
WSDOT FISH PASSAGE PERFORMANCE REPORT

JUNE 30, 2020





Environmental Services Office
Biology Branch
Stream Restoration Program

WSDOT FISH PASSAGE PERFORMANCE REPORT

June 30, 2020

Cover photos, clockwise from the upper left-hand corner: State Route (SR) 129 Buford Creek 2019 construction from the Nez Perce Tribe; SR 129 Buford Creek post-construction; SR 6 Salmon Creek constructed 2019; site visit to an unnamed tributary to Sequim Bay.

This report is also available in a pdf format at <https://www.wsdot.wa.gov/Projects/FishPassage/>.

Additional data can be obtained by contacting Washington State Department of Transportation's Environmental Services Office, Kathy Prosser, e-mail kathy.prosser@wsdot.wa.gov, phone: (360) 705-7478.

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Table of Contents

Executive Summary	IX
Introduction	1
Background on WSDOT Fish Passage Program.....	1
2019 Fish Passage Projects Completed	3
Unnamed Tributaries to Tawes Creek.....	5
Tawes Creek, Tributary to South Fork Nooksack River.....	6
Schoolyard Creek, Tributary to North Fork Stillaguamish River.....	7
Salmon Creek, Tributary to Rock Creek.....	8
Fronia Creek and South Branch Fronia Creek, Tributaries to Chehalis River.....	9
Buford Creek, Tributary to Grande Ronde River.....	10
2020 Fish Passage Projects Planned	18
Project Planning	20
WSDOT Barrier Corrections and Planning Strategy.....	20
Fish Passage Barrier Inventory	21
Fish Passage Inventory Updates.....	21
U.S. v. WA List of WSDOT Case Area Barrier Culverts.....	22
Monitoring	23
Monitoring Plan.....	23
Actions Resulting from Monitoring.....	23
Monitoring Results.....	23
Post-Project Evaluation for Fish Presence.....	25
Fishway Inspections and Maintenance.....	26

List of Tables

Table 1. Fish Passage Projects Completed in 2019.....	4
Table 2. WSDOT Fish Passage Barrier Corrections Completed	11
Table 3. Fish Passage Projects Planned for Completion in 2020.....	19
Table 4. Fish Passage Barriers Statewide.....	21

List of Figures

Figure 1. WSDOT fish passage barriers.....	2
Figure 2. WSDOT fish passage barrier corrections since 1955.....	2
Figure 3. WSDOT fish passage project construction during 2019.....	3
Figure 4. Unnamed tributaries to Tawes Creek pre-construction photos.....	5
Figure 5. Unnamed tributaries to Tawes Creek post-construction photos.....	5
Figure 6. Tawes Creek pre-construction photo.....	6
Figure 7. Tawes Creek post-construction photo.....	6
Figure 8. Schoolyard Creek pre-construction photo.....	7
Figure 9. Schoolyard Creek post-construction photo.....	7
Figure 10. Salmon Creek pre-construction photo.....	8
Figure 11. Salmon Creek post-construction photo.....	8
Figure 12. Fronia Creek and South Branch Fronia Creek pre-construction photos.....	9
Figure 13. Fronia Creek post-construction photo.....	9
Figure 14. Buford Creek pre-construction photo.....	10
Figure 15. Buford Creek post-construction photo.....	10
Figure 16. WSDOT fish passage projects scheduled for completion in 2020.....	18
Figure 17. Examples of WSDOT fishways.....	26

List of Appendices

Appendix I	WSDOT Culvert Barriers Relevant to the Injunction.....	28
Appendix II	Updates to the WSDOT Injunction Barrier List.....	60
Appendix III	Dedicated Funding Project Evaluations - Spawner Surveys.....	70
Appendix IV	Monitoring Results.....	74

Executive Summary

State highways cross streams and rivers in thousands of places in Washington State, which can impede fish migration. Since 1991, the Washington State Department of Transportation (WSDOT) has worked to improve fish passage and reconnect streams to help keep our waterways healthy. This report summarizes WSDOT's progress in identifying and correcting fish passage barriers and related activities completed in the past year.

Statewide there are 3,931 highway crossings on fish bearing waters. Of those, 2,057 are documented fish passage barriers, including 2,027 culverts. Of these, 1,526 block a significant amount of upstream habitat (> 200 meters).

To date, WSDOT has completed 352 fish passage barrier corrections statewide, allowing access to approximately 1,170 miles (1,884 kilometers) of potential upstream habitat for fish. Eight fish passage barriers were corrected in 2019, opening up 20.45 miles (32.92 kilometers) of potential upstream habitat. Seven of the eight barriers corrected are 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 3, 2020, WSDOT has corrected 73 injunction barrier culverts and opened 329 miles (529 kilometers) of blocked salmon and steelhead habitat.

WSDOT plans to correct 14 fish passage barriers in 2020, including 13 subject to the injunction. These projects will open up approximately 54.3 miles (87.4 kilometers) of potential fish habitat.

Construction began in 2020 on four additional fish passage projects that will be completed in 2021, opening an additional 40 miles (64 kilometers) of habitat.

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 has the ability to identify high priority barriers and correct them with dedicated fish passage funds while continuing to correct barriers during planned transportation projects.

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 1).

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, spawner survey results, and monitoring results.



To date, WSDOT has completed 352 fish passage barrier corrections in Washington streams. As a result of this effort, access has been restored to an estimated 1,170 miles* (1,884 kilometers) of potential upstream habitat, assuming no other human-made obstacles exist in a given watershed where the project was completed.

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

Figure 1. WSDOT fish passage barriers

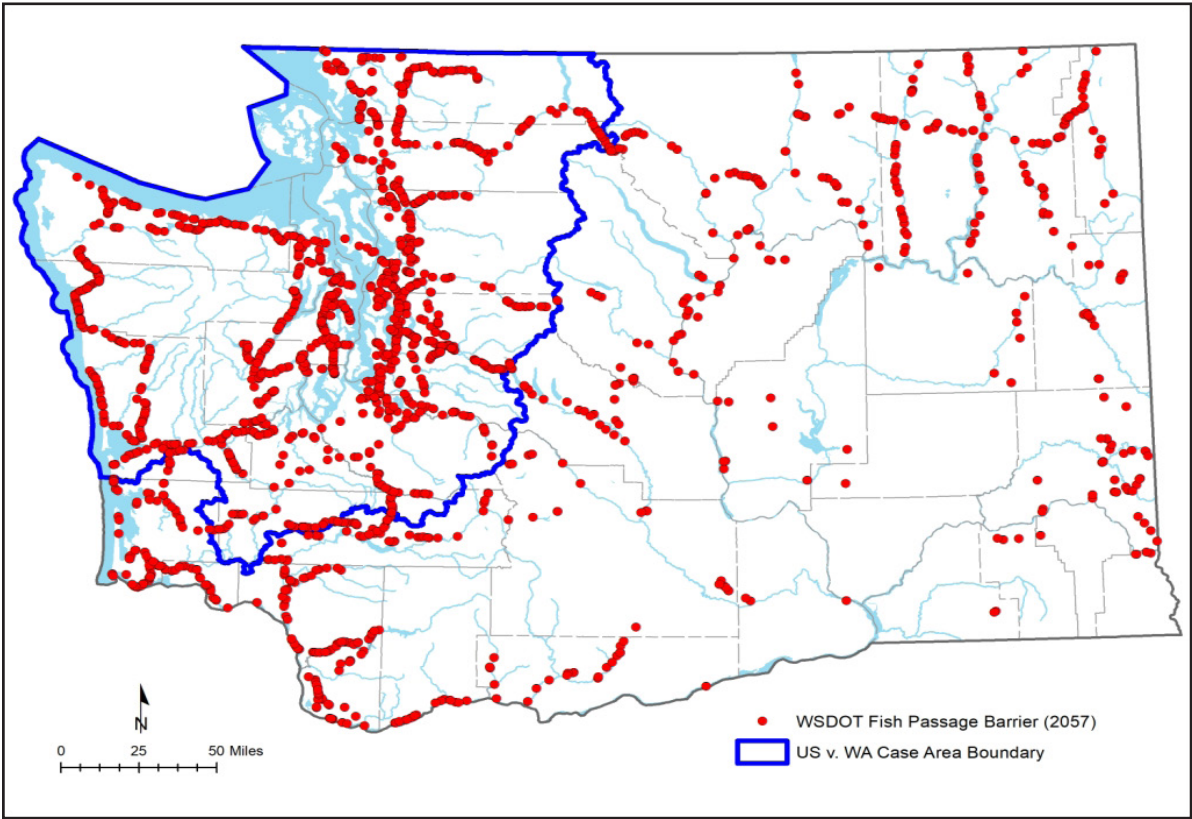
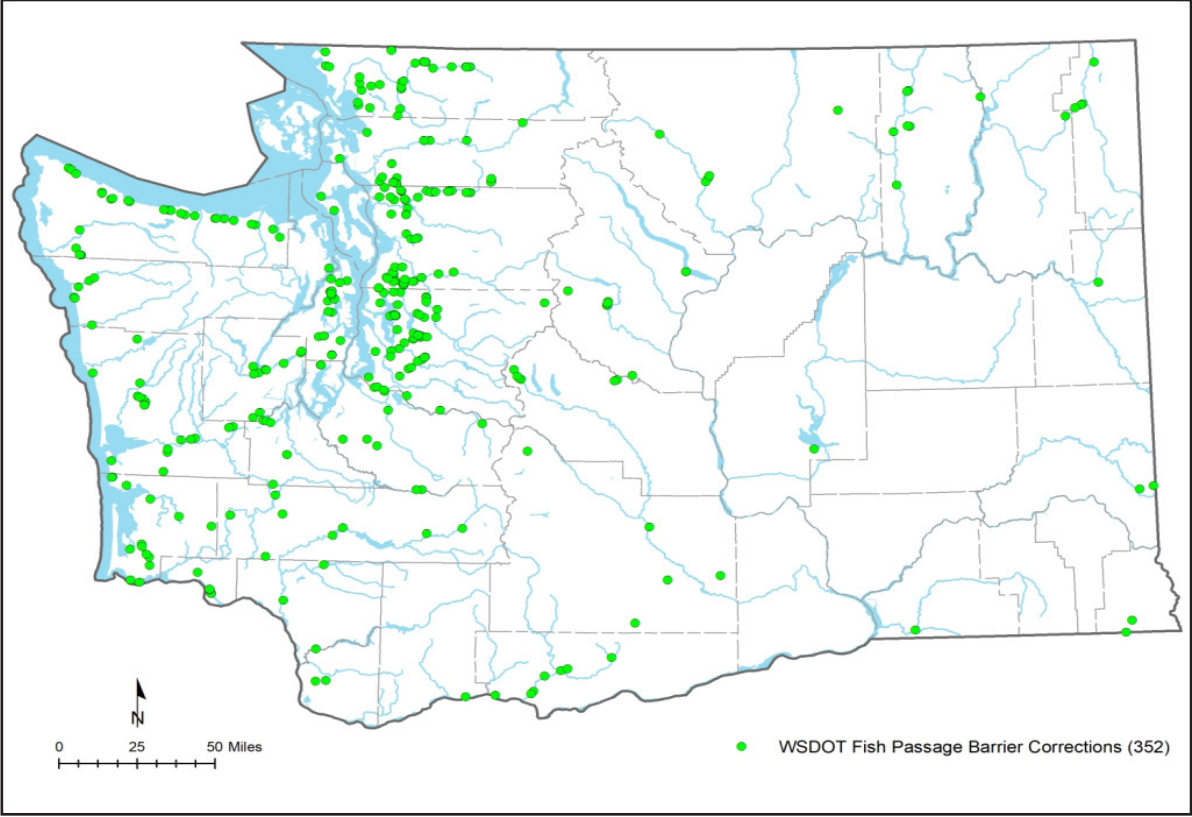


Figure 2. WSDOT fish passage barrier corrections since 1955



2019 Fish Passage Projects Completed

WSDOT corrected eight fish passage barriers in 2019 (Figure 3, Table 1), opening up an estimated 20.45 miles (32.92 kilometers) of potential upstream habitat. One project corrected a previous correction, a failed fishway constructed in 1999 that had reverted to a barrier.

Seven of the eight projects corrected injunction barriers. These seven projects were funded by the WSDOT improvement subprogram I4. The eighth project, Buford Creek in Asotin County, was corrected in partnership with the Nez Perce Tribe, with grant funding from the Salmon Recovery Funding

Board and the Brian Abbott Fish Barrier Removal Board. Table 2 shows a list of fish passage barrier corrections completed since 1955. Figure 2 is a map of these sites.

Figure 3. WSDOT fish passage project construction during 2019

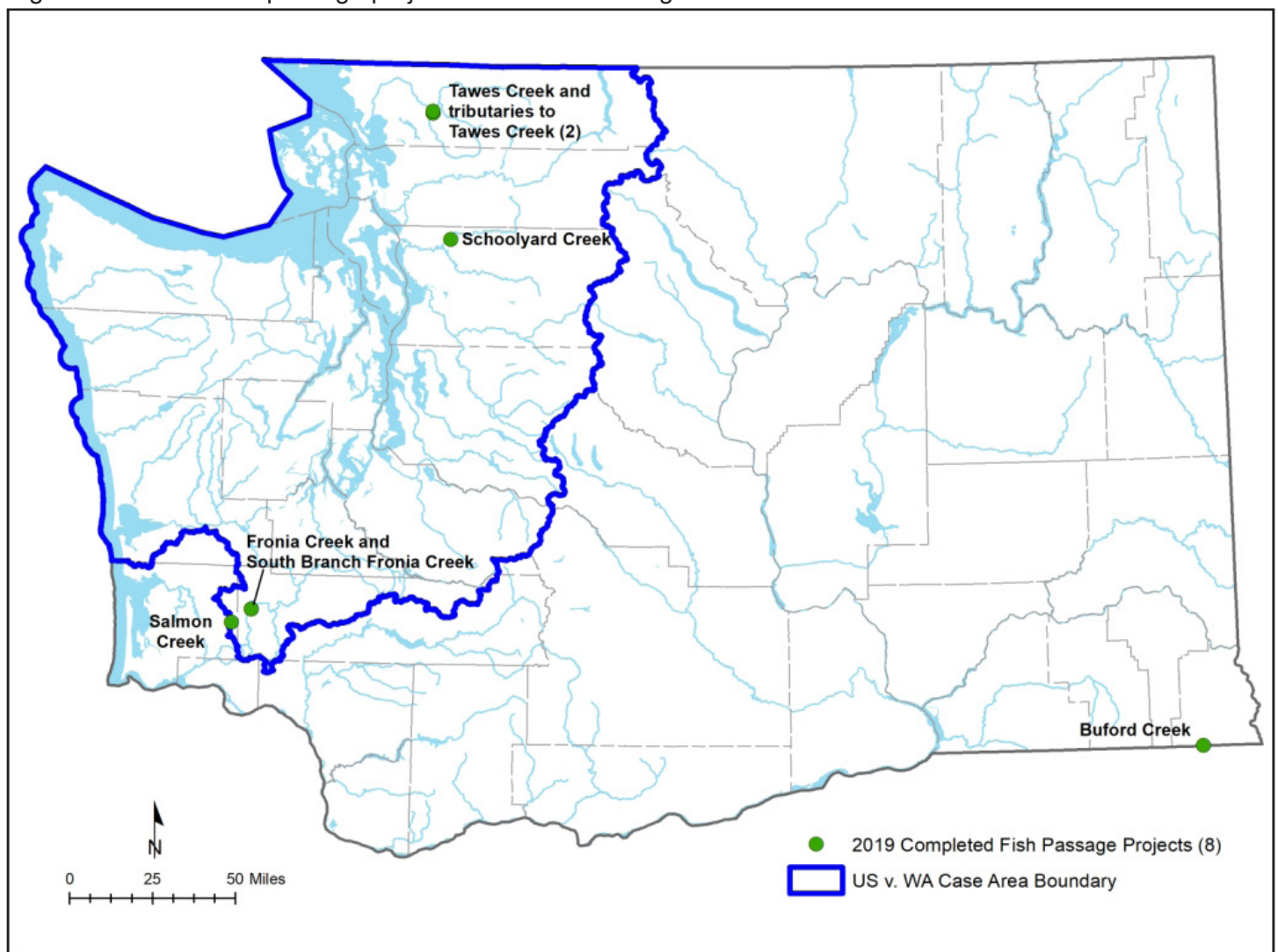


Table 1. Fish Passage Projects Completed in 2019. The eight projects listed below corrected seven barriers applicable to the Federal Court Injunction.

Site ID	Injunction Culvert	WSDOT Region	Road	MP	Stream	WRIA	Lineal Gain ¹ (mi)	Incremental Gain ¹ (mi)	Funding
992349	Yes	NW	SR 9	77.36	Tributary to Tawes Creek	1	0.59	0.59	I4
992350	Yes	NW	SR 9	77.43	Tributary to Tawes Creek	1	3.14	3.14	I4
992356	Yes	NW	SR 9	77.94	Tawes Creek	1	2.19	2.19	I4
991160 ³	Yes	NW	SR 530	25.94	Schoolyard Creek	5	3.53	3.53	I4
990735	Yes	SW	SR 6	22.64	Salmon Creek	23	3.56	3.56	I4
990744	Yes	SW	SR 6	31.06	South Branch Fronia Creek	23	3.48	3.48	I4
990746	Yes	SW	SR 6	31.08	Fronia Creek	23	3.48	0.00 ²	I4
990048	No	SC	SR 129	0.90	Buford Creek	35	3.96	3.96	G

Total 23.93 20.45 mi

¹ 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.

² Site with WSDOT barrier(s) upstream.

³ Previously corrected site.

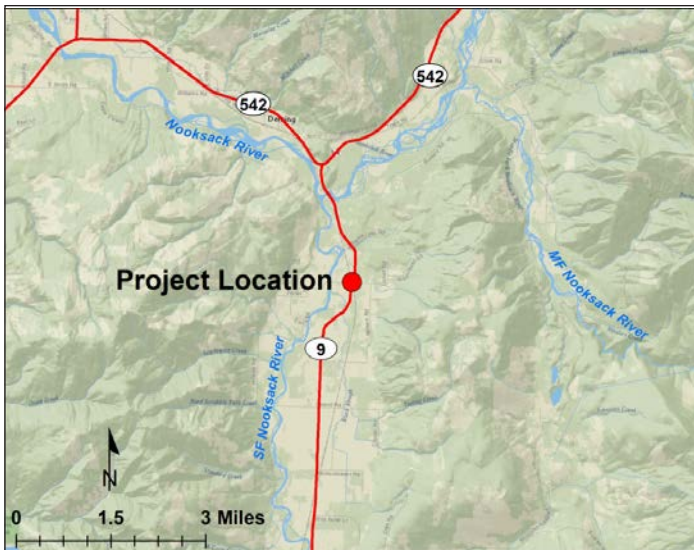
Funding Codes:

I4 = Improvement

G = Grants

Unnamed Tributaries to Tawes Creek

Fish Passage Improvement with I4 Funding



These two unnamed tributaries to Tawes Creek cross State Route (SR) 9 at mileposts 77.36 and 77.43 in the unincorporated community of Van Zandt in Whatcom County. The undersized culverts blocked passage of coho, steelhead, searun cutthroat trout, and resident trout.

After Construction



Before Construction



Figure 4. The old crossing on the south tributary (top) was a 4 ft (1.2 m) diameter concrete culvert that was a low flow depth barrier to fish passage. The old crossing on the north tributary (bottom) was a 2.3 ft (0.7 m) diameter concrete culvert that was both a low flow depth barrier and high flow velocity barrier.



Figure 5. The new crossings were installed as part of a project that included correcting three barriers on SR 9, including mainstem Tawes Creek. Both of the new structures are 12 ft (3.7 m) wide by 9 ft (2.7 m) high concrete box culverts, restoring upstream access for coho, steelhead, searun cutthroat trout, and resident trout. The north tributary project (bottom) also included extensive large wood placement in the channel downstream of the new culvert to add bank stability and enhance fish habitat complexity. During the south tributary project, an underground storage tank associated with an old gas station was encountered and removed along with the surrounding soil, ensuring petroleum contamination did not infiltrate fish-bearing waters.

Tawes Creek, Tributary to South Fork Nooksack River

Fish Passage Improvement with I4 Funding

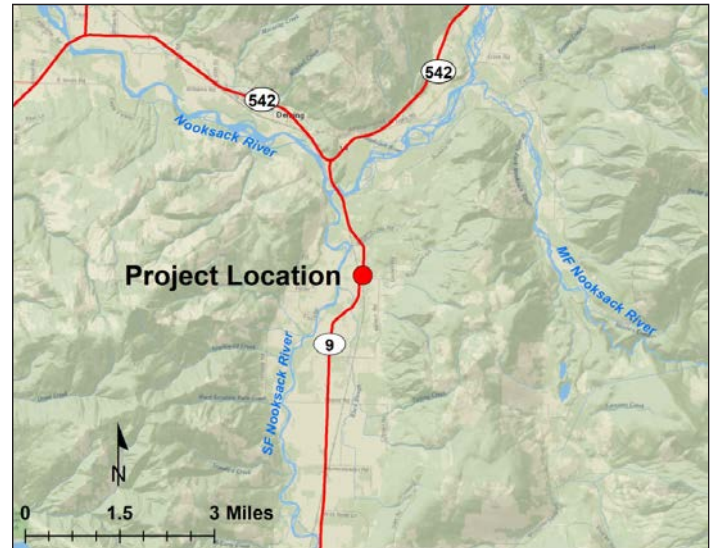
Tawes Creek crosses SR 9 at milepost 77.94 just north of the community of Van Zandt and drains into the South Fork Nooksack River.



Before Construction



Figure 6. The old crossing was a 3 ft (0.9 m) diameter concrete culvert that was a high flow velocity and low flow depth barrier to fish passage.



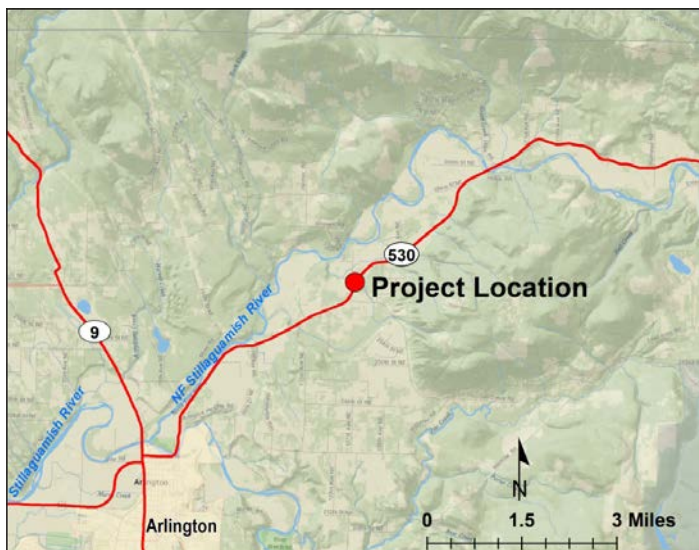
After Construction



Figure 7. The new crossing is a 21.3 ft (6.5 m) wide by 6 ft (1.8 m) high concrete box culvert that allows for unimpeded passage for sockeye, chum, coho, steelhead, searun cutthroat trout, and resident trout. A spawning adult coho was observed moving upstream of the new culvert on the day of the post-construction inspection.

Schoolyard Creek, Tributary to North Fork Stillaguamish River

Fish Passage Improvement with I4 Funding



Schoolyard Creek crosses SR 530 at milepost 25.94 near the unincorporated community of Trafton in rural Snohomish County. This project replaces the 1999 fishway retrofit for the existing barrier culvert.

After Construction



Figure 9. The new crossing is a 20 ft (6.1 m) wide by 10 ft (3.0 m) high concrete box culvert. Large wood was installed upstream and downstream as part of the project. Additional channel features designed to add fish habitat and channel complexity within the new structure were also included. This project benefits chum, coho, steelhead, searun cutthroat trout, and resident trout by restoring access to over 3.5 mi (5.7 km) of habitat upstream.

Before Construction

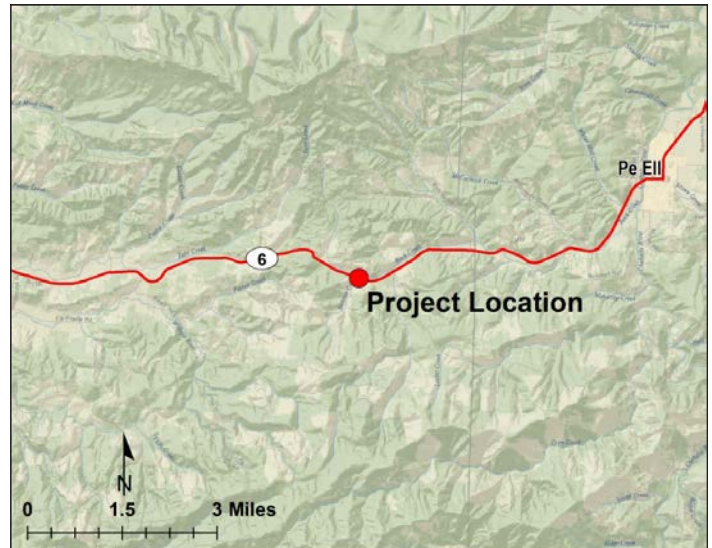
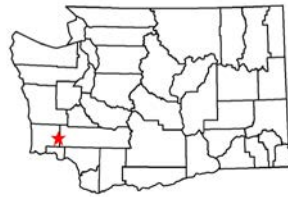


Figure 8. The old crossing was a 6.2 ft (1.9 m) diameter smooth steel culvert retrofitted with baffles and log bed controls downstream to aid in fish passage. All of the baffles and several of the log bed controls eventually filled with sediment, recreating a fish passage barrier situation due to excessive water velocity at high flow and lack of sufficient water depth at low flow.

Salmon Creek, Tributary to Rock Creek

Fish Passage Improvement with I4 Funding

Salmon Creek crosses SR 6 at milepost 22.64 and drains to Rock Creek southwest of the town of Pe Ell. Washington State Parks replaced the downstream barrier crossing for the Willapa Hills Trail with a fish passable bridge in 2015. This project builds upon previous restoration efforts on Salmon Creek.



Before Construction



Figure 10. The old crossing was an 8 ft (2.4 m) wide by 6 ft (1.8 m) high concrete box culvert and was considered a low flow depth barrier.

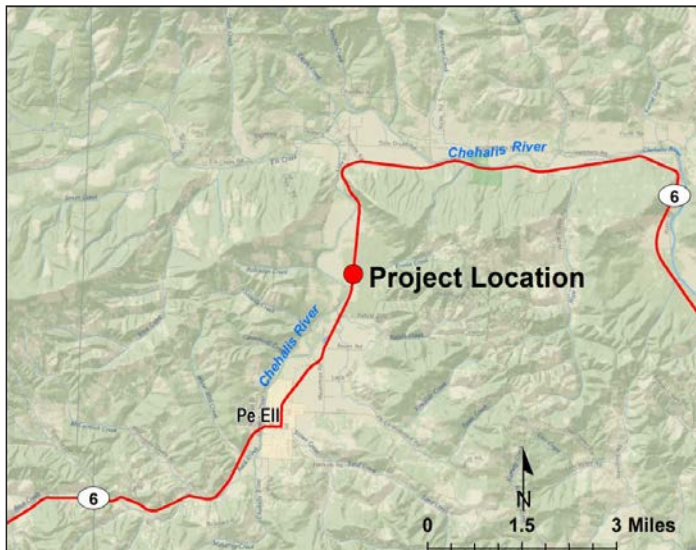
After Construction



Figure 11. The new crossing is a 24.3 ft (7.4 m) wide by 10.1 ft (3.1 m) high concrete box culvert that allows unimpeded passage for coho, steelhead, searun cutthroat trout, and resident trout. There are no known fish passage barriers on mainstem Salmon Creek either upstream or downstream, therefore the full extent of previously blocked habitat (3.6 mi, 5.8 km) in the Salmon Creek watershed is now accessible to migrating salmon.

Fronia Creek and SB Fronia Creek, Tributaries to Chehalis River

Fish Passage Improvement with I4 Funding



Fronia Creek and South Branch Fronia Creek cross SR 6 near milepost 31, north of the town of Pe Ell. This project re-routed South Branch Fronia Creek into Fronia Creek upstream of SR 6 and replaced two barrier structures with a single fish passable structure. This project satisfies objective 1 of the Injunction by avoiding the necessity of a highway crossing. A barrier culvert immediately downstream on the Willapa Hills Trail, owned by Washington State Parks, is the only remaining barrier water crossing structure in the Fronia Creek watershed.

Before Construction



Figure 12. The old Fronia Creek crossing (top) was a 2 ft (0.6 m) diameter corrugated aluminum culvert and the old South Branch crossing (bottom) was a 3 ft (0.9 m) diameter concrete culvert that blocked upstream access for coho, steelhead, searun cutthroat trout, and resident trout.

After Construction



Figure 13. The new crossing on Fronia Creek is a 20.2 ft (6.2 m) wide by 9.5 ft (2.9 m) high box culvert. The South Branch culvert was plugged and abandoned in place.

Buford Creek, Tributary to Grande Ronde River

Fish Passage Improvement with Grant Funding

Buford Creek crosses SR 129 at milepost 0.9 in the extreme southeast corner of Washington. This project was proposed and designed by the Nez Perce Tribe (NPT), who also took the lead at forming a technical working group consisting of NPT, WDFW, WSDOT, Asotin County Conservation District (ACCD), Snake River Salmon Recovery Board (SRSRB), and the private sector (Anderson Perry and Associates, Inc. and Northwest Hydraulic Consultants) to implement the project. This project restores unimpeded passage for Endangered Species Act Threatened steelhead as well as resident fish species in Buford Creek.



Before Construction



Figure 14. The old crossing was an 11 ft (3.4 m) diameter corrugated steel culvert constructed in 1946. Culvert baffles and a downstream ladder fishway extension were installed to remedy a vertical water surface drop at the outlet of the culvert that resulted from a flood in 1996. Buford Creek, like most eastern Washington drainages, is prone to flash flooding. This action was considered an interim fix until a properly sized structure could replace the deteriorating existing culvert.

After Construction



Figure 15. The new crossing is a 29.4 ft (9 m) wide by 18.8 ft (5.7 m) high structural plate steel pipe arch culvert set atop exposed concrete footings. The added height of the footings and overall structure size provide protection from boulder damage to the steel culvert during periods of high flow and flood events. Floodplain benches were included in the roughened channel design for flood storage within the culvert, which promotes terrestrial animal passage, an added benefit of the project.

