagit R	4	Skagit	Yes	No
NW	991151	SR 20	87.31	Eagle Cr	Skagit R	4	Skagit	Yes	Yes
NW	991707	SR 20	93.21	unnamed	Skagit R	4	Skagit	No	Yes
NW	991709	SR 20	93.7	unnamed	Skagit R	4	Skagit	No	Yes
NW	991710	SR 20	93.84	unnamed	Skagit R	4	Skagit	Yes	Yes
NW	994308	SR 20	94.47	unnamed	Skagit R	4	Skagit	Yes	Yes
NW	991125	SR 20	94.68	unnamed	Skagit R	4	Skagit	No	Yes
NW	991126	SR 20	94.82	unnamed	Skagit R	4	Skagit	Yes	Yes
NW	990410	SR 20	99.95	Sutter Cr	Skagit R	4	Skagit	Yes	Yes
NW	995097	SR 20	105.34	Backus Cr	Skagit R	4	Skagit	No	Yes
NW	CD18	SR 20	105.42	Olson Cr	Skagit R	4	Skagit	Yes	Yes
NW	991131	SR 20	112.9	unnamed	Skagit R	4	Skagit	Yes	Yes
NW	994947	SR 20	114.71	unnamed	Skagit R	4	Skagit	No	Yes
NW	DM7	SR 20	116.25	unnamed	Skagit R	4	Skagit	Yes	Yes
NW	991452	SR 20	118.41	Babcock Cr	Skagit R	4	Whatcom	No	Yes
NW	995430	SR 20; SPUR	50.48	unnamed	Fidalgo Bay	3	Skagit	Yes	Yes
NW	996917	SR 202	0.97	unnamed	Sammamish R	8	King	No	Yes
NW	996921	SR 202	4.17	unnamed	High School Cr	8	King	Yes	Yes
NW	996925	SR 202	4.25	High School Cr	Sammamish R	8	King	Yes	Yes
NW	991181	SR 202	5.27	unnamed	Sammamish R	8	King	No	Yes
NW	990142	SR 202	11.96	Evans Cr	Bear Cr	8	King	Yes	Yes
NW	995194	SR 202	16.79	unnamed	Patterson Cr	7	King	Yes	Yes
NW	101S-22	SR 202	22.56	unnamed	Snoqualmie R	7	King	Yes	Yes
NW	101SA-06	SR 202	23.18	Skunk Cr	Snoqualmie R	7	King	Yes	Yes
NW	995200	SR 202	23.22	unnamed	Skunk Cr	7	King	Yes	Yes



## Appendix I. WSDOT Culvert Barriers Relevant to the Injunction (as of June 1, 2023)

806 barrier culverts with ≥ 200 meters habitat gain; 183 barrier culverts with <200 meters habitat gain

List sorted by WSDOT Region, Road, and Milepost location.

WSDOT Region	Site Id	Road	Milepost	Stream	Tributary to	WRIA	County	Lineal Habitat Gain ≥ 200 m	On Original 2013 Injunction List
NW	101S-10	SR 202	23.45	Mud Cr	Snoqualmie R	7	King	Yes	No
NW	101L-01	SR 203	3.97	unnamed	Griffin Cr	7	King	No	Yes
NW	991720	SR 203	4.37	unnamed	Snoqualmie R	7	King	Yes	Yes
NW	991721	SR 203	4.91	Indian Cr	Langlois Cr	7	King	Yes	No
NW	995167	SR 203	7.26	unnamed	Horseshoe Lk	7	King	Yes	Yes
NW	995184	SR 203	18.19	unnamed	Snoqualmie R	7	Snohomish	No	Yes
NW	995186	SR 203	18.48	unnamed	Snoqualmie R	7	Snohomish	No	Yes
NW	995190	SR 203	19.73	unnamed	Snoqualmie R	7	Snohomish	Yes	No
NW	995137	SR 204	0.21	unnamed	Ebey Sl	7	Snohomish	Yes	Yes
NW	995138	SR 204	0.54	unnamed	Ebey Sl	7	Snohomish	Yes	Yes
NW	995150	SR 204	1.19	Burri Cr	Ebey Sl	7	Snohomish	Yes	Yes
NW	995152	SR 204	1.8	Weiser Cr	Ebey Sl	7	Snohomish	Yes	Yes
NW	991204	SR 410	22.67	unnamed	Boise Cr	10	King	Yes	No
NW	991206	SR 410	22.94	unnamed	Boise Cr	10	King	Yes	No
NW	990474	SR 410	25.17	Watercress Cr	Newaukum Cr	9	King	Yes	Yes
NW	990082	SR 410	35.77	Clay Cr	White R	10	King	Yes	Yes
NW	991219	SR 410	39.18	unnamed	White R	10	King	No	Yes
NW	105 R022221a	SR 410	41.42	unnamed	White R	10	King	Yes	Yes
NW	105 R071916a	SR 410	48.29	Boundary Cr	White R	10	Pierce	Yes	Yes
NW	105 R072018a	SR 410	59.57	unnamed	White R	10	Pierce	No	Yes
NW	996266	SR 509	9.18	unnamed	Puget Sound	10	King	Yes	Yes
NW	991651	SR 509	9.6	unnamed	Puget Sound	10	King	No	Yes
NW	996270	SR 509	10.96	Lakota Cr	Puget Sound	10	King	Yes	Yes
NW	996272	SR 509	11.43	unnamed	Lakota Cr	10	King	Yes	Yes
NW	991192	SR 509	13.49	Cold Cr	Puget Sound	9	King	Yes	Yes
NW	997679	SR 509	24.42	Miller Cr	Puget Sound	9	King	Yes	Yes
NW	997681	SR 509	29.15	Lost Fork Hamm Cr	Duwamish R	9	King	No	Yes
NW	997675	SR 509; SR 99	14.2	Redondo Cr	Poverty Bay	9	King	Yes	Yes
NW	997645	SR 515	3.97	Panther Cr	Springbrook Cr	9	King	Yes	Yes

## Appendix I. WSDOT Culvert Barriers Relevant to the Injunction (as of June 1, 2023)

806 barrier culverts with  $\geq 200$  meters habitat gain; 183 barrier culverts with  $<200$  meters habitat gain

List sorted by WSDOT Region, Road, and Milepost location.

WSDOT Region	Site Id	Road	Milepost	Stream	Tributary to	WRIA	County	Lineal Habitat Gain $\geq 200$ m	On Original 2013 Injunction List
NW	936016	SR 515	6.75	Rolling Hills Cr	Springbrook Cr	9	King	Yes	No
NW	994409	SR 515	7.08	Thunder Hills Cr	Rolling Hills Cr	9	King	Yes	Yes
NW	991191	SR 516	0.43	Barnes Cr	Massey Cr	9	King	Yes	Yes
NW	997649	SR 516	2.98	unnamed	Green R	9	King	Yes	Yes
NW	997651	SR 516	5.8	Mill Cr	Springbrook Cr	9	King	Yes	Yes
NW	998886	SR 518	2.82	Gilliam Cr	Green R	9	King	Yes	Yes
NW	992651	SR 518	3	unnamed	Gilliam Cr	9	King	No	Yes
NW	997697	SR 518	3.57	unnamed	Gilliam Cr	9	King	No	Yes
NW	994117	SR 520	5.42	unnamed	Lake Washington	8	King	No	Yes
NW	990167	SR 520	7.9	Goff Cr	WF Kelsey Cr	8	King	Yes	Yes
NW	990430	SR 522	2.86	Thornton Cr	Lake Washington	8	King	Yes	Yes
NW	990274	SR 522	4.69	Bsche'tla Cr	Lake Washington	8	King	Yes	No
NW	990655	SR 522	6.63	Cat Whisker Cr	Lake Washington	8	King	Yes	Yes
NW	993083	SR 522	11.26	Par Cr	Sammamish R	8	King	Yes	Yes
NW	996916	SR 522	12.86	unnamed	Little Bear Cr	8	King	Yes	Yes
NW	994430	SR 522	14.25	Howell Cr	Little Bear Cr	8	Snohomish	Yes	Yes
NW	994432	SR 522	14.38	unnamed	Howell Cr	8	Snohomish	No	Yes
NW	994440	SR 522	16.57	Daniels Cr	Cottage Lake Cr	8	Snohomish	Yes	Yes
NW	992371	SR 522	17.48	unnamed	Evans Cr	7	Snohomish	Yes	Yes
NW	992632	SR 522	17.82	unnamed	Evans Cr	7	Snohomish	Yes	Yes
NW	992631	SR 522	17.87	unnamed	Evans Cr	7	Snohomish	Yes	Yes
NW	934276	SR 522	18.77	unnamed	unnamed Evans Cr trib	7	Snohomish	Unknown	No
NW	992378	SR 522	19.28	Anderson Cr	Evans Cr	7	Snohomish	Yes	Yes
NW	990139	SR 522	20.19	Elliott Cr	Snohomish R	7	Snohomish	Yes	Yes
NW	931850	SR 522	21.82	unnamed	unnamed Snohomish R trib	7	Snohomish	No	Yes
NW	996880	SR 522; ROW	12.86	unnamed	Little Bear Cr	8	King	Yes	Yes
NW	996915	SR 523	1.24	Littles Cr	Thornton Cr	8	King	Yes	Yes
NW	993103	SR 524	3.89	Scriber Cr	Swamp Cr	8	Snohomish	Yes	Yes

## Appendix I. WSDOT Culvert Barriers Relevant to the Injunction (as of June 1, 2023)

806 barrier culverts with  $\geq 200$  meters habitat gain; 183 barrier culverts with  $<200$  meters habitat gain

List sorted by WSDOT Region, Road, and Milepost location.

WSDOT Region	Site Id	Road	Milepost	Stream	Tributary to	WRIA	County	Lineal Habitat Gain $\geq 200$ m	On Original 2013 Injunction List
NW	992846	SR 524	5.54	Golde Cr	Scriber Cr	8	Snohomish	Yes	Yes
NW	993100	SR 524	6.95	Martha Cr	Swamp Cr	8	Snohomish	Yes	Yes
NW	991053	SR 524	8.06	unnamed	North Cr	8	Snohomish	No	Yes
NW	996460	SR 524	14.28	Daniels Cr	Cottage Lk Cr	8	Snohomish	Yes	Yes
NW	994124	SR 524	14.4	Daniels Cr	Cottage Lk Cr	8	Snohomish	Yes	Yes
NW	994123	SR 524	14.52	Daniels Cr	Cottage Lk Cr	8	Snohomish	Yes	Yes
NW	996205	SR 524; SPUR	0.21	Shelleberger Cr	Puget Sound	8	Snohomish	Yes	Yes
NW	102 S088	SR 525	0.28	Maple Cr	Swamp Cr	8	Snohomish	Yes	No
NW	991176	SR 525	1.1	Box Springs Cr	Swamp Cr	8	Snohomish	Yes	Yes
NW	991054	SR 525	2.05	unnamed	Swamp Cr	8	Snohomish	Yes	Yes
NW	991962	SR 525	5.67	unnamed	Big Gulch	8	Snohomish	No	No
NW	996203	SR 525	7.56	unnamed	Possession Bay	8	Snohomish	No	Yes
NW	995994	SR 525	9.14	Clinton Cr	Puget Sound	6	Island	Yes	Yes
NW	995986	SR 525	9.54	Clinton Cr	Puget Sound	6	Island	Yes	Yes
NW	995984	SR 525	9.7	Clinton Cr	Puget Sound	6	Island	Yes	Yes
NW	995992	SR 525	11.99	Maxwelton Cr	Useless Bay	6	Island	Yes	Yes
NW	991805	SR 525	15.03	unnamed	Deer Lagoon	6	Island	Yes	Yes
NW	995126	SR 526	0.77	Japanese Gulch Cr	Possession Sound	7	Snohomish	Yes	No
NW	993084	SR 527	2.76	Queensborough Cr	North Cr	8	Snohomish	Yes	Yes
NW	08.0077 0.20	SR 527	6.55	Penny Cr	North Cr	8	Snohomish	Yes	Yes
NW	990294	SR 528	2.51	Munson Cr	Allen Cr	7	Snohomish	Yes	Yes
NW	934372	SR 529; SB	6	unnamed	Steamboat Sl	7	Snohomish	No	No
NW	990629	SR 530	25.74	unnamed	Schoolyard Cr	5	Snohomish	Yes	Yes
NW	996092	SR 530	25.88	unnamed	Schoolyard Cr	5	Snohomish	No	Yes
NW	990628	SR 530	26.29	unnamed	Schoolyard Cr	5	Snohomish	Yes	Yes
NW	991161	SR 530	26.4	unnamed	unnamed Schoolyard Cr trib	5	Snohomish	No	Yes
NW	990632	SR 530	26.68	unnamed	NF Stillaguamish R	5	Snohomish	Yes	Yes
NW	990633	SR 530	26.87	unnamed	NF Stillaguamish R	5	Snohomish	Yes	Yes



## Appendix I. WSDOT Culvert Barriers Relevant to the Injunction (as of June 1, 2023)

806 barrier culverts with  $\geq 200$  meters habitat gain; 183 barrier culverts with  $<200$  meters habitat gain

List sorted by WSDOT Region, Road, and Milepost location.

WSDOT Region	Site Id	Road	Milepost	Stream	Tributary to	WRIA	County	Lineal Habitat Gain $\geq 200$ m	On Original 2013 Injunction List
NW	990630	SR 530	27.46	unnamed	NF Stillaguamish R	5	Snohomish	Yes	Yes
NW	990634	SR 530	27.66	unnamed	NF Stillaguamish R	5	Snohomish	No	Yes
NW	990361	SR 530	27.75	Ryan Falls Cr	Stillaguamish R	5	Snohomish	No	Yes
NW	990638	SR 530	30.67	unnamed	McGovern Cr	5	Snohomish	No	Yes
NW	990644	SR 530	31.01	unnamed	NF Stillaguamish R	5	Snohomish	Yes	Yes
NW	991164	SR 530	32.51	unnamed	NF Stillaguamish R	5	Snohomish	No	Yes
NW	990645	SR 530	33.3	unnamed	NF Stillaguamish R	5	Snohomish	No	No
NW	990639	SR 530	34.3	unnamed	NF Stillaguamish R	5	Snohomish	No	Yes
NW	990646	SR 530	34.7	unnamed	NF Stillaguamish R	5	Snohomish	Yes	Yes
NW	996100	SR 530	35.06	unnamed	NF Stillaguamish R	5	Snohomish	No	Yes
NW	990640	SR 530	35.24	unnamed	Montague Cr	5	Snohomish	Yes	Yes
NW	995402	SR 530	36.67	unnamed	NF Stillaguamish R	5	Snohomish	No	Yes
NW	990650	SR 530	38.6	unnamed	NF Stillaguamish R	5	Snohomish	No	Yes
NW	990246	SR 530	42.14	Little French Cr	NF Stillaguamish R	5	Snohomish	Yes	Yes
NW	990652	SR 530	43.34	unnamed	NF Stillaguamish R	5	Snohomish	Yes	Yes
NW	997712	SR 530	64.41	unnamed	Hilt Cr	4	Skagit	No	Yes
NW	990885	SR 530	66.5	unnamed	Skagit R	4	Skagit	Yes	No
NW	991750	SR 531	2.61	Fish Cr	Portage Cr	5	Snohomish	Yes	Yes
NW	991057	SR 531	8.37	unnamed	Edgecomb Cr	7	Snohomish	No	No
NW	995208	SR 531	9.68	unnamed	Prairie Cr	7	Snohomish	Yes	No
NW	990080	SR 532	6.68	unnamed	Church Cr	5	Snohomish	Yes	Yes
NW	CR2	SR 534	0.53	unnamed	Carpenter Cr	3	Skagit	Yes	Yes
NW	995265	SR 534; ROW	0.6	unnamed	Carpenter Cr	3	Skagit	Yes	Yes
NW	PA2	SR 536	2.07	unnamed	unnamed Higgins Sl trib	3	Skagit	Unknown	No
NW	992987	SR 539	0.04	Baker Cr	Squalicum Cr	1	Whatcom	Yes	Yes
NW	990015	SR 539	0.3	Spring Cr	Baker Cr	1	Whatcom	Yes	Yes
NW	936210	SR 539	3.49	Silver Cr	Nooksack R	1	Whatcom	Yes	No
NW	991473	SR 539	11.1	Duffner Ditch	Bertrand Cr	1	Whatcom	Yes	Yes

## Appendix I. WSDOT Culvert Barriers Relevant to the Injunction (as of June 1, 2023)

806 barrier culverts with  $\geq 200$  meters habitat gain; 183 barrier culverts with  $<200$  meters habitat gain

List sorted by WSDOT Region, Road, and Milepost location.

WSDOT Region	Site Id	Road	Milepost	Stream	Tributary to	WRIA	County	Lineal Habitat Gain $\geq 200$ m	On Original 2013 Injunction List
NW	991973	SR 539; ROW	0.3	WF Springs Cr	Spring Cr	1	Whatcom	Yes	No
NW	991803	SR 542	2.4	Toad Lk Cr	Squalicum Cr	1	Whatcom	Yes	Yes
NW	990014	SR 542	3.45	Squalicum Cr	Bellingham Bay	1	Whatcom	Yes	No
NW	991111	SR 542	13.47	unnamed	Mitchell Cr	1	Whatcom	Yes	Yes
NW	990584	SR 542	15.05	unnamed	Jim Cr	1	Whatcom	Yes	Yes
NW	990585	SR 542	15.08	unnamed	Jim Cr	1	Whatcom	Yes	Yes
NW	990588	SR 542	15.97	unnamed	NF Nooksack R	1	Whatcom	Yes	Yes
NW	995776	SR 542	16.21	unnamed	unnamed Nooksack R trib	1	Whatcom	No	Yes
NW	991107	SR 542	16.28	unnamed	Nooksack R	1	Whatcom	No	Yes
NW	995777	SR 542	17.37	unnamed	NF Nooksack R	1	Whatcom	Yes	Yes
NW	990589	SR 542	17.85	unnamed	NF Nooksack R	1	Whatcom	No	Yes
NW	991112	SR 542	19.6	unnamed	NF Nooksack R	1	Whatcom	Yes	No
NW	991704	SR 542	20.1	unnamed	NF Nooksack R	1	Whatcom	Unknown	No
NW	991705	SR 542	21.45	unnamed	Kendall Cr	1	Whatcom	Yes	Yes
NW	991113	SR 542	23.95	unnamed	High Cr	1	Whatcom	Yes	Yes
NW	995770	SR 542	24.25	unnamed	High Cr	1	Whatcom	Yes	Yes
NW	990577	SR 542	24.49	unnamed	High Cr	1	Whatcom	Yes	Yes
NW	990590	SR 542	26.25	unnamed	NF Nooksack R	1	Whatcom	No	Yes
NW	991640	SR 542	27.2	unnamed	Nooksack R	1	Whatcom	Yes	Yes
NW	995409	SR 542	28.87	unnamed	NF Nooksack R	1	Whatcom	Yes	Yes
NW	990580	SR 542	29.02	unnamed	NF Nooksack R	1	Whatcom	No	Yes
NW	990598	SR 542	31.57	unnamed	NF Nooksack R	1	Whatcom	Yes	Yes
NW	990600	SR 542	32.08	unnamed	Hedrick Cr	1	Whatcom	Yes	Yes
NW	990602	SR 542	34.49	unnamed	NF Nooksack R	1	Whatcom	Yes	Yes
NW	990604	SR 542	38.15	Deerhorn Cr	NF Nooksack R	1	Whatcom	No	Yes
NW	930309	SR 543	0.12	Cain Cr	Semiahmoo Bay	1	Whatcom	Yes	Yes
NW	996168	SR 544	3.51	unnamed	Four Mile Cr	1	Whatcom	Yes	Yes
NW	996163	SR 546	1.47	unnamed	Fishtrap Cr	1	Whatcom	Yes	Yes

## Appendix I. WSDOT Culvert Barriers Relevant to the Injunction (as of June 1, 2023)

806 barrier culverts with  $\geq 200$  meters habitat gain; 183 barrier culverts with  $<200$  meters habitat gain

List sorted by WSDOT Region, Road, and Milepost location.

WSDOT Region	Site Id	Road	Milepost	Stream	Tributary to	WRIA	County	Lineal Habitat Gain $\geq 200$ m	On Original 2013 Injunction List
NW	996164	SR 546	2.01	unnamed	Fishtrap Cr	1	Whatcom	Yes	Yes
NW	996167	SR 546	6.02	unnamed	Páatstel Cr	1	Whatcom	Yes	Yes
NW	995774	SR 547	6.71	unnamed	Saar Cr	1	Whatcom	Yes	Yes
NW	996006	SR 548	0.87	unnamed	California Cr	1	Whatcom	Yes	Yes
NW	996007	SR 548	1.14	unnamed	unnamed California Cr trib	1	Whatcom	Yes	Yes
NW	996008	SR 548	1.24	unnamed	California Cr	1	Whatcom	Yes	Yes
NW	996142	SR 548	4.27	unnamed	Fingalson Cr	1	Whatcom	No	Yes
NW	996148	SR 548	6.76	unnamed	Terrell Cr	1	Whatcom	Yes	Yes
NW	996153	SR 548	10.55	unnamed	California Cr	1	Whatcom	Yes	Yes
NW	936092	SR 548	12.48	unnamed	Drayton Harbor	1	Whatcom	Yes	No
NW	996156	SR 548	13.8	Cain Cr	Semiahmoo Bay	1	Whatcom	Yes	Yes
NW	102 L012	SR 9	0.17	Howell Cr	Little Bear Cr	8	Snohomish	Yes	Yes
NW	995982	SR 9	10.61	Cemetery Cr	Snohomish R	7	Snohomish	Yes	Yes
NW	995087	SR 9	12.57	Bunk Foss Cr	Pilchuck R	7	Snohomish	Yes	Yes
NW	995086	SR 9	16.66	Hulbert Cr	Ebey Sl	7	Snohomish	Yes	Yes
NW	991813	SR 9	17.75	unnamed	Stevens Cr	7	Snohomish	Yes	Yes
NW	991814	SR 9	18.79	unnamed	Lake Stevens	7	Snohomish	No	Yes
NW	995085	SR 9	22.58	Quilceda Cr	Ebey Sl	7	Snohomish	Yes	No
NW	995084	SR 9	22.72	unnamed	Quilceda Cr	7	Snohomish	Yes	Yes
NW	102 Q028	SR 9	24.44	unnamed	Quilceda Cr	7	Snohomish	Yes	Yes
NW	990255	SR 9	27.24	Prairie Cr	Portage Cr	5	Snohomish	Yes	Yes
NW	996079	SR 9	27.94	unnamed	unnamed to Portage Cr	5	Snohomish	Yes	Yes
NW	991166	SR 9	32.2	Bryant Cr	Armstrong Cr	5	Snohomish	Yes	Yes
NW	996080	SR 9	33.2	Roth Cr	Bryant Lk	5	Snohomish	Yes	Yes
NW	996082	SR 9	34.23	unnamed	unnamed Pilchuck Cr trib	5	Snohomish	Yes	Yes
NW	LP23	SR 9	35.46	unnamed	unnamed Pilchuck Cr trib	5	Snohomish	Yes	Yes
NW	996088	SR 9	38.14	unnamed	unnamed Pilchuck Cr trib	5	Skagit	No	Yes



## Appendix I. WSDOT Culvert Barriers Relevant to the Injunction (as of June 1, 2023)

806 barrier culverts with  $\geq 200$  meters habitat gain; 183 barrier culverts with  $<200$  meters habitat gain

List sorted by WSDOT Region, Road, and Milepost location.

WSDOT Region	Site Id	Road	Milepost	Stream	Tributary to	WRIA	County	Lineal Habitat Gain $\geq 200$ m	On Original 2013 Injunction List
NW	996089	SR 9	38.27	unnamed	unnamed Pilchuck Cr trib	5	Skagit	No	Yes
NW	LP31	SR 9	38.64	unnamed	unnamed Pilchuck Cr trib	5	Skagit	No	Yes
NW	LP32	SR 9	38.69	unnamed	Pilchuck Cr	5	Skagit	Yes	Yes
NW	991158	SR 9	38.83	unnamed	Pilchuck Cr	5	Skagit	Yes	No
NW	NC158	SR 9	39.16	unnamed	Lake McMurray	3	Skagit	Yes	Yes
NW	995275	SR 9	39.51	unnamed	Lake McMurray	3	Skagit	No	Yes
NW	NC180	SR 9	39.69	unnamed	Lake McMurray	3	Skagit	Yes	Yes
NW	NC170	SR 9	39.87	unnamed	Lake McMurray	3	Skagit	Yes	Yes
NW	NC166	SR 9	40.77	unnamed	Lake McMurray	3	Skagit	Yes	Yes
NW	991451	SR 9	41.5	unnamed	Lake Cr	3	Skagit	No	Yes
NW	NC164	SR 9	41.93	unnamed	Lake Cr	3	Skagit	Yes	Yes
NW	NC163	SR 9	43.08	unnamed	Lake Cr	3	Skagit	Yes	Yes
NW	NC69	SR 9	49	unnamed	Nookachamps Cr	3	Skagit	Yes	Yes
NW	HC53	SR 9	59.08	unnamed	unnamed Hansen Cr trib	3	Skagit	Yes	Yes
NW	HC93	SR 9	59.46	unnamed	Hansen Cr	3	Skagit	Yes	Yes
NW	991114	SR 9	62.36	unnamed	Samish R	3	Skagit	Yes	No
NW	SR71	SR 9	63.74	unnamed	Samish R	3	Skagit	Yes	No
NW	SR67	SR 9	64.45	unnamed	Samish R	3	Skagit	No	Yes
NW	991135	SR 9	64.68	unnamed	Samish R	3	Skagit	No	Yes
NW	995390	SR 9	64.93	unnamed	Samish R	3	Skagit	No	Yes
NW	991136	SR 9	65.07	unnamed	Samish R	3	Skagit	No	Yes
NW	991116	SR 9	65.32	unnamed	Samish R	3	Skagit	Yes	No
NW	991446	SR 9	66.51	unnamed	Samish R	3	Skagit	No	No
NW	991447	SR 9	66.85	unnamed	Samish R	3	Whatcom	Yes	Yes
NW	995392	SR 9	67.46	unnamed	Samish R	3	Whatcom	No	Yes
NW	995395	SR 9	69.1	unnamed	Samish R	3	Whatcom	No	Yes
NW	995396	SR 9	69.15	unnamed	Samish R	3	Whatcom	No	Yes

## Appendix I. WSDOT Culvert Barriers Relevant to the Injunction (as of June 1, 2023)

806 barrier culverts with  $\geq 200$  meters habitat gain; 183 barrier culverts with  $<200$  meters habitat gain

List sorted by WSDOT Region, Road, and Milepost location.

