STREAM INVENTORY

TAGIT CREEK AND ADJACENT TRIBUTARIES 1997

WATERSHED CODE: 460-6006-445

Prepared by

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for

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BACKGROUND

An aquatic stream inventory was conducted in Tagit Creek and four adjacent tributaries located in the Morice Watershed 40 km southwest of Houston, BC (Figure 1). These studies were a continuation of an aquatic inventory program initiated in the Thautil Operating Area (Morice TSA 20) during the summer and fall of 1996 (Bustard 1997).

The specific objectives of the program were as follows:

- to identify the known watershed distributions of fish presence/absence based on existing information;
- to identify stream gradients and potential obstructions to fish passage within the study streams;
- to identify stream reaches for all study streams;
- to delineate the distributions of fish and fish habitat throughout the study streams to allow for the identification and classification of fish-bearing streams under the Forest Practices Code (FPC) at a mapping scale of 1:20,000;
- to provide FPC riparian classification for stream reaches sampled during watershed inventory;
- to identify key habitat features/sites requiring special management attention during watershed inventory, including whether bull trout were present in the watersheds;
- to provide baseline distributions of stream-dependent amphibian species and life-history stages.

The major emphasis of the study was to provide a broad-based aquatic inventory at an operational and landscape level to facilitate planning for forest development that minimizes impacts on the aquatic resources of the watershed. Emphasis was placed on accurately describing the distribution of fish within the study streams and establishing a riparian classification for all stream sections.

The report is separated into three sections:

SECTION 1 presents an overview of the key results of the fish and habitat sampling including fish distribution, relative abundance, and a comparison to historical data where available. Recommendations concerning habitat restoration (mainly stream crossing concerns) are included in this section. A 1:50,000 map showing the location of the study streams, fish distribution and main barriers is included at the back of this report. This map also shows the main roads and logging history of the study area.

SECTION 2 presents the detailed results for sampling. A summary of all fish sampled and the stream survey card information for each tributary are presented in this section. These summaries are intended for use with 1:20,000 maps accompanying this report.

Photodocumentation information is presented in **SECTION 3**.

ACKNOWLEDGMENTS

The studies were funded by the Operational Inventory Program of Forest Renewal BC, with Houston Forest Products (HFP) as the project proponent. The overall inventory program was coordinated by Melissa Todd of HFP. Andy Witt was the contract monitor. The field surveys were conducted by Rob Dams, Kate Portman, Dave Bustard, Jordan Beblow, and Ian Fuhr. Kate Portman and Rob Dams were responsible for all data compilation and draft map preparations. Western Geographic Information Systems Inc. was responsible for GIS digital mapping.

Provincial Disclaimer

The Province has not accepted the contents of this product for the purposes of the Forest Practices Code, and reserves the right to dispute the validity of the summarized results. The Province does not necessarily agree with the classification assigned to any individual stream reach, for use in logging plans, silviculture prescriptions or any other application.

SECTION 1

1.1 STUDY AREA

The study area is located on the north side of the Morice River immediately east of the Thautil River, and comprises the southeast section of the Thautil Operating Area. The three main creek systems, Tagit, False Tagit, and O'Dine creeks range from approximately 8 to 11 km in length. Two small creek systems at either end of the study area (Swamp Creek and Unnamed Creek WS Code 400-60006-397) are 2 and 4 km in length.

The study area is located in the Sub-boreal Spruce biogeoclimatic zone. The streams drain moderately steep forested hillsides, interspersed with wetlands and rock outcrops at elevations ranging from 700 to 1300 m. Stream gradients in all of the streams tend to steepen in the lower one km section as the creeks drop off the gentle bench areas down onto the Morice River floodplain.

No permanent snowfields or glaciers are present in the watershed, and these small streams typically experience highest flows during the snowmelt period in May and early June. Low flows occur during both the late summer and winter periods. Some smaller tributaries dewater during these periods. The presence of Chisholm Lake in Tagit Creek, as well as four smaller unnamed lakes in False Tagit Creek, and numerous beaver dam - wetland complexes play an important role in retaining water during these low flow periods.

Water temperatures up to 17°C were recorded in Tagit and False Tagit creeks during the first week of July. We suspect that temperatures can approach 20°C during warm dry periods in the late summer.

The mainline logging road into the Thautil on the north side of the Morice crosses all of the study streams. Spur roads are present into logged settings in the lower and mid-reaches of Tagit and False Tagit creeks. Proposed cutblocks are planned throughout the study area during the next decade (see 1:50,000 map).

The southern boundary of the study area borders on the Morice River, an outstanding salmon and steelhead river offering a provincially significant sport fishery. The streams flow directly into river sections utilized by chinook (*Oncorhynchus tshawytscha*), coho (*Oncorhynchus kisutch*) and pink (*Oncorhynchus gorbuscha*) salmon and steelhead trout (*Oncorhynchus mykiss*) for spawning and rearing[1]. Both water quality and viewscape are important features associated with land-use activities along the Morice River.
Chisholm Lake is the most significant waterbody in the study area. The lake area is 122 ha, with mean and maximum depths of 9 and 24 m respectively (DeGisi and Schell

[1] See Envirocon (1984) for detailed information describing fish utilization of this section of the Morice River.

1997). Chisholm Lake supports a relatively diverse fish community including a moderately abundant population of cutthroat trout (*Oncorhynchus clarki*). Although there is good access to this lake, it does not attract many anglers due to the small fish size. For example, the maximum fork length of 93 cutthroat trout sampled in the lake was 26 cm (DeGisi and Schell 1997). Inlet streams to Chisholm Lake were examined for up to 0.5 km upstream, and sampling information from these surveys has been incorporated into the mapping and data summaries of this report.

Some background fisheries information was collected on lower lower Tagit and False Tagit creeks during the Kemano Completion studies on the Morice River (Envirocon Ltd. 1984). These studies were conducted during 1979 prior to the development of the Chisholm Forest Service Road, and access was gained by walking upstream from the mainstem Morice. The Envirocon studies indicated that juvenile steelhead and coho were present in Tagit and False Tagit creeks. Surveys on lower Tagit Creek (Shepard and Algard 1977) and on lower False Tagit Creek (Morris and Eccles 1975) also indicated juvenile steelhead and coho were present in these systems during the mid 1970's.

All of the early stream surveys in the study area were restricted to the lower portions of the mainstem creeks, and indicated that steelhead and coho were present in these lower sections. It was assumed that they had moved up into these creeks from the mainstem Morice River. No surveys included the upper reaches and the extensive network of tributary streams present in the study area.