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 Lineal Gain ¹ (mi)	Project Cost \$ ²
OL	990480		SR 112	49.48	Whiskey Cr	19.0020	1955	1.69	
OL	15.0051	0.10	SR 302	11.36	Little Minter Cr	15.0051	1982	0.10	
OL	15.0051	0.20	SR 302	11.42	Little Minter Cr	15.0051	1982	3.69	
OL	14.0010	0.10	US 101	356.8	Countyline Cr	14.0010	1985	0.47	
NW	08.0049	3.00	I-5 NB	177.67	McAleer Cr	08.0049	1986	0.09	
OL	14.0009A	0.06	US 101	357.9	Holiday Valley Cr	14.0009A	1986	1.10	
NW	03.0354A	0.04	SR 20	77.7	Little Careys Cr	03.0354A	1987	0.53	
NW	996965		I-90	20.42	EF Issaquah Cr tributary	08.0186	1990	1.14	
OL	990448		US 101	246.4	Tumwater Cr Fishway	18.0256	1991	5.55	19,991
NW	990142		SR 202	11.96	Evans Cr Fishway	08.0106	1992	4.71	319,044
OL	990323		SR 3	33.7	Parish Cr Fishway	15.0220	1992	1.00	14,835
SW	990171		SR 6	8.9	Green Cr Fishway Upgrade	24.0341	1992	1.10	8,000
NW	995411		I-5	246.75	Chuckanut Cr	01.0626	1993	0.71	
NW	01.0626	0.35	SR 11	18.6	Chuckanut Cr Fishway	01.0626	1993	4.78	68,788
NW	991712		US 2	18	Unnamed tributary to Skykomish R Culvert Replacement	07.0864	1993	1.07	60,000
OL	15.0280	1.00	SR 308	1.15	Big Scandia Cr	15.0280	1993	4.00	
NW	08.0302	0.00	SR 169	23.62	Maplewood Cr	08.0302	1994	1.20	
NW	08.0077	0.20	SR 527	6.57	Penny Cr	08.0077	1994	8.36	
NW	990014		SR 542	3.5	Squalicum Cr Fishway	01.0552	1994	2.95	68,000
OL	990021		US 101	253.85	Bagley Cr Fishway	18.0183	1994	6.49	40,704
SC	990189		US 97	37.14	Highbridge Springs	37	1994	0.70	
SW	990363		US 101	29.8	SF Nemah R Fishway	24.0503	1994	2.71	34,986
NW	990272		SR 104	29.65	McAleer Cr	08.0049	1995	3.32	
NW	08.0070A	0.01	SR 527	4	Sulphur Springs Cr	08.0070A	1995	0.20	
NW	08.0075	0.70	SR 527	4.46	Silver Cr No2	08.0075	1995	1.60	
NW	08.0070B	0.30	SR 527	6.32	Nickel Cr	08.0070B	1995	0.80	
NW	990644		SR 530	31.01	Stillaguamish R tributary	05	1995	0.81	
NW	991168		SR 530	31.9	Stillaguamish R tributary	05	1995	0.12	
OL	996952		SR 160	3.8	Curley Cr	15.0185	1995	10.13	
OL	990219		US 101	267.18	Johnson Cr Fishway	17.0301	1995	4.51	121,945
NW	991519		SR 18	19.59	Carey Cr tributary	08.0218A	1996	1.09	
NW	990064		SR 18	19.76	Carey Cr	08.0218	1996	11.32	
NW	105 R042117a		SR 164	8.24	Pussyfoot Cr Culvert Replacement; culvert retrofitted with fishway in 2000	10.0048	1996	9.33	117,566
NW	990271		SR 530	29.63	Mc Govern Cr	05.0168	1996	5.29	
NW	991162		SR 530	31.2	NF Stillaguamish R tributary	05.0168X	1996	0.12	
NW	991164		SR 530	32.51	NF Stillaguamish R tributary	05	1996	0.10	
NW	991154		SR 530	55.07	Hatchery Cr	04.1062	1996	0.22	
NW	991153		SR 530	55.9	Skagit R tributary	04.0707	1996	0.07	
OL	990348		SR 112	3.99	Rasmussen Cr Culvert Replacement	19.0230	1996	0.82	545,699
OL	990178		US 101	146.85	Harlow Cr Fishway	21.0134	1996	10.49	82,685
OL	990197		US 101	171.7	Huelsdonk Cr Fishway	20.0437 D	1996	0.71	18,594
OL	990169		US 101	189.4	Grader Cr Fishway	20.0237	1996	2.79	189,964
EA	990350		SR 20	388.13	Renshaw Cr	62.0310	1997	0.07	
EA	990351		SR 20	389.5	Renshaw Cr	62.0310	1997	0.73	
NW	990390		SR 18	8.9	Soosette Cr	09.0073	1997	4.71	
NW	991155		SR 530	54.6	Lyle Cr	04.1064	1997	1.30	
OL	990224		SR 3	57.1	Kinman Cr Culvert Replacement and Baffles Installation	15.0368	1997	2.25	365,902
OL	22.0349	0.70	US 12	12.36	Camp Cr	22.0349	1997	6.20	
OL	991501		US 101	103.65	Unnamed tributary to Big Cr - new fishway built in 1997; fishway tune up in 2003	22.0057	1997	2.13	126,327
OL	991581		US 101	104.9	Unnamed tributary to Fairchild Fishway	22.0052	1997	3.39	198,126
OL	990143		US 101	105.6	Fairchild Cr Fishway	22.0051	1997	2.63	195,742
OL	990164		US 101	186.3	Fuhrman Cr	20.0237E	1997	0.36	

Table 2. (Continued)

WSDOT Region	Site Id	Road	MP	Stream	WRIA	Year Fixed	Potential Lineal Gain ¹ (mi)	Project Cost \$ ²
OL	990156	US 101	186.41	Frakker Cr	20	1997	0.12	
OL	990716	US 101	186.45	Frakker Cr tributary	20	1997	0.12	
OL	991512	US 101	186.7	Forgotten Marsh	20.0237N	1997	0.16	
SW	992462	US 101	28.92	Roaring Cr Sl	24.0563	1997	0.26	
EA	990250	SR 20	384.95	Lost Cr	62.0322	1998	16.16	
NW	05.0021 4.10	I-5	216.73	WF Church Cr Fishway	05.0021	1998	4.47	17,101
NW	07.0383A 0.50	SR 202	13.8	Dry Cr	07.0383A	1998	1.75	
NW	101S-23	SR 203	7.83	Harris Cr tributary	07.0285	1998	3.14	
NW	997679	SR 509	24.42	Miller Cr	09.0371	1998	3.59	
NW	994239	SR 520	6.27	Yarrow Cr	08.0252	1998	0 ⁴	
OL	990278	SR 108	8.89	McDonald Cr Fishway	14.0023	1998	3.67	260,615
OL	991852	SR 303	6.9	Barker Cr	15.0255	1998	2.76	
OL	990121	SR 305	12.8	Dogfish Cr	15.0286	1998	0.08	
OL	991532	US 12	13.8	Chehalis R tributary	22.0354	1998	2.39	
OL	991502	US 101	101.1	Tributary to S Branch Big Cr Culvert Replacement	22.0059	1998	1.62	250,899
OL	991263	US 101	162.15	Big Cedar Cr Baffles Installation; baffles re-installed 2001	20.0576	1998	1.46	121,328
OL	990400	US 101	162.6	Steamboat Cr	20.0574	1998	4.62	23,000
SW	990119	SR 14	55.8	Dog Cr	29.0130	1998	0.08	
SW	990211	SR 14	66	Jewett Cr Culvert Replacement	29.0342	1998	0.13	413,000
SW	990116	SR 142	5.2	Dillacort Cr	30.0009	1998	0.60	
NC	990149	SR 971	8.9	First Cr Bridge	47.0096	1999	10.56	287,000
NC	990145	SR 971	9.1	First Cr Bridge	47.0096	1999	0.01	287,000
NW	990433	SR 900	19.5	Tibbets Cr Fishway	08.0169	1999	1.10	147,000
OL	991270	SR 109	36.43	Unnamed tributary to Pacific Ocean Fishway	21.0715	1999	1.91	189,566
OL	991690	US 101	111.9	Stevens Cr tributary	22	1999	0.60	
OL	990249	US 101	174	Lost Cr	20.0440	1999	0.83	
SW	992272	I-5	42.4	Cowlitz R tributary	26.0129	1999	0.74	
SW	990035	SR 4	35.6	Birnie Cr Fishway	25.0281	1999	2.44	67,570
SW	990948	US 12	127.44	Dry Cr	26.1119	1999	3.38	
SW	991698	US 101	24.13	Willapa Bay tributary	24.0673	1999	0.41	
EA	990881	SR 20	380.1	Lk Thomas tributary	59	2000	0.35	
EA	992006	SR 21	172.17	Lambert Cr	60.0327	2000	11.97	
NC	980108	SR 153	29.28	Beaver Cr Culvert Replacement	48.0307	2000	1.86	765,461
NW	990622	I-5	211.5	Secret Cr	05.0065	2000	2.26	45,107
NW	991708	SR 20	90.13	Skagit R tributary	04	2000	0.17	
NW	105 R071916a	SR 410	48.29	Boundary Cr	10.0250	2000	0.37	
NW	990262	SR 522	1.87	Maple Leaf Cr	08.0033	2000	1.46	
NW	990294	SR 528	2.52	Munson Cr	07.0073	2000	1.24	
OL	991295	SR 105	31.1	South Bay tributary	22	2000	0.22	
OL	990910	SR 106	6.95	Dalby Cr	14	2000	0.53	
OL	990466	US 101	246.9	Valley Cr Baffles and Roughened Channel	18.0249	2000	1.26	102,297
SC	990436	US 97	57.2	Toppenish Cr	37.1178	2000	13.13	
SW	991684	SR 506	2.33	Unnamed tributary to Stillwater Cr Culvert Replacement	26.0429B	2000	0.80	99,000
EA	990312	SR 20	309.31	O'Brien Cr Culvert Replacement	52.0394	2001	7.28	302,000
EA	990299	SR 20	309.96	NF O'Brien Cr Culvert Replacement	52.0394A	2001	0.13	302,000
EA	990300	SR 20	310.06	NF O'Brien Cr Culvert Replacement	52.0394A	2001	0.92	302,000
NC	990381	US 2	87.1	Skinney Cr Culvert Replacement	45.0701	2001	1.90	480,000
NC	990382	US 2	87.67	Skinney Cr Culvert Replacement	45.0701	2001	0.30	480,000
NC	990383	US 2	88.03	Skinney Cr Culvert Replacement	45.0701	2001	0.30	480,000
NW	DM10	SR 20	114.94	Damnation Cr	04.1844	2001	1.48	
OL	991797	SR 3	25.31	Sweetwater Cr Culvert Replacement	15.0504	2001	0.68	261,000
OL	991729	SR 112	19.56	Clallam R tributary	19	2001	0.13	

Table 2. (Continued)

WSDOT Region	Site Id	Road	MP	Stream	WRIA	Year Fixed	Potential Lineal Gain ¹ (mi)	Project Cost \$ ²
OL	991545	SR 112	19.89	Clallam R tributary	19.0129A	2001	0.13	
SW	990220	SR 4	4.5	Johnson Cr Culvert Replacement	24.0581	2001	2.12	269,000
SW	991397	SR 4	25.91	Skamokawa R tributary	25	2001	0.15	
SW	992271	SR 142	3.65	Knight Cr	30.0008	2001	7.19	
SW	990036	SR 409	3.85	Birnie Cr Fishway	25.0281	2001	0.09	322,000
SW	991440	SR 503	49.03	Kenyon Cr Fishway	27.0320	2001	0.89	224,000
NC	990202	US 97	158.32	Iron Cr	39.1209	2002	8.60	
NW	08.0268 0.80	I-405	10.12	Coal Cr	08.0268	2002	5.12	155,710
NW	993115	I-405	29.67	Martha Cr	08	2002	1.75	
NW	990344	SR 9	28.38	Portage Cr	05.0036	2002	4.42	
NW	991166	SR 9	32.2	Bryant Cr	05.0129	2002	0.34	
NW	LP23	SR 9	35.46	Pilchuck Cr tributary	05.0080B	2002	0.32	
NW	LP27	SR 9	35.52	unnamed trib to unnamed trib	05.0080C	2002	0.19	
NW	LP28	SR 9	35.7	unnamed trib to unnamed trib	05	2002	0.12	
NW	990625	SR 9	38.57	unnamed trib to unnamed Pilchick Cr trib	05.0080H	2002	0.66	
NW	LP32	SR 9	38.69	unnamed trib to unnamed trib	05	2002	0.38	
NW	NC180	SR 9	39.69	Lk McMurray tributary	03	2002	0.22	
NW	NC170	SR 9	39.87	Lk McMurray tributary	03	2002	0.18	
NW	995398	SR 9	69.88	Samish R tributary	03	2002	0.22	
NW	08.0110 0.10	SR 202	11.05	Rutherford Cr	08.0110	2002	1.10	
NW	990291	SR 530	44	Moose Cr Culvert Replacement	05.0257	2002	4.15	140,000
NW	990317	SR 530	44.27	Fink Cr Culvert Replacement	05.0257A	2002	4.15	140,000
NW	991741	SR 534	1.2	Unnamed tributary to Bulson Cr Fishway	03.0199	2002	4.93	790,555
SC	990440	SR 241	9.17	Sulphur Cr Wasteway tributary	37	2002	2.57	
SC	990409	SR 410	82.8	Wash Cr	38	2002	0.14	
SW	990071	SR 401	8.8	Cement Cr Fishway	24.0598	2002	4.02	200,000
EA	990180	SR 21	155.06	Golden Harvest Cr	52.0352	2003	13.53	
NW	08.0183 1.00	I-90	17	EF Issaquah Cr	08.0183	2003	0.89	
NW	995981	SR 9	0.88	Little Bear Cr tributary	08	2003	0.47	
NW	990208	SR 18	12.7	Jenkins Cr	09.0087	2003	10.18	
NW	990209	SR 18	13.8	Jenkins Cr	09.0087	2003	5.10	
NW	995977	SR 20	25.77	Penn Cove tributary	06.0003	2003	0.79	
NW	991199	SR 167	23.65	Upper Springbrook Cr	9.002	2003	0.53	
NW	101S-27	SR 203	12.76	Deer Cr	07	2003	0.73	
NW	991189	SR 527	6.99	North Cr tributary	08	2003	0.31	
OL	161180	US 101	167.44	Fletcher Cr Fishway	20.0426	2003	1.36	19,005
SW	990377	US 12	81.22	Silver Cr Culvert Replacement	26.0540	2003	4.22	527,000
NW	994411	I-90	15.48	Tibbets Cr Bridge	08.0169	2004	4.23	5,536,555
NW	990136	SR 11	6.84	Edison Sl	03.0001	2004	8.78	
NW	105 S012018a	SR 509	10.71	Lakota Cr	10.0386	2004	1.32	
NW	990434	SR 542	15.32	Jim Cr	01	2004	0.59	
NW	995578	SR 542	44.14	NF Nooksack R tributary	01	2004	0.12	
NW	995580	SR 542	44.34	NF Nooksack R tributary	01	2004	0.12	
NW	995584	SR 542	45.57	Happy Valley Cr - NF Nooksack tributary	01	2004	0.45	
OL	115 MC176	SR 106	7.06	Alderbrook Cr	14	2004	0.57	
OL	19.0110 0.50	SR 112	32.02	Jim Cr Culvert Replacement	19.0110	2004	8.76	870,000
OL	18.0234 1.10	US 101	250	Ennis Cr Fishway Upgrade	18.0234	2004	5.56	58,165
OL	17.0285 0.20	US 101	270.98	Jimmycomelately Cr Bridge	17.0285	2004	6.46	1,282,482
OL	990370	US 101	359.6	Schneider Cr	14.0009	2004	7.21	
SW	992311	US 101	53.56	Old Mill Pond Cr	24	2004	0.39	
NC	990228	SR 20	181.34	Little Boulder Cr Culvert Replacement	48.1400	2005	3.14	567,336
NC	992058	SR 262	13.19	Irrigation Ditch to Potholes Reservoir	41	2005	6.84	
NW	991576	SR 18	18.19	Taylor Cr	08.0326	2005	1.06	
NW	990426	SR 18	18.43	Taylor Cr	08.0326	2005	1.02	
NW	991821	SR 92	0.47	Stevens Cr Culvert Replacement	07.0147	2005	1.29	634,398
NW	991620	SR 161	33.9	EF Hylebos Cr tributary	10.0016A	2005	1.33	

Table 2. (Continued)

WSDOT Region	Site Id	Road	MP	Stream	WRIA	Year Fixed	Potential Lineal Gain ¹ (mi)	Project Cost \$ ²
NW	992374	SR 522	18.44	Evans Cr tributary	07.0211	2005	1.67	
NW	990016	SR 522	18.77	unnamed trib to unnamed trib	07	2005	0.23	
NW	102 N171	SR 527	7.38	Mill Cr	08.0070	2005	0.70	
NW	993087	SR 527	9.33	Penny Cr tributary	08	2005	0.12	
NW	995582	SR 542	45.51	Happy Valley Cr - NF Nooksack tributary	01	2005	0.10	
OL	990384	SR 106	0.85	Skobob Cr Bridge	16.0004	2005	0.89	1,731,000
OL	991636	SR 706	8.02	Nisqually R tributary	11.0008A	2005	4.51	
OL	991227	SR 706	9.81	Nisqually R tributary	11.0222	2005	0.21	
OL	991275	US 101	130.6	Ten O'Clock Cr tributary	21	2005	0.15	
EA	991471	SR 31	18.22	Three Mile Cr	62.0051	2006	4.77	
NC	980114	SR 20	205.84	Beaver Cr Culvert Replacement	48.0307	2006	50.11	700,915
NC	980124	SR 20	206.85	Frazer Cr Culvert Replacement	48.0309	2006	7.64	700,915
NC	990282	US 2	70.21	Mill Cr Culvert Replacement	45.0956	2006	7.18	1,674,411
NW	990376	I-405	19.12	Forbes Cr	08.0242	2006	2.93	
NW	995980	SR 9	0.97	Little Bear Cr tributary	08	2006	0.31	
NW	990316	SR 9	1.16	Cutthroat Cr	08.0083	2006	1.74	
NW	370220	SR 9	96.1	Easterbrook Cr	01.0686	2006	0.47	
NW	370219	SR 9	96.6	Bone Cr	01.0685	2006	2.27	
NW	08.0320 1.30	SR 18	16.94	Downs Cr - culvert replacement 2006; fishway rebuild 2008	08.0320	2006	2.42	
NW	995979	SR 20	14.65	Crockett Lk	06.0053	2006	1.78	
OL	990714	SR 112	24.91	Unnamed to Pysht R Culvert Replacement	19.0113K	2006	1.00	647,773
OL	990713	SR 112	54.35	Bear Cr Culvert Replacement	19.0014	2006	2.32	666,151
OL	990998	SR 305	11.62	SF Dogfish Cr	15	2006	0 ⁵	
OL	991853	SR 305	12.1	SF Dogfish Cr	15	2006	0 ⁵	
OL	996943	SR 305	12.16	SF Dogfish Cr	15	2006	0 ⁵	
OL	991854	SR 305	12.29	SF Dogfish Cr	15	2006	0 ⁵	
OL	15.0285 H 0.50	SR 305	12.34	SF Dogfish Cr	15	2006	0.99	
SW	992223	SR 142	13.4	Snyder Canyon Cr Fishway Tune up	30.0018	2006	3.89	0 ⁶
SW	30.0068 0.40	SR 142	20.2	Bowman Cr Bridge	30.0068	2006	22.79	1,495,495
EA	995837	SR 270	4.29	Paradise Cr tributary	34	2007	4.62	
EA	999625	SR 270	9.08	Paradise Cr tributary	34	2007	1.61	
NC	994035	SR 20	278.6	Bonaparte Cr	49.0246	2007	10.99	
NC	995038	US 2	57.8	Tye R tributary	07	2007	0.13	
NW	993090	I-5	182.73	Swamp Cr Fishway	08.0059	2007	6.69	433,648
NW	08.0059 7.00	I-405	29.75	Swamp Cr Fishway	08.0059	2007	0.39	436,324
NW	07.0148 1.30	SR 92	1.93	Catherine Cr Fishway	07.0148	2007	4.55	377,749
NW	996459	SR 524	13.05	Whistle Cr	08	2007	0.16	
NW	990578	SR 542	28.3	Boulder Cr tributary	01.0425	2007	0.35	
NW	981788	SR 548	6.35	Terrell Cr	01.0089	2007	4.26	
OL	991566	SR 303	5.6	Steele Cr	15.0274	2007	1.99	
OL	990122	SR 307	0.07	Dogfish Cr	15.0286	2007	4.32	
SC	990988	SR 24	1.07	Blue Sl	37	2007	2.30	
NW	991817	SR 9	31.61	Bryant Cr tributary	05	2008	0.48	
NW	FD41	SR 20	44.74	Meadow Cr	03	2008	5.10	
NW	995209	SR 96	3.96	unnamed trib to unnamed trib	07	2008	0.04	
NW	991641	SR 524	9.1	Filbert Cr	08	2008	0.71	
NW	991109	SR 539	2.06	Spring Cr tributary	01.0553	2008	0.24	
NW	990112	SR 539	4.3	Deer Cr	01.0165	2008	4.73	
SC	999499	US 12	319.35	Touchet R	32	2008	0 ⁷	
SW	994652	I-5	11	Gee Cr tributary	27.0168A	2008	1.28	
NW	991751	SR 531	3.8	Cougar Cr	05.0041	2009	0.48	
NW	990046	SR 542	28.01	Bruce Cr	01	2009	1.86	
NW	990023	SR 542	28.74	Baptist Camp Cr Culvert Replacement	01.0433	2009	0.32	495,103
NW	991184	SR 900	20.09	Clay Cr	08.0172	2009	0.12	
NW	991723	SR 900	20.34	Tibbetts Cr tributary	08.0171	2009	0.40	

Table 2. (Continued)

WSDOT Region	Site Id	Road	MP	Stream	WRIA	Year Fixed	Potential Lineal Gain ¹ (mi)	Project Cost \$ ²
OL	998155	SR 16	20.06	Burley Cr tributary	15	2009	0.11	
OL	993576	SR 16	20.2	Burley Cr tributary	15	2009	0.12	
OL	992196	SR 104	12.7	Unnamed tributary to Squamish Harbor Culvert Replacement	17.0185	2009	1.13	1,475,868
OL	991244	SR 106	2.95	Unnamed tributary to Skokomish R Culvert Replacement	16.0002	2009	0.27	1,270,093
OL	991908	US 101	76.48	Mosquito Cr Culvert Replacement	24.0137	2009	2.21	1,357,943
SW	994286	I-5	74.05	Berwick Cr	23.0081	2009	7.19	
SW	992234	SR 122	4.99	Unnamed tributary to Mayfield Lake Culvert Replacement	26	2009	1.15	385,839
EA	997498	US 2	296.35	Deadman Cr	55.0051	2010	57.29	
NW	991060	SR 542	16.07	Nooksack R tributary	01	2010	0.12	
NW	990606	SR 542	38.98	Chain-up Cr Bridge	01	2010	0.17	1,289,251
OL	990709	SR 305	9.6	Unnamed tributary to Liberty Bay Culvert Replacement	15.0291	2010	1.74	2,887,452
OL	991742	SR 305	9.86	Bjorgen Cr Culvert Replacement	15.0290	2010	0.94	3,546,564
OL	991252	US 101	335.02	Hood Canal tributary	16.0218	2010	0.13	
SW	931450	SR 105	24.26	Seastrand Cr tributary	24	2010	0 ⁸	
SW	993139	SR 105	24.42	Seastrand Cr tributary	24	2010	0 ⁸	
SW	992821	US 101	3.3	Columbia R tributary	24	2010	0.87	
NW	AR11	SR 20	75.75	Red Cabin Cr Bridge	3.0343	2011	8.70	3,610,665
NW	994459	SR 520	4.48	Lake Washington tributary	8.0257	2011	1.49	
NW	998987	SR 520	4.81	Lake Washington tributary	08	2011	0.62	
NW	994119	SR 520	5.81	Yarrow Cr tributary	08	2011	0.32	
NW	990429	SR 548	4.67	Terrell Cr Culvert Replacement	01.0089	2011	7.03	1,569,358
NW	07.0939	0.40 US 2	23.08	Wagley's Cr Dam Removal	07.0939	2011	9.39	726,441
OL	999532	I-5	85.81	Dry Cr tributary	23	2011	0.99	
OL	992493	US 101	68.99	Tributary to Lower Salmon Cr Culvert Replacement	24.0106	2011	2.86	1,505,251
OL	990729	US 101	100.9	Tributary to S Branch Big Cr Culvert Replacement	22.0059	2011	0.75	845,786
OL	990032	US 101	102.14	Tributary to S Branch Big Cr Culvert Replacement	22.0059	2011	2.52	1,062,966
SW	990307	SR 105	16.57	Norris Slough Bridge	24	2011	1.55	3,023,493
EA	990096	SR 21	172.85	Curlew Cr	60.0288	2012	14.86	
NW	08.0183	1.60 I-90	18.83	EF Issaquah Cr Culvert Replacement	08.0183	2012	6.88	3,337,235
NW	931684	SR 9	2.65	Great Dane Cr tributary	08	2012	0.12	
NW	991486	SR 167	25.65	Panther Cr ³	9.0006	2012	3.72	
NW	994234	SR 520	5.95	Yarrow Cr	08.0252	2012	3.99	
NW	994227	SR 520	5.95	Yarrow Cr	08.0252	2012	0 ⁴	
NW	991736	SR 520	6.04	Yarrow Cr	8.0252	2012	0 ⁴	
NW	990151	SR 530	42.99	Fortson Cr Culvert Replacement	05.0254	2012	0.64	1,852,338
OL	991730	SR 112	25.6	Unnamed tributary to Pysht R Culvert	19	2012	2.08	996,662
OL	990304	SR 112	47.1	Nelson Cr Culvert	19.0032	2012	2.91	2,031,115
SW	994301	I-5	81.77	China Cr Fishway	23.0870	2012	5.15	
SW	990052	US 97	21.35	Butler Cr Bridge	30.0140	2012	13.71	3,634,545
EA	990362	SR 21	133.6	S. Nanamkin Cr	52.0125	2013	15.97	
NC	991849	US 2	88.54	Skinney Cr	45.0701	2013	0.45	
NW	991036	I-5	255.40	Squalicum Cr	01.0552	2013	18.69	1,516,068
NW	991448	SR 9	67.33	NP Cr Culvert Replacement	3.0078	2013	1.31	1,220,015
NW	994389	SR 11	20.42	Padden Cr	01.0622	2013	7.20	2,899,049
NW	994449	SR 520	6.03	Yarrow Cr	8.0252	2013	0 ⁴	
NW	994705	SR 520	6.44	SF Yarrow Cr	08	2013	0 ⁴	
OL	990297	SR 7	41.17	Muck Cr Culvert Replacement	11.0018	2013	5.21	2,065,841
OL	991246	SR 106	13.50	Twano Falls Cr Culvert Replacement	14.0132	2013	2.81	2,864,719
OL	993048	SR 107	0.76	Little North R tributary	24	2013	0.01	
OL	990092	SR 112	57.61	Coville Cr Culvert Replacement	19.0001	2013	9.76	1,754,881

Table 2. (Continued)

WSDOT Region	Site Id	Road	MP	Stream	WRIA	Year Fixed	Potential Lineal Gain ¹ (mi)	Project Cost \$ ²
OL	991215	SR 162	4.82	Ball Cr	10.0405	2013	1.54	
SC	992942	I-90	56.81	Rocky Run Cr	39.1867A	2013	0.16	
SW	993138	SR 105	24.39	Seastrand Cr	24.0003	2013	1.38	
SW	932550	SR 142	23.66	Little Klickitat R tributary	30	2013	1.16	
SW	992228	US 12	115.29	Cowlitz R tributary	26.1030	2013	0.55	
NW	932370	SR 410	31.12	Scatter Cr	10.0073	2014	16.71	
NW	994236	SR 520	6.19	Yarrow Cr	8.0252	2014	0 ⁴	
NW	994704	SR 520	6.40	unnamed to Yarrow Cr	8	2014	0 ⁴	
NW	994237	SR 520	6.26	Yarrow Cr	8.0252	2014	0 ⁴	
NW	994238	SR 520	6.27	Yarrow Cr	8.0252	2014	0 ⁴	
NW	994128	SR 522	21.95	Skykomish R tributary	7.0814	2014	0.83	
NW	994125	SR 522	21.97	Skykomish R tributary	7.0814	2014	0.07	
NW	995404	SR 530	36.83	NF Stillaguamish R tributary	05	2014	0.04	
NW	991169	SR 530	36.9	NF Stillaguamish R tributary	05	2014	0 ⁸	
NW	991170	SR 530	37.58	NF Stillaguamish R tributary	05	2014	0 ⁸	
NW	990359	SR 530	37.95	Rowan II Cr	05.0220A	2014	0 ⁹	
NW	991171	SR 530	37.96	NF Stillaguamish R tributary	05	2014	0 ⁹	
NW	995405	SR 530	38.13	NF Stillaguamish R tributary	05	2014	0 ⁹	
OL	15.0229 0.10	SR 3	40.96	Chico Cr - temporary weirs inside the box culvert	15.0229	2014	pending ¹⁰	326,100
OL	990555	US 101	259.79	Owl Cr	18	2014	2.23	
NW	991120	SR 9	42.36	Lake Cr Bridge	03.0227	2015	9.83	2,444,365
NW	991210	SR 99	6.86	WF Hylebos Cr ³	10.0014	2015	2.09	2,639,948
NW	991718	SR 203	14.55	Coe Clemons Cr Culvert Replacement	07	2015	1.45	3,215,200
NW	08.0052 0.10	SR 522	5.76	Lyon Cr Culvert Replacement	08.0052	2015	9.51	1,600,001
NW	01.0228 4.80	SR 542	6.55	Anderson Cr Bridge ³	01.0228	2015	13.61	8,029,094
SC	995878	SR 129	5.78	Rattlesnake Cr Culvert Replacement	35.2314	2015	8.97	1,038,260
SW	991374	SR 4	3.1	Petes Cr	24.0572	2015	7.09	
SW	931100	SR 4	33.94	Unnamed trib to Elochoman Slough Culvert Replacement	25	2015	0.19	1,506,146
SW	990818	SR 4	34.1	Unnamed trib to Elochoman Slough Culvert Replacement	25	2015	1.68	1,738,124
SW	990283	SR 502	5.13	Mill Cr	28.0079	2015	2.79	
NW	930179	SR 167	11.43	unnamed trib to Milwaukee Canal	10	2016	1.44	
NW	996928	SR 522	9.6	Horse Cr	08	2016	1.64	
NW	990624	SR 532	9.75	Secret Cr	05.0065	2016	2.84	3,278,072
NW	991621	SR 542	24.9	High Cr	01	2016	2.41	2,118,192
NW	996155	SR 548	11.19	unnamed trib to Drayton Harbor	01.0044	2016	2.02	934,932
OLY	996735	SR 3	26.13	unnamed trib to Mindy Cr	15	2016	0.81	
OLY	996753	SR 16 EB	28.1	Anderson Cr	15.0211	2016	5.77	0 ⁶
OLY	990017	SR 16 WB	28.1	Anderson Cr	15.0211	2016	0.00	6,745,035
OLY	992205	SR 104	22.47	Grovers Cr	15.0299	2016	3.23	1,504,836
OLY	14.0021 0.30	SR 108	11.9	Little Skookum Cr	14.0021	2016	3.37	2,674,585
OLY	990205	SR 112	5.17	Jansen Cr	19.0228	2016	3.55	2,602,158
OLY	990214	SR 112	33.21	Joe Cr	19.0109	2016	4.45	1,949,017
OLY	990144	SR 112	48.49	Field Cr ³	19.0026	2016	5.55	196,019
OLY	990962	SR 121	4.04	Blooms Ditch	23.0684	2016	3.07	2,556,888
OLY	343040	SR 121	4.1	unnamed trib to Blooms Ditch	23	2016	0.04	0 ⁶
OLY	990972	SR 161	12.85	South Cr	11.0028	2016	23.83	1,634,328
OLY	105 R050320a	SR 167	10.8	Jovita Cr ³	10.0032	2016	2.53	
OLY	990123	SR 307	0.49	Dogfish Cr	15.0285	2016	4.90	1,366,090
OLY	992002	SR 307	4.62	Gamble Cr	15.0356	2016	6.22	1,867,216
OLY	991049	SR 507	36.35	Lacamas Cr	11.0022	2016	15.09	2,139,771
OLY	20.0312 0.60	US 101	197.1	Swanson Cr	20.0312	2016	4.13	2,111,082
EA	990267	US 395	249.98	Matsen Cr	60.0056	2017	0.90	
NW	03.0181 0.50	I-5	219.41	Fisher Cr ³	03.0181	2017	17.11	8,600,106

Table 2. (Continued)

WSDOT Region	Site Id	Road	MP	Stream	WRIA	Year Fixed	Potential Lineal Gain ¹ (mi)	Project Cost \$ ²
NW	996475	I-90	17	Unnamed to NF Issaquah Cr	08.0000	2017	0.22	7,381,876
NW	996963	I-90	17	NF Issaquah Cr	08.0181	2017	0.86	0 ⁶
NW	934151	I-90	17.06	Unnamed to NF Issaquah Cr	08	2017	0.09	0 ⁶
NW	995181	SR 203	14.1	Thayer Cr	07	2017	0.78	
NW	991058	SR 531	8.65	Edgecomb Cr	07	2017	0.06	0 ⁶
NW	991059	SR 531	8.71	Edgecomb Cr ³	7	2017	1.76	3,097,234
NW	05.0018 2.00	SR 532	6.14	Church Cr ³	05.0018	2017	12.73	5,756,865
NW	991842	SR 900	15.86	Green Cr	08.0000	2017	1.34	1,779,625
OLY	991660	SR 112	52.9	Nordstrom Cr	19.0011	2017	3.02	2,287,429
OLY	18.0021 5.40	US 101	260.93	Matriotti Cr ³	18.0021	2017	5.02	2,489,652
SC	999342	I-90	59.37	Resort Cr	39.1861	2017	0.84	
SW	991409	SR 401	0.84	Megler Cr	24.0049	2017	0.80	
NC	990413	US 97	159.24	Swauk Cr	39.1157	2018	4.36	3,573,759
NC	992763	US 97	165.54	unnamed tributary to Tronsen Cr	45	2018	0.43	994,779
NW	991122	SR 9	48	Gribble Cr ³	03	2018	2.67	3,138,507
NW	990233	SR 92	2.73	Little Pilchuck Cr	07.0146	2018	28.93	6,956,549
NW	102 L062	SR 202	0.10	Little Bear Cr	08.0080	2018	21.41	9,329,387
NW	991717	SR 203	4.98	Historic Langlois Cr	07	2018	5.54	2,072,464
NW	102 L020	SR 524	12.44	Great Dane Cr	08.0084	2018	4.47	1,538,986
NW	990187	SR 542	32.00	Hedrick Cr	01.0463	2018	0.34	7,017,829
OLY	22.0507 0.10	SR 8	5.00	MF Wildcat Cr	22.0507	2018	18.64	7,544,715
OLY	990133	SR 8	6.30	EF Wildcat Cr	22.0503A	2018	13.62	8,986,450
OLY	991739	SR 112	7.35	Olsen Cr	19.0227	2018	3.62	3,428,101
OLY	994791	US 12	9.04	unnamed tributary to Wynoochee R	22	2018	1.65	4,897,533
SC	992948	I-90	60.60	Townsend Cr	39	2018	1.63	
SC	992950	I-90	61.35	Price Cr	39.1840	2018	1.04	
SW	991634	SR 504	17.00	Wooster Cr	26.0320	2018	1.76	3,703,750
NW	992349	SR 9	77.36	Tributary to Tawes Cr	01.0248	2019	0.59	3,854,335
NW	992350	SR 9	77.43	Tributary to Tawes Cr	01.0248	2019	3.14	0 ⁶
NW	992356	SR 9	77.94	Tawes Cr	01.0247	2019	2.19	2,642,526
NW	991160	SR 530	25.94	Schoolyard Cr ³	05.0145	2019	3.53	3,272,210
SC	990048	SR 129	0.90	Buford Cr	35.2307	2019	3.96	
SW	990735	SR 6	22.64	Salmon Cr	23.1166	2019	3.56	2,451,051
SW	990744	SR 6	31.06	South Branch Fronia Cr	23.1145	2019	3.48	2,706,381
SW	990746	SR 6	31.08	Fronia Cr	23.1145	2019	0.00	0 ⁶

Total: 1170.47 mi

Shaded - injunction barrier corrections

- 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 projects completed with dedicated I4 funds.
- 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.