WSDOT Region	Site Id	Road	Milepost	Stream	Tributary to	WRIA	County	Lineal Habitat Gain $\geq 200$ m	On Original 2013 Injunction List
NW	930834	SR 9	69.87	unnamed	Samish R	3	Whatcom	Unknown	Yes
NW	995398	SR 9	69.88	unnamed	Samish R	3	Whatcom	Yes	Yes
NW	995780	SR 9	70.81	unnamed	SF Nooksack R	1	Whatcom	No	Yes
NW	995783	SR 9	71.54	unnamed	SF Nooksack R	1	Whatcom	No	Yes
NW	992344	SR 9	76.95	unnamed	Black Sl	1	Whatcom	Yes	Yes
NW	992345	SR 9	77.12	unnamed	Black Sl	1	Whatcom	Yes	Yes
NW	991702	SR 900	18.59	unnamed	May Cr	8	King	Yes	Yes
NW	990432	SR 900	19.14	unnamed	Tibbetts Cr	8	King	No	Yes
NW	991185	SR 900	19.4	unnamed	Tibbetts Cr	8	King	No	Yes
NW	990433	SR 900	19.5	Tibbetts Cr	Lake Sammamish	8	King	Yes	Yes
NW	992641	SR 92	0.22	unnamed	Stevens Cr	7	Snohomish	Yes	Yes
NW	991827	SR 92	0.78	Lundeen Cr	Lake Stevens	7	Snohomish	Yes	Yes
NW	991830	SR 92	2.2	unnamed	Catherine Cr	7	Snohomish	No	Yes
NW	991831	SR 92	2.99	unnamed	Little Pilchuck Cr	7	Snohomish	Yes	Yes
NW	102 N183	SR 96	0.47	North Cr	Sammamish R	8	Snohomish	Yes	Yes
NW	995326	SR 96	5.29	Thomas Cr	Marshland Sl	7	Snohomish	Yes	Yes
NW	995214	SR 96	5.86	unnamed	Marshland Canal	7	Snohomish	Yes	Yes
NW	995215	SR 96	5.98	unnamed	unnamed Snohomish R trib	7	Snohomish	Yes	Yes
NW	995216	SR 96	6.09	unnamed	Marshland Canal	7	Snohomish	Yes	Yes
NW	995217	SR 96	6.49	unnamed	Marshland Canal	7	Snohomish	Yes	Yes
NW	991196	SR 99	13.54	McSorley Cr	Puget Sound	9	King	Yes	Yes
NW	997684	SR 99	23.41	unnamed	Duwamish R	9	King	Yes	Yes
NW	997685	SR 99	24.71	unnamed	NF Hamm Cr	9	King	No	Yes
NW	997687	SR 99	24.86	NF Hamm Cr	Duwamish R	9	King	Yes	Yes
NW	934387	SR 99	48.69	unnamed	Swamp Cr	8	Snohomish	Yes	No
NW	996216	SR 99	49.01	unnamed	Scriber Cr	8	Snohomish	Yes	Yes
NW	993849	SR 99	51.45	unnamed	Swamp Cr	8	Snohomish	Yes	Yes
NW	102 N192	SR 99	54.23	North Cr	Sammamish R	8	Snohomish	Yes	Yes

## Appendix I. WSDOT Culvert Barriers Relevant to the Injunction (as of June 1, 2023)

806 barrier culverts with ≥ 200 meters habitat gain; 183 barrier culverts with <200 meters habitat gain

List sorted by WSDOT Region, Road, and Milepost location.

WSDOT Region	Site Id	Road	Milepost	Stream	Tributary to	WRIA	County	Lineal Habitat Gain ≥ 200 m	On Original 2013 Injunction List
NW	995049	US 2	4.67	Cemetery Cr	Snohomish R	7	Snohomish	Yes	No
NW	932428	US 2	5.18	Bunk Foss Cr	Pilchuck R	7	Snohomish	Yes	Yes
NW	995108	US 2	12.94	unnamed	French Cr	7	Snohomish	Yes	Yes
NW	101NORT-01	US 2	15.74	unnamed	Skykomish R	7	Snohomish	Yes	No
NW	101NORT-32	US 2	20.48	unnamed	unnamed Skykomish R trib	7	Snohomish	Yes	Yes
NW	101NORT-33	US 2	20.53	unnamed	Skykomish R	7	Snohomish	Yes	Yes
NW	101OWEN-02	US 2	21.74	Groeneveld Cr	Skykomish R	7	Snohomish	Yes	Yes
NW	991825	US 2	36.73	unnamed	SF Skykomish R	7	Snohomish	No	Yes
NW	995000	US 2	45.47	unnamed	SF Skykomish R	7	King	Yes	Yes
NW	995002	US 2	48.78	unnamed	SF Skykomish R	7	King	No	Yes
NW	995020	US 2	48.94	unnamed	SF Skykomish R	7	King	Yes	Yes
NW	995021	US 2	49.87	unnamed	SF Skykomish R	7	King	Yes	Yes
NW	995062	US 2	52.39	unnamed	Tye R	7	King	No	Yes
NW	995023	US 2	52.7	unnamed	Tye R	7	King	Yes	Yes
NW	932426	US 2; WB on-ramp	5.02	Bunk Foss Cr	Pilchuck R	7	Snohomish	Yes	Yes
OL	932143	Central Valley Rd NW	6.9	unnamed	Hoot Cr	15	Kitsap	Yes	No
OL	991040	I-5	86.2	unnamed	Prairie Cr	23	Thurston	Yes	No
OL	991499	I-5	94.57	unnamed	Beaver Cr	23	Thurston	Yes	Yes
OL	990028	I-5	94.96	Beaver Cr	Black R	23	Thurston	Yes	No
OL	991659	I-5	98.11	unnamed	Salmon Cr	23	Thurston	Yes	No
OL	997706	I-5	104.13	unnamed	Deschutes R	13	Thurston	Yes	Yes
OL	990292	I-5	105.52	Moxlie Cr	Budd Inlet	13	Thurston	Yes	Yes
OL	990199	I-5	105.85	Indian Cr	Moxlie Cr	13	Thurston	Yes	Yes
OL	998888	I-5	109.19	College Cr	Woodland Cr	13	Thurston	No	No
OL	997705	I-5	109.62	College Cr	Woodland Cr	13	Thurston	Yes	Yes
OL	933186	I-5	134.33	unnamed	Puyallup R	10	Pierce	No	No
OL	933313	I-5; NB	115.77	unnamed	unnamed Red Salmon Cr trib	11	Pierce	No	No
OL	162173	SR 104	4.25	unnamed	Barnhouse Cr	17	Jefferson	Yes	Yes

## Appendix I. WSDOT Culvert Barriers Relevant to the Injunction (as of June 1, 2023)

806 barrier culverts with ≥ 200 meters habitat gain; 183 barrier culverts with <200 meters habitat gain

List sorted by WSDOT Region, Road, and Milepost location.

WSDOT Region	Site Id	Road	Milepost	Stream	Tributary to	WRIA	County	Lineal Habitat Gain ≥ 200 m	On Original 2013 Injunction List
OL	990375	SR 104	10.36	Shine Cr	Hood Canal	17	Jefferson	Yes	Yes
OL	162192	SR 104	12.57	unnamed	Squamish Harbor	17	Jefferson	Yes	Yes
OL	990710	SR 104	16.55	Machias Cr	Hood Canal	15	Kitsap	Yes	Yes
OL	992199	SR 104	17.67	Ladine DeCouteau Cr	Port Gamble	15	Kitsap	Yes	Yes
OL	992200	SR 104	17.82	unnamed	Port Gamble	15	Kitsap	Yes	Yes
OL	992201	SR 104	19.12	unnamed	Port Gamble	15	Kitsap	Yes	Yes
OL	992202	SR 104	19.39	unnamed	Port Gamble	15	Kitsap	Yes	Yes
OL	996729	SR 104	22.23	unnamed	Grovers Cr	15	Kitsap	Yes	Yes
OL	992207	SR 104	22.95	Carpenter Cr	Appletree Cove	15	Kitsap	Yes	Yes
OL	992208	SR 104	23.37	unnamed	Appletree Cove	15	Kitsap	No	Yes
OL	995760	SR 104; EB offramp	0.18	unnamed	unnamed Snow Cr trib	17	Jefferson	Yes	No
OL	991295	SR 105	31.11	unnamed	South Bay	22	Grays Harbor	Yes	Yes
OL	993007	SR 105	31.79	unnamed	South Bay	22	Grays Harbor	No	Yes
OL	993010	SR 105	34.02	unnamed	unnamed South Bay trib	22	Grays Harbor	Yes	No
OL	990905	SR 105	36.26	unnamed	South Bay	22	Grays Harbor	No	Yes
OL	980275	SR 105	38.1	unnamed	Johns R	22	Grays Harbor	Yes	Yes
OL	980274	SR 105	38.28	unnamed	Johns R	22	Grays Harbor	No	Yes
OL	991642	SR 105	39.77	unnamed	O'Leary Cr	22	Grays Harbor	Yes	Yes
OL	991298	SR 105	40.5	unnamed	South Bay	22	Grays Harbor	Yes	Yes
OL	991302	SR 105	41.76	unnamed	Grays Harbor	22	Grays Harbor	No	Yes
OL	991297	SR 105	44.56	unnamed	Grays Harbor	22	Grays Harbor	Yes	Yes
OL	996115	SR 106	2.07	unnamed	unnamed Skokomish R trib	16	Mason	Yes	Yes
OL	996127	SR 106	3.39	unnamed	Hood Canal	16	Mason	No	No
OL	996383	SR 106	4.11	unnamed	Hood Canal	16	Mason	Yes	Yes
OL	997163	SR 106	5.45	unnamed	Hood Canal	14	Mason	No	Yes
OL	115 MC160	SR 106	7.34	unnamed	Hood Canal	14	Mason	Yes	No
OL	997176	SR 106	9.7	unnamed	Hood Canal	14	Mason	No	Yes
OL	990908	SR 106	10.83	unnamed	Hood Canal	14	Mason	Yes	No



## Appendix I. WSDOT Culvert Barriers Relevant to the Injunction (as of June 1, 2023)

806 barrier culverts with  $\geq 200$  meters habitat gain; 183 barrier culverts with  $<200$  meters habitat gain

List sorted by WSDOT Region, Road, and Milepost location.

WSDOT Region	Site Id	Road	Milepost	Stream	Tributary to	WRIA	County	Lineal Habitat Gain $\geq 200$ m	On Original 2013 Injunction List
OL	997182	SR 106	11.57	unnamed	Hood Canal	14	Mason	Yes	Yes
OL	990450	SR 106	12.3	Twanoh Cr	Hood Canal	14	Mason	Yes	Yes
OL	991245	SR 106	13.84	unnamed	Hood Canal	14	Mason	Yes	Yes
OL	997184	SR 106	14.61	unnamed	Hood Canal	14	Mason	Yes	Yes
OL	115 MC190	SR 106	14.72	Mulberg Cr	Hood Canal	14	Mason	Yes	Yes
OL	115 MC218	SR 106	19.57	Devereaux Cr	Hood Canal	14	Mason	Yes	Yes
OL	933360	SR 107	4.34	unnamed	Chehalis R	22	Grays Harbor	Yes	No
OL	991727	SR 107	5.49	unnamed	Chehalis R	22	Grays Harbor	No	Yes
OL	933361	SR 107; ROW	4.34	unnamed	Chehalis R	22	Grays Harbor	Yes	No
OL	993659	SR 108	0.18	unnamed	EF Wildcat Cr	22	Grays Harbor	No	Yes
OL	997210	SR 108	5.2	unnamed	unnamed Skookum Cr trib	14	Mason	Yes	Yes
OL	991237	SR 108	5.5	unnamed	Skookum Cr	14	Mason	Yes	Yes
OL	990385	SR 108	5.54	unnamed	Skookum Cr	14	Mason	Yes	Yes
OL	991672	SR 108	7.62	unnamed	Skookum Cr	14	Mason	Yes	Yes
OL	990278	SR 108	8.89	McDonald Cr	Skookum Cr	14	Mason	Yes	No
OL	997224	SR 108	9.35	unnamed	Kamilche Cr	14	Mason	Yes	Yes
OL	997225	SR 108	9.47	Kamilche Cr	Skookum Cr	14	Mason	Yes	Yes
OL	990921	SR 109	2.71	unnamed	Grays Harbor	22	Grays Harbor	Yes	Yes
OL	991835	SR 109	3.41	unnamed	Grays Harbor	22	Grays Harbor	Yes	Yes
OL	991836	SR 109	4.46	unnamed	Little Hoquiam R	22	Grays Harbor	Yes	Yes
OL	990932	SR 109	6.91	unnamed	Grass Cr	22	Grays Harbor	Yes	Yes
OL	990933	SR 109	7.1	unnamed	Pacific Ocean	22	Grays Harbor	No	Yes
OL	990938	SR 109	9.77	unnamed	Gillis Sl	22	Grays Harbor	Yes	Yes
OL	990916	SR 109	11.61	Campbell Sl	Grays Harbor	22	Grays Harbor	Yes	No
OL	990917	SR 109	11.66	Campbell Sl	Grays Harbor	22	Grays Harbor	Yes	No
OL	990919	SR 109	17.81	unnamed	Connor Cr	21	Grays Harbor	Yes	No
OL	990920	SR 109	19.4	unnamed	Connor Cr	21	Grays Harbor	Yes	Yes
OL	997311	SR 109	21.12	unnamed	Copalis R	21	Grays Harbor	No	Yes

## Appendix I. WSDOT Culvert Barriers Relevant to the Injunction (as of June 1, 2023)

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List sorted by WSDOT Region, Road, and Milepost location.

WSDOT Region	Site Id	Road	Milepost	Stream	Tributary to	WRIA	County	Lineal Habitat Gain $\geq 200$ m	On Original 2013 Injunction List
OL	997360	SR 109	24.23	unnamed	unnamed Boone Cr trib	21	Grays Harbor	No	Yes
OL	997363	SR 109	24.56	unnamed	Boone Cr	21	Grays Harbor	Yes	Yes
OL	991265	SR 109	26.1	unnamed	Pacific Ocean	21	Grays Harbor	Yes	Yes
OL	997780	SR 109	27.05	unnamed	Pacific Ocean	21	Grays Harbor	Yes	Yes
OL	997781	SR 109	27.41	Spruce Cr	Pacific Ocean	21	Grays Harbor	No	Yes
OL	997784	SR 109	30.26	unnamed	Pacific Ocean	21	Grays Harbor	Yes	Yes
OL	997786	SR 109	31.93	unnamed	Moclips R	21	Grays Harbor	Yes	Yes
OL	991272	SR 109	33.1	Wain Cr	Pacific Ocean	21	Grays Harbor	Yes	Yes
OL	991266	SR 109	33.4	unnamed	Pacific Ocean	21	Grays Harbor	Yes	Yes
OL	997787	SR 109	33.87	unnamed	Pacific Ocean	21	Grays Harbor	Yes	Yes
OL	990922	SR 109	35.73	unnamed	Pacific Ocean	21	Grays Harbor	Yes	Yes
OL	997790	SR 109	36	unnamed	Pacific Ocean	21	Grays Harbor	Yes	Yes
OL	991271	SR 109	36.38	unnamed	Pacific Ocean	21	Grays Harbor	Yes	Yes
OL	991270	SR 109	36.43	unnamed	Pacific Ocean	21	Grays Harbor	Yes	Yes
OL	990924	SR 109	37.43	unnamed	Pacific Ocean	21	Grays Harbor	Yes	Yes
OL	990927	SR 109	39.15	unnamed	Pacific Ocean	21	Grays Harbor	Yes	Yes
OL	990387	Sr 112	0.72	Snow Cr	Strait of Juan de Fuca	19	Clallam	Unknown	No
OL	990559	SR 112	6.95	unnamed	Strait of Juan de Fuca	19	Clallam	Yes	Yes
OL	991259	SR 112	12.26	unnamed	Hoko R	19	Clallam	Yes	Yes
OL	996684	SR 112	17.14	Swamp Cr	Clallam R	19	Clallam	Yes	Yes
OL	996687	SR 112	17.65	unnamed	Clallam R	19	Clallam	No	Yes
OL	996691	SR 112	19.36	unnamed	Clallam R	19	Clallam	No	Yes
OL	991731	SR 112	21.1	unnamed	Green Cr	19	Clallam	Yes	Yes
OL	996694	SR 112	21.64	unnamed	unnamed Green Cr trib	19	Clallam	No	Yes
OL	996552	SR 112	23.07	unnamed	Green Cr	19	Clallam	No	Yes
OL	996554	SR 112	24.26	unnamed	Pysht R	19	Clallam	Yes	Yes
OL	996555	SR 112	24.77	unnamed	Pysht R	19	Clallam	Yes	Yes
OL	996556	SR 112	25.2	unnamed	Pysht R	19	Clallam	Yes	Yes
OL	991732	SR 112	29.12	Indian Cr	Strait of Juan De Fuca	19	Clallam	Yes	Yes

## Appendix I. WSDOT Culvert Barriers Relevant to the Injunction (as of June 1, 2023)

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List sorted by WSDOT Region, Road, and Milepost location.

WSDOT Region	Site Id	Road	Milepost	Stream	Tributary to	WRIA	County	Lineal Habitat Gain $\geq 200$ m	On Original 2013 Injunction List
OL	990941	SR 112	29.7	Butler Cr	Butler Cove	19	Clallam	Yes	Yes
OL	991258	SR 112	29.71	unnamed	Butler Cr	19	Clallam	Yes	Yes
OL	996424	SR 112	31.46	unnamed	Jim Cr	19	Clallam	Yes	Yes
OL	996426	SR 112	32.85	unnamed	Joe Cr	19	Clallam	No	Yes
OL	996427	SR 112	33.02	unnamed	Joe Cr	19	Clallam	No	Yes
OL	996430	SR 112	34.12	unnamed	Deep Cr	19	Clallam	Yes	Yes
OL	996431	SR 112	34.2	unnamed	Deep Cr	19	Clallam	Yes	Yes
OL	996432	SR 112	34.28	unnamed	Deep Cr	19	Clallam	Yes	Yes
OL	990715	SR 112	35.28	unnamed	Strait of Juan de Fuca	19	Clallam	No	Yes
OL	996528	SR 112	44.34	unnamed	Murdock Cr	19	Clallam	Yes	Yes
OL	996529	SR 112	45.66	unnamed	Murdock Cr	19	Clallam	No	Yes
OL	990480	SR 112	49.48	Whiskey Cr	Strait of Juan de Fuca	19	Clallam	Yes	Yes
OL	996536	SR 112	49.62	EF Whiskey Cr	Whiskey Cr	19	Clallam	Yes	Yes
OL	996539	SR 112	51.53	Itsa Cr	Uptha Cr	19	Clallam	Yes	No
OL	991738	SR 112	51.6	Uptha Cr	Salt Cr	19	Clallam	Yes	Yes
OL	991661	SR 112	53.5	Falls Cr	Salt Cr	19	Clallam	Yes	Yes
OL	991686	SR 112	56.5	unnamed	Coville Cr	19	Clallam	Yes	Yes
OL	996541	SR 112	57.05	unnamed	Coville Cr	19	Clallam	No	Yes
OL	996578	SR 112; Maint Yard	22.99	unnamed	Green Cr	19	Clallam	No	Yes
OL	991733	SR 113	0.9	unnamed	Beaver Cr	20	Clallam	Yes	Yes
OL	996571	SR 113	8.35	unnamed	Pysht R	19	Clallam	Yes	Yes
OL	996573	SR 113	9.7	unnamed	Pysht R	19	Clallam	Yes	Yes
OL	996574	SR 113	9.81	unnamed	Pysht R	19	Clallam	Yes	Yes
OL	990077	SR 116	0.22	Chimacum Cr	Port Townsend Bay	17	Jefferson	Yes	No
OL	995521	SR 116	1.64	unnamed	Port Townsend Bay	17	Jefferson	Yes	Yes
OL	995913	SR 119	5.66	unnamed	Lake Cushman	16	Mason	No	No
OL	995915	SR 119	7.02	unnamed	Lake Cushman	16	Mason	Yes	Yes
OL	995916	SR 119	7.8	unnamed	Lake Cushman	16	Mason	Yes	Yes
OL	995917	SR 119	8.2	unnamed	Big Cr	16	Mason	Yes	Yes

## Appendix I. WSDOT Culvert Barriers Relevant to the Injunction (as of June 1, 2023)

806 barrier culverts with ≥ 200 meters habitat gain; 183 barrier culverts with <200 meters habitat gain

List sorted by WSDOT Region, Road, and Milepost location.

WSDOT Region	Site Id	Road	Milepost	Stream	Tributary to	WRIA	County	Lineal Habitat Gain ≥ 200 m	On Original 2013 Injunction List
OL	995918	SR 119	8.35	unnamed	Big Cr	16	Mason	No	Yes
OL	933500	SR 119	9.38	Big Cr	Lake Cushman	16	Mason	Yes	No
OL	343041	SR 121	4.84	Hopkins Ditch	Salmon Cr	23	Thurston	Yes	No
OL	991939	SR 16	14.63	unnamed	McCormick Cr	15	Pierce	Yes	Yes
OL	991940	SR 16	14.65	McCormick Cr	Henderson Bay	15	Pierce	Yes	Yes
OL	991941	SR 16	14.86	McCormick Cr	Henderson Bay	15	Pierce	Yes	Yes
OL	991942	SR 16	15.02	unnamed	McCormick Cr	15	Pierce	Yes	Yes
OL	935539	SR 16	15.05	unnamed	McCormick Cr	15	Pierce	Yes	No
OL	935540	SR 16	15.09	unnamed	McCormick Cr	15	Pierce	Yes	No
OL	934541	SR 16	15.16	unnamed	McCormick Cr	15	Pierce	Yes	No
OL	105 K051618a	SR 16	16.59	Goodnough Cr	Henderson Bay	15	Pierce	Yes	Yes
OL	15.0060 1.00	SR 16	17.8	Purdy Cr	Burley Lagoon	15	Pierce	Yes	Yes
OL	996760	SR 16	19.28	unnamed	Burley Cr	15	Kitsap	No	Yes
OL	991866	SR 16	19.54	unnamed	Burley Cr	15	Kitsap	Yes	Yes
OL	991516	SR 16	20.36	unnamed	Burley Cr	15	Kitsap	Yes	Yes
OL	991867	SR 16	20.44	unnamed	Burley Cr	15	Kitsap	Yes	Yes
OL	996752	SR 16	21.58	unnamed	Burley Cr	15	Kitsap	Yes	Yes
OL	15.0056 4.50	SR 16	22.7	Burley Cr	Henderson Bay	15	Kitsap	Yes	Yes
OL	935061	SR 16	24.55	unnamed	Blackjack Cr	15	Kitsap	Yes	No
OL	990038	SR 16	25.3	Blackjack Cr	Sinclair Inlet	15	Kitsap	Yes	Yes
OL	990357	SR 16	26.88	Ross Cr	Sinclair Inlet	15	Kitsap	Yes	No
OL	990270	SR 16	27.1	unnamed	Ross Cr	15	Kitsap	Yes	Yes
OL	934154	SR 16	27.49	unnamed	Sinclair Inlet	15	Kitsap	No	No
OL	991670	SR 16	28.6	Kabelac Cr	Sinclair Inlet	15	Kitsap	Yes	Yes
OL	996738	SR 16	28.82	unnamed	Sinclair Inlet	15	Kitsap	Yes	No
OL	936180	SR 16 E; SR 166	27.94	unnamed	Sinclair Inlet	15	Kitsap	Yes	No
OL	936179	SR 16 W	27.95	unnamed	Sinclair Inlet	15	Kitsap	Yes	No
OL	991944	SR 16; EB off-ramp	0.19	McCormick Cr	Henderson Bay	15	Pierce	Yes	Yes
OL	996756	SR 16; EB off-ramp	25.3	Blackjack Cr	Sinclair Inlet	15	Kitsap	Yes	Yes



## Appendix I. WSDOT Culvert Barriers Relevant to the Injunction (as of June 1, 2023)

806 barrier culverts with ≥ 200 meters habitat gain; 183 barrier culverts with <200 meters habitat gain

List sorted by WSDOT Region, Road, and Milepost location.