Dolly Varden (*Salvelinus malma*) and Pacific lamprey (*Lampetra tridentata*) were also noted up to 4 km upstream on False Tagit Creek (Envirocon Ltd. 1984).

1.2 METHODS

1.2.1 TIMING

Preliminary mapping and air photo studies to identify preliminary reach breaks and sample site locations was conducted during April and May 1997. The field studies were undertaken from the last week of May through until mid-July. The end of May period coincided with the cutthroat trout spawning period, while some fry emergence had begun by early July. The early portion of the study period concentrated on the small tributaries and lake-headed areas. The downstream sections of the larger tributaries were not sampled until the early July period due to high flow conditions making sampling difficult.

1.2.2 LOGISTICS

Road access combined with walking was used whenever available throughout the study area. Approximately 10 hours of helicopter time (Northern Mountain Helicopters based out of Houston) was required to access areas too far from the roads to walk into.

Most of the field surveys were conducted by a crew of two. A second crew assisted during flying days, to make effective use of the helicopter.

1.2.3 STREAM IDENTIFIERS

Watershed codes were available from the MELP office in Smithers from maps at a 1:50,000 scale. These were transferred to the 1:20,000 base maps. Since many of the smaller tributaries do not appear on the larger scale maps and therefore did not have a map designation at the 1:20,000 scale, we developed an interim location point identifier consisting of a mix of letters (first letter of tributary) and the number (n^{th} tributary upstream from the mouth of the main tributary). Each stream has this unique designation, while only some have the official watershed code as digitized by MELP.

1.2.4 HABITAT AND FISH SAMPLING

Resources Inventory Committee (RIC) Standard Reconnaissance Level Stream Inventory (MOELP, Draft 1995) and Forest Practices Code guidebooks provided the framework for conducting the fish and habitat surveys. The details of the sampling procedure are laid out in the *Schedule A Streams* accompanying reconnaissance level stream survey contracts conducted in 1996. These surveys were a continuation of a 1996 contract.

Several modifications were made to methodologies in consultation with the project monitor to allow for a more realistic achievement of program objectives. These are outlined below:

- The stream surveys emphasized distribution information. Considerable effort was directed at establishing the upstream barriers to fish distribution. In areas with poor access, or where tributaries continued for a considerable distance at slopes less than 20%, an estimate of the upper extent of fish access was made based on map contours and aerial reconnaissance observations. These sites have been delineated as suspected fish habitat on the accompanying aquatic maps (dashed red lines).

- Fish sampling was conducted above and below potential barriers. If extensive areas of potential fish habitat were identified as barren due to downstream barriers, a minimum of two sites were established to confirm barren designation. The main fish species present in the upper reaches of study streams were cutthroat and Dolly Varden. These species are present in the tributaries year-round, making it unnecessary to repeat sampling in these creeks during a different season to confirm that they are barren.

We did not conduct detailed ground habitat assessments along the entire length of larger channels similar to those conducted in the Thautil River on any of the five study streams. None of these streams were utilized by bull trout, and although they are utilized by coho and steelhead, use is restricted to the lower sections accessible from the Morice River.

Electrofishing was the main method of fish sampling in the study area. Generally, a lower stopnet was used at the sample sites, and a single pass was made up and back down to the net. Stopnets were not used where access was poor and a long hike was required. Overnight minnow trap sets were used in some of the deep slow-flowing stream and small lake habitats. Fish index sites assessing fish densities using multiple pass removal were not established at sites in this study area.

Branchiostegal ray counts were conducted on all char larger than 50 mm fork length. These counts, in conjunction with head shape, were used to separate Dolly Varden and bull trout (*Salvelinus confluentus*) in this study.

1.2.5 AMPHIBIAN DISTRIBUTION

Amphibian presence/absence information was recorded during the reconnaissance inventory. Electrofishing and minnow trapping, particularly in pond and small headwater lake areas provided special opportunities for amphibian observations. Care was taken to look for tailed frogs in steeper tributaries.

1.3 RESULTS AND DISCUSSION

1.3.1 DISTRIBUTION AND ABUNDANCE BY SPECIES

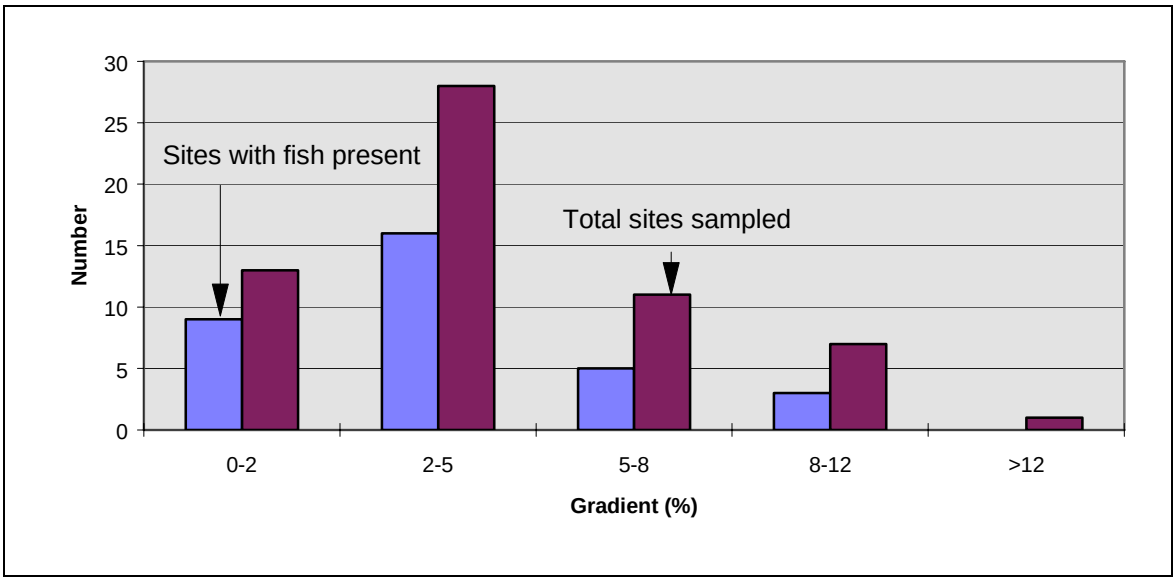
Habitat descriptions and fish sampling was conducted at a total of 60 sites in the five study streams, primarily in Tagit and False Tagit creeks (Table 1). Fish were present at 33 of these sites. No bull trout were identified in any of the study streams.