2020 Fish Passage Projects Planned

Fourteen barrier correction projects are scheduled for completion in 2020 (Figure 16, Table 3). The 14 projects will open up an estimated 54.3 miles (87.4 kilometers) of potential upstream habitat. One project will replace a culvert retrofitted with a fishway in 1996 that had reverted to a barrier. Thirteen of the fourteen barrier corrections planned for 2020 will correct injunction barriers.

All 14 barrier corrections are stand-alone projects funded by the WSDOT improvement subprogram I4. Two barriers are being corrected using additional grant funding. One barrier on SR 116 crossing

Kilisut Harbor is being corrected in partnership with the North Olympic Salmon Coalition, with funding from WSDOT, the US Fish and Wildlife Service (USFWS), US Navy, WA Department of Ecology, and the Recreation and Conservation Office/ Salmon Recovery Funding Board (SRFB). Another barrier on SR 401 tributary to the Columbia River will be corrected in partnership with the Columbia River Estuary Study Taskforce (CREST), with grant funding from the SRFB, Bonneville Power Association, Lower Columbia River Estuary Partnership, Lower Columbia Fish Recovery Board, and USFWS.

Figure 16. WSDOT fish passage projects scheduled for completion in 2020

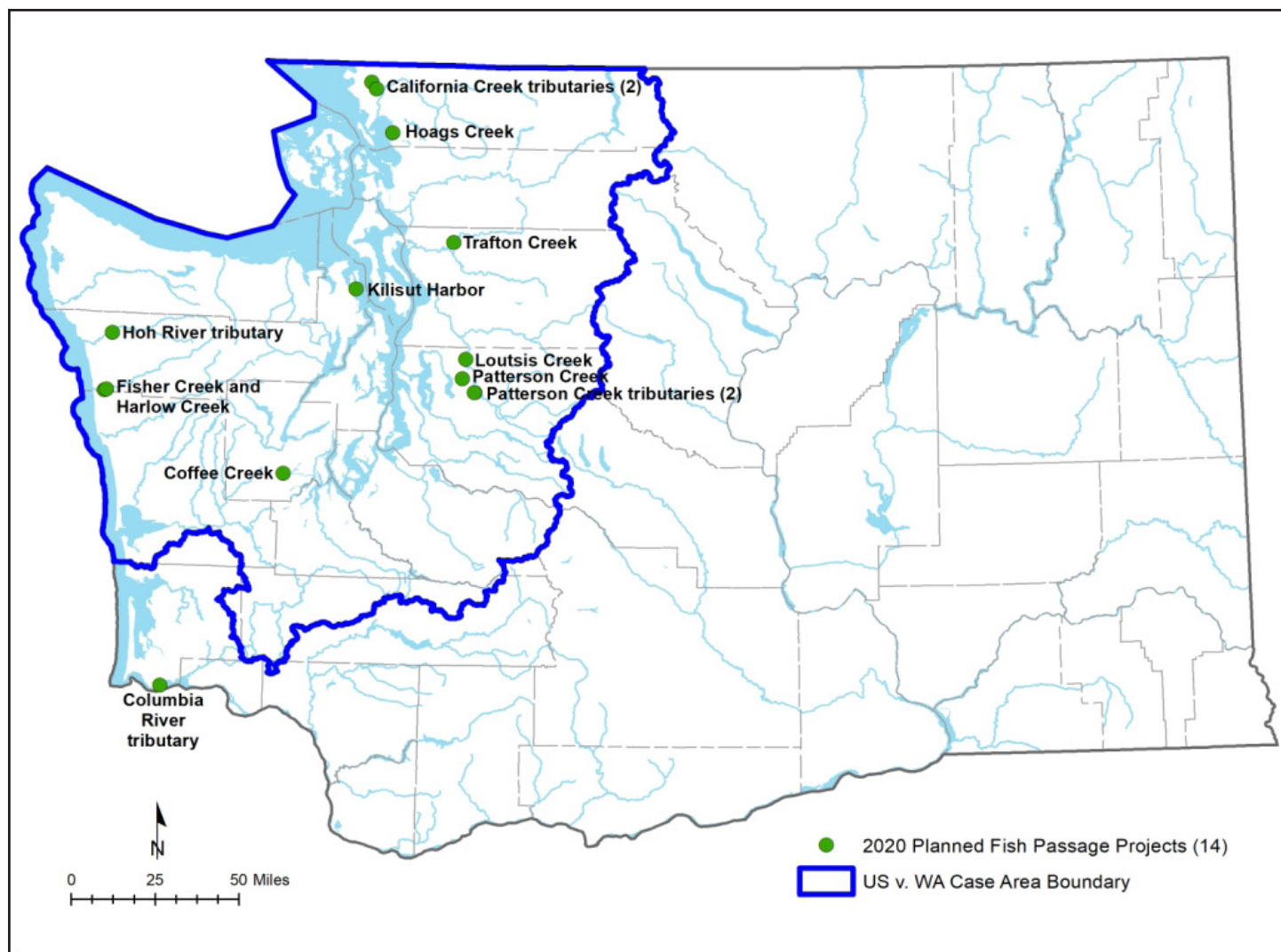


Table 3. Fish Passage Projects Planned for Completion in 2020

Site ID	Injunction Culvert	WSDOT Region	Road	MP	Stream	WRIA	Lineal Gain ¹ (mi)	Incremental Gain ¹ (mi)	Funding
995715	Yes	NW	I-5	268.63	tributary to California Creek	1	3.20	3.20	I4
990581	Yes	NW	SR 11	18.65	Hoags Creek	1	0.71	0.71	I4
996003	Yes	NW	SR 548	0.29	tributary to California Creek	1	3.30	3.30	I4
991159	Yes	NW	SR 530	24.65	Trafton Creek	5	2.81	2.81	I4
990325	Yes	NW	SR 202	13.22	Patterson Creek	7	3.21	3.21	I4
991174	Yes	NW	SR 202	19.69	tributary to Patterson Creek	7	2.58	2.58	I4
991173	Yes	NW	SR 202	19.76	tributary to Patterson Creek	7	5.47	5.47	I4
991716	Yes	NW	SR 203	13.60	Loutsis Creek	7	3.14	3.14	I4
115 MC093	Yes	OL	US 101	346.95	Coffee Creek	14	13.32	13.32	I4
990943	Yes	OL	SR 116	4.67	Kilisut Harbor	17	1.49	1.49	I4, G
991647	Yes	OL	US 101	175.45	tributary to Hoh River	20	1.89	1.89	I4
990178 ³	Yes	OL	US 101	146.85	Harlow Creek	21	10.49	9.56 ²	I4
990148	Yes	OL	US 101	147.49	Fisher Creek	21	3.19	3.19	I4
991412	No	SW	SR 401	2.03	tributary to Columbia River	24	0.42	0.42	I4, P, G

Total 55.22 mi 54.28 mi

¹ 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.

² Site with WSDOT barrier(s) upstream

³ Previously corrected site.

Funding Codes:

I4 = Improvement

G = Grants

P = Preservation

Project Planning

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 correction projects address some of the highest priority barriers.
- Barriers corrected as part of larger safety or mobility projects allow WSDOT to save time and money.

Stand-alone Projects

These projects are part of the WSDOT Environmental Retrofit Subprogram (I4). 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,
- project cost in relation to program funding,
- 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),
- severity of the fish passage barrier (e.g. total barrier vs. partial barrier),
- notably complex design challenges (e.g. adjacent barriers, complex right of way issues, unstable stream conditions, etc.),

- partnership opportunities with local agencies, Tribes, enhancement groups, and other landowners,
- the presence and number of Endangered Species Act (ESA) listed species, and
- permitting constraints.

Although WSDOT prioritizes known barriers statewide for correction, barrier culverts within the case area help contribute to 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. Mainly barriers with significant amount of potential habitat gain are prioritized for correction as stand-alone fish passage restoration projects in the I4 budget.

WSDOT Transportation Improvement Projects

WSDOT fish passage barrier correction can also occur by integrating the barrier project with road construction, including safety and mobility projects. It is a cost-effective way to accelerate barrier correction and reduce mobilization costs. 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 to identify all fish passage barriers within a project's boundaries.

Fish Passage Barrier Inventory

Fish Passage Inventory Updates

WDFW has inspected 7,564 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. Culvert conditions can change over time and reassessment of barrier and non-barriers is an ongoing effort. One example is WSDOT's reassessment of injunction-relevant non-barrier culverts every 10 years. WSDOT also directs WDFW to reassess water crossings in specific locations 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.

- Of the 7,564 water crossings, 3,931 were identified as crossings over fish bearing waters.
- Approximately 52% (2,057) of the examined fish bearing crossings were identified as barriers (Table 4). Out of the 2,057* barriers, 1,059 are total barriers to fish passage, 951 provide partial fish passage, while 47 barriers have an unknown

percent passability.

- Two hundred and one crossings require further analysis to determine fish passage barrier status.
- Barriers with a significant habitat gain** (1,526) may be prioritized for correction with dedicated funding.
- Seventy-nine 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 4. 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 ¹	Barriers with Habitat Threshold Gain Not Determined	Barriers Fixed ²
2057	Total Barriers (0% Passable)	Partial Barriers (33% or 67% Passable)	Percent Passable Unknown	201	1526	452	79	352
	1059	951	47					

Based on WSDOT Fish Passage Inventory as of June 1, 2020.

¹ Barriers with less than 200 m potential habitat gain.

² Three hundred and fifty-two 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.

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

In 2019, WSDOT corrected seven injunction barriers, opening 16.5 miles of salmon and steelhead habitat. Additionally, WSDOT began construction on two additional barrier corrections in 2019 that will be completed over multiple construction seasons, including SR 116 Kilisut Harbor and US 101 Coffee Creek, which will open another 14.81 miles of habitat by the end of 2020.

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 1, 2020, WSDOT has 1,012 culvert barriers relevant to the U.S. v. WA case - 826 with significant habitat upstream (≥ 200 meters) and 186 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:

- 73 barriers have been corrected and are no longer barriers,
- 32 culverts are on resident-fish streams, not containing steelhead or salmon,
- 10 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,
- 29 barriers were re-evaluated as fish passable,
- 12 barriers were incorrectly assigned to WSDOT ownership, and
- 159 new injunction relevant barrier culverts were identified.

Appendix I lists the barrier culverts relevant to the injunction as of June 1, 2020. Appendix II lists the updates to the List of WSDOT Case Area Barrier Culverts.

Monitoring

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. 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.

Monitoring Results

WSDOT conducted 36 interval inspections during 2019, including: eight Post-Construction Compliance Inspections, 17 Over-Winter Inspections, and 11 Long-Term Evaluations. WSDOT also conducted Increased Monitoring Evaluations at 23 sites in 2019 under Action #2 above. Detailed results can be found in Appendix IV.

All eight Post-Construction Inspections completed determined the projects met fish passage standards. Two projects need additional work to be compliant with the design and construction permits but do not inhibit fish passage.

Of the 17 Over-Winter Inspections, two projects were flagged to receive annual evaluations due to monitoring responses outside expected norms. The first project developed a plane-form streambed which may impact migrating spawning adults if the channel

continues to widen (currently fish passable). The second project is undergoing an expected natural regrade of the stream channel which is monitored closely for signs of hindering fish passage until the channel becomes stable. Due to the dynamic processes occurring here, the fish passage determination for this project is reported as unknown until such time that the channel stabilizes.

All 11 Long-Term Evaluations met fish passage standards and stream function for the Year 5 Interval.

For the 23 projects receiving an Increased Monitoring Evaluation, three continue to be monitored annually, three no longer pose a concern for fish passage and reverted to the regular monitoring interval, five require a streambed modification in order to maintain or restore fish passage, eight were evaluated at the request of the regional project office, and four projects were assessed after receiving a streambed modification under Action #4 above.

SR 520 Yarrow Creek and tributaries to Lake Washington

Eight projects constructed between 2011 and 2014 on SR 520 were assessed in spring 2019 to evaluate the stream channel function. Four of the projects were previously identified as potentially benefitting from a streambed modification to reshape the channel and define a thalweg that would alleviate shallow water conditions through the structures during periods of low stream flow. Streambed modifications took place summer 2019 at those four projects, and were subsequently re-evaluated fall 2019 under Action #4 above. These four projects, as well as the four projects that did not receive a streambed modification, all met fish passage standards.

Post-Project Evaluation for Fish Presence

Adult spawner surveys determine species presence or absence above and below a newly completed fish passage project. Typically, the surveys are conducted 500 meters 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.

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, and general habitat degradation or loss.

Appendix III lists recent spawner surveys conducted by WDFW for 14 projects. In late 2019 and early 2020, WDFW conducted salmon spawner surveys on 12 streams where WSDOT recently completed fish passage projects. During those surveys, adult salmon or redds were detected upstream of four WSDOT fish passage projects. Adult salmon or redds were not detected upstream of the other eight sites surveyed. This could be due to other fish passage barriers located downstream, or poor visibility when conducting the stream surveys (for example, if the water was high or turbid).

SR 129 Buford Creek Fish Passage Partnership

In 2019, a fish passable, bottomless arch structure was constructed on Buford Creek crossing SR 129 at milepost 0.90, correcting the only documented fish passage barrier within the watershed. Buford Creek is located just north of the Oregon/Washington border and flows into the Grand Ronde River. The SR 129 Buford Creek fish passage project was completed in partnership with the Nez Perce Tribe (NPT), Snake River Salmon Recovery Board, Washington Department of Fish and Wildlife, and the Asotin Conservation District, with grant funding from the Salmon Recovery Funding Board and the Brian Abbott Fish Barrier Removal Board. The NPT was the project sponsor and took the lead on design and construction, in coordination with WSDOT. This project holds special value to the NPT as it lies within the external boundary of the Buford Parcel of their Precious Lands Wildlife Priority Area. Buford Creek provides critical habitat for steelhead, with almost four miles of spawning and rearing habitat upstream of SR 129.



A 29 foot wide x 19 foot tall bottomless steel arch culvert was constructed in 2019.

Fishway Inspections and Maintenance

In addition to culverts, WSDOT owns 146 fishways statewide. 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. A follow-up inspection, normally conducted in the fall, ensures that all the fish passage deficiencies were corrected and maintenance needs were met.

In 2020, WDFW was not able to conduct spring fishway inspections due to the COVID-19 pandemic and Governor Inslee's "Stay Home, Stay Healthy" order. Field work was suspended for several months. WDFW's fishway inspector has been coordinating with WSDOT Regional Maintenance Environmental Coordinators (RMECs) to create a prioritized course of action as field activities resume.

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.

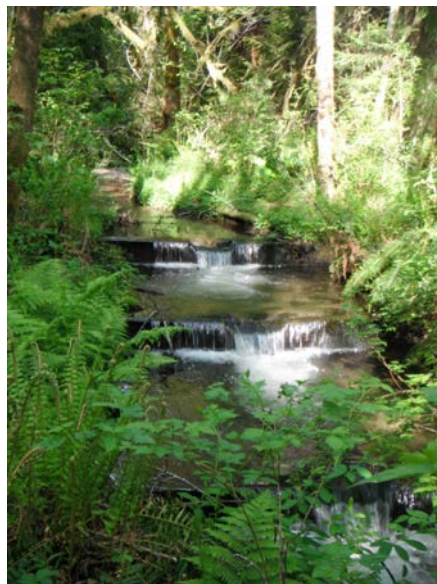


Figure 17. Examples of WSDOT fishways, from top: 14.0009A 0.06 on US 101 Holiday Valley Creek, 991227 on SR 706 unnamed tributary to Nisqually River, and 27.0300 0.00 on SR 503 Robinson Creek.

Appendix I

WSDOT Culvert Barriers Relevant to the Injunction

Appendix I. WSDOT Culvert Barriers Relevant to the Injunction (as of June 1, 2020)

826 barrier culverts with ≥ 200 meters habitat gain; 186 barrier culverts with <200 meters habitat gain

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

WSDOT Region	Site Id	Road	Milepost	Stream	Tributary to	WRIA	County	Lineal Habitat Gain ≥ 200 meters
NW	995295	I-5; NB ROW	141.17	unnamed	EF Hylebos Cr	10	King	Yes
NW	995292	I-5	141.54	W Hylebos Cr	Hylebos Cr	10	King	Yes
NW	995297	I-5; SB Ext 142B	141.84	W Hylebos Cr	Hylebos Cr	10	King	Yes
NW	995293	I-5; SB Ext 142 B	142.1	w Hylebos Cr	Hylebos Cr	10	King	Yes
NW	992364	I-5	143.6	W Hylebos Cr	Hylebos Cr	10	King	Yes
NW	995299	I-5; NB Ext 143	143.75	W Hylebos Cr	Hylebos Cr	10	King	Yes
NW	995300	I-5; NB Ext 143	143.9	W Hylebos Cr	Hylebos Cr	10	King	Yes
NW	933613	I-5; ROW S 288th St	145.81	Bingaman Cr	Bingaman Pond	9	King	Yes
NW	991031	I-5	145.93	Bingaman Cr	Bingaman Pond	9	King	Yes
NW	996030	I-5; NB to I-405	154.39	Gilliam Cr	Green R	9	King	Yes
NW	998964	I-5; NB off-ramp	154.48	unnamed	unnamed Green R trib	9	King	Yes
NW	934543	I-5	172.38	unnamed	SF Thornton Cr	8	King	No
NW	994562	I-5	174.71	Thornton Cr	Lake Washington	8	King	Yes
NW	994842	I-5; ROW	175	unnamed	Thornton Cr	8	King	Yes
NW	102 M046	I-5; WB Ext 177	177.85	McAleer Cr	Lake Washington	8	Snohomish	Yes
NW	102 M048	I-5; Service Rd	177.85	unnamed	McAleer Cr	8	Snohomish	Yes
NW	990273	I-5	177.93	McAleer Cr	Lake Washington	8	Snohomish	Yes
NW	996229	I-5	183.33	unnamed	Swamp Cr	8	Snohomish	No
NW	102 N218	I-5	186.93	unnamed	North Cr	8	Snohomish	No
NW	993091	I-5	187.64	unnamed	Silver Lk	8	Snohomish	Yes
NW	993124	I-5; ROW	187.89	unnamed	Silver Lk	8	Snohomish	Yes
NW	930252	I-5	187.93	unnamed	Penny Cr	8	Snohomish	Yes
NW	995262	I-5	189.9	unnamed	Wood Cr	7	Snohomish	No
NW	933665	I-5	196.24	unnamed	Snohomish R	7	Snohomish	Yes
NW	996076	I-5; NB Ext 210	210.01	unnamed	Stillaguamish R	5	Snohomish	Yes
NW	990622	I-5	211.5	Secret Cr	Pilchuck Cr	5	Snohomish	Yes
NW	990623	I-5; SB	211.7	Secret Cr	Pilchuck Cr	5	Snohomish	Yes
NW	992181	I-5	213.27	unnamed	unnamed to Pilchuck Cr	5	Snohomish	Yes
NW	992182	I-5	213.27	unnamed	unnamed to Pilchuck Cr	5	Snohomish	Yes
NW	991979	I-5	213.29	unnamed	unnamed	5	Snohomish	Yes
NW	992175	I-5	213.66	unnamed	Secret Cr	5	Snohomish	Yes
NW	LP66	I-5	213.86	unnamed	Secret Cr	5	Snohomish	Yes
NW	996077	I-5	214.38	unnamed	WF Church Cr	5	Snohomish	Yes
NW	996074	I-5	214.65	unnamed	WF Church Cr	5	Snohomish	Yes

Appendix I. WSDOT Culvert Barriers Relevant to the Injunction (as of June 1, 2020)

826 barrier culverts with ≥ 200 meters habitat gain; 186 barrier culverts with <200 meters habitat gain

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

WSDOT Region	Site Id	Road	Milepost	Stream	Tributary to	WRIA	County	Lineal Habitat Gain ≥ 200 meters
NW	996454	I-5	214.65	unnamed	WF Church Cr	5	Snohomish	Yes
NW	996071	I-5	214.73	WF Church Cr	Church Cr	5	Snohomish	Yes
NW	996073	I-5	214.74	WF Church Cr	Church Cr	5	Snohomish	Yes
NW	995242	I-5; NB Ext 218	218	unnamed	unnamed	3	Skagit	Yes
NW	995221	I-5	218.01	unnamed	unnamed	3	Skagit	No
NW	991725	I-5	224.62	Maddox Cr	SF Skagit R	3	Skagit	Yes
NW	CR122	I-5	225.24	Martha Washington Cr	Maddox Cr	3	Skagit	Yes
NW	995227	I-5; NB	234.65	unnamed	Samish R	3	Skagit	No
NW	995228	I-5	235.65	unnamed	Samish R	3	Skagit	No
NW	995236	I-5; SB Ext 240	240.92	unnamed	Friday Cr	3	Skagit	Yes
NW	995245	I-5; NB off-ramp	240.92	unnamed	Friday Cr	3	Skagit	Yes
NW	995232	I-5; NB	240.95	unnamed	Friday Cr	3	Skagit	Yes
NW	995233	I-5; Median	240.95	unnamed	Friday Cr	3	Skagit	Yes
NW	995234	I-5; SB	240.95	unnamed	Friday Cr	3	Skagit	Yes
NW	995235	I-5; SB ROW	240.95	unnamed	Friday Cr	3	Skagit	Yes
NW	995240	I-5; SB Ext 240	240.99	unnamed	Friday Cr	3	Skagit	Yes
NW	995238	I-5; SB	241.03	unnamed	Friday Cr	3	Skagit	Yes
NW	995241	I-5; NB Ext 240	241.03	unnamed	Friday Cr	3	Skagit	Yes
NW	995246	I-5; NB Ext 240	241.1	unnamed	unnamed Friday Cr trib	3	Skagit	Yes
NW	995259	I-5; SB Ext 240	241.1	unnamed	unnamed Friday Cr trib	3	Skagit	Yes
NW	995249	I-5	242.03	unnamed	Friday Cr	3	Skagit	Yes
NW	370614	I-5	243.43	unnamed	Samish Lk	3	Whatcom	Yes
NW	FR73	I-5; SB	243.91	unnamed	Samish Lk	3	Whatcom	Yes
NW	995250	I-5; NB	243.96	unnamed	Samish Lk	3	Whatcom	Yes
NW	990025	I-5; NB	244.2	Barnes Cr	Samish Lk	3	Whatcom	Yes
NW	994501	I-5; SB	244.2	Barnes Cr	Samish Lk	3	Whatcom	Yes
NW	FR75	I-5	245.76	Lake Cr	Samish Lk	3	Whatcom	Yes
NW	995247	I-5; NB Ext 246	246	unnamed	unnamed	3	Whatcom	Yes
NW	995248	I-5; NB Ext 246	246	unnamed	unnamed	3	Whatcom	Yes
NW	995256	I-5; SB Ext 246	246.12	unnamed	Lake Cr	3	Whatcom	Yes
NW	995255	I-5; SB Ext 246	246.22	unnamed	Lake Cr	3	Whatcom	Yes
NW	995411	I-5	246.75	Chuckanut Cr	Puget Sound	1	Whatcom	Yes
NW	994233	I-5	250.55	Padden Cr	Bellingham Bay	1	Whatcom	Yes
NW	995699	I-5	251.36	unnamed	Connelly Cr	1	Whatcom	Yes

Appendix I. WSDOT Culvert Barriers Relevant to the Injunction (as of June 1, 2020)

826 barrier culverts with ≥ 200 meters habitat gain; 186 barrier culverts with <200 meters habitat gain
List sorted by WSDOT Region, Highway, and Milepost location.

WSDOT Region	Site Id	Road	Milepost	Stream	Tributary to	WRIA	County	Lineal Habitat Gain ≥ 200 meters
NW	992003	I-5; NB on-ramp	256	Spring Cr	Baker Cr	1	Whatcom	Yes
NW	990022	I-5	256.28	Baker Cr	Squalicum Cr	1	Whatcom	Yes
NW	995701	I-5	258.56	unnamed	unnamed to Silver Cr	1	Whatcom	No
NW	995703	I-5	259.08	unnamed	unnamed	1	Whatcom	No
NW	995723	I-5; NB Ext 260	260	unnamed	Silver Cr	1	Whatcom	Yes
NW	995709	I-5	260.98	unnamed	Tennant Cr	1	Whatcom	Yes
NW	995715	I-5	268.63	unnamed	California Cr	1	Whatcom	Yes
NW	995720	I-5; NB	270.14	unnamed	unnamed California Cr trib	1	Whatcom	Yes
NW	995731	I-5; SB Ext 270	270.14	unnamed	unnamed California Cr trib	1	Whatcom	Yes
NW	933400	I-5; NB; ROW	270.2	unnamed	unnamed California Cr trib	1	Whatcom	Yes
NW	995726	I-5	275.33	Cain Cr	Semiahmoo Bay	1	Whatcom	Yes
NW	933867	I-90	6.78	unnamed	Lake Washington	8	King	No
NW	994412	I-90	10.21	Richards Cr	Lake Washington	8	King	No
NW	996251	I-90	10.52	Sunset Cr	Richards Cr	8	King	Yes
NW	996478	I-90	12.75	unnamed	Lake Sammamish	8	King	Yes
NW	992798	I-90	13.83	Lewis Cr	Lake Sammamish	8	King	Yes
NW	994415	I-90	14.83	W Village Park Cr	Lake Sammamish	8	King	Yes
NW	932343	I-90	15.14	unnamed	Lake Sammamish	8	King	Yes
NW	996477	I-90; WB onramp	15.82	unnamed	Tibbetts Cr	8	King	Yes
NW	996967	I-90; WB on-ramp	15.89	unnamed	Tibbetts Cr	8	King	Yes
NW	996472	I-90	15.92	unnamed	Tibbetts trib	8	King	Yes
NW	996966	I-90; EB on-ramp	15.92	unnamed	Tibbetts trib	8	King	Yes
NW	996476	I-90; WB Off-Ramp	16.03	unnamed	Tibbetts Cr	8	King	Yes
NW	991182	I-90	16.21	unnamed	Tibbetts Cr	8	King	Yes
NW	996965	I-90	20.42	unnamed	EF Issaquah Cr	8	King	Yes
NW	932089	I-90; EB	21.82	unnamed	EF Issaquah Cr	8	King	No
NW	994410	I-90	23.13	Soderman Cr	Raging R	7	King	Yes
NW	994984	I-90	24.86	unnamed	Lake Cr	7	King	Yes
NW	934821	I-90; WB	25.68	unnamed	Lake Cr	7	King	Yes
NW	934822	I-90 WB; off-ramp	25.68	unnamed	Lake Cr	7	King	Yes
NW	934820	I-90; EB on-ramp	25.69	unnamed	Lake Cr	7	King	Yes
NW	995857	I-405; NB on-ramp	0.42	Gilliam Cr	Green R	9	King	Yes
NW	998967	I-405	0.61	Gilliam Cr	Green R	9	King	Yes
NW	995470	I-405	2.31	Rolling Hills Cr	Springbrook Cr	9	King	Yes

Appendix I. WSDOT Culvert Barriers Relevant to the Injunction (as of June 1, 2020)

826 barrier culverts with ≥ 200 meters habitat gain; 186 barrier culverts with <200 meters habitat gain

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

WSDOT Region	Site Id	Road	Milepost	Stream	Tributary to	WRIA	County	Lineal Habitat Gain ≥ 200 meters
NW	994406	I-405	3.06	Thunder Hills Cr	Rolling Hills Cr	9	King	Yes
NW	998969	I-405	4.61	unnamed	Lake Washington	8	King	No
NW	996482	I-405	5.09	Johns Cr	Lake Washington	8	King	Yes
NW	933259	I-405	7.61	unnamed	Lake Washington	8	King	Yes
NW	996032	I-405	7.62	unnamed	Lake Washington	8	King	Yes
NW	998971	I-405	7.83	unnamed	Lake Washington	8	King	Yes
NW	998972	I-405	7.9	unnamed	Lake Washington	8	King	Yes
NW	934704	I-405	8.18	unnamed	Lake Washington	8	King	No
NW	932933	I-405	10.06	unnamed	Coal Cr	8	King	Yes
NW	933258	I-405	12.03	Trail Cr	Mercer Sl	8	King	No
NW	998974	I-405; SB	12.51	Hixson Cr	Mercer Sl	8	King	No
NW	933244	I-405	13.16	Sturtevant Cr	Kelsey Cr	8	King	Yes
NW	992385	I-405	15.09	Yarrow Cr	Lake Washington	8	King	Yes
NW	998982	I-405	19.07	unnamed	Forbes Cr	8	King	No
NW	990376	I-405	19.12	Forbes Cr	Juanita Bay	8	King	Yes
NW	932812	I-405	20.49	unnamed	Juanita Cr	8	King	Yes
NW	992654	I-405	20.92	unnamed	Juanita Cr	8	King	Yes
NW	998602	I-405	21.94	Juanita Cr	Lake Washington	8	King	Yes
NW	993106	I-405	25.35	unnamed	North Cr	8	Snohomish	No
NW	08.0070 A 0.25	I-405	26.46	Perry Cr	North Cr	8	Snohomish	Yes
NW	993109	I-405	26.9	unnamed	Queensborough Cr	8	Snohomish	Yes
NW	991008	I-405; NB	27.7	Royal Anne Cr	North Cr	8	Snohomish	No
NW	998976	I-405; SB	27.76	Royal Anne Cr	North Cr	8	Snohomish	No
NW	998977	I-405; SB	27.83	unnamed	Royal Anne Cr	8	Snohomish	Yes
NW	934011	SR 9; ROW (Broadway Ave)	0.07	unnamed	unnamed Thomas Cr trib	7	Snohomish	Yes
NW	934015	SR 9; ROW (Broadway Ave)	0.12	unnamed	unnamed Thomas Cr trib	7	Snohomish	Yes
NW	102 L012	SR 9	0.17	Howell Cr	Little Bear Cr	8	Snohomish	Yes
NW	995982	SR 9	10.61	Cemetery Cr	Snohomish R	7	Snohomish	Yes
NW	995087	SR 9	12.57	Bunk Foss Cr	Pilchuck R	7	Snohomish	Yes
NW	995086	SR 9	16.66	Hulbert Cr	Ebey Sl	7	Snohomish	Yes
NW	991813	SR 9	17.75	unnamed	Stevens Cr	7	Snohomish	Yes
NW	991814	SR 9	18.79	unnamed	Lake Stevens	7	Snohomish	No
NW	995084	SR 9	22.72	unnamed	Quilceda Cr	7	Snohomish	Yes
NW	102 Q028	SR 9	24.44	unnamed	Quilceda Cr	7	Snohomish	Yes

Appendix I. WSDOT Culvert Barriers Relevant to the Injunction (as of June 1, 2020)

826 barrier culverts with ≥ 200 meters habitat gain; 186 barrier culverts with <200 meters habitat gain
List sorted by WSDOT Region, Highway, and Milepost location.