WSDOT Region	Site Id	Road	Milepost	Stream	Tributary to	WRIA	County	Lineal Habitat Gain ≥ 200 m	On Original 2013 Injunction List
OL	996754	SR 16; EB off-ramp	26.61	unnamed	Ross Cr	15	Kitsap	No	No
OL	996755	SR 16; WB on-ramp	25.24	Blackjack Cr	Sinclair Inlet	15	Kitsap	Yes	Yes
OL	930022	SR 160	1.92	unnamed	unnamed Salmonberry Cr trib	15	Kitsap	No	Yes
OL	990366	SR 160	2.29	Salmonberry Cr	Long Lk	15	Kitsap	Yes	Yes
OL	991567	SR 160	4.5	unnamed	Curley Cr	15	Kitsap	Yes	Yes
OL	996954	SR 160	5.13	unnamed	Sinclair Inlet	15	Kitsap	No	Yes
OL	996955	SR 160	6.06	unnamed	Puget Sound	15	Kitsap	No	Yes
OL	990970	SR 161	1.02	unnamed	Mashel R	11	Pierce	No	Yes
OL	995475	SR 161	14.89	unnamed	unnamed South Cr trib	11	Pierce	Yes	Yes
OL	991214	SR 162	3.7	Alderton Cr	Puyallup R	10	Pierce	Yes	Yes
OL	991802	SR 162	6.33	unnamed	Puyallup R	10	Pierce	No	Yes
OL	105 R021121a	SR 162	11.04	Card Cr	Carbon R	10	Pierce	Yes	Yes
OL	105 R032517a	SR 162	12.43	Rauch Cr	Carbon R	10	Pierce	No	No
OL	105 R032918d	SR 162	12.44	Rauch Cr	Carbon R	10	Pierce	Yes	Yes
OL	996291	SR 162	13.64	unnamed	Prairie Cr	10	Pierce	Yes	Yes
OL	105 R033020A	SR 162	16.67	unnamed	S Prairie Cr	10	Pierce	Yes	No
OL	105 R040517a	SR 162	19.11	unnamed	S Prairie Cr	10	Pierce	Yes	Yes
OL	996343	SR 162	19.7	Spiketon Cr	S Prairie Cr	10	Pierce	Yes	Yes
OL	105 R033018B	SR 165	19.76	Spiketon Cr	S Prairie Cr	10	Pierce	Yes	Yes
OL	992009	SR 166	0.73	unnamed	Sinclair Inlet	15	Kitsap	Yes	No
OL	990358	SR 166	1.76	Ross Cr	Sinclair Inlet	15	Kitsap	Yes	No
OL	996956	SR 166	2.12	unnamed	Sinclair Inlet	15	Kitsap	Yes	Yes
OL	996957	SR 166	2.27	unnamed	Sinclair Inlet	15	Kitsap	Yes	Yes
OL	15.0208 0.00	SR 166	2.56	unnamed	Sinclair Inlet	15	Kitsap	Yes	Yes
OL	15.0201 0.90	SR 166	4.52	Olney Cr	Sinclair Inlet	15	Kitsap	Yes	Yes
OL	920412	SR 166; Mile Hill Dr	4.11	unnamed	Sinclair Inlet	15	Kitsap	Yes	Yes
OL	991212	SR 167	8.05	Milwaukee Canal	White R	10	Pierce	Yes	No
OL	991211	SR 167	10	Milwaukee Canal	White R	10	Pierce	Yes	No

## Appendix I. WSDOT Culvert Barriers Relevant to the Injunction (as of June 1, 2023)

806 barrier culverts with ≥ 200 meters habitat gain; 183 barrier culverts with <200 meters habitat gain

List sorted by WSDOT Region, Road, and Milepost location.

WSDOT Region	Site Id	Road	Milepost	Stream	Tributary to	WRIA	County	Lineal Habitat Gain ≥ 200 m	On Original 2013 Injunction List
OL	996288	SR 167	10.46	unnamed	Milwaukee Canal	10	Pierce	Yes	Yes
OL	105 R050320b	SR 167; 8th St E	10.65	Milwaukee Canal	White R	10	Pierce	Yes	No
OL	930603	SR 167; ROW	9.47	unnamed	Milwaukee Canal	10	Pierce	Yes	Yes
OL	990711	SR 19	4.3	Swansonville Cr	EF Chimacum Cr	17	Jefferson	Yes	Yes
OL	991579	SR 19	6.82	unnamed	EF Chimacum Cr	17	Jefferson	Yes	Yes
OL	995743	SR 20	0.65	unnamed	Discovery Bay	17	Jefferson	Yes	Yes
OL	995748	SR 20	1.39	unnamed	Discovery Bay	17	Jefferson	No	Yes
OL	995753	SR 20	3.67	unnamed	Discovery Bay	17	Jefferson	Yes	Yes
OL	997231	SR 3	2.11	unnamed	Goldsburrough Cr	14	Mason	No	Yes
OL	997235	SR 3	4.67	unnamed	Oakland Bay	14	Mason	Yes	Yes
OL	997365	SR 3	7.16	unnamed	Oakland Bay	14	Mason	Yes	Yes
OL	997368	SR 3	7.59	unnamed	Oakland Bay	14	Mason	Yes	Yes
OL	997369	SR 3	7.96	unnamed	Oakland Bay	14	Mason	No	Yes
OL	997371	SR 3	8.28	unnamed	Oakland Bay	14	Mason	Yes	Yes
OL	991987	SR 3	21.29	unnamed	Case Inlet	14	Mason	No	Yes
OL	991795	SR 3	23.94	unnamed	Devereaux Cr	14	Mason	Yes	Yes
OL	996734	SR 3	25.15	unnamed	Hood Canal	15	Mason	Yes	Yes
OL	991797	SR 3	25.31	Sweetwater Cr	Hood Canal	15	Mason	Yes	Yes
OL	999626	SR 3	26.26	Mindy Cr	Union R	15	Mason	Yes	Yes
OL	991991	SR 3	26.4	unnamed	Union R	15	Mason	Yes	Yes
OL	991728	SR 3	29.63	unnamed	Union R	15	Kitsap	Yes	Yes
OL	990168	SR 3	32.1	Gorst Cr	Sinclair Inlet	15	Kitsap	Yes	Yes
OL	991585	SR 3	34.27	unnamed	Gorst Cr	15	Kitsap	Yes	Yes
OL	991995	SR 3	36.1	Wright Cr	Sinclair Inlet	15	Kitsap	Yes	No
OL	991994	SR 3	36.51	unnamed	Sinclair Inlet	15	Kitsap	Yes	Yes
OL	996508	SR 3	38.41	Ostrich Cr	Ostrich Bay	15	Kitsap	Yes	Yes
OL	996796	SR 3	39.45	unnamed	Dyes Inlet	15	Kitsap	No	Yes
OL	15.0229 0.10	SR 3	40.96	Chico Cr	Dyes Inlet	15	Kitsap	Yes	Yes
OL	996742	SR 3	41.52	unnamed	Dyes Inlet	15	Kitsap	Yes	Yes

## Appendix I. WSDOT Culvert Barriers Relevant to the Injunction (as of June 1, 2023)

806 barrier culverts with ≥ 200 meters habitat gain; 183 barrier culverts with <200 meters habitat gain

List sorted by WSDOT Region, Road, and Milepost location.

WSDOT Region	Site Id	Road	Milepost	Stream	Tributary to	WRIA	County	Lineal Habitat Gain ≥ 200 m	On Original 2013 Injunction List
OL	996745	SR 3	41.81	unnamed	Dyes Inlet	15	Kitsap	Yes	Yes
OL	996747	SR 3	42.21	unnamed	Dyes Inlet	15	Kitsap	Yes	Yes
OL	996748	SR 3	42.56	unnamed	Dyes Inlet	15	Kitsap	Yes	Yes
OL	996856	SR 3	43.58	Koch Cr	Dyes Inlet	15	Kitsap	No	Yes
OL	990708	SR 3	44.62	unnamed	Strawberry Cr	15	Kitsap	Yes	Yes
OL	15.0246 0.96	SR 3	44.8	Strawberry Cr	Dyes Inlet	15	Kitsap	Yes	Yes
OL	993013	SR 3	46.09	unnamed	WF Clear Cr	15	Kitsap	Yes	Yes
OL	996801	SR 3	46.82	unnamed	Clear Cr	15	Kitsap	Yes	Yes
OL	996803	SR 3	47.72	unnamed	Clear Cr	15	Kitsap	Yes	Yes
OL	996804	SR 3	49.48	Big Scandia Cr	Liberty Bay	15	Kitsap	Yes	Yes
OL	991241	SR 3	50.85	SF Johnson Cr	Johnson Cr	15	Kitsap	Yes	Yes
OL	990218	SR 3	50.94	MF Johnson Cr	Liberty Bay	15	Kitsap	Yes	Yes
OL	991744	SR 3	52.21	Johnson Cr	Liberty Bay	15	Kitsap	Yes	Yes
OL	991242	SR 3	57.23	unnamed	Kinman Cr	15	Kitsap	Yes	Yes
OL	991613	SR 3	57.87	unnamed	Hood Canal	15	Kitsap	Yes	Yes
OL	991240	SR 3	58.21	unnamed	Hood Canal	15	Kitsap	Yes	Yes
OL	990395	SR 3	58.49	Spring Cr	Hood Canal	15	Kitsap	Yes	Yes
OL	991612	SR 3	59.52	unnamed	Hood Canal	15	Kitsap	Yes	Yes
OL	996811	SR 3	59.55	unnamed	Hood Canal	15	Kitsap	Yes	Yes
OL	991907	SR 3; Access Rd	40.97	unnamed	Chico Cr	15	Kitsap	Yes	Yes
OL	996798	SR 3; SB on-ramp	39.13	unnamed	Dyes Inlet	15	Kitsap	Yes	Yes
OL	996699	SR 300	2.36	unnamed	Union R	15	Mason	Yes	Yes
OL	996700	SR 300	2.38	unnamed	Union R	15	Mason	No	Yes
OL	991559	SR 302	0.9	unnamed	North Bay	15	Mason	Yes	Yes
OL	996763	SR 302	1.25	unnamed	Coulter Cr	15	Mason	No	Yes
OL	996765	SR 302	1.86	unnamed	North Bay	15	Mason	Yes	Yes
OL	991522	SR 302	2.1	unnamed	North Bay	15	Mason	Yes	Yes
OL	991239	SR 302	2.36	unnamed	North Bay	15	Mason	Yes	Yes
OL	991523	SR 302	2.48	unnamed	North Bay	15	Mason	Yes	Yes

## Appendix I. WSDOT Culvert Barriers Relevant to the Injunction (as of June 1, 2023)

806 barrier culverts with ≥ 200 meters habitat gain; 183 barrier culverts with <200 meters habitat gain

List sorted by WSDOT Region, Road, and Milepost location.

WSDOT Region	Site Id	Road	Milepost	Stream	Tributary to	WRIA	County	Lineal Habitat Gain ≥ 200 m	On Original 2013 Injunction List
OL	991525	SR 302	4.2	Victor Cr	North Bay	15	Mason	Yes	Yes
OL	991526	SR 302	4.7	unnamed	Case Inlet	15	Mason	No	Yes
OL	991527	SR 302	5.5	unnamed	Rocky Bay	15	Pierce	Yes	Yes
OL	996783	SR 302	15.95	unnamed	Henderson Bay	15	Pierce	Yes	Yes
OL	105 K051518a	SR 302	16.15	Goodnough Cr	Henderson Bay	15	Pierce	Yes	Yes
OL	990345	SR 302; SPPURDY	15.8	Purdy Cr	Burley Lagoon	15	Pierce	Yes	Yes
OL	990997	SR 303	4.4	Steele Cr	Crouch Cr	15	Kitsap	Yes	No
OL	935880	SR 303	6.35	unnamed	Hoot Cr	15	Kitsap	Yes	No
OL	932154	SR 303	6.64	unnamed	Hoot Cr	15	Kitsap	Yes	No
OL	990024	SR 303	6.66	Hoot Cr	Barker Cr	15	Kitsap	Yes	Yes
OL	930408	SR 303; LX	6.7	unnamed	Hoot Cr	15	Kitsap	Yes	Yes
OL	932155	SR 303; NB off-ramp	6.62	unnamed	Hoot Cr	15	Kitsap	Yes	No
OL	994085	SR 303; NB off-ramp	6.63	Hoot Cr	Barker Cr	15	Kitsap	Yes	Yes
OL	994086	SR 303; NB on-ramp	6.68	Hoot Cr	Barker Cr	15	Kitsap	Yes	Yes
OL	930416	SR 303; NB on-ramp	6.72	unnamed	Hoot Cr	15	Kitsap	No	Yes
OL	994320	SR 305	0.49	unnamed	Eagle Harbor	15	Kitsap	Yes	Yes
OL	994324	SR 305	0.62	unnamed	Eagle Harbor	15	Kitsap	Yes	Yes
OL	933644	SR 305	1.9	unnamed	Murden Cove	15	Kitsap	No	No
OL	994325	SR 305	2.44	Murden Cr	Murden Cove	15	Kitsap	Yes	Yes
OL	933663	SR 305	3.37	unnamed	Murden Cove	15	Kitsap	No	No
OL	933664	SR 305	3.4	unnamed	Murden Cove	15	Kitsap	No	No
OL	994326	SR 305	3.73	Manzanita Cr	Manzanita Bay	15	Kitsap	Yes	Yes
OL	933685	SR 305	5.23	unnamed	Port Madison	15	Kitsap	No	No
OL	933686	SR 305	5.37	unnamed	Manzanita Bay	15	Kitsap	Yes	No
OL	991958	SR 305	7.28	Klebeal Cr	Agate Passage	15	Kitsap	Yes	Yes
OL	994327	SR 305	8.92	Sam Snyder Cr	Liberty Bay	15	Kitsap	Yes	Yes
OL	994328	SR 305	10.55	unnamed	Liberty Bay	15	Kitsap	Yes	No
OL	991855	SR 305	12.59	unnamed	SF Dogfish Cr	15	Kitsap	Yes	Yes
OL	990121	SR 305	12.8	Dogfish Cr	Liberty Bay	15	Kitsap	Yes	No



## Appendix I. WSDOT Culvert Barriers Relevant to the Injunction (as of June 1, 2023)

806 barrier culverts with ≥ 200 meters habitat gain; 183 barrier culverts with <200 meters habitat gain

List sorted by WSDOT Region, Road, and Milepost location.

WSDOT Region	Site Id	Road	Milepost	Stream	Tributary to	WRIA	County	Lineal Habitat Gain ≥ 200 m	On Original 2013 Injunction List
OL	933284	SR 305	13.12	unnamed	Dogfish Cr	15	Kitsap	Yes	No
OL	991997	SR 307	0.98	unnamed	unnamed Puget Sound trib	15	Kitsap	Yes	Yes
OL	991998	SR 307	0.98	unnamed	unnamed Puget Sound trib	15	Kitsap	Yes	Yes
OL	991999	SR 307	1.34	unnamed	Dogfish Cr	15	Kitsap	Yes	Yes
OL	991572	SR 307	1.45	unnamed	Dogfish Cr	15	Kitsap	Yes	Yes
OL	991851	SR 307	2.5	unnamed	Gamble Cr	15	Kitsap	Yes	Yes
OL	996931	SR 308	0.3	Clear Cr	Puget Sound	15	Kitsap	Yes	Yes
OL	990235	SR 308	0.94	Big Scandia Cr	Liberty Bay	15	Kitsap	Yes	Yes
OL	15.0280 1.00	SR 308	1.15	Big Scandia Cr	Liberty Bay	15	Kitsap	Yes	Yes
OL	992008	SR 308	1.33	Little Scandia Cr	Liberty Bay	15	Kitsap	Yes	Yes
OL	991000	SR 308	2.16	unnamed	Puget Sound	15	Kitsap	Yes	Yes
OL	996933	SR 308	2.41	unnamed	Liberty Bay	15	Kitsap	No	Yes
OL	996932	SR 308	2.57	unnamed	Liberty Bay	15	Kitsap	Yes	Yes
OL	996619	SR 410	21.73	unnamed	Lake Tapps Canal	10	Pierce	Yes	Yes
OL	125 1502W11B	SR 507	8.22	unnamed	Skookumchuck R	23	Thurston	Yes	Yes
OL	995893	SR 507	30.61	McKenna Cr	Nisqually R	11	Thurston	Yes	Yes
OL	933183	SR 509	5.24	unnamed	Commencement Bay	10	Pierce	Yes	No
OL	933185	SR 509	5.71	unnamed	Commencement Bay	10	Pierce	No	No
OL	105 R121419a	SR 509; WB	2.97	Wapato Cr	Blair Waterway	10	Pierce	Yes	No
OL	991052	SR 510	6.28	unnamed	McAllister Cr	11	Thurston	No	Yes
OL	997920	SR 512	3.3	unnamed	NF Clover Cr	12	Pierce	Yes	Yes
OL	932347	SR 512	8.25	Silver Cr	Meeker Cr	10	Pierce	Yes	Yes
OL	932349	SR 512; EB off ramp	8.25	Silver Cr	Meeker Cr	10	Pierce	Yes	Yes
OL	932345	SR 512;WB on ramp	8.25	Silver Cr	Meeker Cr	10	Pierce	Yes	Yes
OL	997623	SR 7	28.02	unnamed	Mashel R	11	Pierce	No	Yes
OL	990686	SR 7	32.4	unnamed	Silver Lk	11	Pierce	Yes	Yes
OL	991225	SR 7	37.5	unnamed	South Cr	11	Pierce	Yes	Yes
OL	990688	SR 7	38.12	unnamed	South Cr	11	Pierce	Yes	Yes

## Appendix I. WSDOT Culvert Barriers Relevant to the Injunction (as of June 1, 2023)

806 barrier culverts with  $\geq 200$  meters habitat gain; 183 barrier culverts with  $<200$  meters habitat gain

List sorted by WSDOT Region, Road, and Milepost location.

WSDOT Region	Site Id	Road	Milepost	Stream	Tributary to	WRIA	County	Lineal Habitat Gain $\geq 200$ m	On Original 2013 Injunction List
OL	996274	SR 7	58.34	unnamed	Commencement Bay	10	Pierce	Yes	No
OL	991229	SR 702	4.53	Murray Cr	Nisqually R	11	Pierce	Yes	Yes
OL	995899	SR 702	5.6	unnamed	Horn Cr	11	Pierce	No	Yes
OL	991063	SR 8	0.1	unnamed	Cloquallum Cr	22	Grays Harbor	Yes	Yes
OL	993722	SR 8	1.02	unnamed	Cloquallum Cr	22	Grays Harbor	No	No
OL	993723	SR 8	1.27	unnamed	Cloquallum Cr	22	Grays Harbor	Yes	Yes
OL	993727	SR 8	1.37	unnamed	unnamed Cloquallum Cr trib	22	Grays Harbor	No	Yes
OL	993724	SR 8	3.16	unnamed	Wildcat Cr	22	Grays Harbor	Yes	Yes
OL	993725	SR 8	3.51	unnamed	Wildcat Cr	22	Grays Harbor	Yes	Yes
OL	991066	SR 8	3.72	unnamed	Wildcat Cr	22	Grays Harbor	Yes	Yes
OL	990770	SR 8	6.15	unnamed	EF Wildcat Cr	22	Grays Harbor	Yes	Yes
OL	992004	SR 8	7.27	unnamed	Sand Cr	22	Grays Harbor	Yes	No
OL	992005	SR 8	7.34	unnamed	Sand Cr	22	Grays Harbor	Yes	No
OL	990773	SR 8	9.1	unnamed	Mox Chehalis Cr	22	Grays Harbor	Yes	Yes
OL	993728	SR 8	10.12	unnamed	Mox Chehalis Cr	22	Grays Harbor	Yes	Yes
OL	993729	SR 8	10.12	unnamed	Mox Chehalis Cr	22	Grays Harbor	Yes	Yes
OL	993670	US 101	80.4	unnamed	Chehalis R	22	Grays Harbor	Yes	Yes
OL	993674	US 101	89.48	unnamed	Hoquiam R	22	Grays Harbor	Yes	Yes
OL	993675	US 101	89.77	unnamed	Hoquiam R	22	Grays Harbor	Yes	Yes
OL	993679	US 101	90.73	unnamed	Hoquaim R	22	Grays Harbor	Yes	Yes
OL	993680	US 101	90.95	unnamed	Hoquiam R	22	Grays Harbor	Yes	No
OL	993688	US 101	92.33	unnamed	WF Hoquiam R	22	Grays Harbor	Yes	No
OL	993695	US 101	93.49	unnamed	WF Hoquiam R	22	Grays Harbor	Yes	Yes
OL	990732	US 101	93.79	unnamed	WF Hoquiam R	22	Grays Harbor	Yes	Yes
OL	993698	US 101	95.46	unnamed	WF Hoquiam R	22	Grays Harbor	Yes	Yes
OL	993702	US 101	98.47	unnamed	WF Hoquiam R	22	Grays Harbor	Yes	Yes
OL	993704	US 101	99.45	unnamed	WF Hoquiam R	22	Grays Harbor	Yes	Yes
OL	990730	US 101	100.7	unnamed	unnamed SB Big Cr trib	22	Grays Harbor	Yes	Yes

## Appendix I. WSDOT Culvert Barriers Relevant to the Injunction (as of June 1, 2023)

806 barrier culverts with ≥ 200 meters habitat gain; 183 barrier culverts with <200 meters habitat gain

List sorted by WSDOT Region, Road, and Milepost location.

WSDOT Region	Site Id	Road	Milepost	Stream	Tributary to	WRIA	County	Lineal Habitat Gain ≥ 200 m	On Original 2013 Injunction List
OL	990033	US 101	102.97	unnamed	Big Cr	22	Grays Harbor	Yes	No
OL	993712	US 101	103.25	unnamed	Big Cr	22	Grays Harbor	Yes	No
OL	991501	US 101	103.65	unnamed	Big Cr	22	Grays Harbor	Yes	Yes
OL	991581	US 101	104.92	unnamed	Fairchild Cr	22	Grays Harbor	Yes	No
OL	990175	US 101	106.5	Hansen Cr	Humptulips R	22	Grays Harbor	Yes	No
OL	993717	US 101	110.84	unnamed	Stevens Cr	22	Grays Harbor	Yes	Yes
OL	990731	US 101	111.34	unnamed	Stevens Cr	22	Grays Harbor	Yes	Yes
OL	991690	US 101	111.9	unnamed	Stevens Cr	22	Grays Harbor	Yes	Yes
OL	997309	US 101	122.92	unnamed	McCalla Cr	21	Grays Harbor	Yes	Yes
OL	990276	US 101	123.05	McCalla Cr	Boulder Cr	21	Grays Harbor	Yes	Yes
OL	991653	US 101	126.24	unnamed	Quinalt R	21	Grays Harbor	Yes	Yes
OL	990543	US 101	132	unnamed	Ten O Clock Cr	21	Grays Harbor	Yes	Yes
OL	990452	US 101	135.26	unnamed	Lunch Cr	21	Grays Harbor	Yes	Yes
OL	990546	US 101	135.68	Lunch Cr	Raft R	21	Grays Harbor	Yes	Yes
OL	990453	US 101	135.95	unnamed	Lunch Cr	21	Grays Harbor	Yes	Yes
OL	990252	US 101	136.45	Cedar Cr	Raft R	21	Grays Harbor	Yes	No
OL	990455	US 101	136.7	unnamed	Cedar Cr	21	Grays Harbor	Yes	No
OL	990547	US 101	136.9	unnamed	Cedar Cr	21	Grays Harbor	Yes	No
OL	990883	US 101	137.32	Crane Cr	Raft R	21	Grays Harbor	Yes	Yes
OL	990456	US 101	137.82	unnamed	Crane Cr	21	Grays Harbor	Yes	No
OL	997338	US 101	140.08	unnamed	NF Raft R	21	Grays Harbor	Yes	No
OL	990548	US 101	142.48	unnamed	Harlow Cr	21	Grays Harbor	Yes	No
OL	990457	US 101	142.68	Harlow Cr	Queets R	21	Grays Harbor	Yes	No
OL	997342	US 101	152.47	unnamed	Queets R	21	Jefferson	Yes	Yes
OL	991268	US 101	153.96	unnamed	Pacific Ocean	21	Jefferson	No	Yes
OL	997345	US 101	154.27	unnamed	Pacific Ocean	21	Jefferson	No	Yes
OL	990549	US 101	154.45	unnamed	Pacific Ocean	21	Jefferson	No	Yes
OL	991276	US 101	156.1	unnamed	Pacific Ocean	21	Jefferson	Yes	Yes
OL	996220	US 101	160.42	unnamed	Pacific Ocean	20	Jefferson	No	Yes

## Appendix I. WSDOT Culvert Barriers Relevant to the Injunction (as of June 1, 2023)

806 barrier culverts with ≥ 200 meters habitat gain; 183 barrier culverts with <200 meters habitat gain

List sorted by WSDOT Region, Road, and Milepost location.

