



Washington Department of Fish and Wildlife

Fish Passage & Diversion Screening Inventory Database Report Cover Sheet

The following report is extracted from the Washington Department of Fish and Wildlife's (WDFW) Fish Passage and Diversion Screening Inventory Database (FPDSI). WDFW makes every attempt to keep these reports in sync with FPDSI; however, the dynamic nature of the data and workflows associated with maintaining the database may result in short-term differences.

Users are encouraged to contact WDFW to discuss appropriate use of the data and how we can assist with fish passage barrier removal or inventory. Please visit the Fish Passage web site for contact information at: <https://wdfw.wa.gov/species-habitats/habitat-recovery/fish-passage/about>

Disclaimers:

- Data presented here represent a snapshot observation of conditions in a dynamic environment that is subject to change. Fish passage data are also collected from a variety of agencies and sources. Therefore, WDFW makes no guarantee concerning the data's content, accuracy, completeness, or the results obtained from use of the data. WDFW assumes no liability for the data represented here.
- These data are not an attempt to provide you with an official agency response as to the impacts of your project on fish and wildlife.
- Note that some fish passage features, habitats or species may occur in areas not currently known to the WDFW Fish Passage division, and may not be reflected in this database. A lack of data does not necessarily indicate that a feature, habitat, or species are not present.
- Unauthorized attempts to alter or modify these data are strictly prohibited.
- Bankfull width measurements included in these reports should not be used for fish passage crossing design. They are solely for assessment purposes.
- The barrier status reported in this document is based on the swimming abilities of adult salmonids. Passabilities are a qualitative value, and should not be interpreted as a quantitative calculation. Please see page 1-4 of the Fish Passage Inventory, Assessment and Prioritization Manual for further clarification: <https://wdfw.wa.gov/publications/02061>
- EXIF data presented with Image Reports may be erroneous due to camera battery failures and resetting of camera clock functions.

Abbreviations:

Most abbreviations in this report are defined in the Quick Reference Tables of the Fish Passage Inventory, Assessment, and Prioritization Manual. Additional commonly used abbreviations are defined as follows:

NFB = no potential salmonid use, **BB** = both banks, **LB** = left bank looking downstream, **RB** = right bank looking downstream, **US** or **U/S** = upstream, **DS** or **D/S** = downstream, **WSDrop** = water surface drop, **BFW** = bankfull width, **OHW** = ordinary high water, **SLW** = scour line width, **CMP** = corrugated metal pipe, **Q_{fp}** = fish passage flow, **V&D** = Velocity and Depth, **ROW** = Right of Way

The FPDSI database often uses default values such as '-99.99' or '-999' to represent null values.

WDFW Fish Passage and Diversion Screening Inventory Database

Site Description Report

Site ID

Project

Geographic Coordinates

Latitude (WGS 84):	<input type="text" value="47.552809"/>
Longitude (WGS 84):	<input type="text" value="-122.54455009"/>
East (HARN 83):	<input type="text" value="1,135,558.6"/>
North (HARN 83):	<input type="text" value="815,976.4"/>

Waterbody

Stream:	<input type="text" value="Duncan Cr"/>
Tributary To:	<input type="text" value="Puget Sound"/>
WRIA:	<input type="text" value="15.0191"/>
River Mile:	<input type="text" value="0.06"/>
Fish Use Potential:	<input type="text" value="Yes"/>
FUP Criteria:	<input type="text" value="Physical"/>

General Location

Road Name:	<input type="text" value="Colcester Dr E"/>
Mile Post:	<input type="text" value="-999.99"/>
County:	<input type="text" value="Kitsap"/>
WDFW Region:	<input type="text" value="6"/>

Owner

Type:	<input type="text" value="County"/>
Name:	<input type="text" value="Kitsap County"/>

PI Species

<input type="checkbox"/> Sockeye	<input type="checkbox"/> Chinook	<input checked="" type="checkbox"/> Sea Run Cutthroat
<input type="checkbox"/> Pink	<input checked="" type="checkbox"/> Coho	<input checked="" type="checkbox"/> Resident Trout
<input checked="" type="checkbox"/> Chum	<input type="checkbox"/> Steelhead	<input type="checkbox"/> Bull Trout

Associated Features

<input checked="" type="checkbox"/> Culvert	<input type="checkbox"/> Dam	<input type="checkbox"/> Natural Barrier	<input type="checkbox"/> Diversion
<input type="checkbox"/> Non-Culvert Xing	<input type="checkbox"/> Other	<input type="checkbox"/> Fishway	

Location/Directions

Just south of the intersection with E. Hemlock Street in Manchester.