WSDOT Region	Site Id	Road	Milepost	Stream	Tributary to	WRIA	County	Lineal Habitat Gain ≥ 200 meters
NW	990255	SR 9	27.24	unnamed	Portage Cr	5	Snohomish	Yes
NW	996079	SR 9	27.94	unnamed	unnamed Portage Cr trib	5	Snohomish	Yes
NW	991166	SR 9	32.2	Bryant Cr	Armstrong Cr	5	Snohomish	Yes
NW	996080	SR 9	33.2	Roth Cr	Stillaguamish R	5	Snohomish	Yes
NW	996082	SR 9	34.23	unnamed	Pilchuck Cr	5	Snohomish	Yes
NW	LP23	SR 9	35.46	unnamed	unnamed Pilchuck Cr trib	5	Snohomish	Yes
NW	LP19	SR 9	37.26	unnamed	unnamed Pilchuck Cr trib	5	Snohomish	No
NW	996088	SR 9	38.14	unnamed	unnamed	5	Skagit	No
NW	996089	SR 9	38.27	unnamed	unnamed	5	Skagit	No
NW	LP31	SR 9	38.64	unnamed	unnamed	5	Skagit	No
NW	LP32	SR 9	38.69	unnamed	unnamed	5	Skagit	Yes
NW	991158	SR 9	38.83	unnamed	Pilchuck Cr	5	Skagit	Yes
NW	NC158	SR 9	39.16	unnamed	Lake McMurray	3	Skagit	Yes
NW	995275	SR 9	39.51	unnamed	Lake McMurray	3	Skagit	No
NW	NC180	SR 9	39.69	unnamed	Lake McMurray	3	Skagit	Yes
NW	NC170	SR 9	39.87	unnamed	Lake McMurray	3	Skagit	Yes
NW	990641	SR 9	40.08	Lake Cr	Lake McMurray	3	Skagit	Yes
NW	NC166	SR 9	40.77	unnamed	Lake McMurray	3	Skagit	Yes
NW	990091	SR 9	41.04	Norway Park Cr	Lake McMurray	3	Skagit	Yes
NW	991451	SR 9	41.5	unnamed	Lake Cr	3	Skagit	No
NW	NC164	SR 9	41.93	unnamed	Lake Cr	3	Skagit	Yes
NW	NC163	SR 9	43.08	unnamed	Lake Cr	3	Skagit	Yes
NW	NC69	SR 9	49	unnamed	Nookachamps Cr	3	Skagit	Yes
NW	HC53	SR 9	59.08	unnamed	unnamed	3	Skagit	Yes
NW	HC93	SR 9	59.46	unnamed	Hansen Cr	3	Skagit	Yes
NW	991114	SR 9	62.36	unnamed	Samish R	3	Skagit	Yes
NW	SR71	SR 9	63.74	unnamed	Samish R	3	Skagit	Yes
NW	SR67	SR 9	64.45	unnamed	Samish R	3	Skagit	No
NW	991135	SR 9	64.68	unnamed	Samish R	3	Skagit	No
NW	995390	SR 9	64.93	unnamed	Samish R	3	Skagit	No
NW	991136	SR 9	65.07	unnamed	Samish R	3	Skagit	No
NW	991116	SR 9	65.32	unnamed	Samish R	3	Skagit	Yes
NW	991446	SR 9	66.51	unnamed	Samish R	3	Skagit	No
NW	991447	SR 9	66.85	unnamed	Samish R	3	Whatcom	Yes

Appendix I. WSDOT Culvert Barriers Relevant to the Injunction (as of June 1, 2020)

826 barrier culverts with ≥ 200 meters habitat gain; 186 barrier culverts with <200 meters habitat gain

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

WSDOT Region	Site Id	Road	Milepost	Stream	Tributary to	WRIA	County	Lineal Habitat Gain ≥ 200 meters
NW	995392	SR 9	67.46	unnamed	Samish R	3	Whatcom	No
NW	995395	SR 9	69.1	unnamed	Samish R	3	Whatcom	No
NW	995396	SR 9	69.15	unnamed	Samish R	3	Whatcom	No
NW	930834	SR 9	69.87	unnamed	Samish R	3	Whatcom	Yes
NW	995398	SR 9	69.88	unnamed	Samish R	3	Whatcom	Yes
NW	991106	SR 9	70.6	unnamed	Landingstrip Cr	3	Whatcom	Yes
NW	995780	SR 9	70.81	unnamed	SF Nooksack R	1	Whatcom	No
NW	995783	SR 9	71.54	unnamed	SF Nooksack R	1	Whatcom	No
NW	992344	SR 9	76.95	unnamed	Black Sl	1	Whatcom	Yes
NW	992345	SR 9	77.12	unnamed	Black Sl	1	Whatcom	Yes
NW	995790	SR 11	8.66	unnamed	Samish Bay	1	Skagit	Yes
NW	995796	SR 11	18.47	unnamed	Chuckanut Cr	1	Whatcom	Yes
NW	990581	SR 11	18.65	Hoags Cr	Chuckanut Cr	1	Whatcom	Yes
NW	994386	SR 11	21.08	Padden Cr	Bellingham Bay	1	Whatcom	Yes
NW	996277	SR 18	0.29	unnamed	EF Hylebos Cr	10	King	Yes
NW	995298	SR 18	2.67	W Hylebos	Hylebos Cr	10	King	Yes
NW	997660	SR 18	7.51	unnamed	Big Soos Cr	9	King	Yes
NW	997661	SR 18	8	unnamed	Soosette Cr	9	King	Yes
NW	995474	SR 18	21.03	unnamed	Holder Cr	8	King	Yes
NW	990173	SR 18	22.08	Holder Cr	Issaquah Cr	8	King	Yes
NW	995970	SR 18	22.55	unnamed	unnamed Holder Cr trib	8	King	No
NW	995971	SR 18	22.75	unnamed	Holder Cr	8	King	Yes
NW	995972	SR 18	22.95	unnamed	Holder Cr	8	King	Yes
NW	995973	SR 18	23.45	unnamed	Holder Cr	8	King	Yes
NW	995974	SR 18	23.56	unnamed	unnamed Holder Cr trib	8	King	Yes
NW	994859	SR 18	23.66	unnamed	Deep Cr	7	King	Yes
NW	934783	SR 18; ROW	24.24	unnamed	Deep Cr	7	King	Yes
NW	994860	SR 18	24.24	unnamed	Deep Cr	7	King	Yes
NW	934882	SR 18	24.42	unnamed	Deep Cr	7	King	No
NW	934791	SR 18	25.67	unnamed	Deep Cr	7	King	Yes
NW	07.0396 0.80	SR 18	25.7	Deep Cr	Raging R	7	King	Yes
NW	990236	SR 18	27.57	Lake Cr	Raging R	7	King	Yes
NW	934828	SR 18	27.83	unnamed	Lake Cr	7	King	Yes
NW	996319	SR 20; ROW	46.01	unnamed	Campbell Lk	3	Skagit	Yes

Appendix I. WSDOT Culvert Barriers Relevant to the Injunction (as of June 1, 2020)

826 barrier culverts with ≥ 200 meters habitat gain; 186 barrier culverts with <200 meters habitat gain

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

WSDOT Region	Site Id	Road	Milepost	Stream	Tributary to	WRIA	County	Lineal Habitat Gain ≥ 200 meters
NW	996320	SR 20	46.1	unnamed	Campbell Lk	3	Skagit	Yes
NW	995423	SR 20	48.08	unnamed	Fidalgo Bay	3	Skagit	Yes
NW	995424	SR 20	48.12	unnamed	Fidalgo Bay	3	Skagit	Yes
NW	995425	SR 20	48.17	unnamed	Fidalgo Bay	3	Skagit	Yes
NW	SF49	SR 20	61.26	Gages Sl	Skagit R	3	Skagit	Yes
NW	991142	SR 20	69.08	unnamed	Red Cr	3	Skagit	Yes
NW	991547	SR 20	70.24	unnamed	Coal Cr	3	Skagit	Yes
NW	991146	SR 20	72.85	Childs Cr	Skagit R	3	Skagit	Yes
NW	995436	SR 20	78.01	unnamed	Carey's Lk	3	Skagit	No
NW	991123	SR 20	80.1	unnamed	Skagit R	3	Skagit	Yes
NW	991445	SR 20	85.63	unnamed	unnamed	4	Skagit	Yes
NW	997396	SR 20	85.94	unnamed	House Cr	4	Skagit	Yes
NW	997398	SR 20	86.86	unnamed	Skagit R	4	Skagit	Yes
NW	GR54	SR 20	87.01	Eagle Cr	Skagit R	4	Skagit	Yes
NW	991150	SR 20	87.2	Eagle Cr	Skagit R	4	Skagit	Yes
NW	991151	SR 20	87.31	Eagle Cr	Skagit R	4	Skagit	Yes
NW	GR9	SR 20	87.7	Fish Cr	Lorenzan Cr	4	Skagit	Yes
NW	GR23	SR 20	88.83	Lorenzan Cr	Skagit R	4	Skagit	Yes
NW	JK2	SR 20	91.3	unnamed	Skagit R	4	Skagit	Yes
NW	991707	SR 20	93.21	unnamed	Skagit R	4	Skagit	No
NW	991709	SR 20	93.7	unnamed	Skagit R	4	Skagit	No
NW	991710	SR 20	93.84	unnamed	Skagit R	4	Skagit	Yes
NW	994308	SR 20	94.47	unnamed	Skagit R	4	Skagit	Yes
NW	991125	SR 20	94.68	unnamed	Skagit R	4	Skagit	No
NW	991126	SR 20	94.82	unnamed	Skagit R	4	Skagit	Yes
NW	990410	SR 20	99.95	Sutter Cr	Skagit R	4	Skagit	Yes
NW	995097	SR 20	105.34	Backus Cr	Skagit R	4	Skagit	No
NW	CD18	SR 20	105.42	Olson Cr	Skagit R	4	Skagit	Yes
NW	994941	SR 20	111.64	unnamed	Skagit R	4	Skagit	Yes
NW	991131	SR 20	112.9	unnamed	Skagit R	4	Skagit	Yes
NW	994947	SR 20	114.71	unnamed	Skagit R	4	Skagit	No
NW	DM7	SR 20	116.25	unnamed	Skagit R	4	Skagit	Yes
NW	991452	SR 20	118.41	Babcock Cr	Skagit R	4	Whatcom	No
NW	995430	SR 20; SPUR	50.48	unnamed	Fidalgo Bay	3	Skagit	Yes

Appendix I. WSDOT Culvert Barriers Relevant to the Injunction (as of June 1, 2020)

826 barrier culverts with ≥ 200 meters habitat gain; 186 barrier culverts with <200 meters habitat gain

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

WSDOT Region	Site Id	Road	Milepost	Stream	Tributary to	WRIA	County	Lineal Habitat Gain ≥ 200 meters
NW	933175	SR 20 Spur	53.53	unnamed	Gumes Channel	3	Skagit	Yes
NW	992641	SR 92	0.22	unnamed	Stevens Cr	7	Snohomish	Yes
NW	991827	SR 92	0.78	Lundeen Cr	Lake Stevens	7	Snohomish	Yes
NW	991830	SR 92	2.2	unnamed	Catherine Cr	7	Snohomish	No
NW	991831	SR 92	2.99	unnamed	Little Pilchuck Cr	7	Snohomish	Yes
NW	102 N183	SR 96	0.47	North Cr	Sammamish R	8	Snohomish	Yes
NW	995326	SR 96	5.29	Thomas Cr	Marshland Sl	7	Snohomish	Yes
NW	995214	SR 96	5.86	unnamed	unnamed to Snohomish R	7	Snohomish	Yes
NW	995215	SR 96	5.98	unnamed	unnamed to Snohomish R	7	Snohomish	Yes
NW	995216	SR 96	6.09	unnamed	Snohomish R	7	Snohomish	Yes
NW	995217	SR 96	6.49	unnamed	Marshland Sl	7	Snohomish	Yes
NW	991196	SR 99	13.54	McSorley Cr	Puget Sound	9	King	Yes
NW	997684	SR 99	23.41	unnamed	Duwamish R	9	King	Yes
NW	997685	SR 99	24.71	NF Hamm Cr	Duwamish R	9	King	Yes
NW	997687	SR 99	24.86	NF Hamm Cr	Duwamish R	9	King	Yes
NW	993095	SR 99	47.66	Scriber Cr	Swamp Cr	8	Snohomish	Yes
NW	996216	SR 99	49.01	unnamed	Scriber Cr	8	Snohomish	Yes
NW	993849	SR 99	51.45	unnamed	Swamp Cr	8	Snohomish	Yes
NW	102 N192	SR 99	54.23	North Cr	Sammamish R	8	Snohomish	Yes
NW	990111	SR 104	25.52	Willow Cr	Shelleberger Cr	8	Snohomish	Yes
NW	996208	SR 104	29.23	unnamed	Lake Ballinger	8	Snohomish	No
NW	990653	SR 104	30.67	unnamed	Lyon Cr	8	King	Yes
NW	990253	SR 104	31.23	Lyon Cr	Lake Washington	8	King	Yes
NW	991623	SR 104	31.73	unnamed	Lyon Cr	8	King	Yes
NW	105 S011918a	SR 161	34.03	unnamed	Hylebos Cr	10	King	Yes
NW	997974	SR 161	34.14	unnamed	unnamed Hylebos Cr trib	10	King	Yes
NW	992062	SR 161	34.71	unnamed	Hylebos Cr	10	King	Yes
NW	992064	SR 161	35.01	unnamed	EF Hylebos Cr	10	King	Yes
NW	992360	SR 164	5.89	unnamed	White R	10	King	Yes
NW	996279	SR 164	7.01	unnamed	White R	10	King	No
NW	105 R042117a	SR 164	8.24	Pussyfoot Cr	White R	10	King	Yes
NW	991213	SR 164	9.06	Seconds Cr	White R	10	King	Yes
NW	996281	SR 164	10.65	unnamed	unnamed	10	King	No
NW	991839	SR 164	13.34	unnamed	Newaukum Cr	9	King	Yes

Appendix I. WSDOT Culvert Barriers Relevant to the Injunction (as of June 1, 2020)

826 barrier culverts with ≥ 200 meters habitat gain; 186 barrier culverts with <200 meters habitat gain

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

WSDOT Region	Site Id	Road	Milepost	Stream	Tributary to	WRIA	County	Lineal Habitat Gain ≥ 200 meters
NW	991198	SR 167	21.17	Mill Cr	Springbrook Cr	9	King	Yes
NW	995469	SR 167	22.63	unnamed	Springbrook Cr	9	King	No
NW	991681	SR 167	23.84	unnamed	Springbrook Cr	9	King	Yes
NW	933530	SR 167	23.93	unnamed	unnamed Springbrook Cr trib	9	King	Yes
NW	991200	SR 167	24.16	unnamed	Springbrook Cr	9	King	No
NW	991202	SR 167	25.94	Rolling Hills Cr	Springbrook Cr	9	King	Yes
NW	935056	SR 169	7.1	Rock Cr	Jones Lk	9	King	Yes
NW	997691	SR 169	7.15	Unnamed	Jones Lk	9	King	Yes
NW	997692	SR 169	7.25	unnamed	Jones Lk	9	King	Yes
NW	997693	SR 169	8.27	unnamed	Ginder Cr	9	King	Yes
NW	997694	SR 169	8.29	Ginder Cr	Rock Cr	9	King	Yes
NW	997695	SR 169	9.95	Ravensdale Cr	Lake Sawyer	9	King	Yes
NW	996492	SR 169	17.92	unnamed	Cedar R	8	King	Yes
NW	996493	SR 169	18.06	unnamed	Cedar R	8	King	No
NW	996514	SR 169; ROW	18.06	unnamed	Cedar R	8	King	No
NW	996494	SR 169	18.48	unnamed	Cedar R	8	King	Yes
NW	996500	SR 169	19.82	unnamed	Cedar R	8	King	No
NW	996917	SR 202	0.97	unnamed	Sammamish R	8	King	No
NW	996930	SR 202; ROW	1.03	unnamed	Sammamish R	8	King	No
NW	996921	SR 202	4.17	unnamed	Sammamish R	8	King	Yes
NW	996925	SR 202	4.25	High School Cr	Sammamish R	8	King	Yes
NW	991181	SR 202	5.27	unnamed	Sammamish R	8	King	No
NW	990142	SR 202	11.96	Evans Cr	Bear Cr	8	King	Yes
NW	990325	SR 202	13.22	Patterson Cr	Snoqualmie R	7	King	Yes
NW	995194	SR 202	16.79	unnamed	Patterson Cr	7	King	Yes
NW	991174	SR 202	19.69	unnamed	Patterson Cr	7	King	Yes
NW	991173	SR 202	19.76	unnamed	Patterson Cr	7	King	Yes
NW	101S-22	SR 202	22.56	unnamed	Snoqualmie R	7	King	Yes
NW	101SA-06	SR 202	23.18	Skunk Cr	Snoqualmie R	7	King	Yes
NW	995200	SR 202	23.22	unnamed	Skunk Cr	7	King	Yes
NW	101S-10	SR 202	23.45	Mud Cr	Snoqualmie R	7	King	Yes
NW	101L-01	SR 203	3.97	unnamed	Griffin Cr	7	King	No
NW	991720	SR 203	4.37	unnamed	Snoqualmie R	7	King	Yes
NW	991721	SR 203	4.91	Indian Cr	Langlois Cr	7	King	Yes

Appendix I. WSDOT Culvert Barriers Relevant to the Injunction (as of June 1, 2020)

826 barrier culverts with ≥ 200 meters habitat gain; 186 barrier culverts with <200 meters habitat gain

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

WSDOT Region	Site Id	Road	Milepost	Stream	Tributary to	WRIA	County	Lineal Habitat Gain ≥ 200 meters
NW	995167	SR 203	7.26	unnamed	Horseshoe Lk	7	King	Yes
NW	995178	SR 203	11.61	unnamed	unnamed	7	King	Yes
NW	991716	SR 203	13.6	Loutsis Cr	Snoqualmie R	7	King	Yes
NW	995184	SR 203	18.19	unnamed	Snoqualmie R	7	Snohomish	No
NW	995186	SR 203	18.48	unnamed	Snoqualmie R	7	Snohomish	No
NW	995137	SR 204	0.21	unnamed	unnamed to Ebey Sl	7	Snohomish	Yes
NW	995138	SR 204	0.54	unnamed	Ebey Sl	7	Snohomish	Yes
NW	995141	SR 204	0.96	unnamed	Ebey Sl	7	Snohomish	Yes
NW	995150	SR 204	1.19	Burri Cr	Ebey Sl	7	Snohomish	Yes
NW	995152	SR 204	1.8	Weiser Cr	Ebey Sl	7	Snohomish	Yes
NW	991204	SR 410	22.67	unnamed	Boise Cr	10	King	Yes
NW	991206	SR 410	22.94	unnamed	Boise Cr	10	King	Yes
NW	990474	SR 410	25.17	Watercress Cr	Newaukum Cr	9	King	Yes
NW	996622	SR 410	31.48	unnamed	Scatter Cr	10	King	Yes
NW	990082	SR 410	35.77	Clay Cr	White R	10	King	Yes
NW	991219	SR 410	39.18	unnamed	White R	10	King	No
NW	105 R022221a	SR 410	41.42	unnamed	White R	10	King	Yes
NW	105 R071916a	SR 410	48.29	Boundary Cr	White R	10	Pierce	Yes
NW	996671	SR 410	53.01	unnamed	White R	10	Pierce	Yes
NW	105 R072018a	SR 410	59.57	unnamed	White R	10	Pierce	No
NW	996266	SR 509	9.18	unnamed	Puget Sound	10	King	Yes
NW	991651	SR 509	9.6	unnamed	Puget Sound	10	King	No
NW	996270	SR 509	10.96	Lakota Cr	Puget Sound	10	King	Yes
NW	996272	SR 509	11.43	unnamed	Lakota Cr	10	King	Yes
NW	991192	SR 509	13.49	unnamed	Puget Sound	9	King	Yes
NW	997675	SR 509; SR 99	14.2	Redondo Cr	Poverty Bay	9	King	Yes
NW	997679	SR 509	24.42	Miller Cr	Puget Sound	9	King	Yes
NW	997681	SR 509	29.15	Lost Fork Hamm Cr	Duwamish R	9	King	No
NW	997645	SR 515	3.97	Panther Cr	Springbrook Cr	9	King	Yes
NW	994409	SR 515	7.08	Rolling Hills Cr	Springbrook Cr	9	King	Yes
NW	991191	SR 516	0.43	Barnes Cr	Massey Cr	9	King	Yes
NW	997649	SR 516	2.98	unnamed	Green R	9	King	Yes
NW	997651	SR 516	5.8	Mill Cr	Springbrook Cr	9	King	Yes
NW	998886	SR 518	2.82	Gilliam Cr	Green R	9	King	Yes

Appendix I. WSDOT Culvert Barriers Relevant to the Injunction (as of June 1, 2020)

826 barrier culverts with ≥ 200 meters habitat gain; 186 barrier culverts with <200 meters habitat gain

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

WSDOT Region	Site Id	Road	Milepost	Stream	Tributary to	WRIA	County	Lineal Habitat Gain ≥ 200 meters
NW	992651	SR 518	3	unnamed	Gilliam Cr	9	King	No
NW	997697	SR 518	3.57	unnamed	unnamed	9	King	No
NW	994117	SR 520	5.42	unnamed	Lake Washington	8	King	No
NW	990167	SR 520	7.9	Goff Cr	WF Kelsey Cr	8	King	Yes
NW	990430	SR 522	2.86	Thornton Cr	Lake Washington	8	King	Yes
NW	990655	SR 522	6.63	Cat Whisker Cr	Lake Washington	8	King	Yes
NW	993083	SR 522	11.26	Par Cr	Sammamish R	8	King	Yes
NW	996880	SR 522; ROW	12.86	unnamed	Little Bear Cr	8	King	Yes
NW	996916	SR 522	12.86	unnamed	Little Bear Cr	8	King	Yes
NW	996913	SR 522	13.63	unnamed	Little Bear Cr	8	Snohomish	Yes
NW	994430	SR 522	14.25	Howell Cr	Little Bear Cr	8	Snohomish	Yes
NW	994432	SR 522	14.38	unnamed	Howell Cr	8	Snohomish	No
NW	994440	SR 522	16.57	Daniels Cr	Cottage Lake Cr	8	Snohomish	Yes
NW	992371	SR 522	17.48	unnamed	Evans Cr	7	Snohomish	Yes
NW	992632	SR 522	17.82	unnamed	Evans Cr	7	Snohomish	Yes
NW	992631	SR 522	17.87	unnamed	Evans Cr	7	Snohomish	Yes
NW	934276	SR 522	18.77	unnamed	unnamed Evans Cr trib	7	Snohomish	Yes
NW	992378	SR 522	19.28	Anderson Cr	Evans Cr	7	Snohomish	Yes
NW	992381	SR 522	19.35	unnamed	Anderson Cr	7	Snohomish	Yes
NW	990139	SR 522	20.19	Elliott Cr	Snohomish R	7	Snohomish	Yes
NW	931850	SR 522	21.82	unnamed	unnamed	7	Snohomish	No
NW	996915	SR 523	1.24	Littles Cr	Thornton Cr	8	King	Yes
NW	993103	SR 524	3.89	Scriber Cr	Swamp Cr	8	Snohomish	Yes
NW	992846	SR 524	5.54	Golde Cr	Scriber Cr	8	Snohomish	Yes
NW	993100	SR 524	6.95	Martha Cr	Swamp Cr	8	Snohomish	Yes
NW	991053	SR 524	8.06	unnamed	North Cr	8	Snohomish	No
NW	996460	SR 524	14.28	Daniels Cr	Cottage Lk Cr	8	Snohomish	Yes
NW	994124	SR 524	14.4	Daniels Cr	Cottage Lk Cr	8	Snohomish	Yes
NW	994123	SR 524	14.52	Daniels Cr	Cottage Lk Cr	8	Snohomish	Yes
NW	996205	SR 524; SPUR	0.21	Shelleberger Cr	Puget Sound	8	Snohomish	Yes
NW	102 S088	SR 525	0.28	Maple Cr	Swamp Cr	8	Snohomish	Yes
NW	991176	SR 525	1.1	Box Springs Cr	Swamp Cr	8	Snohomish	Yes
NW	991054	SR 525	2.05	unnamed	Swamp Cr	8	Snohomish	Yes
NW	996203	SR 525	7.56	unnamed	Possession Bay	8	Snohomish	No

Appendix I. WSDOT Culvert Barriers Relevant to the Injunction (as of June 1, 2020)

826 barrier culverts with ≥ 200 meters habitat gain; 186 barrier culverts with <200 meters habitat gain

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

WSDOT Region	Site Id	Road	Milepost	Stream	Tributary to	WRIA	County	Lineal Habitat Gain ≥ 200 meters
NW	995994	SR 525	9.14	Clinton Cr	Puget Sound	6	Island	Yes
NW	995986	SR 525	9.54	Clinton Cr	Puget Sound	6	Island	Yes
NW	995984	SR 525	9.7	Clinton Cr	Puget Sound	6	Island	Yes
NW	995992	SR 525	11.99	Maxwelton Cr	Useless Bay	6	Island	Yes
NW	991805	SR 525	15.03	unnamed	Deer Lagoon	6	Island	Yes
NW	995126	SR 526	0.77	Japanese Gulch Cr	Possession Sound	7	Snohomish	Yes
NW	993084	SR 527	2.76	Queensborough Cr	North Cr	8	Snohomish	Yes
NW	08.0077	SR 527	6.55	Penny Cr	North Cr	8	Snohomish	Yes
NW	990294	SR 528	2.51	Munson Cr	Allen Cr	7	Snohomish	Yes
NW	934372	SR 529 SB	6	unnamed	Steamboat Sl	7	Snohomish	No
NW	991159	SR 530	24.65	Trafton Cr	NF Stillaguamish R	5	Snohomish	Yes
NW	990629	SR 530	25.74	unnamed	Schoolyard Cr	5	Snohomish	Yes
NW	996092	SR 530	25.88	unnamed	Schoolyard Cr	5	Snohomish	No
NW	990628	SR 530	26.29	unnamed	Schoolyard	5	Snohomish	Yes
NW	991161	SR 530	26.4	unnamed	unnamed	5	Snohomish	No
NW	990632	SR 530	26.68	unnamed	NF Stillaguamish R	5	Snohomish	Yes
NW	990633	SR 530	26.87	unnamed	NF Stillaguamish R	5	Snohomish	Yes
NW	990630	SR 530	27.46	unnamed	NF Stillaguamish R	5	Snohomish	Yes
NW	990634	SR 530	27.66	unnamed	NF Stillaguamish R	5	Snohomish	No
NW	990361	SR 530	27.75	Ryan Falls Cr	Stillaguamish R	5	Snohomish	No
NW	990638	SR 530	30.67	unnamed	McGovern Cr	5	Snohomish	No
NW	990644	SR 530	31.01	unnamed	NF Stillaguamish R	5	Snohomish	Yes
NW	991164	SR 530	32.51	unnamed	NF Stillaguamish R	5	Snohomish	No
NW	990639	SR 530	34.3	unnamed	NF Stillaguamish R	5	Snohomish	No
NW	990646	SR 530	34.7	unnamed	NF Stillaguamish R	5	Snohomish	Yes
NW	996100	SR 530	35.06	unnamed	NF Stillaguamish R	5	Snohomish	No
NW	990640	SR 530	35.24	unnamed	Montague Cr	5	Snohomish	Yes
NW	995402	SR 530	36.67	unnamed	NF Stillaguamish R	5	Snohomish	No
NW	990649	SR 530	38.53	unnamed	NF Stillaguamish R	5	Snohomish	Yes
NW	990650	SR 530	38.6	unnamed	NF Stillaguamish R	5	Snohomish	No
NW	990246	SR 530	42.14	Little French Cr	NF Stillaguamish R	5	Snohomish	Yes
NW	990652	SR 530	43.34	unnamed	NF Stillaguamish R	5	Snohomish	Yes
NW	997712	SR 530	64.41	unnamed	Hilt Cr	4	Skagit	No
NW	990885	SR 530	66.5	unnamed	Skagit R	4	Skagit	Yes

Appendix I. WSDOT Culvert Barriers Relevant to the Injunction (as of June 1, 2020)

826 barrier culverts with ≥ 200 meters habitat gain; 186 barrier culverts with <200 meters habitat gain