WSDOT Region	Site Id	Road	Milepost	Stream	Tributary to	WRIA	County	Lineal Habitat Gain ≥ 200 m	On Original 2013 Injunction List
OL	996223	US 101	160.89	unnamed	Pacific Ocean	20	Jefferson	Yes	Yes
OL	991261	US 101	161.5	unnamed	Pacific Ocean	20	Jefferson	Yes	Yes
OL	991262	US 101	163.13	unnamed	Pacific Ocean	20	Jefferson	Yes	Yes
OL	996224	US 101	164.57	unnamed	Pacific Ocean	20	Jefferson	No	Yes
OL	996225	US 101	165.11	unnamed	Cedar Cr	20	Jefferson	No	Yes
OL	934255	US 101	167.52	unnamed	Fletcher Cr	20	Jefferson	No	No
OL	996228	US 101	169.19	unnamed	Braden Cr	20	Jefferson	Yes	No
OL	990717	US 101	169.42	unnamed	Braden Cr	20	Jefferson	Yes	Yes
OL	990552	US 101	169.69	unnamed	unnamed Braden Cr trib	20	Jefferson	Yes	No
OL	997051	US 101	169.89	unnamed	unnamed Braden Cr trib	20	Jefferson	No	No
OL	997052	US 101	169.94	unnamed	Hoh R	20	Jefferson	Yes	Yes
OL	990553	US 101	170.12	unnamed	Hoh R	20	Jefferson	Yes	No
OL	990719	US 101	170.81	unnamed	Hoh R	20	Jefferson	Yes	Yes
OL	997053	US 101	170.87	unnamed	unnamed Hoh R trib	20	Jefferson	Yes	No
OL	997054	US 101	171.29	unnamed	Hoh R	20	Jefferson	Yes	Yes
OL	997059	US 101	174.79	unnamed	Old Joe Sl	20	Jefferson	No	Yes
OL	991598	US 101	175.91	unnamed	Hoh R	20	Jefferson	Yes	Yes
OL	997070	US 101	177.77	unnamed	Hoh R	20	Jefferson	No	Yes
OL	991575	US 101	181.2	unnamed	Dowans Cr	20	Jefferson	Yes	Yes
OL	991574	US 101	181.46	unnamed	Dowans Cr	20	Jefferson	Yes	Yes
OL	991507	US 101	182.2	unnamed	Dowans Cr	20	Jefferson	Yes	Yes
OL	991508	US 101	182.84	unnamed	Dowans Cr	20	Jefferson	Yes	Yes
OL	991509	US 101	183.05	unnamed	Dowans Cr	20	Jefferson	Yes	Yes
OL	997081	US 101	183.11	unnamed	Dowans Cr	20	Jefferson	Yes	Yes
OL	991510	US 101	183.87	unnamed	Bogachiel R	20	Jefferson	No	Yes
OL	990269	US 101	184.66	May Cr	Bogachiel R	20	Clallam	Yes	Yes
OL	997087	US 101	184.87	unnamed	Bogachiel R	20	Clallam	Yes	Yes
OL	997091	US 101	187.18	unnamed	Bogachiel R	20	Clallam	No	Yes



## Appendix I. WSDOT Culvert Barriers Relevant to the Injunction (as of June 1, 2023)

806 barrier culverts with  $\geq 200$  meters habitat gain; 183 barrier culverts with  $<200$  meters habitat gain

List sorted by WSDOT Region, Road, and Milepost location.

WSDOT Region	Site Id	Road	Milepost	Stream	Tributary to	WRIA	County	Lineal Habitat Gain $\geq 200$ m	On Original 2013 Injunction List
OL	991505	US 101	188.09	unnamed	Bogachiel R	20	Clallam	Yes	Yes
OL	997093	US 101	188.19	unnamed	Bogachiel R	20	Clallam	Yes	Yes
OL	997095	US 101	188.42	unnamed	Bogachiel R	20	Clallam	Yes	Yes
OL	997096	US 101	188.64	unnamed	Bogachiel R	20	Clallam	No	Yes
OL	991264	US 101	189.25	unnamed	Grader Cr	20	Clallam	Unknown	Yes
OL	990169	US 101	189.4	Grader Cr	Bogachiel R	20	Clallam	Yes	Yes
OL	997098	US 101	190.05	unnamed	Mill Cr	20	Clallam	Yes	Yes
OL	997097	US 101	191.12	Uncle John's Cr	Mill Cr	20	Clallam	Yes	Yes
OL	997107	US 101	202.71	unnamed	Sol Duc R	20	Clallam	Yes	Yes
OL	990554	US 101	209.32	Wisem Cr	Sol Duc R	20	Clallam	Yes	Yes
OL	997108	US 101	210.22	unnamed	Sol Duc R	20	Clallam	No	Yes
OL	997109	US 101	210.78	unnamed	Sol Duc R	20	Clallam	Yes	Yes
OL	995815	US 101	235.81	unnamed	Indian Cr	18	Clallam	No	Yes
OL	995816	US 101	236.28	unnamed	Indian Cr	18	Clallam	Yes	Yes
OL	995817	US 101	236.35	unnamed	Indian Cr	18	Clallam	Yes	Yes
OL	995818	US 101	237.98	unnamed	Indian Cr	18	Clallam	Yes	Yes
OL	18.0283 2.00	US 101	238.35	Indian Cr	Elwha R	18	Clallam	Yes	Yes
OL	995823	US 101	239.31	unnamed	Indian Cr	18	Clallam	Yes	No
OL	990448	US 101	246.4	Tumwater Cr	Port Angeles Harbor	18	Clallam	Yes	Yes
OL	990326	US 101	248.1	Peabody Cr	Strait of Juan de Fuca	18	Clallam	Yes	Yes
OL	990481	US 101	249.4	White Cr	Ennis Cr	18	Clallam	Yes	Yes
OL	18.0234 1.10	US 101	250	Ennis Cr	Strait of Juan de Fuca	18	Clallam	Yes	Yes
OL	990240	US 101	250.5	Lees Cr	Strait of Juan de Fuca	18	Clallam	Yes	Yes
OL	995544	US 101	255.65	unnamed	Siebert Cr	18	Clallam	No	Yes
OL	933369	US 101	263.43	Sequim Prairie Tri irrigation ditch	Gierin Cr	18	Clallam	Yes	No
OL	995551	US 101	263.68	Sequim Prairie Tri irrigation ditch	Gierin Cr	18	Clallam	Yes	No
OL	990219	US 101	267.18	Johnson Cr	Sequim Bay	17	Clallam	Yes	Yes
OL	991667	US 101	268.54	unnamed	Sequim Bay	17	Clallam	Yes	Yes

## Appendix I. WSDOT Culvert Barriers Relevant to the Injunction (as of June 1, 2023)

806 barrier culverts with ≥ 200 meters habitat gain; 183 barrier culverts with <200 meters habitat gain

List sorted by WSDOT Region, Road, and Milepost location.

WSDOT Region	Site Id	Road	Milepost	Stream	Tributary to	WRIA	County	Lineal Habitat Gain ≥ 200 m	On Original 2013 Injunction List
OL	991666	US 101	269.24	unnamed	Sequim Bay	17	Clallam	Yes	Yes
OL	994464	US 101	269.49	unnamed	Sequim Bay	17	Clallam	Yes	No
OL	990107	US 101	270.57	Dean Cr	Sequim Bay	17	Clallam	Yes	No
OL	991735	US 101	271.22	unnamed	Sequim Bay	17	Clallam	Yes	Yes
OL	990712	US 101	271.57	unnamed	Sequim Bay	17	Clallam	Yes	Yes
OL	991850	US 101	271.83	unnamed	Sequim Bay	17	Clallam	Yes	Yes
OL	990075	US 101	271.98	Chicken Coop Cr	Sequim Bay	17	Clallam	Yes	Yes
OL	990134	US 101	274.25	Eagle Cr	Strait of Juan de Fuca	17	Clallam	Yes	Yes
OL	995484	US 101	275.72	unnamed	Eagle Cr	17	Jefferson	Yes	Yes
OL	990090	US 101	277.9	Contractors Cr	Discovery Bay	17	Jefferson	Yes	Yes
OL	995488	US 101	278.66	unnamed	Discovery Bay	17	Jefferson	No	Yes
OL	995490	US 101	281.61	unnamed	Discovery Bay	17	Jefferson	Yes	Yes
OL	995491	US 101	281.72	unnamed	Discovery Bay	17	Jefferson	Yes	Yes
OL	995497	US 101	283.57	unnamed	Snow Cr	17	Jefferson	Yes	Yes
OL	995496	US 101	284.87	unnamed	Snow Cr	17	Jefferson	Yes	No
OL	991673	US 101	285.69	Andrews Cr	Snow Cr	17	Jefferson	Yes	No
OL	995499	US 101	289.36	unnamed	Leland Cr	17	Jefferson	Yes	Yes
OL	995500	US 101	289.91	unnamed	Leland Cr	17	Jefferson	No	Yes
OL	990896	US 101	290.35	unnamed	Leland Cr	17	Jefferson	Yes	Yes
OL	930373	US 101	291.73	unnamed	Leland Cr	17	Jefferson	No	No
OL	995502	US 101	291.79	unnamed	Leland Cr	17	Jefferson	Yes	Yes
OL	990241	US 101	292.52	Leland Cr	L Quilcene R	17	Jefferson	Yes	Yes
OL	994484	US 101	303.01	Marple Cr	Jackson Cove	17	Jefferson	Yes	Yes
OL	990449	US 101	304.24	Turner Cr	Hood Canal	16	Jefferson	No	Yes
OL	995931	US 101	305.59	unnamed	Hood Canal	16	Jefferson	Yes	Yes
OL	990899	US 101	307	Twana Cr	Hood Canal	16	Jefferson	Yes	Yes
OL	995935	US 101	310.27	unnamed	Hood Canal	16	Jefferson	No	No
OL	995936	US 101	310.4	unnamed	Hood Canal	16	Jefferson	Yes	Yes
OL	991603	US 101	314.1	unnamed	Hood Canal	16	Jefferson	Yes	Yes

## Appendix I. WSDOT Culvert Barriers Relevant to the Injunction (as of June 1, 2023)

806 barrier culverts with ≥ 200 meters habitat gain; 183 barrier culverts with <200 meters habitat gain

List sorted by WSDOT Region, Road, and Milepost location.

WSDOT Region	Site Id	Road	Milepost	Stream	Tributary to	WRIA	County	Lineal Habitat Gain ≥ 200 m	On Original 2013 Injunction List
OL	991606	US 101	315.19	Schaerer Cr	Hood Canal	16	Mason	Yes	Yes
OL	991614	US 101	322.83	unnamed	Hood Canal	16	Mason	Yes	Yes
OL	996135	US 101	325.68	unnamed	Hood Canal	16	Mason	Yes	Yes
OL	996138	US 101	327.76	Little Lilliwaup Cr	Hood Canal	16	Mason	Yes	Yes
OL	996358	US 101	331.18	unnamed	Hood Canal	16	Mason	No	Yes
OL	991254	US 101	331.83	unnamed	Hood Canal	16	Mason	Yes	Yes
OL	990191	US 101	332.65	Mill Cr	Hood Canal	16	Mason	Yes	Yes
OL	996366	US 101	334.4	unnamed	Hood Canal	16	Mason	Yes	Yes
OL	991250	US 101	335.93	unnamed	Hood Canal	16	Mason	Yes	Yes
OL	996371	US 101	338.37	unnamed	Skobob Cr	16	Mason	Yes	Yes
OL	115 MC180	US 101	348.21	unnamed	Mill Cr	14	Mason	Yes	Yes
OL	997158	US 101	354.01	unnamed	Skookum Cr	14	Mason	Yes	Yes
OL	997159	US 101	354.22	unnamed	Skookum Cr	14	Mason	No	Yes
OL	115 MC144	US 101	355.58	unnamed	Totten Inlet	14	Mason	Yes	Yes
OL	997157	US 101	356.48	unnamed	Schneider Cr	14	Mason	Yes	Yes
OL	14.0010 0.10	US 101	356.8	Countyline Cr	Schneider Cr	14	Mason	Yes	Yes
OL	997161	US 101	357.4	Griggs Cr	Schneider Cr	14	Thurston	Yes	Yes
OL	991477	US 101	360.6	unnamed	Eld Inlet	14	Thurston	Yes	Yes
OL	932888	US 101; off-ramp	246.18	unnamed	Tumwater Cr	18	Clallam	Yes	No
OL	993681	US 101; ROW	89.48	unnamed	Hoquiam R	22	Grays Harbor	Yes	Yes
OL	994478	US 101; ROW	271.22	unnamed	Sequim Bay	17	Clallam	Yes	Yes
OL	933682	US 101;ROW	175.77	unnamed	Hoh R	20	Jefferson	Yes	No
OL	990485	US 12	0.61	Wilson Cr	Chehalis R	22	Grays Harbor	Yes	No
OL	994788	US 12	3.76	Elliott Sl	Chehalis R	22	Grays Harbor	Yes	Yes
OL	991284	US 12	4.59	unnamed	Mox Chuck Sl	22	Grays Harbor	Yes	Yes
OL	991283	US 12	5.24	unnamed	Mox Chuck Sl	22	Grays Harbor	Yes	Yes
OL	991285	US 12	5.38	unnamed	unnamed Chehalis R trib	22	Grays Harbor	Yes	Yes
OL	991633	US 12	5.62	unnamed	unnamed Chehalis R trib	22	Grays Harbor	Yes	Yes

## Appendix I. WSDOT Culvert Barriers Relevant to the Injunction (as of June 1, 2023)

806 barrier culverts with  $\geq 200$  meters habitat gain; 183 barrier culverts with  $<200$  meters habitat gain

List sorted by WSDOT Region, Road, and Milepost location.

WSDOT Region	Site Id	Road	Milepost	Stream	Tributary to	WRIA	County	Lineal Habitat Gain $\geq 200$ m	On Original 2013 Injunction List
OL	991910	US 12	6.55	unnamed	Higgins Sl	22	Grays Harbor	Yes	No
OL	990957	US 12	6.58	unnamed	Higgins Sl	22	Grays Harbor	Yes	Yes
OL	990958	US 12	6.92	Higgins Sl	Chehalis R	22	Grays Harbor	Yes	Yes
OL	991911	US 12	7.26	unnamed	Higgins Sl	22	Grays Harbor	Yes	Yes
OL	991528	US 12	11.01	unnamed	Schofield Cr	22	Grays Harbor	Yes	Yes
OL	931349	US 12	11.49	unnamed	unnamed Chehalis R trib	22	Grays Harbor	Yes	Yes
OL	22.0349 0.70	US 12	12.36	Camp Cr	Chehalis R	22	Grays Harbor	Yes	No
OL	933616	US 12	17.56	unnamed	Wenzel Sl	22	Grays Harbor	Yes	No
OL	125 1806W34G	US 12	19.17	unnamed	Vance Cr	22	Grays Harbor	Yes	Yes
OL	991533	US 12	23.3	unnamed	Cloquallum Cr	22	Grays Harbor	Yes	Yes
OL	994799	US 12	26.87	unnamed	Chehalis R	22	Grays Harbor	Yes	Yes
OL	991541	US 12	28.17	unnamed	Chehalis R	23	Grays Harbor	Yes	Yes
OL	991540	US 12	28.6	unnamed	Chehalis R	23	Grays Harbor	Yes	Yes
OL	991535	US 12	29.19	unnamed	Chehalis R	23	Grays Harbor	Yes	Yes
OL	991536	US 12	29.45	unnamed	Chehalis R	23	Grays Harbor	Yes	Yes
OL	996710	US 12	31.19	unnamed	Chehalis R	23	Grays Harbor	No	Yes
OL	996712	US 12	31.61	unnamed	Cedar Cr	23	Grays Harbor	Yes	Yes
OL	996714	US 12	32.69	unnamed	Chehalis R	23	Grays Harbor	Yes	Yes
OL	991538	US 12	33.44	unnamed	Chehalis R	23	Grays Harbor	Yes	Yes
OL	991539	US 12	33.6	unnamed	Chehalis R	23	Grays Harbor	Yes	Yes
OL	990952	US 12	34.4	unnamed	Chehalis R	23	Grays Harbor	Yes	No
OL	990563	US 12	36.33	Roundtree Cr	Harris Cr	23	Grays Harbor	Yes	No
SW	995538	I-5	71.34	unnamed	Allen Cr	23	Lewis	Yes	Yes
SW	994300	I-5	78.11	unnamed	Dillenbaugh Cr	23	Lewis	Yes	Yes
SW	994954	SR 508	0.53	Allen Cr	Newaukum R	23	Lewis	Yes	Yes
SW	994955	SR 508	0.64	unnamed	Allen Cr	23	Lewis	Yes	Yes
SW	994958	SR 508	1.7	unnamed	unnamed Allen Cr trib	23	Lewis	Yes	Yes
SW	994959	SR 508	1.85	unnamed	unnamed Allen Cr trib	23	Lewis	Yes	Yes



## Appendix I. WSDOT Culvert Barriers Relevant to the Injunction (as of June 1, 2023)

806 barrier culverts with  $\geq 200$  meters habitat gain; 183 barrier culverts with  $<200$  meters habitat gain

List sorted by WSDOT Region, Road, and Milepost location.

WSDOT Region	Site Id	Road	Milepost	Stream	Tributary to	WRIA	County	Lineal Habitat Gain $\geq 200$ m	On Original 2013 Injunction List
SW	992277	SR 508	4.26	unnamed	SF Newaukum R	23	Lewis	Yes	Yes
SW	994966	SR 508	4.7	unnamed	SF Newaukum R	23	Lewis	Yes	Yes
SW	991756	SR 508	5.1	unnamed	SF Newaukum R	23	Lewis	Yes	Yes
SW	991292	SR 508	5.53	unnamed	SF Newaukum R	23	Lewis	Yes	Yes
SW	991293	SR 508	6.78	unnamed	SF Newaukum R	23	Lewis	Yes	Yes
SW	994969	SR 508	8.88	unnamed	SF Newaukum R	23	Lewis	Yes	Yes
SW	994971	SR 508	11.27	unnamed	SF Newaukum R	23	Lewis	Yes	Yes
SW	991288	SR 508	11.55	unnamed	SF Newaukum R	23	Lewis	Yes	Yes
SW	991289	SR 508	12.66	unnamed	SF Newaukum R	23	Lewis	Yes	Yes
SW	991290	SR 508	15.1	unnamed	Kearney Cr	23	Lewis	Yes	Yes
SW	994976	SR 508	15.42	unnamed	unnamed Kearney Cr trib	23	Lewis	Yes	Yes
SW	991296	SR 508	15.85	unnamed	Kearney Cr	23	Lewis	Yes	Yes
SW	994979	SR 508	16.5	Unnamed	Stowell Cr	23	Lewis	Yes	Yes
SW	994981	SR 508	16.99	unnamed	Stowell Cr	23	Lewis	Yes	Yes
SW	991291	SR 508	17.06	unnamed	Stowell Cr	23	Lewis	Yes	Yes
SW	994463	SR 508	17.55	Stowell Cr	Kearney Cr	23	Lewis	Yes	Yes
SW	990736	SR 6	22.94	unnamed	Salmon Cr	23	Pacific	Yes	Yes
SW	990737	SR 6	23.49	unnamed	Rock Cr	23	Pacific	Yes	Yes
SW	991654	SR 6	24.3	unnamed	Rock Cr	23	Pacific	No	Yes
SW	990738	SR 6	25.24	unnamed	Rock Cr	23	Lewis	Yes	Yes
SW	990740	SR 6	26.36	unnamed	Rock Cr	23	Lewis	Yes	Yes
SW	930852	SR 6	33.3	unnamed	Chehalis R	23	Lewis	Yes	Yes
SW	990751	SR 6	33.56	unnamed	unnamed Chehalis R trib	23	Lewis	Yes	Yes
SW	990755	SR 6	34.85	unnamed	Chehalis R	23	Lewis	Yes	No
SW	990756	SR 6	35.08	unnamed	Chehalis R	23	Lewis	Yes	Yes
SW	990757	SR 6	35.42	unnamed	Chehalis R	23	Lewis	Yes	Yes
SW	990758	SR 6	35.85	unnamed	Chehalis R	23	Lewis	Yes	Yes
SW	990405	SR 6	36.21	unnamed	Chehalis R	23	Lewis	No	No

**Appendix I. WSDOT Culvert Barriers Relevant to the Injunction (as of June 1, 2023)**

806 barrier culverts with ≥ 200 meters habitat gain; 183 barrier culverts with <200 meters habitat gain

List sorted by WSDOT Region, Road, and Milepost location.

WSDOT Region	Site Id	Road	Milepost	Stream	Tributary to	WRIA	County	Lineal Habitat Gain ≥ 200 m	On Original 2013 Injunction List
SW	990423	SR 6	36.74	unnamed	Hope Cr	23	Lewis	Yes	Yes
SW	990764	SR 6	42.38	unnamed	unnamed SF Chehalis R trib	23	Lewis	No	Yes
SW	991221	SR 6	43.61	unnamed	Chehalis R	23	Lewis	Yes	Yes

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# Appendix II

## Updates to the WSDOT Injunction Barrier List



**Appendix II. Updates to the disposition of WSDOT Injunction Barrier List since September 24, 2013 (updates as of June 1, 2023)**

237 culverts are no longer injunction barriers requiring repair. 212 newly identified barrier culverts added to the injunction barrier list.

List sorted by WRIA, Road, and Milepost location

Site ID	Road	Milepost	Stream	Tributary to	WRIA	Disposition	Explanation	Modified Date	On Original 2013 Injunction List
994233	I-5	250.55	Padden Cr	Bellingham Bay	1	not an injunction barrier	barrier corrected	9/28/2022	Yes
991036	I-5	255.15	Squalicum Cr	Bellingham Bay	1	not an injunction barrier	barrier corrected	12/30/2015	Yes
995701	I-5	258.56	unnamed	unnamed to Silver Cr	1	added to injunction barrier list	newly identified barrier - limited gain	3/16/2016	No
934371	I-5	259.91	unnamed	Silver Cr	1	added to injunction barrier list	newly identified barrier - significant gain	4/30/2022	No
995704	I-5	260.58	Silver Cr	Nooksack R	1	added to injunction barrier list	newly identified barrier - significant gain	5/7/2021	No
933400	I-5 NB ROW	270.20	unnamed	unnamed California Cr trib	1	added to injunction barrier list	newly identified barrier - significant gain	7/2/2015	No
995720	I-5; NB	270.14	unnamed	unnamed California Cr trib	1	added to injunction barrier list	newly identified barrier - significant gain	6/18/2015	No
995723	I-5; NB Ext 260	260.00	unnamed	Silver Cr	1	added to injunction barrier list	newly identified barrier - significant gain	9/18/2017	No
935921	I-5; NB on-ramp	0.03	unnamed	Silver Cr	1	added to injunction barrier list	newly identified barrier - significant gain	4/30/2022	No
933402	I-5; NB on-ramp	270.50	unnamed	unnamed California Cr trib	1	added to injunction barrier list	newly identified barrier - limited gain	3/2/2022	No
995715	I-5;NB	268.64	unnamed	California Cr	1	not an injunction barrier	barrier corrected	10/4/2020	Yes
933401	I-5;NB ROW	270.40	unnamed	unnamed California Cr trib	1	added to injunction barrier list	newly identified barrier - significant gain	3/2/2022	No
01.0626 0.35	SR 11	18.60	Chuckanut Cr	Chuckanut Bay	1	not an injunction barrier	culvert determined to not be a barrier	7/25/2018	No
01.0626 0.35	SR 11	18.60	Chuckanut Cr	Chuckanut Bay	1	added to injunction barrier list	newly identified barrier - significant gain	9/11/2017	No
990581	SR 11	18.65	Hoags Cr	Chuckanut Cr	1	not an injunction barrier	barrier corrected	10/23/2020	Yes
994389	SR 11	20.25	Padden Cr	Bellingham Bay	1	not an injunction barrier	barrier corrected	12/30/2015	Yes
994386	SR 11	21.08	Padden Cr	Bellingham Bay	1	not an injunction barrier	barrier corrected	10/30/2021	Yes
936210	SR 539	3.49	Silver Creek	Nooksack R	1	added to injunction barrier list	newly identified barrier - significant gain	3/15/2023	No
991973	SR 539 SB	0.30	WF Spring Cr	Spring Cr	1	added to injunction barrier list	newly identified barrier - significant gain	4/30/2018	No
990014	SR 542	3.50	Squalicum Cr	Bellingham Bay	1	added to injunction barrier list	newly identified barrier - significant gain	9/25/2017	No
01.0228 4.80	SR 542	6.55	Anderson Cr	Nooksack R	1	not an injunction barrier	barrier corrected	12/29/2015	Yes
990434	SR 542	15.32	unnamed	Jim Cr	1	not an injunction barrier	culvert determined to not be a barrier	6/28/2017	Yes
991112	SR 542	19.57	unnamed	NF Nooksack R	1	added to injunction barrier list	newly identified barrier - significant gain	7/11/2017	No
991704	SR 542	20.14	unnamed	NF Nooksack R	1	added to injunction barrier list	newly identified barrier - limited gain	9/25/2017	No
991621	SR 542	24.90	High Cr	Kendall Cr	1	not an injunction barrier	barrier corrected	12/20/2016	Yes
990187	SR 542	32.00	Hedrick Cr	NF Nooksack R	1	not an injunction barrier	barrier corrected	12/26/2018	Yes
990603	SR 542	36.61	Lookout Cr	NF Nooksack R	1	not an injunction barrier	species use verified, no potential for salmon and/or steelhead	6/15/2014	Yes
931144	SR 546	0.17	Duffner Ditch	Bertrand Cr	1	not an injunction barrier	barrier corrected	9/21/2022	Yes
990510	SR 546	0.46	Double Ditch	Fishtrap Cr	1	not an injunction barrier	barrier corrected	9/21/2022	Yes
996161	SR 546	0.47	Pepin Cr	Fishtrap Cr	1	not an injunction barrier	barrier corrected	9/21/2022	No
996161	SR 546	0.47	Pepin Cr	Fishtrap Cr	1	added to injunction barrier list	newly identified barrier - significant gain	8/5/2014	No
990223	SR 546	4.21	Kamm Ditch	Nooksack R	1	not an injunction barrier	barrier corrected	9/21/2022	No
990223	SR 546	4.21	Kamm Ditch	Nooksack R	1	added to injunction barrier list	newly identified barrier - significant gain	8/24/2017	No
996003	SR 548	0.29	unnamed	California Cr	1	not an injunction barrier	barrier corrected	10/23/2020	Yes
996149	SR 548	8.11	unnamed	Terrell Cr	1	not an injunction barrier	culvert determined to not be a barrier	4/27/2021	Yes
996155	SR 548	11.19	unnamed	Drayton Harbor	1	not an injunction barrier	barrier corrected	12/20/2016	Yes
936092	SR 548		unnamed	Drayton Harbor	1	added to injunction barrier list	newly identified barrier - limited gain	11/9/2022	No
991106	SR 9	70.60	unnamed	Landingstrip Cr	1	not an injunction barrier	barrier corrected	12/13/2021	Yes
992349	SR 9	77.36	unnamed	Tawes Cr	1	not an injunction barrier	barrier corrected	12/20/2019	Yes
992350	SR 9	77.43	unnamed	Tawes Cr	1	not an injunction barrier	barrier corrected	12/20/2019	Yes
992356	SR 9	77.94	Tawes Cr	SF Nooksack R	1	not an injunction barrier	barrier corrected	12/20/2019	Yes

**Appendix II. Updates to the disposition of WSDOT Injunction Barrier List since September 24, 2013 (updates as of June 1, 2023)**

237 culverts are no longer injunction barriers requiring repair. 212 newly identified barrier culverts added to the injunction barrier list.

