

## WDFW Fish Passage and Diversion Screening Inventory Database

### Site Description Report

Site ID

Project

#### Geographic Coordinates

Latitude (WGS 84):	<input type="text" value="47.429157"/>
Longitude (WGS 84):	<input type="text" value="-122.319557"/>
East (HARN 83):	<input type="text" value="1,190,066.3"/>
North (HARN 83):	<input type="text" value="769,510.2"/>

#### General Location

Road Name:	<input type="text" value="SR 509; FUT"/>
Mile Post:	<input type="text" value="2.17"/>
County:	<input type="text" value="King"/>
WDFW Region:	<input type="text" value="4"/>

#### Waterbody

Stream:	<input type="text" value="unnamed"/>
Tributary To:	<input type="text" value="Des Moines Cr"/>
WRIA:	<input type="text" value="09"/>
River Mile:	<input type="text" value="-999.99"/>
Fish Use Potential:	<input type="text" value="Yes"/>
FUP Criteria:	<input type="text" value="Physical"/>

#### Owner

Type:	<input type="text" value="State"/>
Name:	<input type="text" value="Washington State Department of Transportation"/>

#### 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 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

#### Site Comments

Print Date: 5/17/2021

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# WDFW Fish Passage and Diversion Screening Inventory Database

## Level A Culvert Assessment Report

Site ID:	935212		
Latitude:	47.429157	Stream:	unnamed
Longitude:	-122.319557	Tributary To:	Des Moines Cr
		WRIA:	09
		Fish Use Potential:	Yes

Data Source:	Washington Department of Fish and Wildlife		
Field Crew:	Gallatin;Shulock;Storvick	Review Date:	11/9/2020

Culvert Details								Level A Parameters				
<u>ID</u>	<u>Shape</u>	<u>Material</u>	<u>Span</u>	<u>Rise</u>	<u>Length</u>	<u>WDIC</u>	<u>Apron</u>	<u>WSDrop</u>	<u>Location</u>	<u>Countersunk</u>	<u>Backwater</u>	<u>Slope (%)</u>
1.1		PCC	0.46	0.46	95.30	0.46	NO	0.00		No	1	0.46
All dimensions in meters												

<b>Channel Description</b>	
Toe Width (m):	
Average Width (m):	2.90
Culvert/Stream Width Ratio:	0.16
<b>Plunge Pool</b>	
Length (m):	0.00
Max Depth (m):	-99.99
OHW Width (m):	-999.99
<b>Road</b>	
Fill Depth (m):	3.00

No Image Available

<b>Assessment Results</b>			
Barrier:	Yes	Passability (%):	67
Reason:	Depth	Fishway Present:	No
		Method:	Level B
		Recheck:	

<b>Comments</b>
Inlet is CST, beveled with barrier rack: .06m horizontal gap. [LvIB-Storvick, 11/9/2020, FishXing. Qfp = 0.02]

<b>Potential Habitat Gain</b>			
Survey Type:	TD	Spawning (sq m):	-999
Significant Reach:	No	Rearing (sq m):	-999
		Length (m):	-999
		PI Total	

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# WDFW Fish Passage and Diversion Screening Inventory Database

## Level B Culvert Assessment Report

Site ID:

### Reference Point

Elevation (m):  Location:

### Drainage Basin

Basin Area (sq mi):  Basin Precipitation (in):

### Culvert Elevations

<u>Culvert ID</u>	<u>Corrugation</u>	<u>USIE (m)</u>	<u>USCBE (m)</u>	<u>DSIE (m)</u>	<u>DSCBE (m)</u>
<input type="text" value="1.1"/>	<input type="text" value="Concrete"/>	<input type="text" value="100.00"/>	<input type="text" value="-999.99"/>	<input type="text" value="99.56"/>	<input type="text" value="-999.99"/>

### Downstream Control

#### X-Section

<u>Station</u>	<u>Top LB</u>	<u>Toe LB</u>	<u>Bed 1</u>	<u>Bed 2</u>	<u>Bed 3</u>	<u>Toe RB</u>	<u>Top RB</u>
Distance (m)	<input type="text" value="0.00"/>	<input type="text" value="1.00"/>	<input type="text" value="1.25"/>	<input type="text" value="1.65"/>	<input type="text" value="2.00"/>	<input type="text" value="2.50"/>	<input type="text" value="2.95"/>
Elevation (m)	<input type="text" value="100.71"/>	<input type="text" value="100.08"/>	<input type="text" value="100.03"/>	<input type="text" value="100.06"/>	<input type="text" value="100.07"/>	<input type="text" value="100.11"/>	<input type="text" value="100.47"/>

Downstream Control Water Surface Elevation (m):

Downstream Control OHW Surface Elevation (m):

### 15 Meters Downstream of Downstream Control

Water Surface Elevation (m):  Dominant Channel Substrate:

### Results

Velocity (m/sec):  Depth (m):

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## WDFW Fish Passage and Diversion Screening Inventory Database

### Habitat Survey Summary Report

Site ID: **935212**

Latitude: **47.429157** Longitude: **-122.319557** WRIA: **09**

Stream: **unnamed** Tributary To: **Des Moines Cr** PI Total:

Survey Type

Spreadsheet File(s):

#### Downstream Survey

Date:  Crew:  Length (m):

Downstream Comments:

46.2m SLW=1.05m. 110m wetland habitat w/ evidence of surface flow. SLW=1.86m at 150m. Standpipe at end of channel connects to stormwater system and outlets at site 935074 (connection confirmed w/ dye tabs). Dom blkbrry, knotweed, willow.

#### Upstream Survey

Date:  Crew:  Length (m):

Upstream Comments:

BFW 2.9m scour 1.82, banks covered with invasive knotweed, blkberry, nightshade. Fines dom substrate, low gradient, some overstory cover. End of fish use at 80m; loss of SLW & no surface flow evidence.

#### Potential Habitat Gain

Lineal (m):

Spawning Area (sq m):

Rearing Area (sq m):

Distribution

- ☒ Anadromous  
☐ Resident Only  
☐ Unknown

Gain Direction (Resident Only):

#### Potential Species Benefit

☐ Sockeye / Kokanee

☐ Chinook

☒ Searun Cutthroat

☐ Pink

☒ Coho

☒ Resident Trout

☐ Chum

☐ Steelhead

☐ Bull Trout

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