Figure 2 shows the summary of sample sites by gradient characteristics. Only a single site with a stream gradient of >12% was sampled, reflecting the relatively gentle terrain characteristic of much of the fish-producing sections of the watershed. The upper limit of fish distribution in the study streams was often determined by a sharp increase in stream gradient at the base of steeper hillsides in conjunction with decreased stream size to a point that the streams were too small to support resident fish populations. Beaver dams play an important role in determining the upper extent of anadromous fish access in both Tagit and False Tagit creeks.

Table 1. Summary of Number of Sites Sampled and Breakdown of Species Present at Sample Sites for the Five Study Streams.

	Number of sites sampled	Fish present	Fish not present	Cutthroat Trout	Dolly Varden	Coho	Steelhead
Unnamed	1	0	1	0	0	0	0
False Tagit	23	12	11	12	1	0	1
Tagit[2]	27	15	12	12	9	1	1
O'Dine	6	4	2	4	0	1	1
Swamp	3	2	1	2	0	1	0
Total	60	33	27	30	10	3	3

Figure 2. Summary of Fish Sample Sites by Gradient.



[2] Four sample sites LS1 to LS4 are not included in these totals. These sites were examined during the 1996 lake surveys at Chisholm Lake (DeGisi and Schell 1997).

1.3.1.1 Cutthroat Trout

Cutthroat trout were the most frequently encountered species, and were present at 30 of the 33 fish sites (Table 1). Cutthroat trout were the dominant species in all of the creeks sampled except Swamp Creek, and comprised 78% of the total number of fish sampled in the five study streams (Table 2).

Spawners in Tagit Creek ranged from 20-28 cm fork length (Figure 3). Ripe spawners were captured at the end of May at Site 9 in Ta1, and kelts were sampled in mid-June through early July in Tagit Creek upstream from Chisholm Lake (Sites 1 and 5).

Cutthroat trout in Tagit Creek achieve a larger size than in the other systems and are presumably part of the Chisholm Lake population that achieve a similar size (DeGisi and Schell 1997).

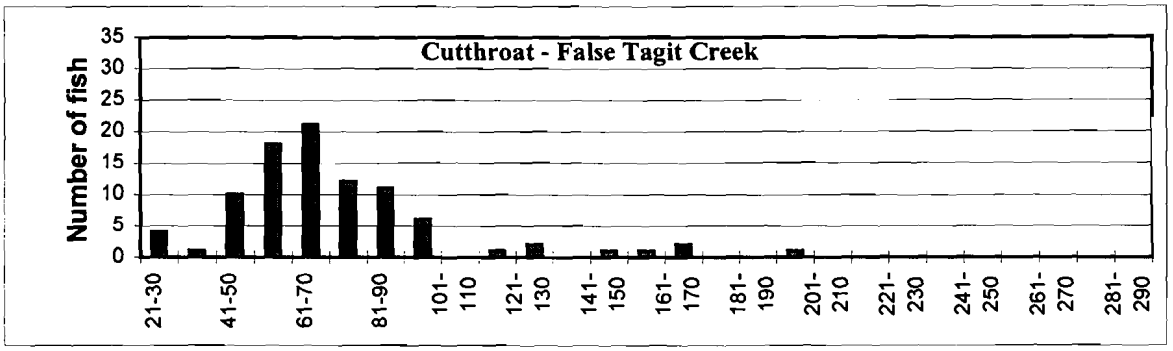
No cutthroat larger than 20 cm were captured in the other tributary streams (Figure 3). We suspect these other populations are a mix of stream and small lake residents.

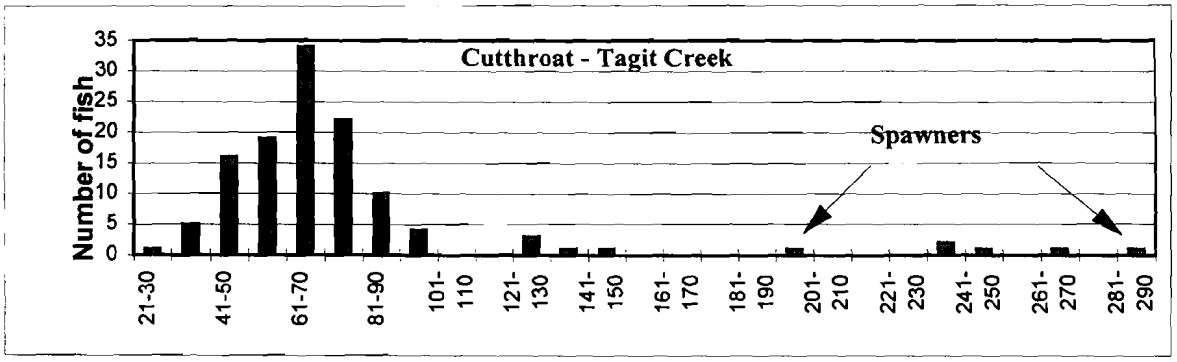
Table 2. Fish Species Composition by Study Stream.

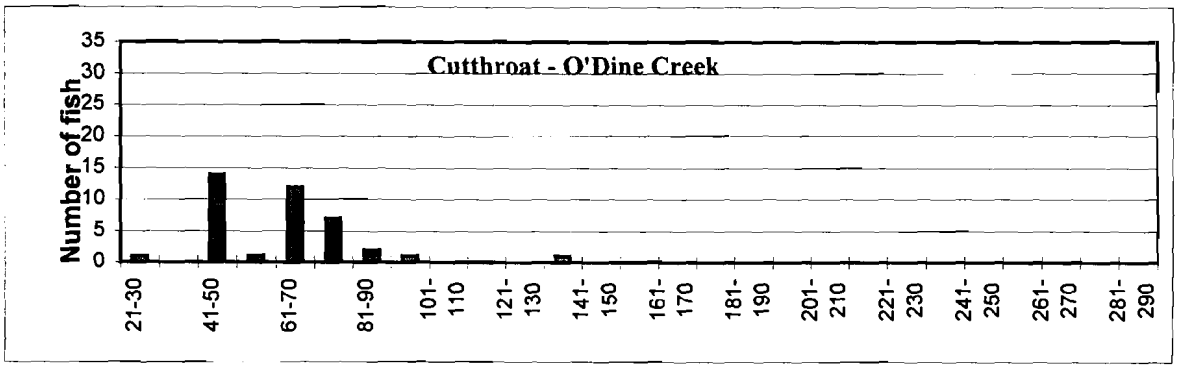
Stream		Cutthroat	Rainbow	Dolly Varden	Coho	Longnose Dace[3]	Sculpin sp.[4]	Pacific lamprey	TOTAL
False Tagit	#	90	10	1	0	2	0	2	105
	%	85.7	9.5	1.0	0.0	1.9	0.0	1.9	
Tagit	#	122	33	4	1	8	1	Present	169
	%	72.2	19.5	2.4	0.6	4.7	0.6		
O'Dine	#	40	2	0	1	0	0		43
	%	93.0	4.7	0.0	2.3	0.0	0.0		
Swamp	#	4	0	0	8	0	0		12
	%	33.3	0.0	0.0	66.7	0.0	0.0		
TOTAL	#	256	45	5	10	10	1		327
	%	78.3	13.8	1.5	3.1	3.1	0.3		