List sorted by WRIA, Road, and Milepost location

Site ID	Road	Milepost	Stream	Tributary to	WRIA	Disposition	Explanation	Modified Date	On Original 2013 Injunction List
03.0181 0.50	I-5	219.41	Fisher Cr	Carpenter Cr	3	not an injunction barrier	barrier corrected	10/13/2017	Yes
03.0183 1.20	I-5; LX	218.56	unnamed	Milltown Cr	3	added to injunction barrier list	newly identified barrier - significant gain	8/5/2021	No
996320	SR 20	46.10	unnamed	Campbell Lk	3	not an injunction barrier	species use verified, no potential for salmon and/or steelhead	11/30/2022	Yes
995422	SR 20	46.54	unnamed	Lake Campbell	3	added to injunction barrier list	newly identified barrier - significant gain	3/1/2023	No
995423	SR 20	48.07	unnamed	Fidalgo Bay	3	added to injunction barrier list	newly identified barrier - significant gain	7/24/2017	No
995424	SR 20	48.12	unnamed	Fidalgo Bay	3	added to injunction barrier list	newly identified barrier - significant gain	7/24/2017	No
995425	SR 20	48.16	unnamed	Fidalgo Bay	3	added to injunction barrier list	newly identified barrier - significant gain	7/24/2017	No
PA104	SR 20	51.77	Blind Sl	Padilla Bay	3	added to injunction barrier list	newly identified barrier - significant gain	6/22/2022	No
933175	SR 20	53.53	unnamed	Guemes Channel	3	added to injunction barrier list	newly identified barrier - significant gain	6/18/2015	No
995432	SR 20	53.90	unnamed	Indian Sl	3	not an injunction barrier	not a culvert feature	2/3/2014	Yes
991146	SR 20	72.85	Childs Cr	Skagit R	3	added to injunction barrier list	newly identified barrier - significant gain	9/16/2015	No
995438	SR 20	77.75	unnamed	Careys Cr	3	not an injunction barrier	culvert determined to not be a barrier	2/3/2017	Yes
991123	SR 20	80.10	unnamed	Skagit R	3	added to injunction barrier list	newly identified barrier - significant gain	9/16/2015	No
933175	SR 20; spur	53.53	unnamed	Guemes Channel	3	not an injunction barrier	species use verified, no potential for salmon and/or steelhead	12/6/2021	No
PA2	SR 536	2.07	unnamed	unnamed Higgins Sl trib	3	added to injunction barrier list	newly identified barrier - limited gain	1/25/2016	No
NC129	SR 538	2.18	Logan Cr	Nookachamps Cr	3	not an injunction barrier	barrier corrected	12/13/2021	Yes
990641	SR 9	40.08	Lake Cr	Lake McMurray	3	not an injunction barrier	barrier corrected	10/19/2022	Yes
990091	SR 9	41.04	Norway Park Cr	Lake McMurray	3	not an injunction barrier	barrier corrected	10/19/2022	Yes
991120	SR 9	42.36	Lake Cr	Big Lk	3	not an injunction barrier	barrier corrected	12/29/2015	Yes
991114	SR 9	62.36	unnamed	Samish R	3	added to injunction barrier list	newly identified barrier - significant gain	9/15/2015	No
SR71	SR 9	63.74	unnamed	Samish R	3	added to injunction barrier list	newly identified barrier - significant gain	9/15/2015	No
991116	SR 9	65.32	unnamed	Samish R	3	added to injunction barrier list	newly identified barrier - significant gain	9/10/2015	No
991446	SR 9	66.51	unnamed	Samish R	3	added to injunction barrier list	newly identified barrier - limited gain	10/13/2015	No
991448	SR 9	67.33	NP Cr	Samish R	3	not an injunction barrier	barrier corrected	12/31/2013	Yes
991122	SR 99	48.00	Gribble Cr	WF Nookachamps Cr	3	not an injunction barrier	barrier corrected	4/26/2019	Yes
993116	I-5	180.63	Scriber Cr	Swamp Cr	4	not an injunction barrier	culvert determined to not be a barrier	1/4/2018	Yes
GR43	SR 20	86.21	Ebing Cr	Skagit R	4	not an injunction barrier	culvert determined to not be a barrier	3/27/2017	Yes
991150	SR 20	87.20	Eagle Cr	Skagit R	4	added to injunction barrier list	newly identified barrier - significant gain	10/28/2015	No
GR9	SR 20	87.70	Fish Cr	Lorenzan Cr	4	not an injunction barrier	barrier corrected	12/13/2021	Yes
GR23	SR 20	88.83	Lorenzan Cr	Skagit R	4	not an injunction barrier	barrier corrected	12/13/2021	Yes
JK2	SR 20	91.30	unnamed	Skagit R	4	not an injunction barrier	barrier corrected	10/19/2022	Yes
991711	SR 20	94.10	unnamed	Skagit R	4	not an injunction barrier	species use verified, no potential for salmon and/or steelhead	7/3/2014	Yes
994941	SR 20	111.68	unnamed	Skagit R	4	not an injunction barrier	culvert determined to not be a barrier	2/21/2023	Yes
932471	SR 20	118.10	Unnamed	Thorton Cr	4	not an injunction barrier	stream determined to be non-fish bearing	1/12/2016	Yes
990885	SR 530	66.53	unnamed	Skagit R	4	added to injunction barrier list	newly identified barrier - significant gain	9/18/2017	No
990622	I-5	211.50	Secret Cr	Pilchuck R	5	added to injunction barrier list	newly identified barrier - significant gain	12/10/2019	No
990623	I-5 SB	211.70	Secret Cr	Pilchuck Cr	5	added to injunction barrier list	newly identified barrier - significant gain	4/17/2018	No
930940	I-5;ROW	215.07	WF Church Cr	Church Cr	5	added to injunction barrier list	newly identified barrier - significant gain	6/17/2021	No
991159	SR 530	24.65	Trafton Cr	NF Stillaquamish R	5	not an injunction barrier	barrier corrected	11/8/2020	Yes
991160	SR 530	25.94	Schoolyard Cr	NF Stillaquamish R	5	not an injunction barrier	barrier corrected	12/20/2019	Yes
990645	SR 530	33.30	unnamed	NF Stillaquamish R	5	added to injunction barrier list	newly identified barrier - limited gain	8/31/2022	No

**Appendix II. Updates to the disposition of WSDOT Injunction Barrier List since September 24, 2013 (updates as of June 1, 2023)**

237 culverts are no longer injunction barriers requiring repair. 212 newly identified barrier culverts added to the injunction barrier list.

List sorted by WRIA, Road, and Milepost location

Site ID	Road	Milepost	Stream	Tributary to	WRIA	Disposition	Explanation	Modified Date	On Original 2013 Injunction List
995404	SR 530	36.83	unnamed	NF Stillaguamish R	5	not an injunction barrier	barrier corrected	10/22/2014	Yes
991169	SR 530	36.90	unnamed	NF Stillaguamish R	5	not an injunction barrier	barrier corrected	10/22/2014	Yes
991170	SR 530	37.58	unnamed	NF Stillaguamish R	5	not an injunction barrier	barrier corrected	10/22/2014	Yes
990649	SR 530	38.53	unnamed	NF Stillaguamish R	5	not an injunction barrier	culvert determined to not be a barrier	1/10/2023	Yes
05.0018 2.00	SR 532	6.14	Church Cr	Stillaguamish R	5	not an injunction barrier	barrier corrected	10/13/2017	Yes
990890	SR 532	8.71	Jackson Gulch Cr	Stillaguamish R	5	not an injunction barrier	species use verified, no potential for salmon and/or steelhead	5/28/2020	Yes
990624	SR 532	9.75	Secret Cr	Pilchuck Cr	5	not an injunction barrier	barrier corrected	12/20/2016	Yes
LP19	SR 9	37.26	unnamed	unnamed Pilchuck Creek tributary	5	not an injunction barrier	barrier corrected	10/30/2021	No
LP19	SR 9	37.26	unnamed	unnamed Pilchuck Creek tributary	5	added to injunction barrier list	newly identified barrier - limited gain	4/10/2018	No
991158	SR 9	38.88	unnamed	Pilchuck Cr	5	added to injunction barrier list	newly identified barrier - significant gain	4/4/2016	No
995978	SR 20	12.96	Crockett Lk	Keystone Harbor	6	not an injunction barrier	species use verified, no potential for salmon and/or steelhead	1/7/2015	Yes
933665	I-5	196.24	unnamed	Snohomish R	7	added to injunction barrier list	newly identified barrier - significant gain	4/22/2019	No
995284	I-5	203.22	unnamed	WF Quilceda Cr	7	not an injunction barrier	culvert determined to not be a barrier	2/3/2017	Yes
102 Q058	I-5	203.24	unnamed	WF Quilceda Cr	7	not an injunction barrier	duplicate record	11/4/2013	Yes
934821	I-90 WB	25.68	unnamed	Lake Cr	7	added to injunction barrier list	newly identified barrier - significant gain	4/13/2020	No
934822	I-90 WB; off-ramp	25.68	unnamed	Lake Cr	7	added to injunction barrier list	newly identified barrier - significant gain	4/13/2020	No
934820	I-90; EB; on-ramp	25.69	unnamed	Lake Cr	7	added to injunction barrier list	newly identified barrier - significant gain	4/13/2020	No
994859	SR 18	23.66	unnamed	Deep Cr	7	added to injunction barrier list	newly identified barrier - significant gain	3/4/2019	No
994860	SR 18	24.24	unnamed	Deep Cr	7	added to injunction barrier list	newly identified barrier - significant gain	4/20/2020	No
994860	SR 18	24.24	unnamed	Deep Cr	7	not an injunction barrier	stream determined to be non-fish bearing	1/19/2021	No
934882	SR 18	24.42	unnamed	Deep Cr	7	added to injunction barrier list	newly identified barrier - limited gain	10/16/2019	No
935338	SR 18	24.71	unnamed	Deep Cr	7	added to injunction barrier list	newly identified barrier - limited gain	6/13/2022	No
934791	SR 18	25.04	unnamed	Deep Cr	7	added to injunction barrier list	newly identified barrier - significant gain	3/4/2019	No
934791	SR 18	25.67	unnamed	Deep Cr	7	not an injunction barrier	stream determined to be non-fish bearing	1/27/2021	No
934828	SR 18	27.83	unnamed	unnamed Lake Cr trib	7	added to injunction barrier list	newly identified barrier - significant gain	4/13/2020	No
934783	SR 18; ROW	24.24	unnamed	Deep Cr	7	added to injunction barrier list	newly identified barrier - significant gain	4/20/2020	No
934783	SR 18; ROW	24.24	unnamed	Deep Cr	7	not an injunction barrier	stream determined to be non-fish bearing	1/19/2021	No
990325	SR 202	13.24	Patterson Cr	Snoqualmie R	7	not an injunction barrier	barrier corrected	11/4/2020	Yes
991174	SR 202	19.69	unnamed	Patterson Cr	7	not an injunction barrier	barrier corrected	11/4/2020	Yes
991173	SR 202	19.77	unnamed	Patterson Cr	7	not an injunction barrier	barrier corrected	11/4/2020	Yes
101S-10	SR 202	23.45	Mud Cr	Snoqualmie R	7	added to injunction barrier list	newly identified barrier - significant gain	1/7/2016	No
991721	SR 203	4.91	unnamed	Langlois Cr	7	added to injunction barrier list	newly identified barrier - significant gain	12/3/2014	No
991717	SR 203	4.98	Langlois Cr	Snoqualmie R	7	not an injunction barrier	barrier corrected	4/22/2019	Yes
995178	SR 203	11.61	unnamed	unnamed Snoqualmie R trib	7	not an injunction barrier	culvert determined to not be a barrier	12/20/2022	Yes
991716	SR 203	13.60	Loutsis Cr	Snoqualmie R	7	not an injunction barrier	barrier corrected	10/23/2020	Yes
995181	SR 203	14.10	Thayer Cr	Snoqualmie R	7	not an injunction barrier	barrier corrected	9/11/2017	Yes
991718	SR 203	14.55	Coe Clemmons Cr	Snoqualmie R	7	not an injunction barrier	barrier corrected	12/29/2015	Yes
995190	SR 203	19.73	unnamed	Snoqualmie R	7	added to injunction barrier list	newly identified barrier - significant gain	8/20/2022	No
995141	SR 204	0.96	unnamed	Ebey Sl	7	not an injunction barrier	species use verified, no potential for salmon and/or steelhead	9/26/2021	Yes

**Appendix II. Updates to the disposition of WSDOT Injunction Barrier List since September 24, 2013 (updates as of June 1, 2023)**

237 culverts are no longer injunction barriers requiring repair. 212 newly identified barrier culverts added to the injunction barrier list.

List sorted by WRIA, Road, and Milepost location

Site ID	Road	Milepost	Stream	Tributary to	WRIA	Disposition	Explanation	Modified Date	On Original 2013 Injunction List
934276	SR 522	18.77	unnamed	unnamed Evans Cr trib	7	added to injunction barrier list	newly identified barrier - significant gain	12/5/2018	No
992381	SR 522	19.35	unnamed	Anderson Cr	7	not an injunction barrier	stream determined to be non-fish bearing	10/16/2021	Yes
994125	SR 522	21.97	unnamed	Skykomish R	7	not an injunction barrier	barrier corrected	10/22/2014	Yes
994128	SR 522	21.97	unnamed	Skykomish R	7	not an injunction barrier	barrier corrected	10/22/2014	Yes
995126	SR 526	0.80	Japanese Gulch Cr	Possession Sound	7	added to injunction barrier list	newly identified barrier - significant gain	5/2/2019	No
991057	SR 531	8.37	unnamed	MF Quilceda Cr	7	added to injunction barrier list	newly identified barrier - limited gain	1/28/2019	No
991058	SR 531	8.65	Edgecomb Cr	MF Quilceda Cr	7	not an injunction barrier	barrier corrected	10/25/2017	No
991058	SR 531	8.65	Edgecomb Cr	MF Quilceda Cr	7	added to injunction barrier list	newly identified barrier - significant gain	10/16/2014	No
991059	SR 531	8.71	Edgecomb Cr	MF Quilceda Cr	7	not an injunction barrier	barrier corrected	10/25/2017	Yes
995208	SR 531	9.70	unnamed	unnamed	7	added to injunction barrier list	newly identified barrier - significant gain	4/20/2020	No
934372	SR 539 SB	6.00	unnamed	Steamboat Sl	7	added to injunction barrier list	newly identified barrier - limited gain	12/18/2017	No
999168	SR 9	14.00	Centennial Cr	Pilchuck R	7	not an injunction barrier	culvert determined to not be a barrier	12/4/2019	Yes
995085	SR 9	22.58	Quilceda Cr	Ebey Sl	7	added to injunction barrier list	newly identified barrier - significant gain	2/15/2023	No
934011	SR 9 (Broadway Ave)		unnamed	unnamed Thomas Cr trib	7	not an injunction barrier	not WSDOT ownership	2/24/2021	No
934015	SR 9 (Broadway Ave)		unnamed	unnamed Thomas Cr trib	7	not an injunction barrier	not WSDOT ownership	2/24/2021	No
934015	SR 9 (Broadway Rd)		unnamed	Snohomish R	7	added to injunction barrier list	newly identified barrier - significant gain	12/21/2016	No
934011	SR 9 (Broadway Rd)		unnamed	Snohomish R	7	added to injunction barrier list	newly identified barrier - significant gain	12/21/2016	No
991810	SR 9; Access Rd	4.15	unnamed	unnamed	7	not an injunction barrier	species use verified, no potential for salmon and/or steelhead	1/15/2015	Yes
990233	SR 92	2.69	Little Pilchuck Cr	Pilchuck R	7	not an injunction barrier	barrier corrected	4/26/2019	Yes
995046	US 2	3.59	unnamed	unnamed	7	not an injunction barrier	stream determined to be non-fish bearing	9/20/2016	Yes
995049	US 2	4.67	Cemetery Cr	Snohomish R	7	added to injunction barrier list	newly identified barrier - significant gain	9/27/2022	No
995101	US 2	6.23	Bunk Foss Cr	Pilchuck R	7	not an injunction barrier	culvert determined to not be a barrier	10/30/2020	Yes
101NORT-01	US 2	15.74	unnamed	Skykomish R	7	added to injunction barrier list	newly identified barrier - significant gain	10/9/2017	No
101NORT-04	US 2	16.22	unnamed	Skykomish R	7	not an injunction barrier	culvert determined to not be a barrier	10/16/2017	No
101NORT-04	US 2	16.22	unnamed	Skykomish R	7	added to injunction barrier list	newly identified barrier - significant gain	5/2/2016	No
101NORT-36	US 2	19.30	unnamed	Skykomish R	7	not an injunction barrier	culvert determined to not be a barrier	9/14/2017	Yes
992066	US 2	24.80	unnamed	Wallace R	7	not an injunction barrier	culvert determined to not be a barrier	9/7/2016	No
992066	US 2	24.80	unnamed	Wallace R	7	added to injunction barrier list	newly identified barrier - significant gain	5/4/2016	No
991822	US 2	34.36	unnamed	Skykomish R	7	not an injunction barrier	species use verified, no potential for salmon and/or steelhead	1/27/2021	Yes
995058	US 2	44.26	unnamed	SF Skykomish R	7	not an injunction barrier	species use verified, no potential for salmon and/or steelhead	6/27/2018	Yes
995059	US 2	44.30	unnamed	SF Skykomish R	7	not an injunction barrier	species use verified, no potential for salmon and/or steelhead	6/27/2018	Yes
995061	US 2	48.35	unnamed	SF Skykomish R	7	not an injunction barrier	culvert determined to not be a barrier	2/3/2017	Yes
934093	US 2	48.82	unnamed	SF Skykomish R	7	added to injunction barrier list	newly identified barrier - limited gain	5/8/2017	No
934093	US 2; ROW	48.82	unnamed	SF Skykomish R	7	not an injunction barrier	not under a state road	10/6/2020	No
08.0183 3.10	270th Ave	20.28	EF Issaquah Cr	Issaquah Cr	8	not an injunction barrier	not WSDOT ownership	7/24/2014	Yes
998969	I-405	4.61	unnamed	Lake Washington	8	added to injunction barrier list	newly identified barrier - limited gain	12/5/2018	No
996482	I-405	5.09	Johns Cr	Lake Washington	8	added to injunction barrier list	newly identified barrier - significant gain	9/9/2015	No



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237 culverts are no longer injunction barriers requiring repair. 212 newly identified barrier culverts added to the injunction barrier list.

List sorted by WRIA, Road, and Milepost location

Site ID	Road	Milepost	Stream	Tributary to	WRIA	Disposition	Explanation	Modified Date	On Original 2013 Injunction List
999410	I-405	6.31	Clover Cr	Lk Washington	8	not an injunction barrier	species use verified, no potential for salmon and/or steelhead	6/6/2017	Yes
933259	I-405	7.61	Gypsy Cr	Lake Washington	8	added to injunction barrier list	newly identified barrier - significant gain	5/18/2015	No
998971	I-405	7.83	unnamed	Lake Washington	8	added to injunction barrier list	newly identified barrier - significant gain	5/18/2015	No
998972	I-405	7.90	unnamed	Lake Washington	8	added to injunction barrier list	newly identified barrier - significant gain	5/18/2015	No
934704	I-405	8.15	unnamed	Lake Washington	8	added to injunction barrier list	newly identified barrier - limited gain	1/14/2019	No
934704	I-405	8.18	unnamed	Lake Washington	8	not an injunction barrier	stream determined to be non-fish bearing	7/24/2021	No
936041	I-405	9.20	Lakehurst Cr	Lake Washington	8	added to injunction barrier list	newly identified barrier - significant gain	8/20/2022	No
932933	I-405	10.00	unnamed	Coal Cr	8	added to injunction barrier list	newly identified barrier - significant gain	12/5/2018	No
933258	I-405	12.03	Trail Cr	Mercer Sl	8	added to injunction barrier list	newly identified barrier - limited gain	5/18/2015	No
933244	I-405	13.05	Sturtevant Cr	Richards Cr	8	added to injunction barrier list	newly identified barrier - significant gain	2/24/2015	No
998982	I-405	19.07	unnamed	Forbes Cr	8	not an injunction barrier	stream determined to be non-fish bearing	5/14/2022	Yes
990376	I-405	19.12	Forbes Cr	Juanita Bay	8	added to injunction barrier list	newly identified barrier - significant gain	4/20/2020	No
932812	I-405	20.50	unnamed	Juanita Cr	8	added to injunction barrier list	newly identified barrier - significant gain	10/29/2014	No
991008	I-405	27.70	unnamed	North Cr	8	added to injunction barrier list	newly identified barrier - limited gain	3/29/2016	No
993898	I-405; ROW	29.67	Martha Cr	Swamp Cr	8	not an injunction barrier	not WSDOT ownership	12/28/2015	Yes
998979	I-405; SB	21.44	unnamed	Juanita Cr	8	not an injunction barrier	stream determined to be non-fish bearing	8/4/2016	Yes
998976	I-405; SB	27.76	unnamed	North Cr	8	added to injunction barrier list	newly identified barrier - limited gain	3/29/2016	No
934543	I-5	172.38	unnamed	SF Thornton Cr	8	added to injunction barrier list	newly identified barrier - limited gain	3/29/2019	No
994842	I-5; ROW	175.00	unnamed	Thornton Cr	8	not an injunction barrier	not under a state road	3/2/2022	Yes
933867	I-90	6.75	unnamed	Lake Washington	8	added to injunction barrier list	newly identified barrier - limited gain	9/11/2017	No
994415	I-90	14.71	unnamed	Lake Sammamish	8	added to injunction barrier list	newly identified barrier - significant gain	10/11/2017	No
934151	I-90 ROW	17.06	unnamed	NF Issaquah Cr	8	not an injunction barrier	barrier corrected	10/13/2017	No
934151	I-90 ROW	17.06	unnamed	NF Issaquah Cr	8	added to injunction barrier list	newly identified barrier - limited gain	5/8/2017	No
996473	I-90; EB	21.23	unnamed	EF Issaquah Cr	8	not an injunction barrier	culvert determined to not be a barrier	8/4/2017	Yes
996476	I-90; WB Off-ramp	16.03	unnamed	Tibbetts Cr	8	added to injunction barrier list	newly identified barrier - significant gain	7/15/2019	No
996475	I-90; WB off-ramp	17.00	unnamed	NF Issaquah Cr	8	not an injunction barrier	barrier corrected	10/13/2017	No
996475	I-90; WB off-ramp	17.00	unnamed	NF Issaquah Cr	8	added to injunction barrier list	newly identified barrier - significant gain	10/13/2016	No
996963	I-90; WB on-ramp	17.00	NF Issaquah Cr	Issaquah Cr	8	not an injunction barrier	barrier corrected	10/13/2017	Yes
996885	Redmond Way	5.33	unnamed	unnamed	8	not an injunction barrier	not WSDOT ownership	1/7/2014	Yes
996886	Redmond Way	5.40	unnamed	Peters Cr	8	not an injunction barrier	not WSDOT ownership	1/7/2014	Yes
996887	Redmond Way	5.69	Peters Cr	Sammamish R	8	not an injunction barrier	not WSDOT ownership	1/7/2014	Yes
996492	SR 169	17.92	unnamed	Cedar R	8	not an injunction barrier	barrier corrected	12/6/2021	Yes
996494	SR 169	18.48	unnamed	Cedar R	8	not an injunction barrier	culvert determined to not be a barrier	5/14/2022	Yes
996500	SR 169	19.84	unnamed	Cedar R	8	added to injunction barrier list	newly identified barrier - limited gain	1/7/2019	No
995970	SR 18	22.55	unnamed	unnamed Holder Cr trib	8	added to injunction barrier list	newly identified barrier - limited gain	3/4/2019	No
102 L062	SR 202	0.14	Little Bear Cr	Sammamish R	8	not an injunction barrier	barrier corrected	4/26/2019	Yes
996930	SR 202; ROW	1.03	unnamed	Sammamish R	8	not an injunction barrier	barrier corrected	2/12/2022	Yes
994236	SR 520	6.19	Yarrow Cr	Lk Washington	8	not an injunction barrier	barrier corrected	10/30/2014	No
994236	SR 520	6.19	Yarrow Cr	Lk Washington	8	added to injunction barrier list	newly identified barrier - significant gain	1/6/2014	No
994705	SR 520	6.44	unnamed	Yarrow Cr	8	not an injunction barrier	barrier corrected	12/31/2013	Yes
994449	SR 520; EB off-ramp	6.03	Yarrow Cr	Lk Washington	8	not an injunction barrier	barrier corrected	3/15/2016	Yes