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

WSDOT Region	Site Id	Road	Milepost	Stream	Tributary to	WRIA	County	Lineal Habitat Gain ≥ 200 meters
NW	991750	SR 531	2.61	Fish Cr	Portage Cr	5	Snohomish	Yes
NW	991057	SR 531	8.37	unnamed	Edgecomb Cr	7	Snohomish	No
NW	995208	SR 531	9.68	unnamed	Prairie Cr	7	Snohomish	Yes
NW	990080	SR 532	6.68	unnamed	Church Cr	5	Snohomish	Yes
NW	CR2	SR 534	0.53	unnamed	Carpenter Cr	3	Skagit	Yes
NW	995265	SR 534; ROW	0.6	unnamed	Carpenter Cr	3	Skagit	Yes
NW	PA2	SR 536	2.07	unnamed	unnamed Higgins Sl trib	3	Skagit	No
NW	NC129	SR 538	2.18	Logan Cr	Nookachamps Cr	3	Skagit	Yes
NW	992987	SR 539	0.04	Baker Cr	Squalicum Cr	1	Whatcom	Yes
NW	990015	SR 539	0.3	Spring Cr	Baker Cr	1	Whatcom	Yes
NW	991973	SR 539; ROW	0.3	WF Springs Cr	Spring Cr	1	Whatcom	Yes
NW	991473	SR 539	11.1	Duffner Ditch	Bertrand Cr	1	Whatcom	Yes
NW	991803	SR 542	2.4	Toad Lk Cr	Squalicum Cr	1	Whatcom	Yes
NW	990014	SR 542	3.45	Squalicum Cr	Bellingham Bay	1	Whatcom	Yes
NW	991111	SR 542	13.47	unnamed	Mitchell Cr	1	Whatcom	Yes
NW	990584	SR 542	15.05	unnamed	Jim Cr	1	Whatcom	Yes
NW	990585	SR 542	15.08	unnamed	Jim Cr	1	Whatcom	Yes
NW	990588	SR 542	15.97	unnamed	NF Nooksack R	1	Whatcom	Yes
NW	995776	SR 542	16.21	unnamed	unnamed	1	Whatcom	No
NW	991107	SR 542	16.28	unnamed	Nooksack R	1	Whatcom	No
NW	995777	SR 542	17.37	unnamed	NF Nooksack R	1	Whatcom	Yes
NW	990589	SR 542	17.85	unnamed	NF Nooksack R	1	Whatcom	No
NW	991112	SR 542	19.6	unnamed	NF Nooksack R	1	Whatcom	Yes
NW	991704	SR 542	20.1	unnamed	NF Nooksack R	1	Whatcom	No
NW	991705	SR 542	21.45	unnamed	Kendall Cr	1	Whatcom	Yes
NW	991113	SR 542	23.95	unnamed	High Cr	1	Whatcom	Yes
NW	995770	SR 542	24.25	unnamed	High Cr	1	Whatcom	Yes
NW	990577	SR 542	24.49	unnamed	High Cr	1	Whatcom	Yes
NW	990590	SR 542	26.25	unnamed	NF Nooksack R	1	Whatcom	No
NW	991640	SR 542	27.2	unnamed	Nooksack R	1	Whatcom	Yes
NW	995409	SR 542	28.87	unnamed	NF Nooksack R	1	Whatcom	Yes
NW	990580	SR 542	29.02	unnamed	NF Nooksack R	1	Whatcom	No
NW	990598	SR 542	31.57	unnamed	NF Nooksack R	1	Whatcom	Yes
NW	990600	SR 542	32.08	unnamed	Hedrick Cr	1	Whatcom	Yes

Appendix I. WSDOT Culvert Barriers Relevant to the Injunction (as of June 1, 2020)

826 barrier culverts with ≥ 200 meters habitat gain; 186 barrier culverts with <200 meters habitat gain

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

WSDOT Region	Site Id	Road	Milepost	Stream	Tributary to	WRIA	County	Lineal Habitat Gain ≥ 200 meters
NW	990602	SR 542	34.49	unnamed	NF Nooksack R	1	Whatcom	Yes
NW	990604	SR 542	38.15	Deerhorn Cr	NF Nooksack R	1	Whatcom	No
NW	930309	SR 543	0.12	Cain Cr	Semiahmoo Bay	1	Whatcom	Yes
NW	996168	SR 544	3.51	unnamed	Four Mile Cr	1	Whatcom	Yes
NW	931144	SR 546	0.17	Duffner Ditch	Bertrand Cr	1	Whatcom	Yes
NW	990510	SR 546	0.46	Double Ditch	Fishtrap Cr	1	Whatcom	Yes
NW	996161	SR 546	0.47	Double Ditch	Fishtrap Cr	1	Whatcom	Yes
NW	996163	SR 546	1.47	unnamed	Fishtrap Cr	1	Whatcom	Yes
NW	996164	SR 546	2.01	unnamed	Fishtrap Cr	1	Whatcom	Yes
NW	990223	SR 546	4.21	Kamm Ditch	Nooksack R	1	Whatcom	Yes
NW	996167	SR 546	6.02	unnamed	Squaw Cr	1	Whatcom	Yes
NW	995774	SR 547	6.71	unnamed	Saar Cr	1	Whatcom	Yes
NW	996003	SR 548	0.29	unnamed	California Cr	1	Whatcom	Yes
NW	996006	SR 548	0.87	unnamed	California Cr	1	Whatcom	Yes
NW	996007	SR 548	1.14	unnamed	unnamed California Cr trib	1	Whatcom	Yes
NW	996008	SR 548	1.24	unnamed	California Cr	1	Whatcom	Yes
NW	996142	SR 548	4.27	unnamed	Fingelson Cr	1	Whatcom	No
NW	996148	SR 548	6.76	unnamed	Terrell Cr	1	Whatcom	Yes
NW	996149	SR 548	8.11	unnamed	Terrell Cr	1	Whatcom	Yes
NW	996153	SR 548	10.55	unnamed	California Cr	1	Whatcom	Yes
NW	996156	SR 548	13.8	Cain Cr	Semiahmoo Bay	1	Whatcom	Yes
NW	991702	SR 900	18.59	May Cr	Lake Washington	8	King	Yes
NW	990432	SR 900	19.14	unnamed	Tibbetts Cr	8	King	No
NW	991185	SR 900	19.4	unnamed	Tibbetts Cr	8	King	No
NW	990433	SR 900	19.5	Tibbetts Cr	Lake Sammamish	8	King	Yes
NW	932426	US 2, WB on-ramp	5.02	Bunk Foss Cr	Pilchuck R	7	Snohomish	Yes
NW	932428	US 2	5.18	Bunk Foss Cr	Pilchuck R	7	Snohomish	Yes
NW	995101	US 2	6.23	Bunk Foss Cr	Pilchuck R	7	Snohomish	Yes
NW	995108	US 2	12.94	unnamed	French Cr	7	Snohomish	Yes
NW	101NORT-01	US 2	15.74	unnamed	Skykomish R	7	Snohomish	Yes
NW	101NORT-32	US 2	20.48	unnamed	unnamed to Skykomish R	7	Snohomish	Yes
NW	101NORT-33	US 2	20.53	unnamed	Skykomish R	7	Snohomish	Yes
NW	101OWEN-02	US 2	21.74	Groeneveld Cr	Skykomish R	7	Snohomish	Yes
NW	991822	US 2	34.36	unnamed	Skykomish R	7	Snohomish	Yes

Appendix I. WSDOT Culvert Barriers Relevant to the Injunction (as of June 1, 2020)

826 barrier culverts with ≥ 200 meters habitat gain; 186 barrier culverts with <200 meters habitat gain
List sorted by WSDOT Region, Highway, and Milepost location.

WSDOT Region	Site Id	Road	Milepost	Stream	Tributary to	WRIA	County	Lineal Habitat Gain ≥ 200 meters
NW	991825	US 2	36.73	unnamed	SF Skykomish R	7	Snohomish	No
NW	995000	US 2	45.47	unnamed	SF Skykomish R	7	King	Yes
NW	995002	US 2	48.78	unnamed	SF Skykomish R	7	King	No
NW	934093	US 2; ROW	48.82	unnamed	SF Skykomish R	7	King	No
NW	995020	US 2	48.94	unnamed	SF Skykomish R	7	King	Yes
NW	995021	US 2	49.87	unnamed	SF Skykomish R	7	King	Yes
NW	995062	US 2	52.39	unnamed	Tye R	7	King	No
NW	995023	US 2	52.7	unnamed	Tye R	7	King	Yes
OL	991040	I-5	86.2	unnamed	Chehalis R	23	Thurston	Yes
OL	991499	I-5	94.57	unnamed	Beaver Cr	23	Thurston	Yes
OL	991659	I-5	98.11	unnamed	Salmon Cr	23	Thurston	Yes
OL	997706	I-5	104.13	unnamed	Deschutes R	13	Thurston	Yes
OL	990292	I-5	105.52	Moxlie Cr	Budd Inlet	13	Thurston	Yes
OL	990199	I-5	105.85	Indian Cr	Moxlie Cr	13	Thurston	Yes
OL	998888	I-5	109.19	College Cr	Woodland Cr	13	Thurston	No
OL	997705	I-5	109.62	College Cr	Woodland Cr	13	Thurston	Yes
OL	933313	I-5; NB	115.77	unnamed	unnamed Red Salmon Cr trib	11	Pierce	No
OL	933186	I-5	134.33	unnamed	Puyallup R	10	Pierce	No
OL	997231	SR 3	2.11	unnamed	Goldsburrough Cr	14	Mason	No
OL	997235	SR 3	4.67	unnamed	Oakland Bay	14	Mason	Yes
OL	997365	SR 3	7.16	unnamed	Oakland Bay	14	Mason	Yes
OL	997368	SR 3	7.59	unnamed	Oakland Bay	14	Mason	Yes
OL	997369	SR 3	7.96	unnamed	Oakland Bay	14	Mason	No
OL	997371	SR 3	8.28	unnamed	Oakland Bay	14	Mason	Yes
OL	991987	SR 3	21.29	unnamed	Case Inlet	14	Mason	No
OL	991795	SR 3	23.94	unnamed	Devereaux Cr	14	Mason	Yes
OL	996734	SR 3	25.15	unnamed	Hood Canal	15	Mason	Yes
OL	991797	SR 3	25.31	Sweetwater Cr	Hood Canal	15	Mason	Yes
OL	999626	SR 3	26.26	Mindy Cr	Union R	15	Mason	Yes
OL	991991	SR 3	26.4	unnamed	Union R	15	Mason	Yes
OL	991728	SR 3	29.63	unnamed	Union R	15	Kitsap	Yes
OL	996508	SR 3	31.36	Ostrich Cr	Ostrich Bay	15	Kitsap	Yes
OL	990168	SR 3	32.1	Gorst Cr	Sinclair Inlet	15	Kitsap	Yes
OL	991585	SR 3	34.27	unnamed	Gorst Cr	15	Kitsap	Yes

Appendix I. WSDOT Culvert Barriers Relevant to the Injunction (as of June 1, 2020)

826 barrier culverts with ≥ 200 meters habitat gain; 186 barrier culverts with <200 meters habitat gain
List sorted by WSDOT Region, Highway, and Milepost location.

WSDOT Region	Site Id	Road	Milepost	Stream	Tributary to	WRIA	County	Lineal Habitat Gain ≥ 200 meters
OL	991995	SR 3	36.1	Wright Cr	Sinclair Inlet	15	Kitsap	Yes
OL	991994	SR 3	36.51	unnamed	Sinclair Inlet	15	Kitsap	Yes
OL	996798	SR 3; SB on-ramp	39.13	unnamed	Dyes Inlet	15	Kitsap	Yes
OL	996796	SR 3	39.45	unnamed	Dyes Inlet	15	Kitsap	No
OL	996741	SR 3	40.37	unnamed	Dyes Inlet	15	Kitsap	Yes
OL	15.0229 0.10	SR 3	40.96	Chico Cr	Dyes Inlet	15	Kitsap	Yes
OL	991907	SR 3; Access Rd	40.97	unnamed	Chico Cr	15	Kitsap	Yes
OL	996795	SR 3; SB on-ramp	40.99	unnamed	Chico Cr	15	Kitsap	Yes
OL	996794	SR 3; SB off-ramp	41.08	unnamed	Chico Cr	15	Kitsap	Yes
OL	996742	SR 3	41.52	unnamed	Dyes Inlet	15	Kitsap	Yes
OL	996745	SR 3	41.81	unnamed	Dyes Inlet	15	Kitsap	Yes
OL	996747	SR 3	42.21	unnamed	Dyes Inlet	15	Kitsap	Yes
OL	996748	SR 3	42.56	unnamed	Dyes Inlet	15	Kitsap	Yes
OL	996856	SR 3	43.58	Koch Cr	Dyes Inlet	15	Kitsap	No
OL	990708	SR 3	44.62	unnamed	Strawberry Cr	15	Kitsap	Yes
OL	15.0246 0.96	SR 3	44.8	Strawberry Cr	Dyes Inlet	15	Kitsap	Yes
OL	993013	SR 3	46.09	unnamed	WF Clear Cr	15	Kitsap	Yes
OL	996801	SR 3	46.82	unnamed	Clear Cr	15	Kitsap	Yes
OL	996803	SR 3	47.72	unnamed	Clear Cr	15	Kitsap	Yes
OL	996804	SR 3	49.48	Big Scandia Cr	Liberty Bay	15	Kitsap	Yes
OL	991241	SR 3	50.85	SF Johnson Cr	Johnson Cr	15	Kitsap	Yes
OL	990218	SR 3	50.94	MF Johnson Cr	Liberty Bay	15	Kitsap	Yes
OL	991744	SR 3	52.21	Johnson Cr	Liberty Bay	15	Kitsap	Yes
OL	991242	SR 3	57.23	unnamed	Kinman Cr	15	Kitsap	Yes
OL	991613	SR 3	57.87	unnamed	Hood Canal	15	Kitsap	Yes
OL	991240	SR 3	58.21	unnamed	Hood Canal	15	Kitsap	Yes
OL	990395	SR 3	58.49	Spring Cr	Hood Canal	15	Kitsap	Yes
OL	991612	SR 3	59.52	unnamed	Hood Canal	15	Kitsap	Yes
OL	996811	SR 3	59.55	unnamed	unnamed	15	Kitsap	Yes
OL	997623	SR 7	28.02	unnamed	Mashel R	11	Pierce	No
OL	990686	SR 7	32.4	unnamed	Silver Lk	11	Pierce	Yes
OL	997628	SR 7	33.52	unnamed	Cranberry Lk	11	Pierce	No
OL	991225	SR 7	37.5	unnamed	South Cr	11	Pierce	Yes
OL	990688	SR 7	38.12	unnamed	South Cr	11	Pierce	Yes

Appendix I. WSDOT Culvert Barriers Relevant to the Injunction (as of June 1, 2020)

826 barrier culverts with ≥ 200 meters habitat gain; 186 barrier culverts with <200 meters habitat gain

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

WSDOT Region	Site Id	Road	Milepost	Stream	Tributary to	WRIA	County	Lineal Habitat Gain ≥ 200 meters
OL	996274	SR 7	58.34	unnamed	Commencement Bay	10	Pierce	Yes
OL	991063	SR 8	0.1	unnamed	Cloquallum Cr	22	Grays Harbor	Yes
OL	993722	SR 8	1.02	unnamed	Cloquallum Cr	22	Grays Harbor	No
OL	993723	SR 8	1.27	unnamed	Cloquallum Cr	22	Grays Harbor	Yes
OL	993727	SR 8	1.37	unnamed	unnamed to Cloquallum Cr	22	Grays Harbor	No
OL	993724	SR 8	3.16	unnamed	Wildcat Cr	22	Grays Harbor	Yes
OL	993725	SR 8	3.51	unnamed	Wildcat Cr	22	Grays Harbor	Yes
OL	991066	SR 8	3.72	unnamed pond	Wildcat Cr	22	Grays Harbor	Yes
OL	990770	SR 8	6.15	unnamed	EF Wildcat Cr	22	Grays Harbor	Yes
OL	992004	SR 8	7.27	unnamed	Sand Cr	22	Grays Harbor	Yes
OL	992005	SR 8	7.34	unnamed	Sand Cr	22	Grays Harbor	Yes
OL	990773	SR 8	9.1	unnamed	Mox Chehalis Cr	22	Grays Harbor	Yes
OL	993728	SR 8	10.12	unnamed	Mox Chehalis Cr	22	Grays Harbor	Yes
OL	993729	SR 8	10.12	unnamed	Mox Chehalis Cr	22	Grays Harbor	Yes
OL	991939	SR 16	14.63	unnamed	McCormick Cr	15	Pierce	Yes
OL	991940	SR 16	14.65	McCormick Cr	Henderson Bay	15	Pierce	Yes
OL	991941	SR 16	14.86	McCormick Cr	Henderson Bay	15	Pierce	Yes
OL	991942	SR 16	15.02	unnamed	McCormick Cr	15	Pierce	Yes
OL	934541	SR 16	15.16	unnamed	McCormick Cr	15	Pierce	Yes
OL	991944	SR 16; EB Ext 15	15.21	McCormick Cr	Henderson Bay	15	Pierce	Yes
OL	105 K051618a	SR 16	16.59	Goodhough Cr	Henderson Bay	15	Pierce	Yes
OL	15.0060 1.00	SR 16	17.8	Purdy Cr	Burley Lagoon	15	Pierce	Yes
OL	996760	SR 16	19.28	unnamed	Burley Cr	15	Kitsap	No
OL	991866	SR 16	19.54	unnamed	Burley Cr	15	Kitsap	Yes
OL	991516	SR 16	20.36	unnamed	Burley Cr	15	Kitsap	Yes
OL	991867	SR 16	20.44	unnamed	Burley Cr	15	Kitsap	Yes
OL	996752	SR 16	21.58	unnamed	Burley Cr	15	Kitsap	Yes
OL	15.0056 4.50	SR 16	22.7	Burley Cr	Henderson Bay	15	Kitsap	Yes
OL	996755	SR 16; WB on-ramp	25.24	Blackjack Cr	Sinclair Inlet	15	Kitsap	Yes
OL	990038	SR 16	25.3	Blackjack Cr	Sinclair Inlet	15	Kitsap	Yes
OL	996756	SR 16; EB off-ramp	25.3	Blackjack Cr	Sinclair Inlet	15	Kitsap	Yes
OL	996754	SR 16; EB Ext	26.61	unnamed	Ross Cr	15	Kitsap	Yes
OL	990357	SR 16	26.8	Ross Cr	Sinclair Inlet	15	Kitsap	Yes
OL	990270	SR 16	27.1	unnamed	Ross Cr	15	Kitsap	Yes

Appendix I. WSDOT Culvert Barriers Relevant to the Injunction (as of June 1, 2020)

826 barrier culverts with ≥ 200 meters habitat gain; 186 barrier culverts with <200 meters habitat gain

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

WSDOT Region	Site Id	Road	Milepost	Stream	Tributary to	WRIA	County	Lineal Habitat Gain ≥ 200 meters
OL	934154	SR 16	27.49	unnamed	Sinclair Inlet	15	Kitsap	No
OL	991670	SR 16	28.6	unnamed	Sinclair Inlet	15	Kitsap	Yes
OL	990711	SR 19	4.3	Swansonville Cr	EF Chimacum Cr	17	Jefferson	Yes
OL	991579	SR 19	6.82	unnamed	EF Chimacum Cr	17	Jefferson	Yes
OL	995743	SR 20	0.65	unnamed	Discovery Bay	17	Jefferson	Yes
OL	995748	SR 20	1.39	unnamed	Discovery Bay	17	Jefferson	No
OL	995753	SR 20	3.67	unnamed	Discovery Bay	17	Jefferson	Yes
OL	162173	SR 104	4.25	unnamed	Barnhouse Cr	17	Jefferson	Yes
OL	990375	SR 104	10.36	Shine Cr	Hood Canal	17	Jefferson	Yes
OL	162192	SR 104	12.57	unnamed	Squamish Harbor	17	Jefferson	Yes
OL	990710	SR 104	16.55	unnamed	Hood Canal	15	Kitsap	Yes
OL	992199	SR 104	17.67	Ladine DeCouteaux Cr	Port Gamble	15	Kitsap	Yes
OL	992200	SR 104	17.82	unnamed	Port Gamble	15	Kitsap	Yes
OL	992201	SR 104	19.12	unnamed	Port Gamble	15	Kitsap	Yes
OL	992202	SR 104	19.39	unnamed	Port Gamble	15	Kitsap	Yes
OL	996729	SR 104	22.23	unnamed	Grovers Cr	15	Kitsap	Yes
OL	992207	SR 104	22.95	Carpenter Cr	Appletree Cove	15	Kitsap	Yes
OL	992208	SR 104	23.37	unnamed	Appletree Cove	15	Kitsap	No
OL	991295	SR 105	31.11	unnamed	South Bay	22	Grays Harbor	Yes
OL	993007	SR 105	31.79	unnamed	South Bay	22	Grays Harbor	No
OL	990905	SR 105	36.26	unnamed	South Bay	22	Grays Harbor	No
OL	980275	SR 105	38.1	unnamed	Johns R	22	Grays Harbor	Yes
OL	980274	SR 105	38.28	unnamed	Johns R	22	Grays Harbor	No
OL	991642	SR 105	39.77	unnamed	O'Leary Cr	22	Grays Harbor	Yes
OL	991298	SR 105	40.5	unnamed	South Bay	22	Grays Harbor	Yes
OL	991302	SR 105	41.76	unnamed	Grays Harbor	22	Grays Harbor	No
OL	991297	SR 105	44.56	unnamed	Grays Harbor	22	Grays Harbor	Yes
OL	996115	SR 106	2.07	unnamed	unnamed Skokomish R trib	16	Mason	Yes
OL	996127	SR 106	3.39	unnamed	Hood Canal	16	Mason	No
OL	996383	SR 106	4.11	unnamed	Hood Canal	16	Mason	Yes
OL	997163	SR 106	5.45	unnamed	Hood Canal	14	Mason	No
OL	997176	SR 106	9.7	unnamed	Hood Canal	14	Mason	No
OL	997182	SR 106	11.57	unnamed	Hood Canal	14	Mason	Yes
OL	990450	SR 106	12.3	Twanoh Cr	Hood Canal	14	Mason	Yes

Appendix I. WSDOT Culvert Barriers Relevant to the Injunction (as of June 1, 2020)

826 barrier culverts with ≥ 200 meters habitat gain; 186 barrier culverts with <200 meters habitat gain

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

WSDOT Region	Site Id	Road	Milepost	Stream	Tributary to	WRIA	County	Lineal Habitat Gain ≥ 200 meters
OL	991245	SR 106	13.84	unnamed	Hood Canal	14	Mason	Yes
OL	997184	SR 106	14.61	unnamed	Hood Canal	14	Mason	Yes
OL	115 MC190	SR 106	14.72	Mulberg Cr	Hood Canal	14	Mason	Yes
OL	115 MC218	SR 106	19.57	Devereaux Cr	Hood Canal	14	Mason	Yes
OL	933360	SR 107	4.34	unnamed	Chehalis R	22	Grays Harbor	Yes
OL	933361	SR 107; ROW	4.34	unnamed	Chehalis R	22	Grays Harbor	Yes
OL	991727	SR 107	5.49	unnamed	Chehalis R	22	Grays Harbor	No
OL	993659	SR 108	0.18	unnamed	EF Wildcat Cr	22	Grays Harbor	No
OL	997210	SR 108	5.2	unnamed	unnamed	14	Mason	Yes
OL	991237	SR 108	5.5	unnamed	Skookum Cr	14	Mason	Yes
OL	990385	SR 108	5.54	unnamed	Skookum Cr	14	Mason	Yes
OL	991672	SR 108	7.62	unnamed	Skookum Cr	14	Mason	Yes
OL	990278	SR 108	8.89	McDonald Cr	Skookum Cr	14	Mason	Yes
OL	997224	SR 108	9.35	unnamed	Kamilche Cr	14	Mason	Yes
OL	997225	SR 108	9.47	Kamilche Cr	Skookum Cr	14	Mason	Yes
OL	990921	SR 109	2.71	unnamed	Grays Harbor	22	Grays Harbor	Yes
OL	991835	SR 109	3.41	unnamed	Grays Harbor	22	Grays Harbor	Yes
OL	991836	SR 109	4.46	unnamed	Little Hoquiam R	22	Grays Harbor	Yes
OL	990932	SR 109	6.91	unnamed	Grass Cr	22	Grays Harbor	Yes
OL	990933	SR 109	7.1	unnamed	Pacific Ocean	22	Grays Harbor	No
OL	990938	SR 109	9.77	unnamed	Gillis Sl	22	Grays Harbor	Yes
OL	990916	SR 109	11.61	Campbell Sl	Grays Harbor	22	Grays Harbor	Yes
OL	990917	SR 109	11.66	Campbell Sl	Grays Harbor	22	Grays Harbor	Yes
OL	990919	SR 109	17.81	unnamed	Connor Cr	21	Grays Harbor	Yes
OL	990920	SR 109	19.4	unnamed	Connor Cr	21	Grays Harbor	Yes
OL	997311	SR 109	21.12	unnamed	Copalis R	21	Grays Harbor	No
OL	997360	SR 109	24.23	unnamed	unnamed to Boone Cr	21	Grays Harbor	No
OL	997363	SR 109	24.56	unnamed	Boone Cr	21	Grays Harbor	Yes
OL	991265	SR 109	26.1	unnamed	Pacific Ocean	21	Grays Harbor	Yes
OL	997780	SR 109	27.05	unnamed	Pacific Ocean	21	Grays Harbor	Yes
OL	997781	SR 109	27.41	Spruce Cr	Pacific Ocean	21	Grays Harbor	No
OL	997784	SR 109	30.26	unnamed	Pacific Ocean	21	Grays Harbor	Yes
OL	997786	SR 109	31.93	unnamed	Moclips R	21	Grays Harbor	Yes
OL	991272	SR 109	33.1	Wain Cr	Pacific Ocean	21	Grays Harbor	Yes

Appendix I. WSDOT Culvert Barriers Relevant to the Injunction (as of June 1, 2020)

826 barrier culverts with ≥ 200 meters habitat gain; 186 barrier culverts with <200 meters habitat gain

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

WSDOT Region	Site Id	Road	Milepost	Stream	Tributary to	WRIA	County	Lineal Habitat Gain ≥ 200 meters
OL	991266	SR 109	33.4	unnamed	Pacific Ocean	21	Grays Harbor	Yes
OL	997787	SR 109	33.87	unnamed	Pacific Ocean	21	Grays Harbor	Yes
OL	990922	SR 109	35.73	unnamed	Pacific Ocean	21	Grays Harbor	Yes
OL	997790	SR 109	36	unnamed	Pacific Ocean	21	Grays Harbor	Yes
OL	991271	SR 109	36.38	unnamed	Pacific Ocean	21	Grays Harbor	Yes
OL	991270	SR 109	36.43	unnamed	Pacific Ocean	21	Grays Harbor	Yes
OL	990924	SR 109	37.43	unnamed	Pacific Ocean	21	Grays Harbor	Yes
OL	990927	SR 109	39.15	unnamed	Pacific Ocean	21	Grays Harbor	Yes
OL	990559	SR 112	6.95	unnamed	Strait of Juan de Fuca	19	Ciallam	Yes
OL	991259	SR 112	12.26	unnamed	Hoko R	19	Ciallam	Yes
OL	996684	SR 112	17.14	unnamed	Ciallam R	19	Ciallam	Yes
OL	996687	SR 112	17.65	unnamed	Ciallam R	19	Ciallam	No
OL	996691	SR 112	19.36	unnamed	Ciallam R	19	Ciallam	No
OL	991731	SR 112	21.1	unnamed	Green Cr	19	Ciallam	Yes
OL	996694	SR 112	21.64	unnamed	unnamed	19	Ciallam	No
OL	996578	SR 112; Maint Yard	22.99	unnamed	Green Cr	19	Ciallam	No
OL	996552	SR 112	23.07	unnamed	Green Cr	19	Ciallam	No
OL	996554	SR 112	24.26	unnamed	Pysht R	19	Ciallam	Yes
OL	996555	SR 112	24.77	unnamed	Pysht R	19	Ciallam	Yes
OL	996556	SR 112	25.2	unnamed	Pysht R	19	Ciallam	Yes
OL	991732	SR 112	29.12	Indian Cr	Strait of Juan De Fuca	19	Ciallam	Yes
OL	990941	SR 112	29.7	Butler Cr	Butler Cove	19	Ciallam	Yes
OL	991258	SR 112	29.71	unnamed	Butler Cr	19	Ciallam	Yes
OL	996424	SR 112	31.46	unnamed	Jim Cr	19	Ciallam	Yes
OL	996426	SR 112	32.85	unnamed	Joe Cr	19	Ciallam	No
OL	996427	SR 112	33.02	unnamed	Joe Cr	19	Ciallam	No
OL	996430	SR 112	34.12	unnamed	Deep Cr	19	Ciallam	Yes
OL	996431	SR 112	34.2	unnamed	Deep Cr	19	Ciallam	Yes
OL	996432	SR 112	34.28	unnamed	Deep Cr	19	Ciallam	Yes
OL	990715	SR 112	35.28	unnamed	Strait of Juan de Fuca	19	Ciallam	No
OL	996528	SR 112	44.34	unnamed	Murdock Cr	19	Ciallam	Yes
OL	996529	SR 112	45.66	unnamed	Murdock Cr	19	Ciallam	No
OL	990480	SR 112	49.48	Whiskey Cr	Strait of Juan de Fuca	19	Ciallam	Yes
OL	996536	SR 112	49.62	EF Whiskey Cr	Whiskey Cr	19	Ciallam	Yes

Appendix I. WSDOT Culvert Barriers Relevant to the Injunction (as of June 1, 2020)

826 barrier culverts with ≥ 200 meters habitat gain; 186 barrier culverts with <200 meters habitat gain
List sorted by WSDOT Region, Highway, and Milepost location.

WSDOT Region	Site Id	Road	Milepost	Stream	Tributary to	WRIA	County	Lineal Habitat Gain ≥ 200 meters
OL	991693	SR 112	50.73	unnamed	Whiskey Cr	19	Ciallam	Yes
OL	991738	SR 112	51.6	Upha Cr	Salt Cr	19	Ciallam	Yes
OL	991661	SR 112	53.5	Falls Cr	Salt Cr	19	Ciallam	Yes
OL	991686	SR 112	56.5	unnamed	Coville Cr	19	Ciallam	Yes
OL	996541	SR 112	57.05	unnamed	Coville Cr	19	Ciallam	No
OL	991733	SR 113	0.9	unnamed	Beaver Cr	20	Ciallam	Yes
OL	996563	SR 113	6.55	unnamed	Pysht R trib	19	Ciallam	No
OL	996571	SR 113	8.35	unnamed	Pysht R	19	Ciallam	Yes
OL	996573	SR 113	9.7	unnamed	Pysht R	19	Ciallam	Yes
OL	996574	SR 113	9.81	unnamed	Pysht R	19	Ciallam	Yes
OL	990077	SR 116	0.22	Chimacum Cr	Port Townsend Bay	17	Jefferson	Yes
OL	995521	SR 116	1.64	unnamed	Port Townsend Bay	17	Jefferson	Yes
OL	990943	SR 116	4.67	Kilisut Harbor	Oak Harbor	17	Jefferson	Yes
OL	995913	SR 119	5.66	unnamed	Lake Cushman	16	Mason	No
OL	995915	SR 119	7.02	unnamed	Lake Cushman	16	Mason	Yes
OL	995916	SR 119	7.8	unnamed	Lake Cushman	16	Mason	Yes
OL	995917	SR 119	8.2	unnamed	Big Cr	16	Mason	Yes
OL	995918	SR 119	8.35	unnamed	Big Cr	16	Mason	No
OL	933500	SR 119	9.38	Big Cr	Lake Cushman	16	Mason	Yes
OL	930022	SR 160	1.92	unnamed	unnamed	15	Kitsap	No
OL	990366	SR 160	2.29	Salmonberry Cr	Long Lk	15	Kitsap	Yes
OL	991567	SR 160	4.5	unnamed	Curley Cr	15	Kitsap	Yes
OL	996954	SR 160	5.13	unnamed	Sinclair Inlet	15	Kitsap	No
OL	996955	SR 160	6.06	unnamed	Puget Sound	15	Kitsap	No
OL	990970	SR 161	1.02	unnamed	Mashel R	11	Pierce	No
OL	995475	SR 161	14.89	unnamed	unnamed South Cr trib	11	Pierce	Yes
OL	991214	SR 162	3.7	unnamed	Puyallup R	10	Pierce	Yes
OL	991802	SR 162	6.33	unnamed	Puyallup R	10	Pierce	No
OL	105 R021121a	SR 162	11.04	Card Cr	Carbon R	10	Pierce	Yes
OL	105 R032918d	SR 162	12.44	Rauch Cr	Carbon R	10	Pierce	Yes
OL	996291	SR 162	13.64	unnamed	S Prairie Cr	10	Pierce	Yes
OL	105 R033020A	SR 162	16.67	unnamed	S Prairie Cr	10	Pierce	Yes
OL	105 R040517a	SR 162	19.11	unnamed	S Prairie Cr	10	Pierce	Yes
OL	996343	SR 162	19.7	Spiketon Cr	S Prairie Cr	10	Pierce	Yes

Appendix I. WSDOT Culvert Barriers Relevant to the Injunction (as of June 1, 2020)

826 barrier culverts with ≥ 200 meters habitat gain; 186 barrier culverts with <200 meters habitat gain
List sorted by WSDOT Region, Highway, and Milepost location.