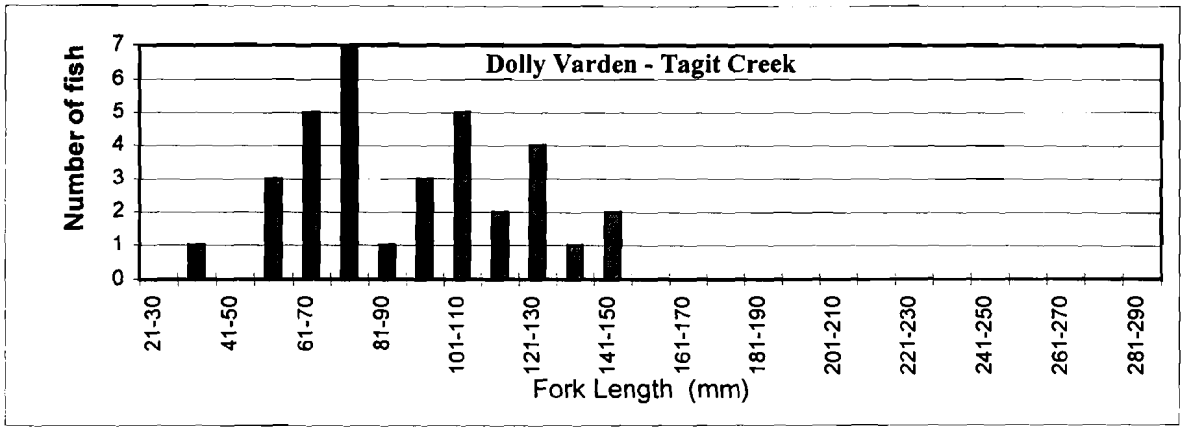
[3] *Rhinichthys cataractae*
[4] *Cottus asper*

Figure 3. Length Frequency of Cutthroat and Dolly Varden Sampled in Study Streams.









Cutthroat spawning appeared to be widespread throughout the study streams based on the presence of fry at many of the sample site locations. Spawners or newly-emerged fry were noted in the mainstem Tagit Creek for at least 5 km upstream from Chisholm Lake, and the lower ends of Ta1 and Ta7. Newly-emerged cutthroat fry were also identified in False Tagit Creek in the vicinity of Site 4 (downstream from lake).

Cutthroat trout were sampled at sites with gradients ranging from 0.5 to 10% (Table 3). The mean channel width of cutthroat trout sample sites was 2.9 m.

Table 3. Slope and Channel Width Characteristics of Sample Sites with Fish Species Present Combined for the Five Study Streams.

	Slope (%)		Channel Width (m)	
	Cutthroat	**Dolly Varden**	**Cutthroat**	**Dolly Varden**
Mean	3.3	4.8	2.9	4.1
Number	30	10	30	10
Maximum	10.0	11.0	6.6	6.6
Minimum	0.5	2.0	0.8	0.5

1.3.1.2 Dolly Varden

Dolly Varden were present at 10 sites, mostly in Tagit Creek. A single char fry (assumed to be Dolly Varden) was sampled at the lower site in False Tagit Creek. It is interesting to note that the main area for Dolly Varden use was in the mainstem of Tagit Creek upstream from Chisholm Lake and in a large headwater tributary (Ta9).

Dolly Varden were present at sites up to 11% slope and with a mean channel width of 4.1 m. This summary suggests that Dolly Varden were utilizing steeper and wider channel sections than cutthroat (Table 3).

The stream sections utilized by Dolly Varden were draining moderately steep higher elevation sites with minimal wetland and lake habitat. We suspect water temperatures remain relatively low in these areas during the late summer compared to lake-headed or wetland dominated areas.

The Dolly Varden sampled in this study are assumed to be stream residents that mature at a very small size. The largest Dolly Varden sampled in this study was 15 cm fork length (Figure 3). This is similar to observations of Dolly Varden in adjacent streams tributary to the Thautil River, where only 3 fish of 316 sampled exceeded 15 cm fork length (Bustard 1997).

1.3.1.3 Coho Salmon

Coho were present at three sites in the lower accessible sections of Tagit, O'Dine, and Swamp creeks. Abundance in these systems was very low, and only single coho (yearlings) were captured in Tagit and O'Dine creeks. Coho are also known to utilize lower False Tagit Creek based on historical data (Envirocon 1984; Morris and Eccles 1975).

The sites sampled in this study tended to be at the upper extent of coho distribution in these systems, and we suspect that abundances would be higher at sites closer to the Morice River, especially during years of better spawner recruitment than in the past decade. High stream discharges during the fall spawning period are probably important, since this would enable adult spawners to gain better access farther upstream.

The lower sections of the four main study streams with either historical or existing coho use should be considered the most important fisheries habitat in the study area. Although numbers are not high at present, these sites offer potential habitat. Estimates conducted during 1979 (Envirocon 1984) suggested that False Tagit and Tagit creeks accounted for 3.4% and 0.1% of the overall coho fry production for all Morice River tributaries combined for that year.

1.3.1.4 Steelhead Trout

Rainbow juveniles (suspected to be the progeny of steelhead) were sampled at three locations in lower Tagit, False Tagit and O'Dine creeks. The lower ends of these creeks are directly accessible from the Morice River, and we suspect steelhead are able to access these tributaries for spawning during high flows in the late April and May spawning period. No resident rainbow trout were captured in these tributaries.