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Site ID	Road	Milepost	Stream	Tributary to	WRIA	Disposition	Explanation	Modified Date	On Original 2013 Injunction List
994237	SR 520; LX	6.26	Yarrow Cr	Lk Washington	8	not an injunction barrier	barrier corrected	10/22/2014	Yes
994704	SR 520; Maint Yard	6.40	unnamed	Yarrow Cr	8	not an injunction barrier	barrier corrected	3/15/2016	Yes
994238	SR 520; WB off-ramp	6.27	Yarrow Cr	Lk Washington	8	not an injunction barrier	barrier corrected	10/22/2014	Yes
990274	SR 522	4.69	unnamed	Lake Washington	8	added to injunction barrier list	newly identified barrier - significant gain	9/15/2020	No
08.0052 0.10	SR 522	5.76	Lyon Cr	Lake Washington	8	not an injunction barrier	barrier corrected	12/29/2015	Yes
996928	SR 522	9.60	Horse Cr	Sammamish R	8	not an injunction barrier	barrier corrected	4/26/2019	Yes
996910	SR 522	11.59	unnamed	Sammamish R	8	not an injunction barrier	stream determined to be non-fish bearing	4/26/2019	Yes
996913	SR 522	13.66	unnamed	Little Bear Cr	8	not an injunction barrier	culvert determined to not be a barrier	9/11/2021	Yes
994440	SR 522	16.54	Daniels Cr	Cottage Lk Cr	8	not an injunction barrier	culvert determined to not be a barrier	11/19/2013	Yes
994440	SR 522	16.57	Daniels Cr	Cottage Lk Cr	8	added to injunction barrier list	newly identified barrier - significant gain	1/14/2019	Yes
996915	SR 523	1.24	unnamed	Thornton Cr	8	added to injunction barrier list	newly identified barrier - significant gain	12/20/2019	Yes
996915	SR 523	1.24	unnamed	Thornton Cr	8	not an injunction barrier	species use verified, no potential for salmon and/or steelhead	12/16/2013	Yes
993122	SR 524	7.02	Martha Cr	Swamp Cr	8	not an injunction barrier	not WSDOT ownership	12/16/2015	Yes
102 L020	SR 524	12.46	Great Dane Cr	Little Bear Cr	8	not an injunction barrier	barrier corrected	4/26/2019	Yes
993121	SR 524; ROW	7.07	Martha Cr	Swamp Cr	8	not an injunction barrier	not WSDOT ownership	12/16/2015	Yes
102 S088	SR 525	0.28	Maple Cr	Swamp Cr	8	added to injunction barrier list	newly identified barrier - significant gain	7/8/2014	No
991962	SR 525	5.67	unnamed	Big Gulch	8	added to injunction barrier list	newly identified barrier - limited gain	8/29/2022	No
991842	SR 900	15.86	Green Cr	May Cr	8	not an injunction barrier	barrier corrected	10/13/2017	Yes
993095	SR 99	47.66	Scriber Cr	Swamp Cr	8	not an injunction barrier	culvert determined to not be a barrier	10/8/2022	No
993095	SR 99	47.66	Scriber Cr	Swamp Cr	8	added to injunction barrier list	newly identified barrier - significant gain	1/14/2019	No
934387	SR 99	48.69	unnamed	Swamp Cr	8	added to injunction barrier list	newly identified barrier - significant gain	6/22/2022	No
09.0377 2.12	200th Ave	21.80	Des Moines Cr	Puget Sound	9	not an injunction barrier	not WSDOT ownership	6/11/2014	Yes
998967	I-405; ROW	0.61	Gilliam Cr	Green R	9	not an injunction barrier	culvert determined to not be a barrier	12/22/2022	Yes
991031	I-5	145.93	Bingaman Cr	Green R	9	added to injunction barrier list	newly identified barrier - significant gain	1/6/2016	No
935070	I-5	147.57	unnamed	unnamed SF McSorley Cr trib	9	added to injunction barrier list	newly identified barrier - limited gain	10/14/2021	No
933613	I-5; ROW S 288th St	145.81	Bingaman Cr	Bingaman Pond	9	added to injunction barrier list	newly identified barrier - significant gain	2/3/2017	No
991224	SR 167	16.12	Mill Cr	Green R	9	added to injunction barrier list	newly identified barrier - significant gain	8/10/2022	No
935187	SR 167	17.39	unnamed	Mill Cr	9	added to injunction barrier list	newly identified barrier - limited gain	9/4/2021	No
990394	SR 167	21.64	Spring Brook Cr	Black R	9	not an injunction barrier	culvert determined to not be a barrier	7/27/2016	Yes
933329	SR 167	23.71	unnamed	Springbrook Cr	9	added to injunction barrier list	newly identified barrier - significant gain	5/28/2022	No
933530	SR 167	23.93	unnamed	unnamed Springbrook Cr trib	9	added to injunction barrier list	newly identified barrier - significant gain	12/28/2017	No
935343	SR 167 off ramp	22.24	unnamed	Harrison Cr	9	added to injunction barrier list	newly identified barrier - significant gain	8/11/2021	No
935342	SR 167 off ramp	22.25	unnamed	Harrison Cr	9	added to injunction barrier list	newly identified barrier - significant gain	8/11/2021	No
935056	SR 169	7.10	Rock Cr	Rock Cr	9	added to injunction barrier list	newly identified barrier - significant gain	4/20/2020	No
997695	SR 169	9.95	Ravensdale Cr	Lake Sawyer	9	not an injunction barrier	barrier corrected	9/20/2022	Yes
997646	SR 181	7.30	unnamed	Springbrook Cr	9	not an injunction barrier	culvert determined to not be a barrier	12/1/2015	Yes
936016	SR 515	6.75	Rolling Hills Cr	Springbrook Cr	9	added to injunction barrier list	newly identified barrier - significant gain	7/30/2022	No
997670	SR 516	10.58	unnamed	Big Soos Cr	9	not an injunction barrier	stream determined to be non-fish bearing	5/11/2018	Yes
990210	SR 516	12.33	Jenkins Cr	Big Soos Cr	9	not an injunction barrier	culvert determined to not be a barrier	10/16/2014	Yes

**Appendix II. Updates to the disposition of WSDOT Injunction Barrier List since September 24, 2013 (updates as of June 1, 2023)**

237 culverts are no longer injunction barriers requiring repair. 212 newly identified barrier culverts added to the injunction barrier list.

List sorted by WRIA, Road, and Milepost location

Site ID	Road	Milepost	Stream	Tributary to	WRIA	Disposition	Explanation	Modified Date	On Original 2013 Injunction List
933186	I-5	134.33	unnamed	Puyallup R	10	added to injunction barrier list	newly identified barrier - limited gain	9/9/2015	No
991800	SR 162	4.39	unnamed	Puyallup R	10	not an injunction barrier	culvert determined to not be a barrier	11/22/2016	Yes
991215	SR 162	4.82	Ball Cr	Puyallup R	10	not an injunction barrier	barrier corrected	12/31/2013	Yes
105 R032517a	SR 162	12.43	Rauch Cr	Carbon R	10	added to injunction barrier list	newly identified barrier - significant gain	10/14/2021	No
105 R033020A	SR 162	16.66	unnamed	S Prairie Cr	10	added to injunction barrier list	newly identified barrier - significant gain	6/9/2017	Yes
105 R042117a	SR 164	8.24	Pussyfoot Cr	White R	10	not an injunction barrier	barrier corrected	10/23/2021	Yes
991837	SR 164	10.21	unnamed	unnamed	10	not an injunction barrier	culvert determined to not be a barrier	6/28/2017	Yes
996308	SR 164; ROW	7.00	unnamed	White R	10	not an injunction barrier	not WSDOT ownership	3/15/2016	Yes
990083	SR 167	0.82	Clear Cr	Puyallup R	10	not an injunction barrier	not a culvert feature	2/3/2014	Yes
991212	SR 167	8.05	Milwaukee Canal	White R	10	added to injunction barrier list	newly identified barrier - significant gain	4/1/2020	No
991211	SR 167	10.00	Milwaukee Canal	White R	10	added to injunction barrier list	newly identified barrier - significant gain	4/1/2020	No
996290	SR 167	11.37	unnamed	Milwaukee Canal	10	not an injunction barrier	culvert determined to not be a barrier	10/29/2013	Yes
996290	SR 167	11.37	unnamed	Milwaukee Canal	10	added to injunction barrier list	newly identified barrier - significant gain	8/5/2020	Yes
105 R050320b	SR 167; 8th St E	10.65	Milwaukee Canal	White R	10	added to injunction barrier list	newly identified barrier - significant gain	8/7/2021	No
105 R050320a	SR 167; NB Ext 8	12.05	Jovita Cr	Milwaukee Canal	10	not an injunction barrier	barrier corrected	12/20/2016	Yes
930179	SR 167; ROW	12.72	unnamed	Milwaukee Canal	10	not an injunction barrier	barrier corrected	12/20/2016	Yes
996618	SR 410	17.26	Fennel Cr	Puyallup R	10	not an injunction barrier	species use verified, no potential for salmon and/or steelhead	9/11/2017	Yes
991204	SR 410	22.64	unnamed	Boise Cr	10	added to injunction barrier list	newly identified barrier - significant gain	6/5/2017	No
991206	SR 410	22.94	unnamed	Boise Cr	10	added to injunction barrier list	newly identified barrier - significant gain	6/5/2017	No
991205	SR 410	23.83	unnamed	Boise Cr	10	not an injunction barrier	culvert determined to not be a barrier	3/2/2018	Yes
996622	SR 410	31.48	unnamed	Scatter Cr	10	not an injunction barrier	species use verified, no potential for salmon and/or steelhead	8/20/2022	Yes
996671	SR 410	53.01	unnamed	White R	10	not an injunction barrier	species use verified, no potential for salmon and/or steelhead	6/2/2021	Yes
105 R121419a	SR 509	2.98	Wapato Cr	Blair Waterway	10	added to injunction barrier list	newly identified barrier - significant gain	1/14/2019	No
933183	SR 509	5.24	unnamed	Commencement Bay	10	added to injunction barrier list	newly identified barrier - significant gain	11/19/2018	No
933185	SR 509	5.81	unnamed	Commencement Bay	10	added to injunction barrier list	newly identified barrier - limited gain	9/9/2015	No
990412	SR 512	4.17	Swan Cr	Puyallup R	10	not an injunction barrier	culvert determined to not be a barrier	6/18/2015	Yes
996274	SR 7	58.34	unnamed	Commencement Bay	10	added to injunction barrier list	newly identified barrier - significant gain	12/28/2015	No
996275	SR 99	0.44	unnamed	Fife Ditch	10	not an injunction barrier	stream determined to be non-fish bearing	5/28/2020	Yes
991210	SR 99	6.86	WF Hylebos Cr	Hylebos Cr	10	not an injunction barrier	barrier corrected	12/29/2015	Yes
933313	I-5; NB	115.77	unnamed	unnamed Red Salmon Cr trib	11	added to injunction barrier list	newly identified barrier - limited gain	6/1/2015	No
990972	SR 161	12.85	South Cr	Muck Cr	11	not an injunction barrier	barrier corrected	12/20/2016	Yes
991049	SR 507	36.35	Lacamas Cr	Muck Cr	11	not an injunction barrier	barrier corrected	12/20/2016	Yes
990656	SR 510	5.64	unnamed	McAllister Cr	11	not an injunction barrier	species use verified, no potential for salmon and/or steelhead	2/7/2023	Yes
990084	SR 7	11.56	Coal Cr	Roundtop Cr	11	not an injunction barrier	species use verified, no potential for salmon and/or steelhead	10/30/2014	Yes
990672	SR 7	14.72	unnamed	East Cr	11	not an injunction barrier	species use verified, no potential for salmon and/or steelhead	10/30/2014	Yes
997628	SR 7	33.52	unnamed	Cranberry Lk	11	not an injunction barrier	culvert determined to not be a barrier	6/5/2021	Yes
990687	SR 7	38.60	unnamed	South Cr	11	not an injunction barrier	stream determined to be non-fish bearing	9/19/2014	Yes
990297	SR 7	41.17	Muck Cr	Nisqually R	11	not an injunction barrier	barrier corrected	12/31/2013	Yes

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List sorted by WRIA, Road, and Milepost location

Site ID	Road	Milepost	Stream	Tributary to	WRIA	Disposition	Explanation	Modified Date	On Original 2013 Injunction List
998888	I-5	109.19	College Cr	Woodland Cr	13	added to injunction barrier list	newly identified barrier - limited gain	1/25/2016	No
115 MC160	SR 106	7.34	unnamed	Hood Canal	14	added to injunction barrier list	newly identified barrier - significant gain	5/7/2021	No
990908	SR 106	10.83	unnamed	Hood Canal	14	added to injunction barrier list	newly identified barrier - significant gain	5/15/2021	No
991246	SR 106	13.50	Twanoh Falls Cr	Hood Canal	14	not an injunction barrier	barrier corrected	12/31/2013	Yes
990278	SR 108	8.89	McDonald Cr	Skookum Cr	14	added to injunction barrier list	newly identified barrier - significant gain	5/4/2015	No
14.0021 0.30	SR 108	11.90	Little Skookum Cr	Skookum Cr	14	not an injunction barrier	barrier corrected	12/20/2016	Yes
990706	SR 8	18.99	unnamed	Perry Cr	14	not an injunction barrier	species use verified, no potential for salmon and/or steelhead	12/28/2015	Yes
990707	SR 8	18.99	unnamed	Perry Cr	14	not an injunction barrier	species use verified, no potential for salmon and/or steelhead	12/28/2015	Yes
115 MC093	US 101	346.95	Coffee Cr	Goldsborough Cr	14	not an injunction barrier	barrier corrected	11/8/2020	Yes
996794	Chico Way; SR 3 ROW	41.08	unnamed	Chico Cr	15	not an injunction barrier	barrier corrected	10/13/2022	Yes
992205	SR 104	22.47	Grovers Cr	Miller Bay	15	not an injunction barrier	barrier corrected	12/20/2016	Yes
935539	SR 16	15.05	unnamed	McCormick Cr	15	added to injunction barrier list	newly identified barrier - significant gain	5/15/2021	No
935540	SR 16	15.09	unnamed	McCormick Cr	15	added to injunction barrier list	newly identified barrier - significant gain	5/15/2021	No
934541	SR 16	15.16	unnamed	McCormick Cr	15	added to injunction barrier list	newly identified barrier - significant gain	4/13/2020	No
935061	SR 16	24.55	unnamed	Blackjack Cr	15	added to injunction barrier list	newly identified barrier - significant gain	8/30/2021	No
990357	SR 16	26.80	Ross Cr	Sinclair Inlet	15	added to injunction barrier list	newly identified barrier - significant gain	6/15/2015	No
934154	SR 16	27.49	unnamed	Sinclair Inlet	15	added to injunction barrier list	newly identified barrier - limited gain	5/1/2017	No
996738	SR 16	28.82	unnamed	Sinclair Inlet	15	added to injunction barrier list	newly identified barrier - significant gain	2/28/2023	No
996753	SR 16; EB	28.10	Anderson Cr	Sinclair Inlet	15	not an injunction barrier	barrier corrected	12/20/2016	Yes
996754	SR 16; EB Ext	26.61	unnamed	Ross Cr	15	added to injunction barrier list	newly identified barrier - significant gain	3/25/2019	No
990017	SR 16; WB	28.10	Anderson Cr	Sinclair Inlet	15	not an injunction barrier	barrier corrected	12/20/2016	Yes
992009	SR 166	0.52	unnamed	Sinclair Inlet	15	added to injunction barrier list	newly identified barrier - significant gain	5/1/2017	No
990358	SR 166	1.76	Ross Cr	Sinclair Inlet	15	added to injunction barrier list	newly identified barrier - significant gain	3/25/2019	No
996735	SR 3	26.13	unnamed (Romance Hill)	Mindy Cr	15	not an injunction barrier	barrier corrected	12/20/2016	Yes
991995	SR 3	36.10	Wright Cr	Sinclair Inlet	15	added to injunction barrier list	newly identified barrier - significant gain	10/12/2013	No
996741	SR 3	40.37	unnamed	Dyes Inlet	15	not an injunction barrier	culvert determined to not be a barrier	12/28/2022	Yes
931620	SR 3; ROW	25.78	unnamed	Mindy Cr	15	not an injunction barrier	not WSDOT ownership	2/19/2015	Yes
931621	SR 3; ROW	25.78	unnamed	Mindy Cr	15	not an injunction barrier	not WSDOT ownership	2/19/2015	Yes
996795	SR 3; SB on-ramp	40.99	unnamed	Chico Cr	15	not an injunction barrier	barrier corrected	10/13/2022	Yes
990286	SR 302	11.30	Minter Cr	Henderson Bay	15	not an injunction barrier	barrier corrected	9/4/2021	Yes
15.0051 0.10	SR 302	11.44	Little Minter Cr	Minter Cr	15	not an injunction barrier	barrier corrected	9/27/2022	Yes
15.0051 0.20	SR 302	11.5	Little Minter Cr	Minter Cr	15	not an injunction barrier	barrier corrected	9/27/2022	Yes
935880	SR 303	6.35	unnamed	Hoot Cr	15	added to injunction barrier list	newly identified barrier - significant gain	4/30/2022	No
932154	SR 303	6.64	unnamed	Hoot Cr	15	added to injunction barrier list	newly identified barrier - limited gain	4/2/2022	No
990997	SR 303	4.40	Steele Cr	Crouch Cr	15	added to injunction barrier list	newly identified barrier - significant gain	9/26/2021	No
932143	SR 303; LX (Central Valley Rd NW)		unnamed	Hoot Cr	15	added to injunction barrier list	newly identified barrier - limited gain	3/14/2022	No
932163	SR 303; ROW	4.33	unnamed	Steele Cr	15	not an injunction barrier	not WSDOT ownership	3/15/2016	Yes
932155	SR 303;NB off-ramp	6.62	unnamed	Hoot Cr	15	added to injunction barrier list	newly identified barrier - limited gain	3/19/2022	No



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Site ID	Road	Milepost	Stream	Tributary to	WRIA	Disposition	Explanation	Modified Date	On Original 2013 Injunction List
933644	SR 305	1.90	unnamed	Murden Cove	15	added to injunction barrier list	newly identified barrier - limited gain	6/1/2016	No
933663	SR 305	3.37	unnamed	Murden Cove	15	added to injunction barrier list	newly identified barrier - limited gain	6/1/2016	No
933664	SR 305	3.40	unnamed	Murden Cove	15	added to injunction barrier list	newly identified barrier - limited gain	7/2/2019	No
933685	SR 305	5.23	unnamed	Port Madison	15	added to injunction barrier list	newly identified barrier - limited gain	4/11/2016	No
933686	SR 305	5.37	unnamed	Manzanita Bay	15	added to injunction barrier list	newly identified barrier - significant gain	4/11/2016	No
994328	SR 305	10.55	unnamed	Liberty Bay	15	added to injunction barrier list	newly identified barrier - significant gain	4/11/2016	No
990121	SR 305	12.80	Dogfish Cr	Liberty Bay	15	added to injunction barrier list	newly identified barrier - significant gain	8/30/2021	No
933284	SR 305	13.12	unnamed	Dogfish Cr	15	added to injunction barrier list	newly identified barrier - significant gain	12/28/2015	No
990123	SR 307	0.49	Dogfish Cr	Liberty Bay	15	not an injunction barrier	barrier corrected	12/20/2016	Yes
992002	SR 307	4.62	Gamble Cr	Port Gamble	15	not an injunction barrier	barrier corrected	12/20/2016	Yes
936180	SR16 E; SR 166	27.94	unnamed	Sinclair Inlet	15	added to injunction barrier list	newly identified barrier - significant gain	3/20/2023	No
936179	SR16 W	27.95	unnamed	Sinclair Inlet	15	added to injunction barrier list	newly identified barrier - significant gain	3/20/2023	No
996127	SR 106	3.39	unnamed	Hood Canal	16	added to injunction barrier list	newly identified barrier - limited gain	4/29/2015	No
995019	SR 119	3.98	unnamed	Lake Kokanee	16	not an injunction barrier	species use verified, no potential for salmon and/or steelhead	6/30/2015	Yes
995913	SR 119	5.66	unnamed	Lk Cushman	16	added to injunction barrier list	newly identified barrier - limited gain	6/30/2015	No
933500	SR 119	9.38	Big Cr	Lake Cushman	16	added to injunction barrier list	newly identified barrier - significant gain	3/1/2018	No
999584	US 101	308.74	unnamed	Hood Canal	16	not an injunction barrier	species use verified, no potential for salmon and/or steelhead	11/4/2013	Yes
995935	US 101	310.27	unnamed	Hood Canal	16	added to injunction barrier list	newly identified barrier - limited gain	2/3/2017	No
991615	US 101	317.45	unnamed	Hood Canal	16	not an injunction barrier	species use verified, no potential for salmon and/or steelhead	10/18/2014	Yes
933494	US 101	334.30	unnamed	Hood Canal	16	not an injunction barrier	culvert determined to not be a barrier	7/11/2019	No
933494	US 101	334.47	unnamed	Hood Canal	16	added to injunction barrier list	newly identified barrier - limited gain	3/20/2017	No
996367	US 101	334.74	unnamed	Hood Canal	16	not an injunction barrier	culvert determined to not be a barrier	12/1/2015	Yes
990077	SR 116	0.22	Chimacum Cr	Port Townsend Bay	17	added to injunction barrier list	newly identified barrier - significant gain	10/28/2015	No
990943	SR 116	4.67	Kilisut Harbor	Oak Harbor	17	not an injunction barrier	barrier corrected	10/12/2020	No
990943	SR 116	4.67	Kilisut Harbor	Oak Harbor	17	added to injunction barrier list	newly identified barrier - significant gain	11/15/2013	No
994464	US 101	269.45	unnamed	Sequim Bay	17	added to injunction barrier list	newly identified barrier - significant gain	5/8/2017	No
990107	US 101	270.57	Dean Cr	Sequim Bay	17	added to injunction barrier list	newly identified barrier - significant gain	8/13/2019	No
995496	US 101	284.87	unnamed	Snow Cr	17	added to injunction barrier list	newly identified barrier - significant gain	9/12/2017	No
991673	US 101	285.70	Andrews Cr	Snow Cr	17	added to injunction barrier list	newly identified barrier - significant gain	3/2/2018	No
930373	US 101	291.73	unnamed	Leland Cr	17	added to injunction barrier list	newly identified barrier - limited gain	3/2/2018	No
995760	US 101; NB onramp	284.87	unnamed	Snow Cr	17	added to injunction barrier list	newly identified barrier - significant gain	9/12/2017	No
995823	US 101	239.31	unnamed	Indian Cr	18	added to injunction barrier list	newly identified barrier - significant gain	7/10/2017	No
990021	US 101	253.84	Bagley Cr	Strait of Juan de Fuca	18	not an injunction barrier	barrier corrected	12/6/2021	Yes
18.0173 2.40	US 101	256.10	Siebert Cr	Strait of Juan de Fuca	18	not an injunction barrier	barrier corrected	12/6/2021	Yes
990555	US 101	259.79	Owl Cr	Matriotti Cr	18	not an injunction barrier	barrier corrected	10/22/2014	Yes
18.0021 5.40	US 101	260.93	Matriotti Cr	Dungeness R	18	not an injunction barrier	barrier corrected	10/13/2017	Yes
933369	US 101	263.43	Sequim Prairie Tri ditch	Gierin Cr	18	added to injunction barrier list	newly identified barrier - significant gain	12/28/2015	No
995551	US 101	263.68	Sequim Prairie Tri irrigation ditch	Gierin Cr	18	added to injunction barrier list	newly identified barrier - significant gain	6/23/2015	No
934250	US 101 ROW	253.84	unnamed	Bagley Creek	18	added to injunction barrier list	newly identified barrier - significant gain	1/4/2018	No