WSDOT Region	Site Id	Road	Milepost	Stream	Tributary to	WRIA	County	Lineal Habitat Gain ≥ 200 meters
OL	105 R033018B	SR 165	19.76	Spiketon Cr	S Prairie Cr	10	Pierce	Yes
OL	992009	SR 166	0.73	unnamed	Sinclair Inlet	15	Kitsap	Yes
OL	990358	SR 166	1.76	Ross Cr	Sinclair Inlet	15	Kitsap	Yes
OL	996956	SR 166	2.12	unnamed	Sinclair Inlet	15	Kitsap	Yes
OL	996957	SR 166	2.27	unnamed	Sinclair Inlet	15	Kitsap	Yes
OL	15.0208 0.00	SR 166	2.56	unnamed	Sinclair Inlet	15	Kitsap	Yes
OL	920412	SR 166; Mile Hill Dr	4.11	unnamed	Sinclair Inlet	15	Kitsap	Yes
OL	15.0201 0.90	SR 166	4.52	Olney Cr	Sinclair Inlet	15	Kitsap	Yes
OL	991212	SR 167	8.05	Milwaukee Canal	White R	10	Pierce	Yes
OL	930603	SR 167; ROW	9.47	unnamed	Milwaukee Canal	10	Pierce	Yes
OL	991211	SR 167	10	Milwaukee Canal	White R	10	Pierce	Yes
OL	996288	SR 167	10.46	unnamed	Milwaukee Canal	10	Pierce	Yes
OL	996699	SR 300	2.36	unnamed	Union R	15	Mason	Yes
OL	996700	SR 300	2.38	unnamed	Union R	15	Mason	No
OL	991559	SR 302	0.9	unnamed	North Bay	15	Mason	Yes
OL	996763	SR 302	1.25	unnamed	Coulter Cr	15	Mason	No
OL	996765	SR 302	1.86	unnamed	North Bay	15	Mason	Yes
OL	991522	SR 302	2.1	unnamed	North Bay	15	Mason	Yes
OL	991239	SR 302	2.36	unnamed	North Bay	15	Mason	Yes
OL	991523	SR 302	2.48	unnamed	North Bay	15	Mason	Yes
OL	991525	SR 302	4.2	Victor Cr	North Bay	15	Mason	Yes
OL	991526	SR 302	4.7	unnamed	Case Inlet	15	Mason	No
OL	991527	SR 302	5.5	unnamed	Rocky Bay	15	Pierce	Yes
OL	990286	SR 302	11.3	Minter Cr	Henderson Bay	15	Pierce	Yes
OL	15.0051 0.10	SR 302	11.44	Little Minter Cr	Minter Cr	15	Pierce	Yes
OL	15.0051 0.20	SR 302	11.5	Little Minter Cr	Minter Cr	15	Pierce	Yes
OL	996783	SR 302	15.95	unnamed	Henderson Bay	15	Pierce	Yes
OL	105 K051518a	SR 302	16.15	Goodhough Cr	Henderson Bay	15	Pierce	Yes
OL	990345	SR 302; SPPURDY	15.8	Purdy Cr	Burley Lagoon	15	Pierce	Yes
OL	994085	SR 303; NB off-ramp	6.63	Hoot Cr	Barker Cr	15	Kitsap	Yes
OL	990024	SR 303	6.66	Hoot Cr	Barker Cr	15	Kitsap	Yes
OL	994086	SR 303; NB on-ramp	6.68	Hoot Cr	Barker Cr	15	Kitsap	Yes
OL	930408	SR 303; LX	6.7	unnamed	Hoot Cr	15	Kitsap	Yes
OL	930416	SR 303; NB on ramp	6.72	unnamed	unnamed	15	Kitsap	No

Appendix I. WSDOT Culvert Barriers Relevant to the Injunction (as of June 1, 2020)

826 barrier culverts with ≥ 200 meters habitat gain; 186 barrier culverts with <200 meters habitat gain

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

WSDOT Region	Site Id	Road	Milepost	Stream	Tributary to	WRIA	County	Lineal Habitat Gain ≥ 200 meters
OL	994320	SR 305	0.49	unnamed	Eagle Harbor	15	Kitsap	Yes
OL	994324	SR 305	0.62	unnamed	Eagle Harbor	15	Kitsap	Yes
OL	933644	SR 305	1.9	unnamed	Murden Cove	15	Kitsap	No
OL	994325	SR 305	2.44	Murden Cr	Murden Cove	15	Kitsap	Yes
OL	933663	SR 305	3.37	unnamed	Murden Cove	15	Kitsap	No
OL	933664	SR 305	3.4	unnamed	Murden Cove	15	Kitsap	No
OL	994326	SR 305	3.73	Manzanita Cr	Manzanita Bay	15	Kitsap	Yes
OL	933685	SR 305	5.23	unnamed	Port Madison	15	Kitsap	No
OL	933686	SR 305	5.37	unnamed	Manzanita Bay	15	Kitsap	Yes
OL	991958	SR 305	7.28	Klebeal Cr	Agate Passage	15	Kitsap	Yes
OL	994327	SR 305	8.92	Sam Snyder Cr	Liberty Bay	15	Kitsap	Yes
OL	994328	SR 305	10.55	unnamed	Liberty Bay	15	Kitsap	Yes
OL	991855	SR 305	12.59	unnamed	SF Dogfish Cr	15	Kitsap	Yes
OL	933284	SR 305	13.12	unnamed	Dogfish Cr	15	Kitsap	Yes
OL	991997	SR 307	0.98	unnamed	unnamed	15	Kitsap	Yes
OL	991998	SR 307	0.98	unnamed	unnamed	15	Kitsap	Yes
OL	991999	SR 307	1.34	unnamed	Dogfish Cr	15	Kitsap	Yes
OL	991572	SR 307	1.45	unnamed	Dogfish Cr	15	Kitsap	Yes
OL	991851	SR 307	2.5	unnamed	Gamble Cr	15	Kitsap	Yes
OL	996931	SR 308	0.3	Clear Cr	Puget Sound	15	Kitsap	Yes
OL	990235	SR 308	0.94	Big Scandia Cr	Liberty Bay	15	Kitsap	Yes
OL	15.0280 1.00	SR 308	1.15	Big Scandia Cr	Liberty Bay	15	Kitsap	Yes
OL	992008	SR 308	1.33	Little Scandia Cr	Liberty Bay	15	Kitsap	Yes
OL	991000	SR 308	2.16	unnamed	Puget Sound	15	Kitsap	Yes
OL	996933	SR 308	2.41	unnamed	Liberty Bay	15	Kitsap	No
OL	996932	SR 308	2.57	unnamed	Liberty Bay	15	Kitsap	Yes
OL	996619	SR 410	21.73	unnamed	Lake Tapps Canal	10	Pierce	Yes
OL	125 1502W11B	SR 507	8.22	unnamed	Skookumchuck R	23	Thurston	Yes
OL	995893	SR 507	30.61	McKenna Cr	Nisqually R	11	Thurston	Yes
OL	105 R121419a	SR 509; WB	2.97	Wapato Cr	Blair Waterway	10	Pierce	Yes
OL	933183	SR 509	5.24	unnamed	Commencement Bay	10	Pierce	Yes
OL	933185	SR 509	5.81	unnamed	Commencement Bay	10	Pierce	No
OL	990656	SR 510	5.64	unnamed	McAllister Cr	11	Thurston	Yes
OL	991052	SR 510	6.28	unnamed	McAllister Cr	11	Thurston	No

Appendix I. WSDOT Culvert Barriers Relevant to the Injunction (as of June 1, 2020)

826 barrier culverts with ≥ 200 meters habitat gain; 186 barrier culverts with <200 meters habitat gain
List sorted by WSDOT Region, Highway, and Milepost location.

WSDOT Region	Site Id	Road	Milepost	Stream	Tributary to	WRIA	County	Lineal Habitat Gain ≥ 200 meters
OL	997920	SR 512	3.3	unnamed	NF Clover Cr	12	Pierce	Yes
OL	932345	SR 512;WB on ramp	8.25	Silver Cr	Meeker Cr	10	Pierce	Yes
OL	932347	SR 512	8.25	Silver Cr	Meeker Cr	10	Pierce	Yes
OL	932349	SR 512; EB off ramp	8.25	Silver Cr	Meeker Cr	10	Pierce	Yes
OL	991229	SR 702	4.53	unnamed	unnamed to Nisqually R	11	Pierce	Yes
OL	995899	SR 702	5.6	unnamed	Horn Cr	11	Pierce	No
OL	990485	US 12	0.61	Wilson Cr	Chehalis R	22	Grays Harbor	Yes
OL	994788	US 12	3.76	Elliott Sl	Chehalis R	22	Grays Harbor	Yes
OL	991284	US 12	4.59	unnamed	Mox Chuck Sl	22	Grays Harbor	Yes
OL	991283	US 12	5.24	unnamed	Mox Chuck Sl	22	Grays Harbor	Yes
OL	991285	US 12	5.38	unnamed	unnamed	22	Grays Harbor	Yes
OL	991633	US 12	5.62	unnamed	unnamed	22	Grays Harbor	Yes
OL	991910	US 12	6.55	unnamed	Higgins Sl	22	Grays Harbor	Yes
OL	990957	US 12	6.58	unnamed	Higgins Sl	22	Grays Harbor	Yes
OL	990958	US 12	6.92	Higgins Sl	Chehalis R	22	Grays Harbor	Yes
OL	991911	US 12	7.26	unnamed	Higgins Sl	22	Grays Harbor	Yes
OL	991528	US 12	11.01	unnamed	Schofield Cr	22	Grays Harbor	Yes
OL	931349	US 12	11.49	unnamed	unnamed Chehalis R trib	22	Grays Harbor	Yes
OL	22.0349 0.70	US 12	12.36	Camp Cr	Smith Canal	22	Grays Harbor	Yes
OL	933616	US 12	17.56	unnamed	Wenzel Sl	22	Grays Harbor	Yes
OL	125 1806W/34G	US 12	19.17	unnamed	Vance Cr	22	Grays Harbor	Yes
OL	991533	US 12	23.3	unnamed	Chehalis R	22	Grays Harbor	Yes
OL	994799	US 12	26.87	unnamed	Chehalis R	22	Grays Harbor	Yes
OL	991541	US 12	28.17	unnamed	Chehalis R	23	Grays Harbor	Yes
OL	991540	US 12	28.6	unnamed	Chehalis R	23	Grays Harbor	Yes
OL	991535	US 12	29.19	unnamed	Chehalis R	23	Grays Harbor	Yes
OL	991536	US 12	29.45	unnamed	Chehalis R	23	Grays Harbor	Yes
OL	996710	US 12	31.19	unnamed	Chehalis R	23	Grays Harbor	No
OL	996712	US 12	31.61	unnamed	Cedar Cr	23	Grays Harbor	Yes
OL	996714	US 12	32.69	unnamed	Cedar Cr	23	Grays Harbor	Yes
OL	991538	US 12	33.44	unnamed	Chehalis R	23	Grays Harbor	Yes
OL	991539	US 12	33.6	unnamed	Chehalis R	23	Grays Harbor	Yes
OL	990563	US 12	36.33	Roundtree Cr	Harris Cr	23	Grays Harbor	Yes
OL	993670	US 101	80.4	unnamed	Chehalis R	22	Grays Harbor	Yes

Appendix I. WSDOT Culvert Barriers Relevant to the Injunction (as of June 1, 2020)

826 barrier culverts with ≥ 200 meters habitat gain; 186 barrier culverts with <200 meters habitat gain

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

WSDOT Region	Site Id	Road	Milepost	Stream	Tributary to	WRIA	County	Lineal Habitat Gain ≥ 200 meters
OL	993674	US 101	89.48	unnamed	Hoquiam R	22	Grays Harbor	Yes
OL	993681	US 101; ROW	89.48	unnamed	Hoquiam R	22	Grays Harbor	Yes
OL	993675	US 101	89.77	unnamed	Hoquiam R	22	Grays Harbor	Yes
OL	993679	US 101	90.73	unnamed	Hoquiam R	22	Grays Harbor	Yes
OL	993680	US 101	90.95	unnamed	Hoquiam R	22	Grays Harbor	Yes
OL	993688	US 101	92.33	unnamed	WF Hoquiam R	22	Grays Harbor	Yes
OL	993695	US 101	93.49	unnamed	WF Hoquiam R	22	Grays Harbor	Yes
OL	990732	US 101	93.79	unnamed	WF Hoquiam R	22	Grays Harbor	Yes
OL	993698	US 101	95.46	unnamed	WF Hoquiam R	22	Grays Harbor	Yes
OL	993702	US 101	98.47	unnamed	WF Hoquiam R	22	Grays Harbor	Yes
OL	993704	US 101	99.45	unnamed	WF Hoquiam R	22	Grays Harbor	Yes
OL	990730	US 101	100.7	unnamed	unnamed	22	Grays Harbor	Yes
OL	990033	US 101	102.97	unnamed	Big Cr	22	Grays Harbor	Yes
OL	993712	US 101	103.25	unnamed	Big Cr	22	Grays Harbor	Yes
OL	991501	US 101	103.65	unnamed	Big Cr	22	Grays Harbor	Yes
OL	990175	US 101	106.5	Hansen Cr	Humtulsips R	22	Grays Harbor	Yes
OL	993717	US 101	110.84	unnamed	Stevens Cr	22	Grays Harbor	Yes
OL	990731	US 101	111.34	unnamed	Stevens Cr	22	Grays Harbor	Yes
OL	991690	US 101	111.9	unnamed	Stevens Cr	22	Grays Harbor	Yes
OL	997309	US 101	122.92	unnamed	McCalla Cr	21	Grays Harbor	Yes
OL	990276	US 101	123.05	McCalla Cr	Boulder Cr	21	Grays Harbor	Yes
OL	991653	US 101	126.24	unnamed	Quinault R	21	Grays Harbor	Yes
OL	990543	US 101	132	unnamed	Ten O Clock Cr	21	Grays Harbor	Yes
OL	990452	US 101	135.26	unnamed	Lunch Cr	21	Grays Harbor	Yes
OL	990546	US 101	135.68	Lunch Cr	Raft R	21	Grays Harbor	Yes
OL	990453	US 101	135.95	unnamed	Lunch Cr	21	Grays Harbor	Yes
OL	990883	US 101	137.32	Crane Cr	Raft R	21	Grays Harbor	Yes
OL	990548	US 101	142.48	Harlow Cr	Queets R	21	Grays Harbor	Yes
OL	990457	US 101	142.68	Harlow Cr	Queets R	21	Grays Harbor	Yes
OL	990178	US 101	146.85	Harlow Cr	Queets R	21	Jefferson	Yes
OL	990148	US 101	147.49	Fisher Cr	Queets R	21	Jefferson	Yes
OL	997342	US 101	152.47	unnamed	Queets R	21	Jefferson	Yes
OL	991268	US 101	153.96	unnamed	Pacific Ocean	21	Jefferson	No
OL	997345	US 101	154.27	unnamed	Pacific Ocean	21	Jefferson	No

Appendix I. WSDOT Culvert Barriers Relevant to the Injunction (as of June 1, 2020)

826 barrier culverts with ≥ 200 meters habitat gain; 186 barrier culverts with <200 meters habitat gain

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

WSDOT Region	Site Id	Road	Milepost	Stream	Tributary to	WRIA	County	Lineal Habitat Gain ≥ 200 meters
OL	990549	US 101	154.45	unnamed	Pacific Ocean	21	Jefferson	No
OL	990722	US 101	154.88	unnamed	Pacific Ocean	21	Jefferson	No
OL	990550	US 101	154.9	unnamed	Pacific Ocean	21	Jefferson	Yes
OL	991276	US 101	156.1	unnamed	Pacific Ocean	21	Jefferson	Yes
OL	996220	US 101	160.42	unnamed	Pacific Ocean	20	Jefferson	No
OL	996223	US 101	160.89	unnamed	Pacific Ocean	20	Jefferson	Yes
OL	991261	US 101	161.5	unnamed	Pacific Ocean	20	Jefferson	Yes
OL	990400	US 101	162.6	Steamboat Cr	Pacific Ocean	20	Jefferson	Yes
OL	991262	US 101	163.13	unnamed	Pacific Ocean	20	Jefferson	Yes
OL	996224	US 101	164.57	unnamed	Pacific Ocean	20	Jefferson	No
OL	996225	US 101	165.11	unnamed	Cedar Cr	20	Jefferson	No
OL	934255	US 101	167.52	unnamed	Fletcher Cr	20	Jefferson	No
OL	996228	US 101	169.19	unnamed	Braden Cr	20	Jefferson	Yes
OL	990717	US 101	169.42	unnamed	Braden Cr	20	Jefferson	Yes
OL	990552	US 101	169.69	unnamed	unnamed Braden Cr trib	20	Jefferson	Yes
OL	997051	US 101	169.89	unnamed	unnamed Braden Cr trib	20	Jefferson	No
OL	997052	US 101	169.94	unnamed	Hoh R	20	Jefferson	Yes
OL	990553	US 101	170.12	unnamed	Hoh R	20	Jefferson	Yes
OL	990719	US 101	170.81	unnamed	Hoh R	20	Jefferson	Yes
OL	997053	US 101	170.87	unnamed	unnamed Hoh R trib	20	Jefferson	Yes
OL	997054	US 101	171.29	unnamed	Hoh R	20	Jefferson	Yes
OL	997055	US 101	174.43	unnamed	Hoh R	20	Jefferson	Yes
OL	997059	US 101	174.79	unnamed	Old Joe Sl	20	Jefferson	No
OL	991647	US 101	175.45	unnamed	Hoh R	20	Jefferson	Yes
OL	933682	US 101;ROW	175.77	unnamed	Hoh R	20	Jefferson	Yes
OL	991598	US 101	175.91	unnamed	Hoh R	20	Jefferson	Yes
OL	997063	US 101	176.55	unnamed	Hoh R	20	Jefferson	Yes
OL	997070	US 101	177.77	unnamed	Hoh R	20	Jefferson	No
OL	997071	US 101	177.8	unnamed	unnamed Hoh R trib	20	Jefferson	Yes
OL	991575	US 101	181.2	unnamed	Dowans Cr	20	Jefferson	Yes
OL	991574	US 101	181.46	unnamed	Dowans Cr	20	Jefferson	Yes
OL	991507	US 101	182.2	unnamed	Dowans Cr	20	Jefferson	Yes
OL	991508	US 101	182.84	unnamed	Dowans Cr	20	Jefferson	Yes
OL	991509	US 101	183.05	unnamed	Dowans Cr	20	Jefferson	Yes

Appendix I. WSDOT Culvert Barriers Relevant to the Injunction (as of June 1, 2020)

826 barrier culverts with ≥ 200 meters habitat gain; 186 barrier culverts with <200 meters habitat gain
List sorted by WSDOT Region, Highway, and Milepost location.

WSDOT Region	Site Id	Road	Milepost	Stream	Tributary to	WRIA	County	Lineal Habitat Gain ≥ 200 meters
OL	997081	US 101	183.11	unnamed	Dowans Cr	20	Jefferson	Yes
OL	991510	US 101	183.87	unnamed	Bogachiel R	20	Jefferson	No
OL	990269	US 101	184.66	May Cr	Bogachiel R	20	Cllallam	Yes
OL	997087	US 101	184.87	unnamed	Bogachiel R	20	Cllallam	Yes
OL	997091	US 101	187.18	unnamed	Bogachiel R	20	Cllallam	Yes
OL	991505	US 101	188.09	unnamed	Bogachiel R	20	Cllallam	Yes
OL	997093	US 101	188.19	unnamed	Bogachiel R	20	Cllallam	Yes
OL	997095	US 101	188.42	unnamed	Bogachiel R	20	Cllallam	Yes
OL	997096	US 101	188.64	unnamed	Bogachiel R	20	Cllallam	No
OL	933421	US 101	189.14	unnamed	Grader Cr	20	Cllallam	Yes
OL	991264	US 101	189.25	unnamed	Grader Cr	20	Cllallam	Yes
OL	990169	US 101	189.4	Grader Cr	Bogachiel R	20	Cllallam	Yes
OL	997098	US 101	190.05	unnamed	Mill Cr	20	Cllallam	Yes
OL	997097	US 101	191.12	Uncle John's Cr	Mill Cr	20	Cllallam	Yes
OL	997107	US 101	202.71	unnamed	Sol Duc R	20	Cllallam	Yes
OL	990554	US 101	209.32	Wisen Cr	Sol Duc R	20	Cllallam	Yes
OL	997108	US 101	210.22	unnamed	Sol Duc R	20	Cllallam	No
OL	997109	US 101	210.78	unnamed	Sol Duc R	20	Cllallam	Yes
OL	995815	US 101	235.81	unnamed	Indian Cr	18	Cllallam	No
OL	995816	US 101	236.28	unnamed	Indian Cr	18	Cllallam	Yes
OL	995817	US 101	236.35	unnamed	Indian Cr	18	Cllallam	Yes
OL	995818	US 101	237.98	unnamed	Indian Cr	18	Cllallam	Yes
OL	18.0283 2.00	US 101	238.35	Indian Cr	Elwha R	18	Cllallam	Yes
OL	995823	US 101	239.31	unnamed	Indian Cr	18	Cllallam	Yes
OL	932888	US 101; off-ramp	246.18	unnamed	Turnwater Cr	18	Cllallam	Yes
OL	990448	US 101	246.4	Turnwater Cr	Port Angeles Harbor	18	Cllallam	Yes
OL	990326	US 101	248.1	Peabody Cr	Strait of Juan de Fuca	18	Cllallam	Yes
OL	990481	US 101	249.4	White Cr	Ennis Cr	18	Cllallam	Yes
OL	18.0234 1.10	US 101	250	Ennis Cr	Strait of Juan de Fuca	18	Cllallam	Yes
OL	990240	US 101	250.5	Lees Cr	Strait of Juan de Fuca	18	Cllallam	Yes
OL	934250	US 101 ROW	253.84	unnamed	Bagley Cr	18	Cllallam	Yes
OL	990021	US 101	253.85	Bagley Cr	Strait of Juan De Fuca	18	Cllallam	Yes
OL	995544	US 101	255.65	unnamed	Siebert Cr	18	Cllallam	No
OL	18.0173 2.40	US 101	256.1	Siebert Cr	Strait of Juan de Fuca	18	Cllallam	Yes

Appendix I. WSDOT Culvert Barriers Relevant to the Injunction (as of June 1, 2020)

826 barrier culverts with ≥ 200 meters habitat gain; 186 barrier culverts with <200 meters habitat gain

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

WSDOT Region	Site Id	Road	Milepost	Stream	Tributary to	WRIA	County	Lineal Habitat Gain ≥ 200 meters
OL	933369	US 101	263.43	Sequim Prairie Tri irrigation ditch	Gierin Cr	18	Cllallam	Yes
OL	995551	US 101	263.68	Sequim Prairie Tri irrigation ditch	Gierin Cr	18	Cllallam	Yes
OL	990219	US 101	267.18	Johnson Cr	Sequim Bay	17	Cllallam	Yes
OL	991667	US 101	268.54	unnamed	Sequim Bay	17	Cllallam	Yes
OL	991666	US 101	269.24	unnamed	Sequim Bay	17	Cllallam	Yes
OL	994464	US 101	269.49	unnamed	Sequim Bay	17	Cllallam	Yes
OL	990107	US 101	270.57	Dean Cr	Sequim Bay	17	Cllallam	Yes
OL	991735	US 101	271.22	unnamed	Sequim Bay	17	Cllallam	Yes
OL	994478	US 101; ROW	271.22	unnamed	Sequim Bay	17	Cllallam	Yes
OL	990712	US 101	271.57	unnamed	Sequim Bay	17	Cllallam	Yes
OL	991850	US 101	271.83	unnamed	Sequim Bay	17	Cllallam	Yes
OL	990075	US 101	271.98	Chicken Coop Cr	Sequim Bay	17	Cllallam	Yes
OL	990134	US 101	274.25	Eagle Cr	Strait of Juan de Fuca	17	Cllallam	Yes
OL	995484	US 101	275.72	unnamed	Eagle Cr	17	Jefferson	Yes
OL	990090	US 101	277.9	Contractors Cr	Discovery Bay	17	Jefferson	Yes
OL	995488	US 101	278.66	unnamed	Discovery Bay	17	Jefferson	No
OL	995490	US 101	281.61	unnamed	Discovery Bay	17	Jefferson	Yes
OL	995491	US 101	281.72	unnamed	Discovery Bay	17	Jefferson	Yes
OL	995497	US 101	283.57	unnamed	Snow Cr	17	Jefferson	Yes
OL	995496	US 101	284.87	unnamed	Snow Cr	17	Jefferson	Yes
OL	995760	US 101; NB onramp	284.87	unnamed	Snow Cr	17	Jefferson	Yes
OL	991673	US 101	285.69	Andrews Cr	Snow Cr	17	Jefferson	Yes
OL	995499	US 101	289.36	unnamed	Leland Cr	17	Jefferson	Yes
OL	995500	US 101	289.91	unnamed	Leland Cr	17	Jefferson	No
OL	990896	US 101	290.35	unnamed	Leland Cr	17	Jefferson	Yes
OL	930373	US 101	291.73	unnamed	Leland Cr	17	Jefferson	No
OL	995502	US 101	291.79	unnamed	Leland Cr	17	Jefferson	Yes
OL	990241	US 101	292.52	Leland Cr	L Quilcene R	17	Jefferson	Yes
OL	994484	US 101	303.01	Marple Cr	Jackson Cove	17	Jefferson	Yes
OL	990449	US 101	304.24	Turner Cr	Hood Canal	16	Jefferson	No
OL	995931	US 101	305.59	unnamed	Hood Canal	16	Jefferson	Yes
OL	990899	US 101	307	Twana Cr	Hood Canal	16	Jefferson	Yes
OL	995935	US 101	310.27	unnamed	Hood Canal	16	Jefferson	No
OL	995936	US 101	310.4	unnamed	Hood Canal	16	Jefferson	Yes

Appendix I. WSDOT Culvert Barriers Relevant to the Injunction (as of June 1, 2020)

826 barrier culverts with ≥ 200 meters habitat gain; 186 barrier culverts with <200 meters habitat gain

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

WSDOT Region	Site Id	Road	Milepost	Stream	Tributary to	WRIA	County	Lineal Habitat Gain ≥ 200 meters
OL	991603	US 101	314.1	unnamed	Hood Canal	16	Jefferson	Yes
OL	991606	US 101	315.19	Schaerer Cr	Hood Canal	16	Mason	Yes
OL	991614	US 101	322.83	unnamed	Hood Canal	16	Mason	Yes
OL	996135	US 101	325.68	unnamed	Hood Canal	16	Mason	Yes
OL	996138	US 101	327.76	Little Lilliwaup Cr	Hood Canal	16	Mason	Yes
OL	996358	US 101	331.18	unnamed	Hood Canal	16	Mason	No
OL	991254	US 101	331.83	unnamed	Hood Canal	16	Mason	Yes
OL	990191	US 101	332.65	Hill Cr	Hood Canal	16	Mason	Yes
OL	996366	US 101	334.4	unnamed	Hood Canal	16	Mason	Yes
OL	991250	US 101	335.93	unnamed	Hood Canal	16	Mason	Yes
OL	996371	US 101	338.37	unnamed	Skobob Cr	16	Mason	Yes
OL	115 MC093	US 101	346.95	Coffee Cr	Goldsborough Cr	14	Mason	Yes
OL	115 MC180	US 101	348.21	unnamed	Mill Cr	14	Mason	Yes
OL	997158	US 101	354.01	unnamed	Skookum Cr	14	Mason	Yes
OL	997159	US 101	354.22	unnamed	Skookum Cr	14	Mason	No
OL	115 MC144	US 101	355.58	unnamed	Totten Inlet	14	Mason	Yes
OL	997157	US 101	356.48	unnamed	Schneider Cr	14	Mason	Yes
OL	14.0010 0.10	US 101	356.8	Countyline Cr	Schneider Cr	14	Mason	Yes
OL	997161	US 101	357.4	Griggs Cr	Schneider Cr	14	Thurston	Yes
OL	991477	US 101	360.6	unnamed	Eld Inlet	14	Thurston	Yes
SW	995538	I-5	71.34	unnamed	unnamed Newaukum R trib	23	Lewis	Yes
SW	994300	I-5	78.11	unnamed	Dillenbaugh Cr	23	Lewis	Yes
SW	990736	SR 6	22.94	unnamed	Salmon Cr	23	Pacific	Yes
SW	990737	SR 6	23.49	unnamed	Rock Cr	23	Pacific	Yes
SW	991654	SR 6	24.3	unnamed	Rock Cr	23	Pacific	No
SW	990738	SR 6	25.24	unnamed	Rock Cr	23	Lewis	Yes
SW	990740	SR 6	26.36	unnamed	Rock Cr	23	Lewis	Yes
SW	990741	SR 6	29	unnamed	Chehalis R	23	Lewis	Yes
SW	930852	SR 6	33.3	unnamed	Chehalis R	23	Lewis	Yes
SW	990751	SR 6	33.56	unnamed	unnamed	23	Lewis	Yes
SW	990755	SR 6	34.85	unnamed	Chehalis R	23	Lewis	Yes
SW	990756	SR 6	35.08	unnamed	Chehalis R	23	Lewis	Yes
SW	990757	SR 6	35.42	unnamed	Chehalis R	23	Lewis	Yes
SW	990758	SR 6	35.85	unnamed	Chehalis R	23	Lewis	Yes

Appendix I. WSDOT Culvert Barriers Relevant to the Injunction (as of June 1, 2020)

826 barrier culverts with ≥ 200 meters habitat gain; 186 barrier culverts with <200 meters habitat gain
List sorted by WSDOT Region, Highway, and Milepost location.

WSDOT Region	Site Id	Road	Milepost	Stream	Tributary to	WRIA	County	Lineal Habitat Gain ≥ 200 meters
SW	990405	SR 6	36.21	unnamed	Chehalis R	23	Lewis	No
SW	990423	SR 6	36.74	unnamed	Hope Cr	23	Lewis	Yes
SW	990764	SR 6	42.38	unnamed	unnamed	23	Lewis	No
SW	991221	SR 6	43.61	unnamed	Chehalis R	23	Lewis	Yes
SW	991544	SR 6	46.39	unnamed	Chehalis R	23	Lewis	Yes
SW	991757	SR 6	46.5	unnamed	Chehalis R	23	Lewis	Yes
SW	994954	SR 508	0.53	Allen Cr	Newaukum R	23	Lewis	Yes
SW	994955	SR 508	0.64	unnamed	Allen Cr	23	Lewis	Yes
SW	994958	SR 508	1.7	unnamed	unnamed Allen Cr trib	23	Lewis	Yes
SW	994959	SR 508	1.85	unnamed	unnamed Allen Cr trib	23	Lewis	Yes
SW	992277	SR 508	4.26	unnamed	SF Newaukum R	23	Lewis	Yes
SW	994966	SR 508	4.7	unnamed	SF Newaukum R	23	Lewis	Yes
SW	991756	SR 508	5.1	unnamed	SF Newaukum R	23	Lewis	Yes
SW	991292	SR 508	5.53	unnamed	SF Newaukum R	23	Lewis	Yes
SW	991293	SR 508	6.78	unnamed	SF Newaukum R	23	Lewis	Yes
SW	994969	SR 508	8.88	unnamed	SF Newaukum R	23	Lewis	Yes
SW	994971	SR 508	11.27	unnamed	SF Newaukum R	23	Lewis	Yes
SW	991288	SR 508	11.55	unnamed	SF Newaukum R	23	Lewis	Yes
SW	991289	SR 508	12.66	unnamed	SF Newaukum R	23	Lewis	Yes
SW	991290	SR 508	15.1	unnamed	Kearney Cr	23	Lewis	Yes
SW	994976	SR 508	15.42	unnamed	unnamed Kearney Cr trib	23	Lewis	Yes
SW	991296	SR 508	15.85	unnamed	Kearney Cr	23	Lewis	Yes
SW	994979	SR 508	16.5	unnamed	unnamed Stowell Cr trib	23	Lewis	Yes
SW	994981	SR 508	16.99	unnamed	Stowell Cr	23	Lewis	Yes
SW	991291	SR 508	17.06	unnamed	Stowell Cr	23	Lewis	Yes
SW	994463	SR 508	17.55	Stowell Cr	Kearney Cr	23	Lewis	Yes

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, 2020)

One hundred sixty-one culverts are no longer injunction barriers requiring repair. One hundred fifty-nine newly identified barrier culverts added to the injunction barrier list.