Similar to coho, the sample sites were located near the upper extent of steelhead access and potential use, and abundance estimates would probably be higher at locations closer to the Morice River. Small tributary streams contribute to the very important Morice River steelhead fishery, and should be considered important habitats. For example, estimates conducted during 1979 suggested that Tagit and False Tagit creeks together accounted for between 3 and 5% of the overall steelhead fry and parr production for Morice River tributary streams (Envirocon 1984).

1.3.2 AMPHIBIAN OBSERVATIONS

Observations of all amphibians encountered during the surveys were recorded and are summarized in Section 2 Table 2. The data indicate that amphibian observations were relatively infrequent in the study streams. In all, there were three observations of Spotted Frogs (*Rana pretiosa*) and three observations of Westerns Toads (*Bufo boreas*). The observations were scattered throughout the three larger study streams.
No salmanders were captured at the minnow trap sites in ponded areas. As well, no tailed frogs (*Ascaphus truei*) were observed during the surveys.

1.3.3 STREAM CROSSINGS - POTENTIAL RESTORATION SITES

Fish passage difficulties were identified at three locations in the study area. These sites should be assessed to determine whether the culverts can be removed or replaced with structures that allow for fish access.

Tagit Creek

Site 7 in Reach 6. There is a culvert impassable to fish upstream movement at this location. The culvert is 12.2 m long by 1.8 m diameter and is installed at a 10% slope. Dolly Varden were present downstream from this culvert, but were not captured upstream. The stream is accessible to an impassable chute located approximately 600 m upstream.

Sites 18 and 19 in Trib Ta7. This stream had newly-emerged cutthroat fry present above and below the crossing site. We assume it is not a total barrier to adults moving upstream, but high water velocities will restrict movements. The culvert is 12 m long by 1 m diameter with 2.5 m fill. There is approximately 500 m of potential fish habitat upstream from the crossing.

False Tagit Creek

Site 3 Reach 4. A large oval culvert 18 m long and 1.5 m in diameter with a 3 m fill is present at this site. This culvert is installed at a 6% slope with a 15 cm drop at the outlet. We suspect that this culvert restricts cutthroat movements upstream in this section of False Tagit Creek. It should be noted that there are several small bedrock chutes approximately 1 km upstream that also restrict movements between the lake and this section of stream.

1.4 CONCLUSIONS

The fish distribution and riparian classification based on the surveys are presented on the 1:20,000 maps accompanying this report. These surveys were done throughout most of the reaches in the five study streams with potential fish use. Some extrapolation of the upper extent of fish distribution was made, particularly in O'Dine Creek, but most of the information should provide a good estimate of fish distribution by species.

The most significant fisheries values were associated with Tagit Creek between Chisholm Lake and the Morice River, the lower 4 km of False Tagit Creek, and the lower sections of O'Dine and Swamp creeks. These areas are accessible from the Morice River and are utilized by coho and steelhead. Small tribuataries such as these provide important rearing and possibly spawning areas for these species.

Tagit Creek and accessible tributaries upstream from Chisholm Lake provides important spawning and rearing habitat for the lake population of cutthroat. Establishing riparian areas along streams in the upper Tagit Watershed are probably important for keeping water temperatures cool enough to continue to support the only char rearing areas occurring in the five study streams.

Several locations where culvert placements on fish streams restrict upstream fish movements were identified in these studies. Since fish use is occurring at stream gradients up to at least 11% in this study area, care must be taken to locate crossing sites that do not lead to passage difficulty. Problem culverts should be removed as soon as possible, particularly at those sites where significant lengths of potential fish habitat are inaccessible due to culverts.

1.5 LITERATURE CITED

Bustard D. 1997. Stream inventory Thautil River Watershed 1996. Prepared for Houston Forest Products Ltd. and Forest Renewal BC.

DeGisi, J. S. and C. Schell. 1997. Reconnaissance inventory of Chisholm Lake Watershed Code 460-6006-445-01. Prepared for Ministry of Environment, Lands, and Parks, Smithers, BC.

Envirocon Ltd. 1984. Environmental studies associated with the proposed Kemano Completion Hydroelectric Development. Vol. 4. Fish Resources of the Morice River System: Baseline Information.

MOELP. 1995 (Draft). Lake and stream inventory standards and procedures. Fisheries Branch Inventory Unit.

Morris M. and B. Eccles. 1975. Morice River stream survey. Man. report for Ministry of Environment, Smithers, BC.

Shepard C. and J. Algard. 1977. A preliminary survey of juvenile steelhead/rainbow trout distribution and rearing habitat in the Morice River system. Man. report for Ministry of Environment, Smithers, BC.