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932888	US 101; off-ramp	246.18	unnamed	Tumwater Cr	18	added to injunction barrier list	newly identified barrier - significant gain	4/13/2017	No
934250	US 101; ROW	253.84	unnamed	Bagley Cr	18	not an injunction barrier	barrier corrected	12/6/2021	No
990387	SR 112	0.72	Snow Cr	Strait of Juan de Fuca	19	added to injunction barrier list	newly identified barrier - significant gain	5/14/2022	No
990205	SR 112	5.17	Jansen Cr	Strait of Juan de Fuca	19	not an injunction barrier	barrier corrected	12/20/2016	Yes
991739	SR 112	7.35	Olsen Cr	Strait of Juan de Fuca	19	not an injunction barrier	barrier corrected	12/26/2018	Yes
990214	SR 112	33.21	Joe Cr	Strait of Juan de Fuca	19	not an injunction barrier	barrier corrected	12/20/2016	Yes
990144	SR 112	48.49	Field Cr	Strait of Juan de Fuca	19	not an injunction barrier	barrier corrected	12/20/2016	Yes
991693	SR 112	50.73	unnamed	Whiskey Cr	19	not an injunction barrier	culvert determined to not be a barrier	6/26/2022	Yes
996539	SR 112	51.53	Itsa Cr	Uptha Cr	19	added to injunction barrier list	newly identified barrier - significant gain	4/30/2022	No
991660	SR 112	52.90	Nordstrom Cr	Salt Cr	19	not an injunction barrier	barrier corrected	10/13/2017	Yes
990092	SR 112	57.61	Coville Cr	Strait of Juan de Fuca	19	not an injunction barrier	barrier corrected	12/31/2013	Yes
996563	SR 113	6.55	unnamed	unnamed Pysht R trib	19	not an injunction barrier	species use verified, no potential for salmon and/or steelhead	2/13/2023	Yes
991565	US 101	221.00	unnamed	Lk Crescent	19	not an injunction barrier	species use verified, no potential for salmon and/or steelhead	5/8/2015	Yes
996391	US 101	222.11	Eagle Cr	Lk Crescent	19	not an injunction barrier	species use verified, no potential for salmon and/or steelhead	5/8/2015	Yes
996398	US 101	226.24	Smith Cr	Lk Crescent	19	not an injunction barrier	species use verified, no potential for salmon and/or steelhead	5/7/2015	Yes
990400	US 101	162.60	Steamboat Cr	Pacific Ocean	20	not an injunction barrier	barrier corrected	9/19/2022	Yes
934255	US 101	167.52	unnamed	Fletcher Cr	20	added to injunction barrier list	newly identified barrier - limited gain	7/17/2018	No
996228	US 101	169.24	unnamed	Braden Cr	20	added to injunction barrier list	newly identified barrier - significant gain	3/2/2018	Yes
990552	US 101	169.69	unnamed	unnamed Braden Cr trib	20	added to injunction barrier list	newly identified barrier - significant gain	1/14/2019	No
997051	US 101	169.89	unnamed	unnamed tributary to Braden Creek tributary	20	added to injunction barrier list	newly identified barrier - limited gain	3/7/2018	No
990553	US 101	170.12	unnamed	Hoh R	20	added to injunction barrier list	newly identified barrier - significant gain	3/2/2018	No
997053	US 101	170.87	unnamed	unnamed to Hoh R trib	20	added to injunction barrier list	newly identified barrier - significant gain	9/12/2017	No
997055	US 101	174.43	unnamed	Hoh R	20	not an injunction barrier	stream determined to be non-fish bearing	8/30/2021	Yes
991647	US 101	175.45	unnamed	Hoh R	20	not an injunction barrier	barrier corrected	10/23/2020	Yes
997063	US 101	176.55	unnamed	Hoh R	20	not an injunction barrier	species use verified, no potential for salmon and/or steelhead	1/3/2023	Yes
997071	US 101	177.80	unnamed	unnamed Hoh R trib	20	not an injunction barrier	stream determined to be non-fish bearing	1/4/2023	Yes
997072	US 101	177.97	unnamed	unnamed to Hell Roaring Cr	20	not an injunction barrier	species use verified, no potential for salmon and/or steelhead	1/21/2014	Yes
991595	US 101	178.09	unnamed	unnamed to Hell Roaring Cr	20	not an injunction barrier	species use verified, no potential for salmon and/or steelhead	1/21/2014	Yes
991589	US 101	178.30	unnamed	Hell Roaring Cr	20	not an injunction barrier	species use verified, no potential for salmon and/or steelhead	1/21/2014	Yes
991590	US 101	178.63	unnamed	Hell Roaring Cr	20	not an injunction barrier	species use verified, no potential for salmon and/or steelhead	1/21/2014	Yes
991591	US 101	179.13	unnamed	Hell Roaring Cr	20	not an injunction barrier	species use verified, no potential for salmon and/or steelhead	1/21/2014	Yes
991592	US 101	179.57	Hell Roaring Cr	Hoh R	20	not an injunction barrier	species use verified, no potential for salmon and/or steelhead	1/21/2014	Yes
997078	US 101	179.73	unnamed	Hell Roaring Cr	20	not an injunction barrier	species use verified, no potential for salmon and/or steelhead	1/21/2014	Yes
991593	US 101	180.20	unnamed	EF Hell Roaring Cr	20	not an injunction barrier	species use verified, no potential for salmon and/or steelhead	1/21/2014	Yes
997082	US 101	183.44	unnamed	Dowans Cr	20	not an injunction barrier	stream determined to be non-fish bearing	7/21/2014	No

**Appendix II. Updates to the disposition of WSDOT Injunction Barrier List since September 24, 2013 (updates as of June 1, 2023)**

237 culverts are no longer injunction barriers requiring repair. 212 newly identified barrier culverts added to the injunction barrier list.

List sorted by WRIA, Road, and Milepost location

Site ID	Road	Milepost	Stream	Tributary to	WRIA	Disposition	Explanation	Modified Date	On Original 2013 Injunction List
990156	US 101	186.41	unnamed	Bogachiel R	20	not an injunction barrier	culvert determined to not be a barrier	3/27/2017	Yes
991515	US 101	187.79	unnamed	Bogachiel R	20	not an injunction barrier	species use verified, no potential for salmon and/or steelhead	1/16/2014	Yes
933421	US 101	189.05	unnamed	Grader Cr	20	not an injunction barrier	culvert determined to not be a barrier	4/21/2023	No
933421	US 101	189.05	unnamed	Grader Cr	20	added to injunction barrier list	newly identified barrier - significant gain	1/26/2016	No
20.0312 0.60	US 101	197.10	Swanson Cr	Soleduck R	20	not an injunction barrier	barrier corrected	12/20/2016	Yes
933682	US 101; ROW	175.77	unnamed	Hoh R	20	added to injunction barrier list	newly identified barrier - significant gain	3/22/2016	No
990919	SR 109	17.81	unnamed	Connor Cr	21	added to injunction barrier list	newly identified barrier - significant gain	1/14/2019	No
990138	SR 109	28.05	Elk Cr	Pacific Ocean	21	not an injunction barrier	culvert determined to not be a barrier	7/18/2019	Yes
990544	US 101	132.16	unnamed	unnamed Ten O Clock Cr trib	21	not an injunction barrier	species use verified, no potential for salmon and/or steelhead	7/16/2019	Yes
990252	US 101	136.45	Cedar Cr	Raft R	21	added to injunction barrier list	newly identified barrier - significant gain	5/15/2021	No
990455	US 101	136.70	unnamed	Cedar Cr	21	added to injunction barrier list	newly identified barrier - significant gain	5/15/2021	No
990547	US 101	136.90	unnamed	Cedar Cr	21	added to injunction barrier list	newly identified barrier - significant gain	5/15/2021	No
990456	US 101	137.82	unnamed	Crane Cr	21	added to injunction barrier list	newly identified barrier - significant gain	5/15/2021	No
997338	US 101	140.08	unnamed	NF Raft R	21	added to injunction barrier list	newly identified barrier - significant gain	7/1/2021	No
990548	US 101	142.48	Harlow Cr	Queets R	21	added to injunction barrier list	newly identified barrier - significant gain	1/9/2014	No
990457	US 101	142.68	Harlow Cr	Queets R	21	added to injunction barrier list	newly identified barrier - significant gain	1/9/2014	No
990178	US 101	146.85	Harlow Cr	Queets R	21	not an injunction barrier	barrier corrected	10/23/2020	Yes
990148	US 101	147.49	Fisher Cr	Queets R	21	not an injunction barrier	barrier corrected	9/24/2020	Yes
990722	US 101	154.88	unnamed	Pacific Ocean	21	not an injunction barrier	species use verified, no potential for salmon and/or steelhead	7/21/2020	Yes
990550	US 101	154.90	unnamed	Pacific Ocean	21	not an injunction barrier	species use verified, no potential for salmon and/or steelhead	7/21/2020	Yes
997355	US 101	155.80	unnamed	Pacific Ocean	21	not an injunction barrier	species use verified, no potential for salmon and/or steelhead	8/19/2014	Yes
991301	SR 105	31.38	unnamed	South Bay	22	not an injunction barrier	not a culvert feature	2/3/2014	Yes
993010	SR 105	34.02	unnamed	unnamed South Bay trib	22	added to injunction barrier list	newly identified barrier - significant gain	9/28/2020	No
994785	SR 105	46.39	unnamed	unnamed	22	not an injunction barrier	culvert determined to not be a barrier	12/1/2015	Yes
933360	SR 107	4.34	unnamed	Chehalis R	22	added to injunction barrier list	newly identified barrier - significant gain	1/25/2016	No
933361	SR 107 ROW	4.31	unnamed	Chehalis R	22	added to injunction barrier list	newly identified barrier - significant gain	1/25/2016	No
990916	SR 109	11.61	Campbell Sl	Grays Harbor	22	added to injunction barrier list	newly identified barrier - significant gain	7/18/2019	No
990917	SR 109	11.66	Campbell Sl	Grays Harbor	22	added to injunction barrier list	newly identified barrier - significant gain	7/18/2019	No
993722	SR 8	1.02	unnamed	Cloquallum Cr	22	added to injunction barrier list	newly identified barrier - limited gain	12/5/2018	No
22.0507 0.10	SR 8	5.00	MF Wildcat Cr	EF Wildcat Cr	22	not an injunction barrier	barrier corrected	10/5/2018	Yes
990133	SR 8	6.30	EF Wildcat Cr	Wildcat Cr	22	not an injunction barrier	barrier corrected	10/5/2018	Yes
992004	SR 8	7.27	unnamed	Sand Cr	22	added to injunction barrier list	newly identified barrier - significant gain	7/2/2019	No
992005	SR 8	7.34	unnamed	Sand Cr	22	added to injunction barrier list	newly identified barrier - significant gain	7/2/2019	No
993673	US 101	84.15	unnamed	Chehalis R	22	not an injunction barrier	not a culvert feature	2/3/2014	Yes
993680	US 101	90.96	unnamed	Hoquiam R	22	added to injunction barrier list	newly identified barrier - significant gain	12/31/2017	No
993688	US 101	92.33	unnamed	WF Hoquiam R	22	added to injunction barrier list	newly identified barrier - significant gain	7/25/2018	No
990033	US 101	102.97	unnamed	Big Cr	22	added to injunction barrier list	newly identified barrier - significant gain	3/1/2018	No
991581	US 101	104.92	unnamed	Fairchild Cr	22	added to injunction barrier list	newly identified barrier - significant gain	5/28/2022	No
990175	US 101	106.51	Hansen Cr	Humtulpils R	22	added to injunction barrier list	newly identified barrier - significant gain	7/2/2019	No
993714	US 101	107.42	Mopang Cr	Big Cr	22	not an injunction barrier	culvert determined to not be a barrier	3/2/2018	Yes

**Appendix II. Updates to the disposition of WSDOT Injunction Barrier List since September 24, 2013 (updates as of June 1, 2023)**

237 culverts are no longer injunction barriers requiring repair. 212 newly identified barrier culverts added to the injunction barrier list.

List sorted by WRIA, Road, and Milepost location

Site ID	Road	Milepost	Stream	Tributary to	WRIA	Disposition	Explanation	Modified Date	On Original 2013 Injunction List
993712	US 101	103.27	unnamed	Big Cr	22	added to injunction barrier list	newly identified barrier - significant gain	1/14/2019	No
990485	US 12	0.61	Wilson Cr	Chehalis R	22	added to injunction barrier list	newly identified barrier - significant gain	1/31/2018	No
991910	US 12	6.55	unnamed	Higgins Sl	22	added to injunction barrier list	newly identified barrier - significant gain	12/16/2015	No
991909	US 12	6.56	unnamed	unnamed Higgins Sl trib	22	not an injunction barrier	species use verified, no potential for salmon and/or steelhead	12/5/2018	Yes
994791	US 12	9.04	unnamed	Wynoochee R	22	not an injunction barrier	barrier corrected	10/19/2018	Yes
22.0349 0.70	US 12	12.36	Camp Cr	Metcalf Sl	22	added to injunction barrier list	newly identified barrier - significant gain	9/18/2017	No
933616	US 12	17.56	unnamed	Wenzel Sl	22	added to injunction barrier list	newly identified barrier - significant gain	4/13/2017	No
991040	I-5	86.20	unnamed	Chehalis R	23	added to injunction barrier list	newly identified barrier - significant gain	9/12/2017	No
990028	I-5	94.96	Beaver Cr	Black R	23	added to injunction barrier list	newly identified barrier - significant gain	12/8/2020	No
991659	I-5	98.11	unnamed	Salmon Cr	23	added to injunction barrier list	newly identified barrier - significant gain	4/13/2017	No
990962	SR 121	4.04	Blooms Ditch	Black R	23	not an injunction barrier	barrier corrected	12/20/2016	Yes
343040	SR 121	4.10	unnamed	Blooms Ditch	23	not an injunction barrier	barrier corrected	12/20/2016	Yes
343041	SR 121	4.84	Hopkins Ditch	Salmon Cr	23	added to injunction barrier list	newly identified barrier - significant gain	5/15/2021	No
991755	SR 508	3.50	unnamed	SF Newaukum R	23	not an injunction barrier	culvert determined to not be a barrier	11/22/2016	Yes
994967	SR 508	5.75	unnamed	SF Newaukum R	23	not an injunction barrier	culvert determined to not be a barrier	3/30/2017	Yes
990735	SR 6	22.64	Salmon Cr	Rock Cr	23	not an injunction barrier	barrier corrected	12/20/2019	Yes
990741	SR 6	29.00	unnamed	Chehalis R	23	not an injunction barrier	culvert determined to not be a barrier	2/6/2023	Yes
990744	SR 6	31.06	SB Fronia Cr	Fronia Cr	23	not an injunction barrier	barrier corrected	12/20/2019	Yes
990746	SR 6	31.08	Fronia Cr	Chehalis R	23	not an injunction barrier	barrier corrected	12/18/2019	Yes
990755	SR 6	34.85	unnamed	Chehalis R	23	added to injunction barrier list	newly identified barrier - significant gain	8/4/2016	No
990405	SR 6	36.21	unnamed	Chehalis R	23	added to injunction barrier list	newly identified barrier - limited gain	11/22/2019	No
990534	SR 6	40.53	unnamed	Chehalis R	23	not an injunction barrier	stream determined to be non-fish bearing	6/20/2016	Yes
990761	SR 6	41.70	unnamed	Chehalis R	23	not an injunction barrier	stream determined to be non-fish bearing	6/20/2016	Yes
991544	SR 6	46.29	unnamed	Chehalis R	23	not an injunction barrier	barrier corrected	10/16/2021	Yes
991757	SR 6	46.50	unnamed	Chehalis R	23	not an injunction barrier	barrier corrected	10/16/2021	Yes
990952	US 12	34.40	unnamed	Chehalis R	23	added to injunction barrier list	newly identified barrier - significant gain	10/18/2022	No
990563	US 12	36.33	Roundtree Cr	Harris Cr	23	added to injunction barrier list	newly identified barrier - significant gain	10/15/2018	No



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# Appendix III

## Fish Passage Barrier Correction Monitoring Plan

## Monitoring WSDOT Fish Passage Barrier Corrections

Federal Court Injunction No.C70-9214, signed by U.S. District Judge Ricardo S. Martinez on March 29<sup>th</sup>, 2013 requires long-term monitoring of fish passage barrier corrections. Monitoring Implementation Guidelines were agreed upon and finalized by state agencies and tribal nations on September 16, 2015. In addition to monitoring required by the injunction, the Army Corp of Engineers has authority to require long term monitoring under the Clean Water Act Section 404 and Rivers & Harbors Act Section 10 Permits. The Washington Department of Fish and Wildlife (WDFW) has authority to require long term monitoring as a provision of a Hydraulic Project Approval (HPA) issued for a WSDOT fish passage barrier correction project if the design is an alternative to the methodologies approved by the department. WSDOT proposes to use the standardized monitoring protocol to meet those monitoring requirements as we use for injunction area projects. This will ensure consistency and efficiency. WSDOT headquarters Environmental Services Office (ESO) and Hydraulics office have developed a Monitoring Plan to evaluate how each site compares to performance standards through time. Per the Injunction, methodology to determine fish passage is derived from the *Fish Passage Inventory, Assessment, and Prioritization Manual*, WDFW 2019. This plan satisfies all state and federal requirements for post-project monitoring of WSDOT owned fish passage barrier corrections within WSDOT right-of-way.

### Monitoring Approach

Prior to beginning field work, monitoring staff gather historic information from the WSDOT Fish Passage database- Fish Passage Site Management (FPSM). From the data and comments included in FPSM, staff will assemble the following:

- Site location: latitude and longitude coordinates, State Route (SR) and Milepost (MP)
- Waterbody information: Stream name, channel width
- Critical Safety Information (if special conditions apply)
- Fence/Gate Access Directions (if applicable)

Additionally, staff will compile recent pertinent information about the sites that include:

- HPA issued by WDFW
- Permit drawings: proximity map and design drawings that were submitted with and named in the HPA.
- Final Hydraulic Design Report and As-built plan set if available

### Monitoring Time Frame

Fish passage corrections are monitored at the following time periods:

- Post Construction Inspection - follows the completion of in-water work and effort is made to complete this evaluation before the contractor has left the site
- Year 1 Evaluation - occurs after the first winter following completion of initial construction or subsequent repairs
- Long-Term Evaluations - 5 and 10 years after construction
- Additional Monitoring – ad hoc at the discretion of the WSDOT biologist

## Monitoring Parameters

Post Construction Evaluation- Sites are evaluated to ensure that they comply with the permitted designs. The following project elements are compared against the plan set defined in the HPA:

- Culvert or bridge span
- Culvert rise and length
- Culvert or bridge type
- Streambed mix
- Streambed shape
- Streambed slope
- Other design features (LWM, coarse bands, barbs, pre-formed pools, etc.) identified in the design
- In addition, channel assessment protocols described in the Year 1 Evaluation will also be assessed at the Post Construction interval.

Year 1 Evaluation – Projects are visually assessed after the first winter to evaluate the impact of higher seasonal flows on fish passage at the structure. The following parameters are used to determine if the individual project continues to provide fish passage and stream function:

- Has the site experienced a bankfull event?
- Streambed material: Is there streambed material throughout the project? How does the material compare to the common condition?
- Measure freeboard at inlet and outlet: Is the streambed aggrading or scouring?
- Is there unusual subsurface flow compared to the common condition?
- Compare water depth throughout the project and compare to common condition.
- Thalweg: Does a low-flow channel exist through the entire length of the project? How does it compare to the common condition?
- Channel location: Is the channel flowing predominately along the edge of the structure? What percentage of channel is along the edge of the structure? Alternating sides?
- Channel width: How wide is the stream channel bed compared to the design channel and the common condition?
- Measure streambed slope upstream, throughout, and downstream of the project and compare project slope to common condition
- Other design features (LWM, coarse bands, barbs, pre-formed pools, etc.): Are these features functioning as intended?
- Hydraulic drops: Are there hydraulic drops and, if present, how to they compare to the original design, previous monitoring assessments, and natural channel?
- Photograph the major project elements
- Evaluate project for fish passage and stream function and note any risks to stream continuity

Long-Term Evaluations - Sites are evaluated 5 and 10 years after construction to determine whether the project still provides fish passage and stream function. Monitoring protocols described for the Year 1 Evaluation will be repeated to determine if the project still meets design expectations.



Additional Monitoring – Ad hoc evaluations can take place anytime between regular monitoring intervals at the discretion of the WSDOT biologist to reevaluate project performance based on responses recorded during a previous assessment.

### **Actions Resulting from the Monitoring Process**

Actions will be determined on a case-by-case basis and will involve one of the following solutions:

1. No Action Needed - The structure is providing fish passage and stream function. The responses to the monitoring standards are within the expected norms.
2. Increased Monitoring - The structure is providing fish passage and stream function. Some of the responses to the monitoring standards are outside the expected norms. This action is taken when stream function may naturally correct the substandard responses.
3. Repair - The structure is in danger of losing fish passage or stream function or has lost fish passage but can be restored by activities within the scope of maintenance work.
4. Modifications - The structure has lost fish passage and stream function but can be restored with a modification to the project site. Modifications are beyond maintenance as they change a portion of the original design elements. Any modification will be monitored to ensure that it functions as designed.
5. Add to newly identified barrier list and repair - The structure has lost fish passage and stream function and can only be repaired through complete replacement of the structure.

### **Documenting Results**

Results of the Fish Passage Monitoring are available in the annual *WSDOT Fish Passage Performance Report*. WSDOT staff can access the data through our internal Fish Passage database <http://webapps.wsdot.loc/Environmental/Biology/FishPassage/>. Parties external to WSDOT can access monitoring reports online via an interactive web map <https://wsdot.wa.gov/data/tools/geoportal/?config=fish-passage-barriers>. An annual summary of WSDOT's monitoring effort is presented at the Annual Washington State and Western Washington Treaty Tribes Fish Passage Barrier Repair Progress and Coordination Meeting.

Direct questions about Monitoring to:

Tammy Schmidt, WSDOT Fish Passage Monitoring and Performance Coordinator  
[Tammy.Schmidt@wsdot.wa.gov](mailto:Tammy.Schmidt@wsdot.wa.gov) 360.705.7475

Susan Kanzler, WSDOT Environmental Services / Stream Restoration Program Manager  
[Susan.Kanzler@wsdot.wa.gov](mailto:Susan.Kanzler@wsdot.wa.gov) 360.705.7250

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# Appendix IV

## Monitoring Results

## Appendix IV. Monitoring Results - 2022 Inspections

List sorted by WRIA, Road, and Milepost

WRIA	WSDOT Region	Site ID	Road	Milepost	Stream	Monitoring Type	Date	Injunction	Comments	Results
1	NW	994233	5	250.55	Padden Cr	Post-Construction	9/29/2022	yes		Passed
1	NW	990581	11	18.65	Hoag's Cr	Repair/Modify	11/15/2022	yes	Modification implemented	Increased Monitoring
1	NW	994386	11	21.08	Padden Cr	Over-Winter	2/28/2022	yes	Return to spot check channel this summer	Passed
1	NW	994386	11	21.08	Padden Cr	Increased Monitoring	8/29/2022	yes	Check subsurface flow/aggradation in culvert	Continue increased monitoring
1	NW	GR23	20	88.83	Lorenzan Cr	Over-Winter	5/11/2022	yes		Passed
1	NW	990187	542	32	Hedrick Cr	Ad hoc	8/29/2022	yes		Passed
1	NW	931144	546	0.17	Duffner Ditch	Post-Construction	9/21/2022	yes		Passed
1	NW	996161	546	0.42	Double Ditch	Post-Construction	9/21/2022	yes		Passed
1	NW	990510	546	0.46	Pepin	Post-Construction	9/21/2022	yes		Passed
1	NW	990223	546	4.21	Kamm Cr	Post-Construction	9/21/2022	yes		Passed
3	NW	03.0181 0.50	5	219.41	Fisher Cr	Year 5	5/11/2022	yes		Passed
3	NW	990641	9	40.08	Lake Cr	Post-Construction	10/19/2022	yes		Passed
3	NW	990091	9	41.04	Norway Park Cr	Post-Construction	10/19/2022	yes		Passed
3	NW	991106	9	70.6	Landingstrip Cr trib	Over-Winter	5/11/2022	yes		Increased Monitoring
3	NW	NC129	538	2.18	Logan Cr	Over-Winter	5/11/2022	yes		Passed
4	NW	GR9	20	87.7	Fish Cr	Over-Winter	5/10/2022	yes	Recheck water depth in US design channel this fall	Increased Monitoring
4	NW	GR9	20	87.7	Fish Cr	Increased Monitoring	10/19/2022	yes	Spot check water depth/channel shape US for returning adults	Proposed for Repair
4	NW	JK2	20	91.3	Skagit R trib	Post-Construction	10/19/2022	yes		Passed
5	NW	LP19	9	37.26	trib to Pilchuck Cr trib	Over-Winter	5/11/2022	yes		Passed
5	NW	991159	530	24.65	Trafton Cr	Increased Monitoring	6/1/2022	yes	Check modifications to vanes	Continue increased monitoring
5	NW	991159	530	24.65	Trafton Cr	Repair/Modify	9/28/2022	yes	Modification implemented	Increased Monitoring
5	NW	05.0018 2.00	532	6.14	Church Cr	Year 5	6/1/2022	yes		Passed
7	NW	990325	202	13.22	Patterson Cr	Repair/Modify	10/4/2022	yes	Realigned US reach away from HWY	Passed
7	NW	991059	531	8.71	Edgecomb Cr	Year 5	5/10/2022	yes		Passed
8	NW	996492	169	17.92	Cedar R trib	Over-Winter	5/18/2022	yes	Recheck channel shape at inlet in 2023	Increased Monitoring
8	NW	994119	520	5.81	Yarrow Cr trib	Increased Monitoring	6/7/2022	yes	Culvert C - observe if thalweg persists/channel meanders	Passed - resume schedule

## Appendix IV. Monitoring Results - 2022 Inspections

List sorted by WRIA, Road, and Milepost

WRIA	WSDOT Region	Site ID	Road	Milepost	Stream	Monitoring Type	Date	Injunction	Comments	Results
8	NW	994236	520	6.19	Yarrow Cr	Increased Monitoring	6/7/2022	yes	Culvert F - check for beaver activity	Passed - resume schedule
8	NW	996928	522	9.66	Horse Cr	Increased Monitoring	10/6/2022	yes	Recheck channel shape/water depth in culvert for spawners	Continue increased monitoring
8	NW	996928	522	9.66	Horse Cr	Year 5	3/8/2022	yes	Recheck channel shape/water depth for returning adults	Increased Monitoring
8	NW	994238	520 ramp	6.27	Yarrow Cr	Increased Monitoring	6/7/2022	yes	Culvert G - check for beaver activity	Passed - resume schedule
9	NW	997695	169	9.95	Ravensdale Cr	Post-Construction	9/20/2022	yes		Passed
10	NW	105 R042117a	164	8.24	Pussyfoot Cr	Over-Winter	5/18/2022	yes		Passed
14	OL	991246	106	13.5	Twano Falls Cr	Ad hoc	8/3/2022	yes	Requested by region to check bedload	Passed
14	OL	935445	101 ROW	346.83	Coffee Cr	Increased Monitoring	7/25/2022	yes	Low flow monitoring Year 2	Continue increased monitoring
15	OL	990286	302	11.3	Minter Cr	Over-Winter	5/19/2022	yes		Passed
15	OL	15.0051 0.10	302	11.44	Little Minter Cr	Post-Construction	9/27/2022	yes		Passed
15	OL	15.0051 0.20	302	11.5	Little Minter Cr	Post-Construction	9/27/2022	yes		Passed
15	OL	996795	3;access	40.99	Chico Cr trib	Post-Construction	10/13/2022	yes	Removed/abandoned	Passed
15	OL	996794	3;SB on	41.08	Chico Cr trib	Post-Construction	10/13/2022	yes		Passed
18	OL	990021	101	253.85	Bagley Cr	Over-Winter	4/27/2022	yes		Passed
18	OL	18.0173 2.40	101	256.1	Siebert Cr	Over-Winter	4/27/2022	yes		Passed
18	OL	934250	101	253.84 ROW	Bagley Cr trib	Over-Winter	4/27/2022	yes	Recheck hydraulic drop at US tie-in and channel shape in culvert in 2023	Increased Monitoring
19	OL	991660	112	52.9	Nordstrom Cr	Year 5	5/25/2022	yes		Passed
20	OL	990400	101	162.6	Steamboat Cr	Post-Construction	9/7/2022	yes		Passed
20	OL	991647	101	175.45	Hoh R trib	Increased Monitoring	9/7/2022	yes	Check subsurface flow during summer	Proposed for Modification
21	OL	990148	101	147.49	Fisher Cr	Increased Monitoring	via camera	yes	Monitor channel shape and potential subsurface flow	Continue increased monitoring
23	SW	991544	6	46.39	Chehalis R trib	Over-Winter	2/16/2022	yes		Passed
23	SW	991757	6	46.5	Chehalis R trib	Over-Winter	2/16/2022	yes		Passed

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# Appendix V

## Dedicated Funding Project Evaluations - Spawner Surveys

**Appendix IV. Dedicated Funding Project Evaluations - Spawner Surveys Since September 2022**

List sorted by WSDOT Region, Site ID, and Survey Date.