List sorted by Road and Milepost location

Site ID	Road	Milepost	Stream	Tributary to	WRIA	Disposition	Explanation	Modified Date
09.0377 2.12	200th Ave	21.80	Des Moines Cr	Puget Sound	9	not an injunction barrier	not WSDOT ownership	6/11/2014
08.0183 3.10	270th Ave	20.28	EF Issaquah Cr	Issaquah Cr	8	not an injunction barrier	not WSDOT ownership	7/24/2014
991040	I-5	86.20	unnamed	Chehalis R	23	added to injunction barrier list	newly identified barrier- Significant Gain	9/12/2017
991659	I-5	98.11	unnamed	Salmon Cr	23	added to injunction barrier list	newly identified barrier- Significant Gain	4/13/2017
998888	I-5	109.19	College Cr	Woodland Cr	13	added to injunction barrier list	newly identified barrier- Limited Gain	1/25/2016
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
933186	I-5	134.33	unnamed	Puyallup R	10	added to injunction barrier list	newly identified barrier- Limited Gain	9/9/2015
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
991031	I-5	145.93	Bingaman Cr	Green R	9	added to injunction barrier list	newly identified barrier- Significant Gain	1/6/2016
934543	I-5	172.38	unnamed	SF Thornton Cr	8	added to injunction barrier list	newly identified barrier- Limited Gain	3/29/2019
993116	I-5	180.63	Scriber Cr	Swamp Cr	4	not an injunction barrier	culvert determined to not be a barrier	1/4/2018
933665	I-5	196.24	unnamed	Shonomish R	7	added to injunction barrier list	newly identified barrier - Significant Gain	4/22/2019
995284	I-5	203.22	unnamed	WF Quilceda Cr	07.0051	not an injunction barrier	culvert determined to not be a barrier	2/3/2017
102 Q058	I-5	203.24	unnamed	WF Quilceda Cr	7	not an injunction barrier	duplicate record	11/4/2013
990622	I-5	211.50	Secret Cr	Pilchuck R	5	added to injunction barrier list	newly identified barrier - Significant Gain	12/10/2019
990623	I-5 SB	211.70	Secret Cr	Pilchuck Cr	5	added to injunction barrier list	newly identified barrier- Significant Gain	4/17/2018
03.0181 0.50	I-5	219.41	Fisher Cr	Carpenter Cr	03.0181	not an injunction barrier	barrier corrected	10/13/2017
991036	I-5	255.15	Squalicum Cr	Bellingham Bay	1	not an injunction barrier	barrier corrected	12/30/2015
995701	I-5	258.56	unnamed	unnamed to Silver Cr	1	added to injunction barrier list	newly identified barrier- Limited Gain	3/16/2016
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
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
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
933867	I-90	6.75	unnamed	Lake Washington	8	added to injunction barrier list	newly identified barrier- Limited Gain	9/11/2017
994415	I-90	14.71	unnamed	Lake Sammamish	8	added to injunction barrier list	newly identified barrier- Significant Gain	10/11/2017
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
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
996475	I-90; WB off-ramp	17.00	unnamed	NF Issaquah Cr	8	not an injunction barrier	barrier corrected	10/13/2017
996963	I-90; WB on-ramp	17.00	NF Issaquah Cr	Issaquah Cr	08.0181	not an injunction barrier	barrier corrected	10/13/2017
934151	I-90 ROW	17.06	unnamed	NF Issaquah Cr	8	added to injunction barrier list	newly identified barrier- Limited Gain	5/8/2017
934151	I-90 ROW	17.06	unnamed	NF Issaquah Cr	8	not an injunction barrier	barrier corrected	10/13/2017
996473	I-90; EB	21.23	unnamed	EF Issaquah Cr	8	not an injunction barrier	not a barrier	8/4/2017
934821	I-90 WB	25.68	unnamed	Lake Cr	7	added to injunction barrier list	newly identified barrier- Significant Gain	4/13/2020
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
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
998969	I-405	4.61	unnamed	Lake Washington	8	added to injunction barrier list	newly identified barrier- Limited Gain	12/5/2018
996482	I-405	5.09	Johns Cr	Lake Washington	8	added to injunction barrier list	species use verified, salmon and/or steelhead present- Significant Gain	9/9/2015
999410	I-405	6.31	Clover Cr	Lk Washington	8	not an injunction barrier	Species use verified, salmon and/or steelhead are not present	6/6/2017
933259	I-405	7.61	Gypsy Cr	Lake Washington	8	added to injunction barrier list	newly identified barrier- Significant Gain	5/18/2015
998971	I-405	7.83	unnamed	Lake Washington	8	added to injunction barrier list	newly identified barrier- Significant Gain	5/18/2015
998972	I-405	7.90	unnamed	Lake Washington	8	added to injunction barrier list	newly identified barrier- Significant Gain	5/18/2015
934704	I-405	8.15	unnamed	Lake Washington	8	added to injunction barrier list	newly identified barrier- Limited Gain	1/14/2019

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List sorted by Road and Milepost location

Site ID	Road	Milepost	Stream	Tributary to	WRIA	Disposition	Explanation	Modified Date
932933	I-405	10.00	unnamed	Coal Cr	8	added to injunction barrier list	newly identified barrier- Significant Gain	12/5/2018
933258	I-405	12.03	Trail Cr	Mercer Sl	8	added to injunction barrier list	newly identified barrier- Limited Gain	5/18/2015
933244	I-405	13.05	Sturtevant Cr	Richards Cr	8	added to injunction barrier list	newly identified barrier- Significant Gain	2/24/2015
990376	I-405	19.12	Forbes Cr	Juanita Bay	8	added to injunction barrier list	newly identified barrier- Significant Gain	4/20/2020
932812	I-405	20.50	unnamed	Juanita Cr	8	added to injunction barrier list	newly identified barrier- Significant Gain	10/29/2014
991008	I-405	27.70	unnamed	North Cr	8	added to injunction barrier list	newly identified barrier- Limited Gain	3/29/2016
998976	I-405; SB	27.76	unnamed	North Cr	8	added to injunction barrier list	newly identified barrier- Limited Gain	3/29/2016
993898	I-405; ROW	29.67	Martha Cr	Swamp Cr	8	not an injunction barrier	not WSDOT ownership	12/28/2015
998979	I-405; SB	21.44	unnamed	Juanita Cr	8	not an injunction barrier	stream determined to be non-fish bearing	8/4/2016
998885	Redmond Way	5.33	unnamed	unnamed	8	not an injunction barrier	not WSDOT ownership	1/7/2014
998886	Redmond Way	5.40	unnamed	Peters Cr	8	not an injunction barrier	not WSDOT ownership	1/7/2014
998887	Redmond Way	5.69	Peters Cr	Sammanish R	8	not an injunction barrier	not WSDOT ownership	1/7/2014
931620	SR 3; ROW	25.78	unnamed	Mindy Cr	15	not an injunction barrier	not WSDOT ownership	2/19/2015
931621	SR 3; ROW	25.78	unnamed	Mindy Cr	15	not an injunction barrier	not WSDOT ownership	2/19/2015
996735	SR 3	26.13	unnamed (Romance Hill)	Mindy Cr	15	not an injunction barrier	barrier corrected	12/20/2016
991995	SR 3	36.10	Wright Cr	Sinclair Inlet	15	added to injunction barrier list	newly identified barrier- Significant Gain	10/12/2013
990735	SR 6	22.64	Salmon Cr	Rock Cr	23	not an injunction barrier	barrier corrected	12/20/2019
990744	SR 6	31.06	SB Fronia Cr	Fronia Cr	23	not an injunction barrier	barrier corrected- channel realigned and crossing abandoned	12/20/2019
990746	SR 6	31.08	Fronia Cr	Chehalis R	23	not an injunction barrier	barrier corrected	12/18/2019
990755	SR 6	34.85	unnamed	Chehalis R	23	added to injunction barrier list	newly identified barrier- Significant Gain	8/4/2016
990405	SR 6	36.21	unnamed	Chehalis R	23	added to injunction barrier list	newly identified barrier - Limited Gain	11/22/2019
990534	SR 6	40.53	unnamed	Chehalis R	23	not an injunction barrier	stream determined to be non-fish bearing	6/20/2016
990761	SR 6	41.70	unnamed	Chehalis R	23	not an injunction barrier	stream determined to be non-fish bearing	6/20/2016
990084	SR 7	11.56	Coal Cr	Roundtop Cr	11	not an injunction barrier	species use verified, salmon and/or steelhead are not present	10/30/2014
990672	SR 7	14.72	unnamed	East Cr	11	not an injunction barrier	Species use verified, salmon and/or steelhead are not present	10/30/2014
990687	SR 7	38.60	unnamed	South Cr	11	not an injunction barrier	stream determined to be non-fish bearing	9/19/2014
990297	SR 7	41.17	Muck Cr	Nisqually R	11	not an injunction barrier	barrier corrected	12/31/2013
996274	SR 7	58.34	unnamed	Commencement Bay	10	added to injunction barrier list	newly identified barrier- Significant Gain	12/28/2015
993722	SR 8	1.02	unnamed	Cloquallum Cr	22	added to injunction barrier list	newly identified barrier- Limited Gain	12/5/2018
22.0507 0.10	SR 8	5.00	MF Wildcat Cr	EF Wildcat Cr	22	not an injunction barrier	barrier corrected	10/5/2018
990133	SR 8	6.30	EF Wildcat Cr	Wildcat Cr	22	not an injunction barrier	barrier corrected	10/5/2018
992004	SR 8	7.27	unnamed	Sand Cr	22	added to injunction barrier list	newly identified barrier - Significant Gain	7/2/2019
992005	SR 8	7.34	unnamed	Sand Cr	22	added to injunction barrier list	newly identified barrier - Significant Gain	7/2/2019
990706	SR 8	18.99	unnamed	Perry Cr	14	not an injunction barrier	species use verified, salmon and/or steelhead are not present	12/28/2015
990707	SR 8	18.99	unnamed	Perry Cr	14	not an injunction barrier	Species use verified, salmon and/or steelhead are not present	12/28/2015
991810	SR 9; Access Rd	4.15	unnamed	unnamed	7	not an injunction barrier	species use verified, salmon and/or steelhead are not present	1/15/2015
999168	SR 9	14.00	Centennial Cr	Pilchuck R	7	not an injunction barrier	culvert determined not to be a barrier. Limited Gain	12/4/2019

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List sorted by Road and Milepost location

Site ID	Road	Milepost	Stream	Tributary to	WRIA	Disposition	Explanation	Modified Date
LP19	SR 9	37.26	unnamed	unnamed Pilchuck Creek tributary	5	added to injunction barrier list	species use verified, salmon and/or steelhead present- Limited Gain	4/10/2018
991158	SR 9	38.88	unnamed	Pilchuck Cr	5	added to injunction barrier list	newly identified barrier- Significant Gain	4/4/2016
991120	SR 9	42.36	Lake Cr	Big Lk	3	not an injunction barrier	barrier corrected	12/29/2015
991114	SR 9	62.36	unnamed	Samish R	3	added to injunction barrier list	newly identified barrier- Significant Gain	9/15/2015
SR71	SR 9	63.74	unnamed	Samish R	3	added to injunction barrier list	newly identified barrier- Significant Gain	9/15/2015
991116	SR 9	65.32	unnamed	Samish R	3	added to injunction barrier list	newly identified barrier- Significant Gain	9/10/2015
991446	SR 9	66.51	unnamed	Samish R	3	added to injunction barrier list	newly identified barrier- Limited Gain	10/13/2015
991448	SR 9	67.33	NP Cr	Samish R	3	not an injunction barrier	barrier corrected	12/31/2013
992349	SR 9	77.36	unnamed	Tawes Cr	1	not an injunction barrier	barrier corrected	12/20/2019
992350	SR 9	77.43	unnamed	Tawes Cr	1	not an injunction barrier	barrier corrected	12/20/2019
992356	SR 9	77.94	Tawes Cr	SF Nooksack R	1	not an injunction barrier	barrier corrected	12/20/2019
934015	SR 9; ROW (Broadway Ave)	TBD	unnamed	Snohomish R	7	added to injunction barrier list	newly identified barrier- Significant Gain	12/21/2016
934011	SR 9; ROW (Broadway Ave)	TBD	unnamed	Snohomish R	7	added to injunction barrier list	newly identified barrier- Significant Gain	12/21/2016
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
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
994389	SR 11	20.25	Padden Cr	Bellingham Bay	1	not an injunction barrier	barrier corrected	12/30/2015
934541	SR 16	15.16	unnamed	McCormick Cr	15	added to injunction barrier list	newly identified barrier- Significant Gain	4/13/2020
996754	SR 16; EB Ext	26.61	unnamed	Ross Cr	15	added to injunction barrier list	newly identified barrier- Significant Gain	3/25/2019
990357	SR 16	26.80	Ross Cr	Sinclair Inlet	15	added to injunction barrier list	species use verified, salmon and/or steelhead present- Significant Gain	6/15/2015
934154	SR 16	27.49	unnamed	Sinclair Inlet	15	added to injunction barrier list	newly identified barrier- Limited Gain	5/1/2017
996753	SR 16; EB	28.10	Anderson Cr	Sinclair Inlet	15.0211	not an injunction barrier	barrier corrected	12/20/2016
990017	SR 16; WB	28.10	Anderson Cr	Sinclair Inlet	15.0211	not an injunction barrier	barrier corrected	12/20/2016
995970	SR 18	22.55	unnamed	unnamed Holder Cr trib	8	added to injunction barrier list	newly identified barrier - Limited Gain	3/4/2019
994859	SR 18	23.66	unnamed	Deep Cr	7	added to injunction barrier list	newly identified barrier - Significant Gain	3/4/2019
994860	SR 18	24.24	unnamed	Deep Cr	7	added to injunction barrier list	newly identified barrier- Significant Gain	4/20/2020
934783	SR 18; ROW	24.24	unnamed	Deep Cr	7	added to injunction barrier list	newly identified barrier- Significant Gain	4/20/2020
934882	SR 18	24.42	unnamed	Deep Cr	7	added to injunction barrier list	newly identified barrier - Limited Gain	10/16/2019
934791	SR 18	25.04	unnamed	Deep Cr	7	added to injunction barrier list	newly identified barrier - Significant Gain	3/4/2019
934828	SR 18	27.83	unnamed	unnamed Lake Cr trib	7	added to injunction barrier list	newly identified barrier- Significant Gain	4/13/2020
995978	SR 20	12.96	Crockett Lk	Keystone Harbor	6	not an injunction barrier	species use verified, salmon and/or steelhead are not present	1/7/2015
995423	SR 20	48.07	unnamed	Fidalgo Bay	3	added to injunction barrier list	newly identified barrier- Significant Gain	7/24/2017
995424	SR 20	48.12	unnamed	Fidalgo Bay	3	added to injunction barrier list	newly identified barrier- Significant Gain	7/24/2017
995425	SR 20	48.16	unnamed	Fidalgo Bay	3	added to injunction barrier list	newly identified barrier- Significant Gain	7/24/2017
933175	SR 20	53.53	unnamed	Guemes Channel	3	added to injunction barrier list	newly identified barrier- Significant Gain	6/18/2015
995432	SR 20	53.90	unnamed	Indian Sl	3	not an injunction barrier	not a culvert feature	2/3/2014
991146	SR 20	72.85	Childs Cr	Skagit R	3	added to injunction barrier list	newly identified barrier- Significant Gain	9/16/2015
995438	SR 20	77.75	unnamed	Careys Cr	3	not an injunction barrier	culvert determined to not be a barrier	2/3/2017
991123	SR 20	80.10	unnamed	Skagit R	3	added to injunction barrier list	newly identified barrier- Significant Gain	9/16/2015
GR43	SR 20	86.21	Ebing Cr	Skagit R	04	not an injunction barrier	culvert determined to not be a barrier	3/27/2017

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Site ID	Road	Milepost	Stream	Tributary to	WRIA	Disposition	Explanation	Modified Date
991150	SR 20	87.20	Eagle Cr	Skagit R	4	added to injunction barrier list	newly identified barrier- Significant Gain	10/26/2015
991711	SR 20	94.10	unnamed	Skagit R	4	not an injunction barrier	species use verified, salmon and/or steelhead are not present	7/3/2014
932471	SR 20	118.10	Unnamed	Thorton Cr	4	not an injunction barrier	stream determined to be non-fish bearing	1/12/2016
990233	SR 92	2.69	Little Pilchuck Cr	Pilchuck R	7	not an injunction barrier	barrier corrected	4/26/2019
996275	SR 99	0.44	unnamed	Fife Ditch	10	not an injunction barrier	stream determined to be non-fish bearing	5/28/2020
991210	SR 99	6.86	WF Hylebos Cr	Hylebos Cr	10	not an injunction barrier	barrier corrected	12/29/2015
993095	SR 99	47.66	Scriber Cr	Swamp Cr	8	added to injunction barrier list	newly identified barrier- Significant Gain	1/14/2019
991122	SR 99	48.00	Gribble Cr	WF Nookachamps Cr	3	not an injunction barrier	barrier corrected	4/26/2019
992205	SR 104	22.47	Grovers Cr	Miller Bay	15.0299	not an injunction barrier	barrier corrected	12/20/2016
991301	SR 105	31.38	unnamed	South Bay	22	not an injunction barrier	not a culvert feature	2/3/2014
994785	SR 105	46.39	unnamed	unnamed	22	not an injunction barrier	culvert determined to not be a barrier	12/1/2015
996127	SR 106	3.39	unnamed	Hood Canal	16	added to injunction barrier list	newly identified barrier- Limited Gain	4/29/2015
991246	SR 106	13.50	Twanoh Falls Cr	Hood Canal	14	not an injunction barrier	barrier corrected	12/31/2013
933361	SR 107 ROW	4.31	unnamed	Chehalis R	22	added to injunction barrier list	newly identified barrier- Significant Gain	1/25/2016
933360	SR 107	4.34	unnamed	Chehalis R	22	added to injunction barrier list	newly identified barrier- Significant Gain	1/25/2016
990278	SR 108	8.89	McDonald Cr	Skookum Cr	14	added to injunction barrier list	newly identified barrier- Significant Gain	5/4/2015
14.0021 0.30	SR 108	11.90	Little Skookum Cr	Skookum Cr	14.0021	not an injunction barrier	barrier corrected	12/20/2016
990916	SR 109	11.61	Campbell Sl	Grays Harbor	22	added to injunction barrier list	newly identified barrier - Significant Gain	7/18/2019
990917	SR 109	11.66	Campbell Sl	Grays Harbor	22	added to injunction barrier list	newly identified barrier - Significant Gain	7/18/2019
990919	SR 109	17.81	unnamed	Connor Cr	21	added to injunction barrier list	newly identified barrier- Significant Gain	1/14/2019
990138	SR 109	28.05	Elk Cr	Pacific Ocean	21	not an injunction barrier	culvert determined not to be a barrier. Significant gain.	7/18/2019
990205	SR 112	5.17	Jansen Cr	Strait of Juan de Fuca	19.0228	not an injunction barrier	barrier corrected	12/20/2016
991739	SR 112	7.35	Olsen Cr	Strait of Juan de Fuca	19	not an injunction barrier	barrier corrected	12/26/2018
990214	SR 112	33.21	Joe Cr	Strait of Juan de Fuca	19.0109	not an injunction barrier	barrier corrected	12/20/2016
990144	SR 112	48.49	Field Cr	Strait of Juan de Fuca	19.0026	not an injunction barrier	barrier corrected	12/20/2016
991660	SR 112	52.90	Nordstrom Cr	Salt Cr	19.0011	not an injunction barrier	barrier corrected	10/13/2017
990092	SR 112	57.61	Coville Cr	Strait of Juan de Fuca	19	not an injunction barrier	barrier corrected	12/31/2013
990077	SR 116	0.22	Chimacum Cr	Port Townsend Bay	17	added to injunction barrier list	newly identified barrier- Significant Gain	10/28/2015
990943	SR 116	4.67	Kilisut Harbor	Oak Harbor	17	added to injunction barrier list	newly identified barrier- Significant Gain	11/15/2013
995019	SR 119	3.98	unnamed	Lake Kokanee	16	not an injunction barrier	species use verified, salmon and/or steelhead are not present	6/30/2015
995913	SR 119	5.66	unnamed	Lk Cushman	16	added to injunction barrier list	newly identified barrier- Limited Gain	6/30/2015
933500	SR 119	9.38	Big Cr	Lake Cushman	16	added to injunction barrier list	newly identified barrier- Significant Gain	3/1/2018
990962	SR 121	4.04	Blooms Ditch	Black R	23.0684	not an injunction barrier	barrier corrected	12/20/2016
343040	SR 121	4.10	unnamed	Blooms Ditch	23	not an injunction barrier	barrier corrected	12/20/2016
990972	SR 161	12.85	South Cr	Muck Cr	11.0028	not an injunction barrier	barrier corrected	12/20/2016
991800	SR 162	4.39	unnamed	Puyallup R	10	not an injunction barrier	culvert determined to not be a barrier	11/22/2016
991215	SR 162	4.82	Ball Cr	Puyallup R	10	not an injunction barrier	barrier corrected	12/31/2013
105 R033020A	SR 162	16.66	unnamed	S Prairie Cr	10	added to injunction barrier list	newly identified barrier- Significant Gain	6/9/2017
996308	SR 164: ROW	7.00	unnamed	White R	10	not an injunction barrier	not WSDOT ownership	3/15/2016
991837	SR 164	10.21	unnamed	unnamed	10	not an injunction barrier	not a barrier	6/28/2017

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992009	SR 166	0.52	unnamed	Sinclair Inlet	15	added to injunction barrier list	newly identified barrier- Significant Gain	5/1/2017
990358	SR 166	1.76	Ross Cr	Sinclair Inlet	15	added to injunction barrier list	newly identified barrier- Significant Gain	3/25/2019
990083	SR 167	0.82	Clear Cr	Puyallup R	10	not an injunction barrier	not a culvert feature	2/3/2014
991212	SR 167	8.05	Milwaukee Canal	White R	10	added to injunction barrier list	newly identified barrier - Significant Gain	4/1/2020
991211	SR 167	10.00	Milwaukee Canal	White R	10	added to injunction barrier list	newly identified barrier - Significant Gain	4/1/2020
996290	SR 167	11.37	unnamed	Milwaukee Canal	10	not an injunction barrier	culvert determined to not be a barrier	10/29/2013
105 R050320a	SR 167, NB Ext 8	12.05	Jovita Cr	Milwaukee Canal	10.0033	not an injunction barrier	barrier corrected	12/20/2016
930179	SR 167, ROW	12.72	unnamed	Milwaukee Canal	10	not an injunction barrier	barrier corrected	12/20/2016
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
933530	SR 167	23.93	unnamed	unnamed Springbrook Cr trib	9	added to injunction barrier list	newly identified barrier- Significant Gain	12/28/2017
935056	SR 169	7.10	Rock Cr	Rock Cr	9	added to injunction barrier list	newly identified barrier- Significant Gain	4/20/2020
996500	SR 169	19.84	unnamed	Cedar R	8	added to injunction barrier list	Species use verified, salmon and/or steelhead present- Limited Gain	1/7/2019
997646	SR 181	7.30	unnamed	Springbrook Cr	9	not an injunction barrier	culvert determined to not be a barrier	12/1/2015
102 L062	SR 202	0.14	Little Bear Cr	Sammanish R	8	not an injunction barrier	barrier corrected	4/26/2019
101S-10	SR 202	23.45	Mud Cr	Snoqualmie R	7	added to injunction barrier list	newly identified barrier- Significant Gain	1/7/2016
991721	SR 203	4.91	unnamed	Langlois Cr	7	added to injunction barrier list	newly identified barrier- Significant Gain	12/3/2014
991717	SR 203	4.98	Langlois Cr	Snoqualmie R	7	not an injunction barrier	barrier corrected	4/22/2019
995181	SR 203	14.10	Thayer Cr	Snoqualmie R	07	not an injunction barrier	barrier corrected	9/11/2017
991718	SR 203	14.55	Coe Clemmons Cr	Snoqualmie R	7	not an injunction barrier	barrier corrected	12/29/2015
932163	SR 303, ROW	4.33	unnamed	Steele Cr	15	not an injunction barrier	not WSDOT ownership	3/15/2016
933644	SR 305	1.90	unnamed	Murden Cove	15	added to injunction barrier list	newly identified barrier- Limited Gain	6/1/2016
933663	SR 305	3.37	unnamed	Murden Cove	15	added to injunction barrier list	newly identified barrier- Limited Gain	6/1/2016
933664	SR 305	3.40	unnamed	Murden Cove	15	added to injunction barrier list	newly identified barrier - Limited Gain	7/2/2019
933685	SR 305	5.23	unnamed	Port Madison	15	added to injunction barrier list	newly identified barrier- Limited Gain	4/11/2016
933686	SR 305	5.37	unnamed	Manzanita Bay	15	added to injunction barrier list	newly identified barrier- Significant Gain	4/11/2016
994328	SR 305	10.55	unnamed	Liberty Bay	15	added to injunction barrier list	newly identified barrier- Significant Gain	4/11/2016
933284	SR 305	13.12	unnamed	Dogfish Cr	15	added to injunction barrier list	newly identified barrier- Significant Gain	12/28/2015
990123	SR 307	0.49	Dogfish Cr	Liberty Bay	15.0285	added to injunction barrier	barrier corrected	12/20/2016
992002	SR 307	4.62	Gamble Cr	Port Gamble	15.0356	not an injunction barrier	barrier corrected	12/20/2016
996618	SR 410	17.26	Fennel Cr	Puyallup R	10	not an injunction barrier	Species use verified, salmon and/or steelhead are not present	9/11/2017
991204	SR 410	22.64	unnamed	Boise Cr	10	added to injunction barrier list	newly identified barrier- Significant Gain	6/5/2017
991206	SR 410	22.94	unnamed	Boise Cr	10	added to injunction barrier list	newly identified barrier- Significant Gain	6/5/2017
991205	SR 410	23.83	unnamed	Boise Cr	10	not an injunction barrier	not a barrier	3/2/2018
991049	SR 507	36.35	Lacamas Cr	Muck Cr	11.0022	not an injunction barrier	barrier corrected	12/20/2016
991755	SR 508	3.50	unnamed	SF Newaukum R	23	not an injunction barrier	culvert determined to not be a barrier	11/22/2016
994967	SR 508	5.75	unnamed	SF Newaukum R	23	not an injunction barrier	culvert determined to not be a barrier	3/30/2017
105 R121419a	SR 509	2.98	Wapato Cr	Blair Waterway	10	added to injunction barrier list	newly identified barrier- Significant Gain	1/14/2019
933183	SR 509	5.24	unnamed	Commencement Bay	10	added to injunction barrier list	Significant Gain verified by TD; need RSFS for complete gain.	11/19/2018
933185	SR 509	5.81	unnamed	Commencement Bay	10	added to injunction barrier list	newly identified barrier- Limited Gain	9/9/2015

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Site ID	Road	Milepost	Stream	Tributary to	WRIA	Disposition	Explanation	Modified Date
990412	SR 512	4.17	Swan Cr	Puyallup R	10	not an injunction barrier	culvert determined to not be a barrier	6/18/2015
997670	SR 516	10.58	unnamed	Big Soos Cr	9	not an injunction barrier	stream determined to be non-fish bearing	5/11/2018
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
994449	SR 520; EB off-ramp	6.03	Yarrow Cr	Lk Washington	8	not an injunction barrier	barrier corrected	3/15/2016
994236	SR 520	6.19	Yarrow Cr	Lk Washington	8	added to injunction barrier list	newly identified barrier- Significant Gain	1/6/2014
994236	SR 520	6.19	Yarrow Cr	Lk Washington	8	not an injunction barrier	barrier corrected in 2014	10/30/2014
994237	SR 520; LX	6.26	Yarrow Cr	Lk Washington	8	not an injunction barrier	barrier corrected	10/22/2014
994238	SR 520; WB off-ramp	6.27	Yarrow Cr	Lk Washington	8	not an injunction barrier	barrier corrected	10/22/2014
994704	SR 520; Maint Yard	6.40	unnamed	Yarrow Cr	8	not an injunction barrier	barrier corrected	3/15/2016
994705	SR 520	6.44	unnamed	Yarrow Cr	8	not an injunction barrier	barrier corrected	12/31/2013
08.0052 0.10	SR 522	5.76	Lyon Cr	Lake Washington	8	not an injunction barrier	barrier corrected	12/29/2015
996928	SR 522	9.60	Horse Cr	Sammamish R	8	not an injunction barrier	barrier corrected	4/26/2019
996910	SR 522	11.59	unnamed	Sammamish R	8	not an injunction barrier	stream determined to be non-fish bearing	4/26/2019
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
994440	SR 522	16.57	Daniels Cr	Cottage Lk Cr	8	added to injunction barrier list	newly identified barrier- Significant Gain	1/14/2019
934276	SR 522	18.77	unnamed	unnamed Evans Cr trib	7	added to injunction barrier list	newly identified barrier- Significant Gain	12/5/2018
994125	SR 522	21.97	unnamed	Skykomish R	7	not an injunction barrier	barrier corrected	10/22/2014
994128	SR 522	21.97	unnamed	Skykomish R	7	not an injunction barrier	barrier corrected	10/22/2014
996915	SR 523	1.24	unnamed	Thornton Cr	8	not an injunction barrier	species use verified, salmon and/or steelhead are not present	12/16/2013
996915	SR 523	1.24	unnamed	Thornton Cr	8	added to injunction barrier list	species use verified, salmon and/or steelhead potential- Significant Gain	12/20/2019
993122	SR 524	7.02	Martha Cr	Swamp Cr	8	not an injunction barrier	not WSDOT ownership	12/16/2015
993121	SR 524; ROW	7.07	Martha Cr	Swamp Cr	8	not an injunction barrier	not WSDOT ownership	12/16/2015
102 L020	SR 524	12.46	Great Dane Cr	Little Bear Cr	8	not an injunction barrier	barrier corrected	4/26/2019
102 S088	SR 525	0.28	Maple Cr	Swamp Cr	8	added to injunction barrier list	newly identified barrier- Significant Gain	7/8/2014
995126	SR 526	0.80	Japanese Gulch Cr	Possession Sound	7	added to injunction barrier list	newly identified barrier- Significant Gain	5/2/2019
991160	SR 530	25.94	Schoolyard Cr	NF Stillaquamish R	5	not an injunction barrier	barrier corrected	12/20/2019
995404	SR 530	36.83	unnamed	NF Stillaquamish R	5	not an injunction barrier	barrier corrected	10/22/2014
991169	SR 530	36.90	unnamed	NF Stillaquamish R	5	not an injunction barrier	barrier corrected	10/22/2014
991170	SR 530	37.58	unnamed	NF Stillaquamish R	5	not an injunction barrier	barrier corrected	10/22/2014
990885	SR 530	66.53	unnamed	Skagit R	4	added to injunction barrier list	newly identified barrier- Significant Gain	9/18/2017
991057	SR 531	8.37	unnamed	MF Quileceda Cr	7	added to injunction barrier list	newly identified barrier- Limited Gain	1/28/2019
991058	SR 531	8.65	Edgecomb Cr	MF Quileceda Cr	7	added to injunction barrier list	newly identified barrier- Significant Gain	10/16/2014
991058	SR 531	8.65	Edgecomb Cr	MF Quileceda Cr	07.0060	not an injunction barrier	barrier corrected	10/25/2017
991059	SR 531	8.71	Edgecomb Cr	MF Quileceda Cr	07.0060	not an injunction barrier	barrier corrected	10/25/2017
995208	SR 531	9.70	unnamed	unnamed	7	added to injunction barrier list	newly identified barrier- Significant Gain	4/20/2020
05.0018 2.00	SR 532	6.14	Church Cr	Stillaguamish R	05.0018	not an injunction barrier	barrier corrected	10/13/2017
990890	SR 532	8.71	Jackson Gulch Cr	Stillaguamish R	5	not an injunction barrier	species use verified, salmon or steelhead are not present.	5/28/2020
990624	SR 532	9.75	Secret Cr	Pilchuck Cr	05.0065	not an injunction barrier	barrier corrected	12/20/2016
PA2	SR 536	2.07	unnamed	unnamed Higgins Sl trib	3	added to injunction barrier list	newly identified barrier- Limited Gain	1/25/2016
991973	SR 539 SB	0.30	WF Spring Cr	Spring Cr	1	added to injunction barrier list	species use verified, salmon and/or steelhead present- Significant Gain	4/30/2018

Appendix II. Updates to the disposition of WSDOT Injunction Barrier List since September 24, 2013 (updates as of June 1, 2020)

One hundred sixty-one culverts are no longer injunction barriers requiring repair. One hundred fifty-nine newly identified barrier culverts added to the injunction barrier list.