SECTION 2 - FISH SUMMARIES AND STREAM SURVEY FORMS

Table 1. Tagit Creek and Adjacent Tributaries Fish Collection Data Form - 1997

Stream Name	Watershed Code	Date	Reach #	Site #	Area (m*m)	Water Temp (°C)	Capture Method	Pass/ Trap #	Spp.	FL (mm)	Activity	Comments
False Tagit C.	460-6006-407-000-000-000-000	97/06/11	2	1	312.0	12	EL	1	CT	59	R	Lower net.
False Tagit C.	460-6006-407-000-000-000-000	97/06/11	2	1	312.0	12	EL	1	CT	60	R	
False Tagit C.	460-6006-407-000-000-000-000	97/06/11	2	1	312.0	12	EL	1	CT	62	R	
False Tagit C.	460-6006-407-000-000-000-000	97/06/11	2	1	312.0	12	EL	1	CT	66	R	
False Tagit C.	460-6006-407-000-000-000-000	97/06/11	2	1	312.0	12	EL	1	CT	66	R	
False Tagit C.	460-6006-407-000-000-000-000	97/06/11	2	1	312.0	12	EL	1	CT	66	R	
False Tagit C.	460-6006-407-000-000-000-000	97/06/11	2	1	312.0	12	EL	1	CT	66	R	
False Tagit C.	460-6006-407-000-000-000-000	97/06/11	2	1	312.0	12	EL	1	CT	67	R	
False Tagit C.	460-6006-407-000-000-000-000	97/06/11	2	1	312.0	12	EL	1	CT	68	R	
False Tagit C.	460-6006-407-000-000-000-000	97/06/11	2	1	312.0	12	EL	1	CT	70	R	
False Tagit C.	460-6006-407-000-000-000-000	97/06/11	2	1	312.0	12	EL	1	CT	72	R	
False Tagit C.	460-6006-407-000-000-000-000	97/06/11	2	1	312.0	12	EL	1	CT	72	R	
False Tagit C.	460-6006-407-000-000-000-000	97/06/11	2	1	312.0	12	EL	1	CT	78	R	
False Tagit C.	460-6006-407-000-000-000-000	97/06/11	2	1	312.0	12	EL	1	CT	79	R	
False Tagit C.	460-6006-407-000-000-000-000	97/06/11	2	1	312.0	12	EL	1	CT	82	R	
False Tagit C.	460-6006-407-000-000-000-000	97/06/11	2	1	312.0	12	EL	1	CT	83	R	
False Tagit C.	460-6006-407-000-000-000-000	97/06/11	2	1	312.0	12	EL	1	CT	83	R	
False Tagit C.	460-6006-407-000-000-000-000	97/06/11	2	1	312.0	12	EL	1	CT	87	R	
False Tagit C.	460-6006-407-000-000-000-000	97/06/11	2	1	312.0	12	EL	1	CT	90	R	
False Tagit C.	460-6006-407-000-000-000-000	97/06/11	2	1	312.0	12	EL	1	CT	93	R	
False Tagit C.	460-6006-407-000-000-000-000	97/06/11	2	1	312.0	12	EL	1	CT	93	R	
False Tagit C.	460-6006-407-000-000-000-000	97/06/11	2	1	312.0	12	EL	1	CT	96	R	
False Tagit C.	460-6006-407-000-000-000-000	97/06/11	2	1	312.0	12	EL	1	CT	112	R	
False Tagit C.	460-6006-407-000-000-000-000	97/06/11	2	1	312.0	12	EL	1	CT	122	R	
False Tagit C.	460-6006-407-000-000-000-000	97/06/11	2	1	312.0	12	EL	1	TR	66	R	
False Tagit C.	460-6006-407-000-000-000-000	97/06/11	2	1	312.0	12	EL	1	TR	27	R	Many fry were observed which were still in
False Tagit C.	460-6006-407-000-000-000-000	97/06/11	2	1	312.0	12	EL	1	DV	38	R	the gravel.
False Tagit C.	460-6006-407-000-000-000-000	97/06/11	2	1	312.0	12	EL	1	RB	55	R	No access problems from main river to
False Tagit C.	460-6006-407-000-000-000-000	97/06/11	2	1	312.0	12	EL	1	RB	60	R	R2; suspect RB may be progeny of SST.
False Tagit C.	460-6006-407-000-000-000-000	97/06/11	2	1	312.0	12	EL	1	RB	63	R	
False Tagit C.	460-6006-407-000-000-000-000	97/06/11	2	1	312.0	12	EL	1	RB	68	R	
False Tagit C.	460-6006-407-000-000-000-000	97/06/11	2	1	312.0	12	EL	1	RB	72	R	
False Tagit C.	460-6006-407-000-000-000-000	97/06/11	2	1	312.0	12	EL	1	RB	88	R	
False Tagit C.	460-6006-407-000-000-000-000	97/06/11	2	1	312.0	12	EL	1	RB	113	R	
False Tagit C.	460-6006-407-000-000-000-000	97/06/11	2	1	312.0	12	EL	1	RB	122	R	
False Tagit C.	460-6006-407-000-000-000-000	97/06/11	2	1	312.0	12	EL	1	RB	129	R	
False Tagit C.	460-6006-407-000-000-000-000	97/06/11	2	1	312.0	12	EL	1	RB	133	R	
False Tagit C.	460-6006-407-000-000-000-000	97/06/12	3	2	102.0	13	EL	1	CT	60	R	No lower net. 4 other juv.'s were observed.
False Tagit C.	460-6006-407-000-000-000-000	97/06/12	3	2	102.0	13	EL	1	PL	nm	S	PL pair appeared to be making a redd.
False Tagit C.	460-6006-407-000-000-000-000	97/06/12	3	2	102.0	13	EL	1	PL	nm	S	
False Tagit C.	460-6006-407-000-000-000-000	97/06/11	4	3	92.4	15	EL	1	CT	43	R	Lower net. Also electrofished 10 m section
False Tagit C.	460-6006-407-000-000-000-000	97/06/11	4	3	92.4	15	EL	1	CT	52	R	above the culvert; 4 fish were observed.
False Tagit C.	460-6006-407-000-000-000-000	97/06/11	4	3	92.4	15	EL	1	CT	52	R	
False Tagit C.	460-6006-407-000-000-000-000	97/06/11	4	3	92.4	15	EL	1	CT	52	R	
False Tagit C.	460-6006-407-000-000-000-000	97/06/11	4	3	92.4	15	EL	1	CT	58	R	
False Tagit C.	460-6006-407-000-000-000-000	97/06/11	4	3	92.4	15	EL	1	CT	59	R	
False Tagit C.	460-6006-407-000-000-000-000	97/06/11	4	3	92.4	15	EL	1	CT	62	R	

