

# ANNUAL STREAM REPORT

## WILLIAMS CREEK

2016

AREA: 4 MAINLAND  
LOCATION: LAKELSE

WATERSHED CODE: 420-984300-00000-00000-0000-0000-000  
WATERBODY ID: 00000LKEL

ALIAS 1: WILLIAMS CREEK  
ALIAS 2:

INSPECTION DATES:

ABORIGINAL NAME 1:

ABORIGINAL NAME 2:

SPECIES	ARRIVAL IN STREAM	DATES OF SPAWNING			# OF STREAM INSPECTIONS USED	METHOD	CLASS	ANNUAL ESTIMATE	ENTIRE STREAM ESTIMATE	ESTIMATE STAGE
		START	PEAK	END						
SOCKEYE					4		3	6254		Final
COHO							6	N/I		Final
PINK							6	N/I		Final
CHUM							6	DNS		Final
CHINOOK							6	N/I		Final

### Annual Estimate Rationale:

The areas were assessed for spawning on Williams Creek; from the mouth to the bridge on highway 37 including 400-500 metres above the bridge on highway 37.

Overall water flow was low/medium. Water clarity, temperature, flow and weather conditions for survey observations for the seven assessment periods were as follows:

Aug 15-Windy/Sunny  
Aug 23-Windy/Sunny  
Aug 29-Windy/Sunny  
Sept 6-8 degrees, Sunny

### Unusual Fish Conditions:

### Unusual Stream Conditions:

### General Comments:

Affiliation: Kitselas First Nation

CreatedBy: Ken McDames Jr.

December 14, 2016 11:23

UpdatedBy: Marilyn Helin

February 6, 2018 11:15

**ESTIMATE METHOD:** 1 = Peak Live Plus Dead; 2 = Peak Live Plus Cumulative Dead; 3 = Area Under the Curve; 4 = Fixed Site Census; 5 = Expert Opinion; 6 = Redd Count; 8 = Mark and Recapture; 12 = Other

**ANNUAL ESTIMATE:** N/O = None Observed; N/I = Species Not Inspected; DNS = Does Not Spawn; A/P = Adults Present; F/P = Fry Present

**ESTIMATE CLASSIFICATION:** 1 = An estimate of high resolution from an unbreached fence count. The estimate uncertainty is believed to be less than plus or minus 10% of the actual estimate; 2 = An estimate of high resolution based on documented measured data; 3 = An estimate of high resolution based on three or more documented inspections of walking, floating, or flying which clearly define the peak of spawning and contain high adult live estimates with high fish count abilities; Or an estimate of medium resolution based on documented data from a Mark & Recapture, Fixed Site method, or medium to high AUC calculation. The estimate uncertainty is believed to be less than plus or minus 25% of the actual estimate; 4 = An estimate of medium resolution based on the documentation of two or more walking, floating, or flying inspections around the peak of spawning containing high adult live estimates with high fish count abilities; Or possibly low reliable fence count records, Mark & Recapture data or low to medium AUC calculations. The estimate uncertainty is believed to be no better than plus or minus 25% of the actual estimate; 5 = Low Resolution; 6 = N/O, A/P, N/I, DNS, F/P.



## TECHNICAL MEMORANDUM

TO: AFS PROGRAM MANAGER  
CC:

FROM: KEN MCDAMES JR

ORGANIZATION: DEPARTMENT OF FISHERIES  
AND OCEANS

DATE: DECEMBER 14, 2016

SUBJECT: WILLIAMS CREEK SPAWNING ASSESSMENT

As part of the Aboriginal Fisheries Strategy (AFS) deliverables for 2016/2017 field crews from the Kitselas Resource Department conducted spawning assessments on Williams Creek on August 15, 23, 29, and September 6, of 2016.

### Williams Creek Spawning Assessment

The areas were assessed for spawning on Williams Creek; from the mouth to the bridge on highway 37 including 400-500 metres above the bridge on highway 37.

Overall water flow was low/medium. Water clarity, temperature, flow, and weather conditions for survey observations for the seven assessment periods were as follows:

- August 15, 2016 – Windy, Sunny
- August 23, 2016 – Windy, Sunny
- August 29, 2016 – Windy, Sunny
- September 6, 2016 - 8°C, Sunny



Table 1 shows the results from August assessment areas, including adult counts, activity, number of redds, and number of mortalities.

Table 1: Spawning Assessments on Williams Creek

		15-Aug-2016		23-Aug-2016		29-Aug-2016	
		Reach 1	Reach 5	Reach 1	Reach 5	Reach 1	Reach 5*
<b>Pink</b>	Count	-	-	-	-	-	-
	Activity	-	-	-	-	-	-
	# Redds	-	-	-	-	-	-
	Morts	-	-	-	-	-	-
<b>Chum</b>	Count	-	-	-	-	-	-
	Activity	-	-	-	-	-	-
	# Redds	-	-	-	-	-	-
	Morts	-	-	-	-	-	-
<b>Chinook</b>	Count	-	-	-	-	-	-
	Activity	-	-	-	-	-	-
	# Redds	-	-	-	-	-	-
	Morts	-	-	-	-	-	-
<b>Coho</b>	Count	-	-	-	-	-	-
	Activity	-	-	-	-	-	-
	# Redds	-	-	-	-	-	-
	Morts	-	-	-	-	-	-
<b>Sockeye</b>	Count	-	-	-	-	-	-
	Activity	988 Holding	-	1364 Spawning	-	57 Spawning 3199 holding	-
	# Redds	-	-	-	-	-	-
	Morts	1	-	6	-	57	-



Table 2 shows the results from September assessment areas, including adult counts, activity, and number of mortalities.

**Table 2: Spawning Assessments on Williams Creek**

		6-Sept-2016			
		Reach 1			
<b>Pink</b>	Count	-	-	-	-
	Activity	-	-	-	-
	# Redds	-	-	-	-
	Morts	-	-	-	-
<b>Chum</b>	Count	-	-	-	-
	Activity	-	-	-	-
	# Redds	-	-	-	-
	Morts	-	-	-	-
<b>Chinook</b>	Count	-	-	-	-
	Activity	-	-	-	-
	# Redds	-	-	-	-
	Morts	-	-	-	-
<b>Coho</b>	Count	-	-	-	-
	Activity	-	-	-	-
	# Redds	-	-	-	-
	Morts	-	-	-	-
<b>Sockeye</b>	Count	-	-	-	-
	Activity	225 Spawning 1502 Holding	-	-	-
	# Redds	-	-	-	-
	Morts	225	-	-	-

Overall, a maximum of 6254 Sockeye Salmon were observed in surveyed areas of Williams Creek.