Site Comments

Print Date: 4/16/2019

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WDFW Fish Passage and Diversion Screening Inventory Database

Level A Culvert Assessment Report

Site ID: 15.0191 0.06	Stream: Duncan Cr	WRIA: 15.0191
Latitude: 47.552809	Tributary To: Puget Sound	Fish Use Potential: Yes
Longitude: -122.54455009		

Data Source	WDFW
Field Crew:	Davidson;Whitney
Review Date:	7/3/2001

Culvert Details							Level A Parameters					
ID	Shape	Material	Span	Rise	Length	WDIC	Apron	WSDrop	Location	Countersunk	Backwater	Slope (%)
1.1	RND		0.91	0.91	-999.90	-99.99	NO	0.16		No		-99.99

All dimensions in meters

Channel Description	
Toe Width (m):	2
Average Width (m):	-99.99
Culvert/Stream Width Ratio:	0.46
Plunge Pool	
Length (m):	-999.99
Max Depth (m):	-99.99
OHW Width (m):	-999.99
Road	
Fill Depth (m):	-999.90

No Image Available

Assessment Results			
Barrier:	Yes	Passability (%):	0
Reason:	Unspecified	Fishway Present:	No
		Method:	Professional Judgment
		Recheck:	

Comments
This culvert enters the fill upstream as a concrete round, crosses the road for about 130 ft., then turns parallel to the road for about 136 ft. to a concrete collector box, and turns again, emerging in about 20 ft. as a corrugated metal pipe.

Potential Habitat Gain			
Survey Type:	PS2	Spawning (sq m):	686
Significant Reach:	Yes	Rearing (sq m):	472
		Length (m):	846
		PI Total	14.94

Print Date: 4/16/2019

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WDFW Fish Passage and Diversion Screening Inventory Database

Habitat Survey Summary Report

Site ID: 15.0191 0.06			
Latitude: 47.552809	Longitude: -122.54455009	WRIA: 15.0191	
Stream: Duncan Cr	Tributary To: Puget Sound	PI Total: 14.94	

Survey Type

Spreadsheet File(s):

Downstream Survey

Date: Crew: Length (m):

Downstream Comments:

There are three recently installed log controls and a rock control (for a bed control) downstream of Colcester Drive, along with a new ABS driveway culvert. The project includes the addition of spawning gravel. Coho fry seen in all pools.

Upstream Survey

Date: Crew: Length (m):

Upstream Comments:

Reach 1 - Spawning habitat inundated by fine sediment settling above culvert. Reach 2,3,&4 - Rearing habitat modified due to going dry in summer months. Survey ended due to gradient and stream size. One accessible tributary for only 46 meters.

Potential Habitat Gain

Lineal (m): <input type="text" value="846"/>	<input type="checkbox"/> Distribution	<input type="text"/>
Spawning Area (sq m): <input type="text" value="686"/>		
Rearing Area (sq m): <input type="text" value="472"/>		
	<input checked="" type="radio"/> Anadromous	
	<input checked="" type="radio"/> Resident Only	
	<input type="radio"/> Unknown	

Potential Species Benefit

<input type="checkbox"/> Sockeye / Kokanee	<input type="checkbox"/> Chinook	<input checked="" type="checkbox"/> Searun Cutthroat
<input type="checkbox"/> Pink	<input checked="" type="checkbox"/> Coho	<input checked="" type="checkbox"/> Resident Trout
<input checked="" type="checkbox"/> Chum	<input type="checkbox"/> Steelhead	<input type="checkbox"/> Bull Trout

Print Date: 4/16/2019

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WDFW Fish Passage and Diversion Screening Inventory Database

Barrier Priority Index Report

Site ID: 15.0191 0.06

Stream	<input type="text" value="Duncan Cr"/>	Trib To	<input type="text" value="Puget Sound"/>	WRIA	<input type="text" value="15.0191"/>
Habitat (H) Estimation Method			<input type="text" value="PS2"/>		

	B	H	M	D	C	Species PI
Sockeye	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text" value="2"/>	<input type="text"/>
Pink	<input type="text"/>	<input type="text"/>	<input type="text" value="2"/>	<input type="text"/>	<input type="text" value="2"/>	<input type="text"/>
Chum	<input type="text" value="1"/>	<input type="text" value="384"/>	<input type="text" value="2"/>	<input type="text" value="1"/>	<input type="text" value="2"/>	<input type="text" value="6.62"/>
Coho	<input type="text" value="1"/>	<input type="text" value="422"/>	<input type="text" value="2"/>	<input type="text" value="1"/>	<input type="text" value="2"/>	<input type="text" value="3.03"/>
Chinook	<input type="text"/>	<input type="text"/>	<input type="text" value="2"/>	<input type="text"/>	<input type="text" value="2"/>	<input type="text"/>
Steelhead	<input type="text"/>	<input type="text"/>	<input type="text" value="2"/>	<input type="text"/>	<input type="text" value="2"/>	<input type="text"/>
Searun Cutthroat	<input type="text" value="1"/>	<input type="text" value="422"/>	<input type="text" value="2"/>	<input type="text" value="1"/>	<input type="text" value="2"/>	<input type="text" value="2.81"/>
Resident Trout	<input type="text" value="1"/>	<input type="text" value="472"/>	<input type="text" value="1"/>	<input type="text" value="1"/>	<input type="text" value="2"/>	<input type="text" value="2.48"/>
Dolly/Bull Trout	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text" value="2"/>	<input type="text"/>
					TOTAL PI	14.94

B = proportion of fish passage improvement (1, 0.67, 0.33).

H = potential habitat gain (square meters), spawning habitat for sockeye, pink and chum, rearing habitat for the rest.

M= mobility modifier (anadromous = 2, resident = 1).

D = stock condition modifier (critical = 3, depressed = 2, not 2 or 3 = 1).

C= repair cost modifier (<\$100K = 3, \$100K - \$500K = 2, >\$500K = 1).

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