Table 1. Tagit Creek and Adjacent Tributaries Fish Collection Data Form - 1997

Stream Name	Watershed Code	Date	Reach #	Site #	Area (m*m)	Water Temp (°C)	Capture Method	Pass/ Trap #	Spp.	FL (mm)	Activity	Comments
False Tagit C.	460-6006-407-000-000-000-000	97/06/11	4	3	92.4	15	EL	1	CT	66	R	
False Tagit C.	460-6006-407-000-000-000-000	97/06/11	4	3	92.4	15	EL	1	CT	68	R	
False Tagit C.	460-6006-407-000-000-000-000	97/06/11	4	3	92.4	15	EL	1	CT	68	R	
False Tagit C.	460-6006-407-000-000-000-000	97/06/11	4	3	92.4	15	EL	1	CT	71	R	Mort.
False Tagit C.	460-6006-407-000-000-000-000	97/06/11	4	3	92.4	15	EL	1	CT	72	R	
False Tagit C.	460-6006-407-000-000-000-000	97/06/11	4	3	92.4	15	EL	1	CT	72	R	
False Tagit C.	460-6006-407-000-000-000-000	97/06/11	4	3	92.4	15	EL	1	CT	79	R	
False Tagit C.	460-6006-407-000-000-000-000	97/06/11	4	3	92.4	15	EL	1	CT	79	R	
False Tagit C.	460-6006-407-000-000-000-000	97/06/11	4	3	92.4	15	EL	1	CT	81	R	
False Tagit C.	460-6006-407-000-000-000-000	97/06/11	4	3	92.4	15	EL	1	CT	87	R	
False Tagit C.	460-6006-407-000-000-000-000	97/06/11	4	3	92.4	15	EL	1	CT	199	R	
False Tagit C.	460-6006-407-000-000-000-000	97/07/08	4	4	57.0	17	EL	1	CT	28	R	Spot shocked. Observed numerous fry
False Tagit C.	460-6006-407-000-000-000-000	97/07/08	4	4	57.0	17	EL	1	CT	28	R	near lake outlet.
False Tagit C.	460-6006-407-000-000-000-000	97/07/08	4	4	57.0	17	EL	1	CT	28	R	
False Tagit C.	460-6006-407-000-000-000-000	97/07/08	4	4	57.0	17	EL	1	CT	60	R	
False Tagit C.	460-6006-407-000-000-000-000	97/07/08	4	4	57.0	17	EL	1	CT	66	R	
False Tagit C.	460-6006-407-000-000-000-000	97/07/08	4	4	57.0	17	EL	1	CT	67	R	
False Tagit C.	460-6006-407-000-000-000-000	97/07/08	4	4	57.0	17	EL	1	CT	72	R	
False Tagit C.	460-6006-407-000-000-000-000	97/07/08	4	4	57.0	17	EL	1	CT	77	R	
False Tagit C.	460-6006-407-000-000-000-000	97/07/08	4	4	57.0	17	EL	1	CT	78	R	
False Tagit C.	460-6006-407-000-000-000-000	97/07/08	4	4	57.0	17	EL	1	CT	83	R	
False Tagit C.	460-6006-407-000-000-000-000	97/07/08	4	4	57.0	17	EL	1	CT	84	R	
False Tagit C.	460-6006-407-000-000-000-000	97/07/08	4	4	57.0	17	EL	1	CT	91	R	
False Tagit C.	460-6006-407-000-000-000-000	97/07/08	4	4	57.0	17	EL	1	CT	96	R	
False Tagit C.	460-6006-407-000-000-000-000	97/07/08	4	4	57.0	17	EL	1	LNC	86	R	
False Tagit C.	460-6006-407-000-000-000-000	97/07/08	4	4	57.0	17	EL	1	LNC	120	R	
False Tagit C.	460-6006-407-000-000-000-000	97/07/08	6	5	70.0	8	EL	1	CT	40	R	No lower net.
False Tagit C.	460-6006-407-000-000-000-000	97/07/08	6	5	70.0	8	EL	1	CT	41	R	
False Tagit C.	460-6006-407-000-000-000-000	97/07/08	6	5	70.0	8	EL	1	CT	42	R	
False Tagit C.	460-6006-407-000-000-000-000	97/07/08	6	5	70.0	8	EL	1	CT	42	R	
False Tagit C.	460-6006-407-000-000-000-000	97/07/08	6	5	70.0	8	EL	1	CT	43	R	
False Tagit C.	460-6006-407-000-000-000-000	97/07/08	6	5	70.0	8	EL	1	CT	43	R	
False Tagit C.	460-6006-407-000-000-000-000	97/07/08	6	5	70.0	8	EL	1	CT	43	R	
False Tagit C.	460-6006-407-000-000-000-000	97/07/08	6	5	70.0	8	EL	1	CT	45	R	
False Tagit C.	460-6006-407-000-000-000-000	97/07/08	6	5	70.0	8	EL	1	CT	52	R	
False Tagit C. Trib. FTa4	460-6006-407-FTa-4 -000-000	97/06/12	1	9	49.5	11.5	EL	1	CT	53	R	No lower net; silt bed material affected
False Tagit C. Trib. FTa4	460-6006-407-FTa-4 -000-000	97/06/12	1	9	49.5	11.5	EL	1	CT	58	R	visibility during shocking. 4 CT were
False Tagit C. Trib. FTa4	460-6006-407-FTa-4 -000-000	97/06/12	1	9	49.5	11.5	EL	1	CT	65	R	observed but not caught.
False Tagit C. Trib. FTa4	460-6006-407-FTa-4 -000-000	97/06/12	1	9	49.5	11.5	EL	1	CT	66	R	
False Tagit C. Trib. FTa4	460-6006-407-FTa-4 -000-000	97/06/12	1	9	49.5	11.5	EL	1	CT	67	R	
False Tagit C. Trib. FTa4	460-6006-407-FTa-4 -000-000	97/06/12	1	9	49.5	11.5	EL	1	CT	81	R	
False Tagit C. Trib. FTa4	460-6006-407-FTa-4 -000-000	97/06/12	1	9	49.5	11.5	EL	1	CT	82	R	
False Tagit C. Trib. FTa5	460-6006-407-481-000-000-000	97/06/11	2	12	nm	14	MT	nm	CT	63	R	Fish caught in the 4 traps set below the BD.
False Tagit C. Trib. FTa5	460-6006-407-481-000-000-000	97/06/11	2	12	nm	14	MT	nm	CT	65	R	
False Tagit C. Trib. FTa5	460-6006-407-481-000-000-000	97/06/11	2	12	nm	14	MT	nm	CT	74	R	
False Tagit C. Trib. FTa5.1	460-6006-407-481-221-000-000	97/06/11	1	15	90.0	11	EL	1	CT	50	R	No lower net.
False Tagit C. Trib. FTa5.1	460-6006-407-481-221-000-000	97/06/11	1	15	90.0	11	EL	1	CT	52	R	