List sorted by Road and Milepost location

Site ID	Road	Milepost	Stream	Tributary to	WRIA	Disposition	Explanation	Modified Date
934372	SR 539 SB	6.00	unnamed	Steamboat Sl	7	added to injunction barrier list	newly identified barrier- Limited Gain	12/18/2017
990014	SR 542	3.50	Squalicum Cr	Bellingham Bay	1	added to injunction barrier list	newly identified barrier- Significant Gain	9/25/2017
01.0228 4.80	SR 542	6.55	Anderson Cr	Nooksack R	1	not an injunction barrier	barrier corrected	12/29/2015
990434	SR 542	15.32	unnamed	Jim Cr	1	not an injunction barrier	not a barrier	6/28/2017
991112	SR 542	19.57	unnamed	NF Nooksack R	1	added to injunction barrier list	newly identified barrier- Significant Gain	7/11/2017
991704	SR 542	20.14	unnamed	NF Nooksack R	1	added to injunction barrier list	newly identified barrier- Limited Gain	9/25/2017
991621	SR 542	24.90	High Cr	Kendall Cr	01.0407	not an injunction barrier	barrier corrected	12/20/2016
990187	SR 542	32.00	Hedrick Cr	NF Nooksack R	1	not an injunction barrier	barrier corrected	12/26/2018
990603	SR 542	36.61	Lookout Cr	NF Nooksack R	1	not an injunction barrier	Species use verified, salmon and/or steelhead are not present	6/15/2014
990161	SR 546	0.47	Pepin Cr	Fishtrap Cr	1	added to injunction barrier list	newly identified barrier- Significant Gain	8/5/2014
990223	SR 546	4.21	Kamm Ditch	Nooksack R	1	added to injunction barrier list	newly identified barrier- Significant Gain	8/24/2017
990155	SR 548	11.19	unnamed	Drayton Harbor	01.0044	not an injunction barrier	barrier corrected	12/20/2016
991842	SR 900	15.86	Green Cr	May Cr	08.0288	not an injunction barrier	barrier corrected	10/13/2017
995046	US 2	3.59	unnamed	unnamed	7	not an injunction barrier	Stream determined to be non-fish bearing	9/20/2016
101NORT-01	US 2	15.74	unnamed	Skykomish R	7	added to injunction barrier list	newly identified barrier- Significant Gain	10/9/2017
101NORT-04	US 2	16.22	unnamed	Skykomish R	7	added to injunction barrier list	newly identified barrier- Significant Gain	5/2/2016
101NORT-04	US 2	16.22	unnamed	Skykomish R	7	not an injunction barrier	not a barrier	10/16/2017
101NORT-36	US 2	19.30	unnamed	Skykomish R	7	not an injunction barrier	culvert determined to not be a barrier	9/14/2017
992066	US 2	24.80	unnamed	Wallace R	7	added to injunction barrier list	newly identified barrier- Significant Gain	5/4/2016
992066	US 2	24.80	unnamed	Wallace R	7	not an injunction barrier	culvert determined to not be a barrier	9/7/2016
995058	US 2	44.26	unnamed	SF Skykomish R	7	not an injunction barrier	Species use verified, salmon and/or steelhead are not present	6/27/2018
995059	US 2	44.30	unnamed	SF Skykomish R	7	not an injunction barrier	Species use verified, salmon and/or steelhead are not present	6/27/2018
995061	US 2	48.35	unnamed	SF Skykomish R	07	not an injunction barrier	culvert determined to not be a barrier	2/3/2017
934093	US 2	48.82	unnamed	SF Skykomish R	7	added to injunction barrier list	newly identified barrier- Limited Gain	5/8/2017
990485	US 12	0.61	Wilson Cr	Chehalis R	22	added to injunction barrier list	newly identified barrier- Significant Gain	1/31/2018
991910	US 12	6.55	unnamed	Higgins Sl	22	added to injunction barrier list	newly identified barrier- Significant Gain	12/16/2015
991909	US 12	6.56	unnamed	unnamed Higgins Sl trib	22	not an injunction barrier	Species use verified, salmon or steelhead are not present	12/5/2018
994791	US 12	9.04	unnamed	Wynoochee R	22	not an injunction barrier	barrier corrected	10/19/2018
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
933616	US 12	17.56	unnamed	Wenzel Sl	22	added to injunction barrier list	newly identified barrier- Significant Gain	4/13/2017
990563	US 12	36.33	Roundtree Cr	Harris Cr	23	added to injunction barrier list	newly identified barrier- Significant Gain	10/15/2018
993673	US 101	84.15	unnamed	Chehalis R	22	not an injunction barrier	not a culvert feature	2/3/2014
993680	US 101	90.96	unnamed	Hoquiam R	22	added to injunction barrier list	newly identified barrier- Significant Gain	12/31/2017
993688	US 101	92.33	unnamed	WF Hoquiam R	22	added to injunction barrier list	newly identified barrier- Significant Gain	7/25/2018
990033	US 101	102.97	unnamed	Big Cr	22	added to injunction barrier list	newly identified barrier- Significant Gain	3/1/2018
990175	US 101	106.51	Hansen Cr	Humptulips R	22	added to injunction barrier list	newly identified barrier - Significant Gain	7/2/2019
993714	US 101	107.42	Mopang Cr	Big Cr	22	not an injunction barrier	not a barrier	3/2/2018
990544	US 101	132.16	unnamed	unnamed Ten O Clock Cr trib	21	not an injunction barrier	Species use verified, salmon or steelhead are not present. Significant gain.	3/26/2019
990548	US 101	142.48	Harlow Cr	Queets R	21.0134	added to injunction barrier list	newly identified barrier- Significant Gain	1/9/2014

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One hundred sixty-one culverts are no longer injunction barriers requiring repair. One hundred fifty-nine newly identified barrier culverts added to the injunction barrier list.

List sorted by Road and Milepost location

Site ID	Road	Milepost	Stream	Tributary to	WRIA	Disposition	Explanation	Modified Date
990457	US 101	142.68	Harlow Cr	Queets R	21	added to injunction barrier list	newly identified barrier- Significant Gain	1/9/2014
997355	US 101	155.80	unnamed	Pacific Ocean	21	not an injunction barrier	species use verified, salmon and/or steelhead are not present	8/19/2014
934255	US 101	167.52	unnamed	Fletcher Cr	20	added to injunction barrier list	newly identified barrier- Limited Gain	7/17/2018
996228	US 101	169.24	unnamed	Braden Cr	20	added to injunction barrier list	newly identified barrier- Significant Gain	3/2/2018
990552	US 101	169.69	unnamed	unnamed Braden Cr trib	20	added to injunction barrier list	newly identified barrier- Significant Gain	1/14/2019
997051	US 101	169.89	unnamed	unnamed tributary to Braden Creek tributary	20	added to injunction barrier list	species use verified, salmon and/or steelhead present- Limited Gain	3/7/2018
990553	US 101	170.12	unnamed	Hoh R	20	added to injunction barrier list	newly identified barrier- Significant Gain	3/2/2018
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
997072	US 101	177.97	unnamed	unnamed to Hell Roaring Cr	20	not an injunction barrier	species use verified, salmon and/or steelhead are not present	1/21/2014
991595	US 101	178.09	unnamed	unnamed to Hell Roaring Cr	20	not an injunction barrier	species use verified, salmon and/or steelhead are not present	1/21/2014
991589	US 101	178.30	unnamed	Hell Roaring Cr	20	not an injunction barrier	species use verified, salmon and/or steelhead are not present	1/21/2014
991590	US 101	178.63	unnamed	Hell Roaring Cr	20	not an injunction barrier	species use verified, salmon and/or steelhead are not present	1/21/2014
991591	US 101	179.13	unnamed	Hell Roaring Cr	20	not an injunction barrier	species use verified, salmon and/or steelhead are not present	1/21/2014
991592	US 101	179.57	Hell Roaring Cr	Hoh R	20	not an injunction barrier	species use verified, salmon and/or steelhead are not present	1/21/2014
997078	US 101	179.73	unnamed	Hell Roaring Cr	20	not an injunction barrier	species use verified, salmon and/or steelhead are not present	1/21/2014
991593	US 101	180.20	unnamed	EF Hell Roaring Cr	20	not an injunction barrier	species use verified, salmon and/or steelhead are not present	1/21/2014
997082	US 101	183.44	unnamed	Dowans Cr	20	not an injunction barrier	stream determined to be non-fish bearing	7/21/2014
990156	US 101	186.41	unnamed	Bogachiel R	20	not an injunction barrier	culvert determined to not be a barrier	3/27/2017
991515	US 101	187.79	unnamed	Bogachiel R	20	not an injunction barrier	species use verified, salmon and/or steelhead are not present	1/16/2014
933421	US 101	189.05	unnamed	Grader Cr	20	added to injunction barrier list	newly identified barrier- Significant Gain	1/26/2016
20.0312	0.60	197.10	Swanson Cr	Soleduck R	20.0312	not an injunction barrier	barrier corrected	12/20/2016
991565	US 101	221.00	unnamed	Lk Crescent	19	not an injunction barrier	species use verified, salmon and/or steelhead are not present	5/8/2015
996391	US 101	222.11	Eagle Cr	Lk Crescent	19	not an injunction barrier	species use verified, salmon and/or steelhead are not present	5/8/2015
996398	US 101	226.24	Smith Cr	Lk Crescent	19	not an injunction barrier	species use verified, salmon and/or steelhead are not present	5/7/2015
995823	US 101	239.31	unnamed	Indian Cr	18	added to injunction barrier list	newly identified barrier- Significant Gain	7/10/2017
990555	US 101	259.79	Owl Cr	Matriotti Cr	18	not an injunction barrier	barrier corrected	10/22/2014
18.0021	5.40	260.93	Matriotti Cr	Dungeness R	18.0021	not an injunction barrier	barrier corrected	10/13/2017
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
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
994464	US 101	269.45	unnamed	Sequim Bay	17	added to injunction barrier list	newly identified barrier- Significant Gain	5/8/2017
990107	US 101	270.57	Dean Cr	Sequim Bay	17	added to injunction barrier list	newly identified barrier - Significant Gain	8/13/2019
995496	US 101	284.87	unnamed	Snow Cr	17	added to injunction barrier list	newly identified barrier- Significant Gain	9/12/2017
991673	US 101	285.70	Andrews Cr	Snow Cr	17	added to injunction barrier list	newly identified barrier- Significant Gain	3/2/2018

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One hundred sixty-one culverts are no longer injunction barriers requiring repair. One hundred fifty-nine newly identified barrier culverts added to the injunction barrier list.

List sorted by Road and Milepost location

Site ID	Road	Milepost	Stream	Tributary to	WRIA	Disposition	Explanation	Modified Date
930373	US 101	291.73	unnamed	Leland Cr	17	added to injunction barrier list	newly identified barrier- Limited Gain	3/2/2018
999584	US 101	308.74	unnamed	Hood Canal	16	not an injunction barrier	Species use verified, salmon and/or steelhead are not present	11/4/2013
999335	US 101	310.27	unnamed	Hood Canal	16	added to injunction barrier list	newly identified barrier- Limited Gain	2/3/2017
991615	US 101	317.45	unnamed	Hood Canal	16	not an injunction barrier	species use verified, salmon and/or steelhead are not present	10/18/2014
933494	US 101	334.30	unnamed	Hood Canal	16	not an injunction barrier	culvert determined not to be a barrier. Limited Gain	7/11/2019
933494	US 101	334.47	unnamed	Hood Canal	16	added to injunction barrier list	newly identified barrier- Limited Gain	3/20/2017
996367	US 101	334.74	unnamed	Hood Canal	16	not an injunction barrier	culvert determined to not be a barrier	12/1/2015
993712	US 101	103.27	unnamed	Big Cr	22	added to injunction barrier list	newly identified barrier- Significant Gain	1/14/2019
933682	US 101; ROW	175.77	unnamed	Hoh R	20	added to injunction barrier list	newly identified barrier- Significant Gain	3/22/2016
932888	US 101; off-ramp	246.18	unnamed	Tumwater Cr	18	added to injunction barrier list	newly identified barrier- Significant Gain	4/13/2017
934250	US 101 ROW	253.84	unnamed	Bagley Creek	18	added to injunction barrier list	newly identified barrier- Significant Gain	1/4/2018
995760	US 101; NB onramp	284.87	unnamed	Snow Cr	17	added to injunction barrier list	newly identified barrier- Significant Gain	9/12/2017

Appendix III

Dedicated Funding Project Evaluations - Spawner Surveys

Appendix III. Dedicated Funding Project Evaluations - Spawner Surveys Since October 2019

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

WSDOT Region	Site ID	Road	Milepost	Stream	Tributary to	River Mile	Project Year	Survey Date	Species	Survey Location	Survey Timing	Survey Length (miles)	Live Fish Count	Dead Fish Count	Total Fish Count	Redd Count
NW	990187	SR 542	32.00	Hedrick Cr	Nooksack R	0.3	2018	01-Oct-19		Upstream	Post-Project	0.31	0	0	0	0
NW	990187	SR 542	32.00	Hedrick Cr	Nooksack R	0.3	2018	01-Oct-19	Pink	Downstream	Post-Project	0.31	2	3	5	0
NW	990187	SR 542	32.00	Hedrick Cr	Nooksack R	0.3	2018	20-Nov-19		Upstream	Post-Project	0.31	0	0	0	0
NW	990187	SR 542	32.00	Hedrick Cr	Nooksack R	0.3	2018	20-Nov-19		Downstream	Post-Project	0.31	0	0	0	0
NW	990187	SR 542	32.00	Hedrick Cr	Nooksack R	0.3	2018	19-Dec-19		Upstream	Post-Project	0.31	0	0	0	0
NW	990187	SR 542	32.00	Hedrick Cr	Nooksack R	0.3	2018	19-Dec-19	Pink	Downstream	Post-Project	0.31	1	0	1	0
NW	991160	SR 530	25.94	Schoolyard Cr	NF Stillaguamish R	0.66	2019	11-Dec-19		Upstream	Post-Project	0.31	0	0	0	0
NW	991160	SR 530	25.94	Schoolyard Cr	NF Stillaguamish R	0.66	2019	11-Dec-19	Unknown	Downstream	Post-Project	0.31	0	1	1	0
NW	991160	SR 530	25.94	Schoolyard Cr	NF Stillaguamish R	0.66	2019	08-Jan-20		Upstream	Post-Project	0.31	0	0	0	0
NW	991160	SR 530	25.94	Schoolyard Cr	NF Stillaguamish R	0.66	2019	08-Jan-20		Downstream	Post-Project	0.31	0	0	0	0
NW	991160	SR 530	25.94	Schoolyard Cr	NF Stillaguamish R	0.66	2019	29-Jan-20	Unknown	Upstream	Post-Project	0.31	0	1	1	0
NW	992349	SR 9	77.36	unnamed	Tawes Cr		2019	19-Nov-19		Upstream	Post-Project	0.31	0	0	0	0
NW	992349	SR 9	77.36	unnamed	Tawes Cr		2019	19-Nov-19		Downstream	Post-Project	0.31	0	0	0	0
NW	992349	SR 9	77.36	unnamed	Tawes Cr		2019	19-Dec-19		Upstream	Post-Project	0.31	0	0	0	0
NW	992349	SR 9	77.36	unnamed	Tawes Cr		2019	19-Dec-19		Downstream	Post-Project	0.31	0	0	0	0
NW	992349	SR 9	77.36	unnamed	Tawes Cr		2019	07-Jan-20		Upstream	Post-Project	0.31	0	0	0	0
NW	992349	SR 9	77.36	unnamed	Tawes Cr		2019	07-Jan-20		Downstream	Post-Project	0.31	0	0	0	0
NW	992350	SR 9	77.43	unnamed	unnamed Tawes Cr trib	0.06	2019	19-Nov-19		Upstream	Post-Project	0.31	0	0	0	0
NW	992350	SR 9	77.43	unnamed	unnamed Tawes Cr trib	0.06	2019	19-Nov-19		Downstream	Post-Project	0.31	0	0	0	0
NW	992350	SR 9	77.43	unnamed	unnamed Tawes Cr trib	0.06	2019	19-Dec-19		Upstream	Post-Project	0.31	0	0	0	0
NW	992350	SR 9	77.43	unnamed	unnamed Tawes Cr trib	0.06	2019	19-Dec-19		Downstream	Post-Project	0.31	0	0	0	0
NW	992350	SR 9	77.43	unnamed	unnamed Tawes Cr trib	0.06	2019	07-Jan-20		Upstream	Post-Project	0.31	0	0	0	0
NW	992350	SR 9	77.43	unnamed	unnamed Tawes Cr trib	0.06	2019	07-Jan-20		Downstream	Post-Project	0.31	0	0	0	0
NW	992356	SR 9	77.94	Tawes Cr	SF Nooksack R		2019	19-Dec-19	Coho	Upstream	Post-Project	0.31	1	1	2	1
NW	992356	SR 9	77.94	Tawes Cr	SF Nooksack R		2019	19-Dec-19		Downstream	Post-Project	0.31	0	0	0	0
NW	102 L020	SR 524	12.46	Great Dane Cr	Little Bear Cr	0.28	2018	21-Nov-19		Upstream	Post-Project	0.31	0	0	0	0
NW	102 L020	SR 524	12.46	Great Dane Cr	Little Bear Cr	0.28	2018	21-Nov-19		Downstream	Post-Project	0.31	0	0	0	0
NW	102 L020	SR 524	12.46	Great Dane Cr	Little Bear Cr	0.28	2018	19-Dec-19		Upstream	Post-Project	0.31	0	0	0	3
NW	102 L062	SR 202	0.14	Little Bear Cr	Sammanish R	0.23	2018	06-Nov-19		Upstream	Post-Project	0.31	0	0	0	0
NW	102 L062	SR 202	0.14	Little Bear Cr	Sammanish R	0.23	2018	06-Nov-19		Downstream	Post-Project	0.31	0	0	0	0
NW	102 L062	SR 202	0.14	Little Bear Cr	Sammanish R	0.23	2018	21-Nov-19		Upstream	Post-Project	0.31	0	0	0	0
NW	102 L062	SR 202	0.14	Little Bear Cr	Sammanish R	0.23	2018	21-Nov-19		Downstream	Post-Project	0.31	0	0	0	0
NW	102 L062	SR 202	0.14	Little Bear Cr	Sammanish R	0.23	2018	19-Dec-19		Upstream	Post-Project	0.31	0	0	0	0
NW	102 L062	SR 202	0.14	Little Bear Cr	Sammanish R	0.23	2018	19-Dec-19		Downstream	Post-Project	0.31	0	0	0	0
OL	991739	SR 112	7.35	Olsen Cr	Strait of Juan de Fuca	0.01	2018	29-Oct-19		Upstream	Post-Project	0.31	0	0	0	0
OL	991739	SR 112	7.35	Olsen Cr	Strait of Juan de Fuca	0.01	2018	29-Oct-19		Downstream	Post-Project	0.31	0	0	0	0
OL	991739	SR 112	7.35	Olsen Cr	Strait of Juan de Fuca	0.01	2018	02-Dec-19		Upstream	Post-Project	0.31	0	0	0	0
OL	991739	SR 112	7.35	Olsen Cr	Strait of Juan de Fuca	0.01	2018	02-Dec-19		Downstream	Post-Project	0.31	0	0	0	0
OL	991739	SR 112	7.35	Olsen Cr	Strait of Juan de Fuca	0.01	2018	11-Dec-19		Upstream	Post-Project	0.31	0	0	0	0
OL	991739	SR 112	7.35	Olsen Cr	Strait of Juan de Fuca	0.01	2018	11-Dec-19		Downstream	Post-Project	0.31	0	0	0	0

Appendix III. Dedicated Funding Project Evaluations - Spawner Surveys Since October 2019

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

WSDOT Region	Site ID	Road	Milepost	Stream	Tributary to	River Mile	Project Year	Survey Date	Species	Survey Location	Survey Timing	Survey Length (miles)	Live Fish Count	Dead Fish Count	Total Fish Count	Redd Count
OL	994791	US 12	9.06	unnamed	Wynoochee R	0.35	2018	24-Oct-19		Upstream	Post-Project	0.31	0	0	0	0
OL	994791	US 12	9.06	unnamed	Wynoochee R	0.35	2018	24-Oct-19		Downstream	Post-Project	0.31	0	0	0	0
OL	994791	US 12	9.06	unnamed	Wynoochee R	0.35	2018	13-Nov-19		Upstream	Post-Project	0.31	0	0	0	0
OL	994791	US 12	9.06	unnamed	Wynoochee R	0.35	2018	13-Nov-19		Downstream	Post-Project	0.31	0	0	0	0
OL	994791	US 12	9.06	unnamed	Wynoochee R	0.35	2018	26-Nov-19		Upstream	Post-Project	0.31	0	0	0	0
OL	994791	US 12	9.06	unnamed	Wynoochee R	0.35	2018	26-Nov-19		Downstream	Post-Project	0.31	0	0	0	0
SW	990735	SR 6	22.64	Salmon Cr	Rock Cr		2019	17-Dec-19		Upstream	Post-Project	0.31	0	0	0	0
SW	990735	SR 6	22.64	Salmon Cr	Rock Cr		2019	17-Dec-19		Downstream	Post-Project	0.31	0	0	0	0
SW	990735	SR 6	22.64	Salmon Cr	Rock Cr		2019	02-Jan-20		Upstream	Post-Project	0.31	0	0	0	0
SW	990735	SR 6	22.64	Salmon Cr	Rock Cr		2019	02-Jan-20		Downstream	Post-Project	0.31	0	0	0	0
SW	990735	SR 6	22.64	Salmon Cr	Rock Cr		2019	15-Jan-20		Upstream	Post-Project	0.31	0	0	0	0
SW	990735	SR 6	22.64	Salmon Cr	Rock Cr		2019	15-Jan-20		Downstream	Post-Project	0.31	0	0	0	0
SW	990746	SR 6	31.08	SB Fronia Cr	Fronia Cr		2019	17-Dec-19		Upstream	Post-Project	0.31	0	0	0	0
SW	990746	SR 6	31.08	SB Fronia Cr	Fronia Cr		2019	17-Dec-19		Downstream	Post-Project	0.31	0	0	0	0
SW	990746	SR 6	31.08	SB Fronia Cr	Fronia Cr		2019	02-Jan-20		Upstream	Post-Project	0.31	0	0	0	0
SW	990746	SR 6	31.08	SB Fronia Cr	Fronia Cr		2019	02-Jan-20		Downstream	Post-Project	0.31	0	0	0	0
SW	990746	SR 6	31.08	SB Fronia Cr	Fronia Cr		2019	15-Jan-20		Upstream	Post-Project	0.31	0	0	0	0
SW	990746	SR 6	31.08	SB Fronia Cr	Fronia Cr		2019	15-Jan-20		Downstream	Post-Project	0.31	0	0	0	0
SW	991634	SR 504	17.02	Wooster Cr	NF Toutle R	0.08	2018	05-Nov-19		Upstream	Post-Project	0.31	0	0	0	0
SW	991634	SR 504	17.02	Wooster Cr	NF Toutle R	0.08	2018	05-Nov-19		Downstream	Post-Project	0.31	0	0	0	0
SW	991634	SR 504	17.02	Wooster Cr	NF Toutle R	0.08	2018	25-Nov-19		Upstream	Post-Project	0.31	0	0	0	2
SW	991634	SR 504	17.02	Wooster Cr	NF Toutle R	0.08	2018	25-Nov-19		Downstream	Post-Project	0.31	0	0	0	4

Appendix IV

Monitoring Results

Appendix IV. Monitoring Results - 2019 Inspections

List sorted by WSDOT Region, Road, and Milepost

WSDOT Region	Site ID	Road	Milepost	Stream	Monitoring Type	Injunction	Comments	Results
NC	990413	97	159.24	Swauk Cr	Over-winter Inspection	no		passed
NC	992763	97	165.54	Tronson Cr tributary	Over-winter Inspection	no		passed
NW	991122	9	48.01	Gribble Cr	Over-winter Inspection	yes		passed
NW	991448	9	67.39	NP Creek	Increased Monitoring	yes	Streambed aggradation depth in culvert has reduced since last evaluation	passed; resume regular interval
NW	992349	9	77.36	Tawes Cr tributary	Post-Construction	yes		passed
NW	992350	9	77.43	Tawes Cr tributary	Post-Construction	yes		passed
NW	992356	9	77.94	Tawes Cr	Post-Construction	yes		passed
NW	996475	90	17	NF Issaquah Cr tributary	Increased Monitoring	yes	Subsurface flow condition does not mimic natural regime	modification needed
NW	990233	92	2.69	Little Plichuck Cr	Over-winter Inspection	yes		passed
NW	991202	167	25.94	Rolling Hills Cr	Over-winter Inspection	yes		passed
NW	102 L062	202	0.14	Little Bear Cr	Over-winter Inspection	yes	Monitor plane bed through structure	increase monitoring
NW	991717	203	4.91	Historic Langlois Cr	Over-winter Inspection	yes		passed
NW	995181	203	14.1	Thayer Cr	Increased Monitoring	yes	Monitor sub-surface flow through project reach	modification needed
NW	932370	410	31.12	Scatter Cr	Five Year	no		passed
NW	994459	520	4.48	Fairweather Cr	Pre-Repair	no	Culvert A - document pre-repair conditions	repair scheduled for 2019
NW	994459	520	4.48	Fairweather Cr	Post-Modification	no	Culvert A - recheck at low flow in 2020	passed; monitor annually
NW	998987	520	4.81	tributary to Cosy Cove	Project Office request	no	Culvert B – gather baseline data	passed
NW	994119	520	5.81	Yarrow Cr tributary	Pre-Repair	no	Culvert C - document pre-repair conditions	repair scheduled for 2019
NW	994119	520	5.81	Yarrow Cr tributary	Post-Modification	no	Culvert C - recheck at low flow in 2020	passed; monitor annually
NW	994234	520 ramp	5.95	Yarrow Cr	Project Office request	no	Culvert D – gather baseline data	passed
NW	991736	520	6.04	Yarrow Cr	Project Office request	no	Culvert E – gather baseline data	passed
NW	994236	520	6.19	Yarrow Cr	Five Year/Pre-Repair	yes		passed
NW	994236	520	6.19	Yarrow Cr	Pre-Repair/Five Year	yes	Culvert F - document pre-repair conditions	repair scheduled for 2019
NW	994236	520	6.19	Yarrow Cr	Post-Modification	yes	Culvert F - recheck at low flow in 2020	passed; monitor annually
NW	994238	520	6.27	Yarrow Cr	Five Year/Pre-Repair	yes		passed
NW	994238	520 ramp	6.27	Yarrow Cr	Pre-Repair/Five Year	yes	Culvert G - document pre-repair conditions	repair scheduled for 2019

Appendix IV. Monitoring Results - 2019 Inspections

List sorted by WSDOT Region, Road, and Milepost

WSDOT Region	Site ID	Road	Milepost	Stream	Monitoring Type	Injunction	Comments	Results
NW	994238	520 ramp	6.27	Yarrow Cr	Post-Modification	yes	Culvert G - recheck at low flow in 2020	passed; monitor annually
NW	994705	520	6.44	tributary to Yarrow Cr	Project Office request	yes	Culvert H – between interval monitoring requested	passed
NW	994125	522	21.97	Skykomish R tributary	Five Year	yes		passed
NW	102 L020	524	12.46	Great Dane Cr	Over-winter Inspection	yes		passed
NW	991160	530	25.94	Schoolyard Cr	Post-Construction	yes		passed
NW	995404	530	36.83	NF Stillaguamish tributary	Five Year	yes		passed
NW	991169	530	36.9	NF Stillaguamish tributary	Five Year	yes		passed
NW	991170	530	37.58	NF Stillaguamish tributary	Five Year	yes		passed
NW	990359	530	37.95	Rowan II Cr	Five Year	no		passed
NW	991171	530	37.96	NF Stillaguamish tributary	Five Year	no		passed
NW	995405	530	38.14	NF Stillaguamish tributary	Five Year	no		passed
NW	991059	531	8.71	Edgecomb Cr	Increased Monitoring	yes	Channel appears stable at high flow events	passed; resume regular interval
NW	05.0018 2.00	532	6.14	Church Cr	Increased Monitoring	yes	Monitor at low flow only for any persistent subsurface flow condition	passed; continue annual monitoring
NW	990624	532	9.75	Secret Cr	Increased Monitoring	yes	Continue monitoring to observe channel function over time	passed; continue annual monitoring
NW	01.0228 4.80	542	6.55	Anderson Cr	Increased Monitoring	yes	Continue monitoring regrade and low flow channel shape until stable	passed; continue to monitor annually to Year 5
NW	990187	542	32	Hedrick Cr	Over-winter Inspection	yes		passed
OL	22.0507 0.10	8	5	MF Wildcat Cr	Over-winter Inspection	yes		passed
OL	990133	8	6.3	EF Wildcat Cr	Over-winter Inspection	yes		passed
OL	994791	12	9.06	Wynoochee R tributary	Over-winter Inspection	yes		passed
OL	990555	101	259.79	Owl Cr	Five Year	yes		passed
OL	18.0021 5.40	101	260.93	Matriotti Cr	Increased Monitoring	yes	Monitor sub-surface flow through culvert	modification needed
OL	991739	112	7.35	Olsen Cr	Over-winter Inspection	yes		passed
OL	990214	112	33.21	Joe Cr	Increased Monitoring	yes	Losing flow through structure joint	repair needed
SC	999342	90	59.48	Resort Cr	Increased Monitoring	no	Subsurface flow under bridges persists	modification needed
SC	992948	90	60.6	Townsend Cr	Over-winter Inspection	no		passed
SC	992950	90	61.35	Price Cr	Over-winter Inspection	no		passed
SC	992951	90	61.44	Noble Cr	Over-winter Inspection	no		passed
SC	990048	129	0.9	Buford Cr	Post-Construction	no		passed

Appendix IV. Monitoring Results - 2019 Inspections

List sorted by WSDOT Region, Road, and Milepost

WSDOT Region	Site ID	Road	Milepost	Stream	Monitoring Type	Injunction	Comments	Results
SW	990735	6	22.64	Salmon Cr	Post-Construction	yes		passed
SW	990744	6	31.06	SB Fronia Cr	Post-Construction	yes	Additional work required for permit compliance	provisionally passed
SW	990746	6	31.08	Fronia Cr	Post-Construction	yes	Additional work required for permit compliance	provisionally passed
SW	991409	401	0.84	Megler Cr	Increased Monitoring	no	Crack in culvert appears stable and is not compromising structure	passed; resume regular interval
SW	991634	504	17.02	Wooster Cr	Over-winter Inspection	no	Monitor regrade again prior to coho season (September)	annual monitoring