WSDOT Region	Site ID	Road	Milepost	Stream	Tributary to	WRIA	Project Year	Survey Date	Species	Survey Location	Survey Timing	Evaluation Status	Survey Length (miles)	Live Fish Count	Dead Fish Count	Total Fish Count	Redd Count
NW	931144	SR 546	0.17	Duffner Ditch	Bertrand Cr	1	2022	11/16/2022		Upstream	Post-Project	Complete	0.31	0	0	0	0
NW	931144	SR 546	0.17	Duffner Ditch	Bertrand Cr	1	2022	11/16/2022		Downstream	Post-Project	Complete	0.31	0	0	0	0
NW	931144	SR 546	0.17	Duffner Ditch	Bertrand Cr	1	2022	1/23/2023		Upstream	Post-Project	Complete	0.31	0	0	0	0
NW	931144	SR 546	0.17	Duffner Ditch	Bertrand Cr	1	2022	1/23/2023		Downstream	Post-Project	Complete	0.31	0	0	0	0
NW	990091	SR 9	41.04	Norway Park Cr	Lk McMurray	3	2022	11/29/2022		Upstream	Post-Project	Complete	0.31	0	0	0	0
NW	990091	SR 9	41.04	Norway Park Cr	Lk McMurray	3	2022	11/29/2022		Downstream	Post-Project	Complete	0.31	0	0	0	0
NW	990091	SR 9	41.04	Norway Park Cr	Lk McMurray	3	2022	2/1/2023		Upstream	Post-Project	Complete	0.31	0	0	0	0
NW	990091	SR 9	41.04	Norway Park Cr	Lk McMurray	3	2022	2/1/2023		Downstream	Post-Project	Complete	0.31	0	0	0	0
NW	990223	SR 546	4.21	Kamm Cr	Nooksack R	1	2022	11/15/2022	Coho	Upstream	Post-Project	Complete	0.31	2	0	2	0
NW	990223	SR 546	4.21	Kamm Cr	Nooksack R	1	2022	11/15/2022		Downstream	Post-Project	Complete	0.31	0	0	0	0
NW	990510	SR 546	0.46	Pepin Cr	Fishtrap Cr	1	2022	11/14/2022	Coho	Upstream	Post-Project	Complete	0.31	1	1	2	0
NW	990510	SR 546	0.46	Pepin Cr	Fishtrap Cr	1	2022	11/14/2022		Downstream	Post-Project	Complete	0.31	0	0	0	0
NW	990641	SR 9	40.08	Lake Cr	Lk McMurray	3	2022	11/29/2022		Upstream	Post-Project	Complete	0.31	0	0	0	0
NW	990641	SR 9	40.08	Lake Cr	Lk McMurray	3	2022	11/29/2022		Downstream	Post-Project	Complete	0.31	0	0	0	0
NW	991106	SR 9	70.6	unnamed	Landingstrip Cr	3	2021	11/30/2022		Upstream	Post-Project	Complete	0.31	0	0	0	0
NW	991106	SR 9	70.6	unnamed	Landingstrip Cr	3	2021	11/30/2022		Downstream	Post-Project	Complete	0.31	0	0	0	0
NW	991106	SR 9	70.6	unnamed	Landingstrip Cr	3	2021	1/25/2023		Upstream	Post-Project	Complete	0.31	0	0	0	0
NW	991106	SR 9	70.6	unnamed	Landingstrip Cr	3	2021	1/25/2023		Downstream	Post-Project	Complete	0.31	0	0	0	0
NW	994233	I-5	250.55	Padden Cr	Bellingham Bay	1	2022	11/30/2022		Upstream	Post-Project	Complete	0.31	0	0	0	0
NW	994233	I-5	250.55	Padden Cr	Bellingham Bay	1	2022	11/30/2022		Downstream	Post-Project	Complete	0.31	0	0	0	0
NW	994233	I-5	250.55	Padden Cr	Bellingham Bay	1	2022	1/25/2023		Upstream	Post-Project	Complete	0.31	0	0	0	0
NW	994233	I-5	250.55	Padden Cr	Bellingham Bay	1	2022	1/25/2023		Downstream	Post-Project	Complete	0.31	0	0	0	0
NW	996161	SR 546	0.42	Double Ditch Cr	Fishtrap Cr	1	2022	11/14/2022	Coho	Upstream	Post-Project	Complete	0.31	1	0	1	0
NW	996161	SR 546	0.42	Double Ditch Cr	Fishtrap Cr	1	2022	11/14/2022		Downstream	Post-Project	Complete	0.31	0	0	0	0
NW	997695	SR 169	9.95	Ravensdale Cr	Lake Sawyer	9	2022	11/9/2022		Upstream	Post-Project	Complete	0.31	0	0	0	0
NW	997695	SR 169	9.95	Ravensdale Cr	Lake Sawyer	9	2022	11/9/2022		Downstream	Post-Project	Complete	0.31	0	0	0	0
NW	997695	SR 169	9.95	Ravensdale Cr	Lake Sawyer	9	2022	12/13/2022		Upstream	Post-Project	Complete	0.31	0	0	0	0
NW	997695	SR 169	9.95	Ravensdale Cr	Lake Sawyer	9	2022	12/13/2022		Downstream	Post-Project	Complete	0.31	0	0	0	0
NW	105 R042117a	SR 164	8.24	Pussyfoot Cr	White R	10	2021	11/28/2022		Upstream	Post-Project	Complete	0.31	0	0	0	0
NW	105 R042117a	SR 164	8.24	Pussyfoot Cr	White R	10	2021	11/28/2022		Downstream	Post-Project	Complete	0.31	0	0	0	0
NW	105 R042117a	SR 164	8.24	Pussyfoot Cr	White R	10	2021	12/13/2022		Upstream	Post-Project	Complete	0.31	0	0	0	0
NW	105 R042117a	SR 164	8.24	Pussyfoot Cr	White R	10	2021	12/13/2022		Downstream	Post-Project	Complete	0.31	0	0	0	0
NW	GR23	SR 20	88.83	Lorenzan Cr	Skagit R	4	2021	11/16/2022		Upstream	Post-Project	Complete	0.31	0	0	0	0
NW	GR23	SR 20	88.83	Lorenzan Cr	Skagit R	4	2021	11/16/2022		Downstream	Post-Project	Complete	0.31	0	0	0	0
NW	GR23	SR 20	88.83	Lorenzan Cr	Skagit R	4	2021	12/6/2022		Upstream	Post-Project	Complete	0.31	0	0	0	0
NW	GR23	SR 20	88.83	Lorenzan Cr	Skagit R	4	2021	12/6/2022		Downstream	Post-Project	Complete	0.31	0	0	0	0
NW	JK2	SR 20	91.3	unnamed	Skagit R	4	2022	11/30/2022		Upstream	Post-Project	Complete	0.31	0	0	0	0
NW	JK2	SR 20	91.3	unnamed	Skagit R	4	2022	11/30/2022		Downstream	Post-Project	Complete	0.31	0	0	0	0
NW	JK2	SR 20	91.3	unnamed	Skagit R	4	2022	12/7/2022		Upstream	Post-Project	Complete	0.31	0	0	0	0

**Appendix IV. Dedicated Funding Project Evaluations - Spawner Surveys Since September 2022**

List sorted by WSDOT Region, Site ID, and Survey Date.

WSDOT Region	Site ID	Road	Milepost	Stream	Tributary to	WRIA	Project Year	Survey Date	Species	Survey Location	Survey Timing	Evaluation Status	Survey Length (miles)	Live Fish Count	Dead Fish Count	Total Fish Count	Redd Count
NW	JK2	SR 20	91.3	unnamed	Skagit R	4	2022	12/7/2022		Downstream	Post-Project	Complete	0.31	0	0	0	0
OL	990021	US 101	253.85	Bagley Cr	Strait of Juan de Fuca	18	2021	11/15/2022		Upstream	Post-Project	Complete	0.31	0	0	0	0
OL	990021	US 101	253.85	Bagley Cr	Strait of Juan de Fuca	18	2021	11/15/2022		Downstream	Post-Project	Complete	0.31	0	0	0	0
OL	990021	US 101	253.85	Bagley Cr	Strait of Juan de Fuca	18	2021	12/6/2022		Upstream	Post-Project	Complete	0.31	0	0	0	0
OL	990021	US 101	253.85	Bagley Cr	Strait of Juan de Fuca	18	2021	12/6/2022		Downstream	Post-Project	Complete	0.31	0	0	0	0
OL	990400	US 101	162.6	Steamboat Cr	Pacific Ocean	20	2022	10/19/2022		Upstream	Post-Project	Complete	0.31	0	0	0	0
OL	990400	US 101	162.6	Steamboat Cr	Pacific Ocean	20	2022	10/19/2022		Downstream	Post-Project	Complete	0.31	0	0	0	0
OL	990400	US 101	162.6	Steamboat Cr	Pacific Ocean	20	2022	11/17/2022	Coho	Upstream	Post-Project	Complete	0.31	2	0	2	1
OL	990400	US 101	162.6	Steamboat Cr	Pacific Ocean	20	2022	11/17/2022		Downstream	Post-Project	Complete	0.31	0	0	0	0
OL	15.0051 0.10	SR 302	11.44	Little Minter Cr	Minter Cr	15	2022	12/12/2022	Chum	Upstream	Post-Project	Complete	0.31	43	11	54	8
OL	15.0051 0.10	SR 302	11.44	Little Minter Cr	Minter Cr	15	2022	12/12/2022		Downstream	Post-Project	Complete	0.31	0	0	0	0
OL	15.0051 0.20	SR 302	11.5	Little Minter Cr	Minter Cr	15	2022	12/12/2022	Chum	Upstream	Post-Project	Complete	0.31	8	2	10	1
OL	15.0051 0.20	SR 302	11.5	Little Minter Cr	Minter Cr	15	2022	12/12/2022		Downstream	Post-Project	Complete	0.31	0	0	0	0
SW	991544	SR 6	46.39	unnamed	Chehalis R	23	2021	12/15/2022		Upstream	Post-Project	Complete	0.31	0	0	0	0
SW	991544	SR 6	46.39	unnamed	Chehalis R	23	2021	12/15/2022		Downstream	Post-Project	Complete	0.31	0	0	0	0
SW	991544	SR 6	46.39	unnamed	Chehalis R	23	2021	1/31/2023		Upstream	Post-Project	Complete	0.31	0	0	0	0
SW	991544	SR 6	46.39	unnamed	Chehalis R	23	2021	1/31/2023		Downstream	Post-Project	Complete	0.31	0	0	0	0
SW	991757	SR 6	46.5	unnamed	Chehalis R	23	2021	12/15/2022		Upstream	Post-Project	Complete	0.31	0	0	0	0
SW	991757	SR 6	46.5	unnamed	Chehalis R	23	2021	12/15/2022		Downstream	Post-Project	Complete	0.31	0	0	0	0
SW	991757	SR 6	46.5	unnamed	Chehalis R	23	2021	1/31/2023		Upstream	Post-Project	Complete	0.31	0	0	0	0
SW	991757	SR 6	46.5	unnamed	Chehalis R	23	2021	1/31/2023		Downstream	Post-Project	Complete	0.31	0	0	0	0

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# Appendix VI

## WSDOT Fishway Inspections



## Appendix VIA. Northwest Region Spring 2023 WSDOT Fishway Inspections

List sorted by Road and Milepost location.

Region	Site ID	Road	Milepost	Stream Name	Inspector	Inspection Date	Fishway Condition	Maintenance Required
Northwest	08.0268 0.80	I-405	10.12	Coal Cr	Fleming	5/16/2023	OK	None
Northwest	990376	I-405	19.12	Forbes Cr	Fleming	5/16/2023	MNR	None
Northwest	08.0059 7.00	I-405	29.75	Swamp Cr	Fleming	4/27/2023	OK	None
Northwest	993090	I-5	182.73	Swamp Cr	Fleming	4/27/2023	OK	None
Northwest	08.0070 10.60	I-5	187.05	North Cr	Fleming	4/27/2023	MN	Check weirs at DS end. 1st weir has water flowing under weir undermining concrete.
Northwest	990308	I-5	187.12	North Cr	Fleming	4/27/2023	MN	Culvert is almost completely jammed by woody debris and trash. Needs major cleaning.
Northwest	990622	I-5	211.5	Secret Cr	Fleming	4/25/2023	MNR	None
Northwest	05.0021 4.10	I-5	216.73	WF Church Cr	Fleming	4/25/2023	MN	Additional large woody debris needs to be removed from the outlet.
Northwest	03.0016 0.40	I-5	238.4	Bow Hill Cr	Fleming	4/25/2023	OK	None
Northwest	08.0049 3.00	I-5; NB off-ramp	177.67	McAleeer Cr	Fleming	4/27/2023	OK	None
Northwest	08.0183 1.00	I-90	17	EF Issaquah Cr	Fleming	4/24/2023	OK	None
Northwest	08.0183 1.90	I-90	19.02	EF Issaquah Cr	Fleming	4/24/2023	OK	None
Northwest	08.0183 3.00	I-90	20.22	EF Issaquah Cr	Fleming	4/24/2023	OK	None
Northwest	996965	I-90	20.42	unnamed	Fleming	4/24/2023	MNR	None
Northwest	08.0183 5.00	I-90	22.37	EF Issaquah Cr	Fleming	4/24/2023	MNR	None
Northwest	08.0191 0.30	I-90; ROW	21.23	unnamed	Fleming	4/24/2023	OK	None
Northwest	990272	SR 104	29.65	McAleeer Cr	Fleming	4/27/2023	OK	None
Northwest	01.0626 0.35	SR 11	18.6	Chuckanut Cr	Fleming	4/26/2023	OK	None
Northwest	08.0302 0.00	SR 169	23.62	Maplewood Cr	Fleming	4/24/2023	OK	None
Northwest	08.0320 1.30	SR 18	16.94	Downs Cr	Fleming	4/24/2023	OK	None
Northwest	995977	SR 20	25.77	unnamed	Fleming	4/26/2023	OK	None
Northwest	03.0354A 0.04	SR 20	77.7	Little Careys Cr	Fleming	4/26/2023	OK	None
Northwest	990065	SR 20	77.82	unnamed	Fleming	4/26/2023	OK	None
Northwest	08.0110 0.10	SR 202	11.05	Rutherford Cr	Fleming	4/25/2023	OK	None
Northwest	990142	SR 202	11.96	Evans Cr	Fleming	4/25/2023	MNR	None
Northwest	07.0383A 0.50	SR 202	13.8	Dry Cr	Fleming	4/25/2023	OK	None
Northwest	990262	SR 522	1.87	Maple Leaf Cr	Fleming	4/27/2023	OK	None

## Appendix VIA. Northwest Region Spring 2023 WSDOT Fishway Inspections

List sorted by Road and Milepost location.

Region	Site ID	Road	Milepost	Stream Name	Inspector	Inspection Date	Fishway Condition	Maintenance Required
Northwest	08.0080 0.90	SR 522	12.66	Little Bear Cr	Fleming	4/25/2023	OK	None
Northwest	08.0080 1.10	SR 522	12.92	Little Bear Cr	Fleming	4/27/2023	OK	None
Northwest	08.0070A 0.01	SR 527	4	Sulphur Springs Cr	Fleming	4/27/2023	OK	None
Northwest	08.0075 0.70	SR 527	4.46	Silver Cr No2	Fleming	4/27/2023	OK	None
Northwest	08.0075 0.75	SR 527	4.48	Silver Cr No 3	Fleming	4/27/2023	OK	None
Northwest	08.0070B 0.30	SR 527	6.32	Nickel Cr	Fleming	4/27/2023	OK	None
Northwest	08.0075 0.20	SR 527; ROW	4.06	Silver Cr No 1	Fleming	4/27/2023	OK	None
Northwest	991155	SR 530	54.6	Lyle Cr	Fleming	4/26/2023	OK	None
Northwest	990188	SR 530	64.09	Hilt Cr	Fleming	4/26/2023	OK	None
Northwest	991741	SR 534	1.2	unnamed	Fleming	4/25/2023	MN	Remove additional large wood from the culvert.
Northwest	990014	SR 542	3.45	Squalicum Cr	Fleming	4/25/2023	MNR	None
Northwest	990316	SR 9	1.16	Cutthroat Cr	Fleming	4/24/2023	OK	None
Northwest	990433	SR 900	19.5	Tibbetts Cr	Fleming	4/24/2023	MNR	None
Northwest	07.0148 1.30	SR 92	1.93	Catherine Cr	Fleming	4/26/2023	OK	None
Northwest	07.0096 0.30	US 2	3.6	Mosier Cr	Fleming	4/26/2023	OK	None

### Fishway Condition:

**MN** requires minor maintenance

**MNR** requires replacement

**OK** fishway remains durable and fish passable

## Appendix VIB. Olympic Region Spring 2023 WSDOT Fishway Inspections

List sorted by Road and Milepost location.

Region	Site ID	Road	Milepost	Stream Name	Inspector	Inspection Date	Fishway Condition	Maintenance Required
Olympic	991484	SR 107	6	unnamed	Fleming	4/17/2023	OK	None
Olympic	990278	SR 108	8.89	McDonald Cr	Fleming	4/7/2023	MNR	None
Olympic	990323	SR 3	33.7	Parish Cr	Fleming	4/11/2023	OK	None
Olympic	15.0229 0.10	SR 3	40.96	Chico Cr	Fleming	4/11/2023	MNR	None
Olympic	15.0250 0.55	SR 3	46.24	WF Clear Cr	Fleming	4/11/2023	OK	None
Olympic	996803	SR 3	47.72	unnamed	Fleming	4/11/2023	MNR	None
Olympic	990224	SR 3	57.1	Kinman Cr	Fleming	4/11/2023	OK	None
Olympic	991636	SR 706	8.02	unnamed	Fleming	4/24/2023	MNFP	None
Olympic	991227	SR 706	9.81	unnamed	Fleming	4/24/2023	MNFP	None
Olympic	991501	US 101	103.65	unnamed	Fleming	4/10/2023	MNR	None
Olympic	991581	US 101	104.92	unnamed	Fleming	4/10/2023	MNR	Large woody debris at inlet should be removed.
Olympic	990143	US 101	105.63	Fairchild Cr	Fleming	4/10/2023	OK	None
Olympic	991263	US 101	162.15	Big Cedar Cr	Fleming	4/10/2023	OK	None
Olympic	161180	US 101	167.44	Fletcher Cr	Fleming	4/10/2023	OK	None
Olympic	990197	US 101	171.7	Huelsdonk Cr	Fleming	4/10/2023	OK	None
Olympic	990169	US 101	189.4	Grader Cr	Fleming	4/10/2023	MNR	None
Olympic	990448	US 101	246.4	Tumwater Cr	Fleming	4/11/2023	MNR	None
Olympic	990466	US 101	246.9	Valley Cr	Fleming	4/11/2023	OK	None
Olympic	18.0234 1.10	US 101	250	Ennis Cr	Fleming	4/11/2023	MNR	None
Olympic	14.0021 0.21	US 101	353.6	Little Skookum Cr	Fleming	4/7/2023	OK	None
Olympic	14.0010 0.10	US 101	356.8	Countyline Cr	Fleming	4/7/2023	MNR	None
Olympic	14.0009A 0.06	US 101	357.9	Holiday Valley Cr	Fleming	4/7/2023	OK	None
Olympic	933191	US 101; ROW	260.93	Matriotti Cr	Fleming	4/7/2023	MNR	None
Olympic	22.0346 1.10	US 12	11.73	unnamed	Fleming	5/7/2023	OK	None
Olympic	22.0350 0.30	US 12	12.1	unnamed	Fleming	5/7/2023	OK	None
Olympic	22.0349 0.70	US 12	12.36	Camp Cr	Fleming	5/7/2023	MNR	None
Olympic	991532	US 12	13.84	Metcalf Sl	Fleming	4/7/2023	OK	None

### Fishway Condition:

**MNR** requires replacement

**MNFP** requires minor maintenance for fish passage

**OK** fishway remains durable and fish passable

## Appendix VIC.Southwest Region Spring 2023 WSDOT Fishway Inspections

List sorted by Road and Milepost location.

Region	Site ID	Road	Milepost	Stream Name	Inspector	Inspection Date	Fishway Condition	Maintenance Required
Southwest	994286	I-5	74.05	Berwick Cr	Fleming	4/20/2023	MNR	None
Southwest	994301	I-5	81.77	China Cr	Fleming	4/20/2023	OK	None
Southwest	992268	SR 14	20.92	Lawton Cr	Fleming	4/20/2023	OK	None
Southwest	992223	SR 142	13.4	Snyder Canyon Cr	Fleming	4/20/2023	OK	None
Southwest	990035	SR 4	35.6	Birnie Cr	Fleming	4/17/2023	OK	None
Southwest	990071	SR 401	8.8	Cement Cr	Fleming	4/17/2023	MNR	None
Southwest	990036	SR 409	3.85	Birnie Cr	Fleming	4/17/2023	OK	None
Southwest	27.0327 0.50	SR 503	46.84	Johnson Cr	Fleming	4/17/2023	OK	None
Southwest	991440	SR 503	49.03	Kenyon Cr	Fleming	4/17/2023	OK	None
Southwest	27.0300 0.00	SR 503	52.1	Robinson Cr	Fleming	4/17/2023	OK	None
Southwest	26.0314 A 0.10	SR 504	12.7	Spirit Lake Hwy Marsh	Fleming	4/20/2023	OK	None
Southwest	990171	SR 6	8.9	Green Cr	Fleming	4/20/2023	OK	None
Southwest	990363	US 101	29.8	SF Nemah R	Fleming	4/17/2023	OK	None
Southwest	992311	US 101	53.56	Old Mill Pond Cr	Fleming	4/17/2023	OK	None

### Fishway Condition:

**MNR** requires replacement

**OK** fishway remains durable and fish passable

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