Table 1. Tagit Creek and Adjacent Tributaries Fish Collection Data Form - 1997

Stream Name	Watershed Code	Date	Reach #	Site #	Area (m*m)	Water Temp (^{0}C)	Capture Method	Pass/ Trap #	Spp.	FL (mm)	Activity	Comments
False Tagit C. Trib. FTa5.1	460-6006-407-481-221-000-000	97/06/11	1	15	90.0	11	EL	1	CT	53	R	
False Tagit C. Trib. FTa5.1	460-6006-407-481-221-000-000	97/06/11	1	15	90.0	11	EL	1	CT	55	R	
False Tagit C. Trib. FTa5.1	460-6006-407-481-221-000-000	97/06/11	1	15	90.0	11	EL	1	CT	56	R	
False Tagit C. Trib. FTa5.1	460-6006-407-481-221-000-000	97/06/11	1	15	90.0	11	EL	1	CT	57	R	Mort.
False Tagit C. Trib. FTa5.1	460-6006-407-481-221-000-000	97/07/08	2	16	37.4	8	EL	1	CT	46	R	Lower net. CT with heavy spotting;
False Tagit C. Trib. FTa5.1	460-6006-407-481-221-000-000	97/07/08	2	16	37.4	8	EL	1	CT	92	R	suspect CT are stream residents.
False Tagit C. Trib. FTa5.1	460-6006-407-481-221-000-000	97/07/08	2	16	37.4	8	EL	1	CT	127	R	
False Tagit C. Trib. FTa5.1	460-6006-407-481-221-000-000	97/07/08	2	16	37.4	8	EL	1	CT	144	R	
False Tagit C. Trib. FTa5.1	460-6006-407-481-221-000-000	97/07/08	2	16	37.4	8	EL	1	CT	162	R	
False Tagit C. Trib. FTa5.1	460-6006-407-481-221-000-000	97/07/08	2	16	37.4	8	EL	1	CT	168	R	
False Tagit C. Trib. FTa5.4	460-6006-407-481-FTa-5.4-000	97/07/08	1	19	36.0	10	EL	1	CT	69	R	No lower net.
False Tagit C. Trib. FTa5.4	460-6006-407-481-FTa-5.4-000	97/07/08	1	20	55.0	10	EL	1	CT	60	R	No lower net.
Tagit C.	460-6006-445-000-000-000-000	97/07/02	1	1	129.5	16	EL	1	CT	80	R	
Tagit C.	460-6006-445-000-000-000-000	97/07/02	1	1	129.5	16	EL	1	CT	81	R	
Tagit C.	460-6006-445-000-000-000-000	97/07/02	1	1	129.5	16	EL	1	CT	81	R	
Tagit C.	460-6006-445-000-000-000-000	97/07/02	1	1	129.5	16	EL	1	CT	87	R	
Tagit C.	460-6006-445-000-000-000-000	97/07/02	1	1	129.5	16	EL	1	CT	88	R	
Tagit C.	460-6006-445-000-000-000-000	97/07/02	1	1	129.5	16	EL	1	CT	96	R	
Tagit C.	460-6006-445-000-000-000-000	97/07/02	1	1	129.5	16	EL	1	CT	113	R	
Tagit C.	460-6006-445-000-000-000-000	97/07/02	1	1	129.5	16	EL	1	CT	127	R	
Tagit C.	460-6006-445-000-000-000-000	97/07/02	1	1	129.5	16	EL	1	CT	233	S/M	Spawned-out male.
Tagit C.	460-6006-445-000-000-000-000	97/07/02	1	1	129.5	16	EL	1	RB	79	R	Lower net. Suspect RB are SST.
Tagit C.	460-6006-445-000-000-000-000	97/07/02	1	1	129.5	16	EL	1	RB	92	R	No slash, full margin on the adipose fin.
Tagit C.	460-6006-445-000-000-000-000	97/07/02	1	1	129.5	16	EL	1	RB	98	R	No slash - RB characteristic.
Tagit C.	460-6006-445-000-000-000-000	97/07/02	1	1	129.5	16	EL	1	RB	117	R	
Tagit C.	460-6006-445-000-000-000-000	97/07/02	1	1	129.5	16	EL	1	RB	122	R	No slash - RB characteristic.
Tagit C.	460-6006-445-000-000-000-000	97/07/02	1	1	129.5	16	EL	1	RB	133	R	
Tagit C.	460-6006-445-000-000-000-000	97/07/02	1	1	129.5	16	EL	1	RB	143	R	No slash - RB characteristic.
Tagit C.	460-6006-445-000-000-000-000	97/07/02	1	1	129.5	16	EL	1	RB	145	R	
Tagit C.	460-6006-445-000-000-000-000	97/07/02	1	1	129.5	16	EL	1	RB	181	R	No hyoid teeth present.
Tagit C.	460-6006-445-000-000-000-000	97/07/02	1	1	129.5	16	EL	1	CO	77	R	
Tagit C.	460-6006-445-000-000-000-000	97/07/02	1	1	129.5	16	EL	1	LNC	87	R	
Tagit C.	460-6006-445-000-000-000-000	97/07/02	1	1	129.5	16	EL	1	LNC	88	R	
Tagit C.	460-6006-445-000-000-000-000	97/07/02	1	1	129.5	16	EL	1	LNC	88	R	
Tagit C.	460-6006-445-000-000-000-000	97/07/02	1	1	129.5	16	EL	1	LNC	93	R	
Tagit C.	460-6006-445-000-000-000-000	97/07/02	1	1	129.5	16	EL	1	LNC	100	R	
Tagit C.	460-6006-445-000-000-000-000	97/07/02	1	1	129.5	16	EL	1	LNC	110	R	
Tagit C.	460-6006-445-000-000-000-000	97/07/02	1	1	129.5	16	EL	1	LNC	112	R	
Tagit C.	460-6006-445-000-000-000-000	97/07/02	1	1	129.5	16	EL	1	LNC	127	R	
Tagit C.	460-6006-445-000-000-000-000	97/07/02	1	1	129.5	16	EL	1	PL	nm	R	Observed several lamprey ammoecetes.
Tagit C.	460-6006-445-000-000-000-000	97/07/03	4	2	90.0	8.5	EL	1	CT	42	R	Lower net.
Tagit C.	460-6006-445-000-000-000-000	97/07/03	4	2	90.0	8.5	EL	1	CT	43	R	
Tagit C.	460-6006-445-000-000-000-000	97/07/03	4	2	90.0	8.5	EL	1	CT	49	R	
Tagit C.	460-6006-445-000-000-000-000	97/07/03	4	2	90.0	8.5	EL	1	CT	50	R	
Tagit C.	460-6006-445-000-000-000-000	97/07/03	4	2	90.0	8.5	EL	1	CT	51	R	
Tagit C.	460-6006-445-000-000-000-000	97/07/03	4	2	90.0	8.5	EL	1	CT	71	R	
Tagit C.	460-6006-445-000-000-000-000	97/07/03	4	2	90.0	8.5	EL	1	CT	73	R	

Table 1. Tagit Creek and Adjacent Tributaries Fish Collection Data Form - 1997

Stream Name	Watershed Code	Date	Reach #	Site #	Area (m*m)	Water Temp (°C)	Capture Method	Pass/ Trap #	Spp.	FL (mm)	Activity	Comments
Tagit C.	460-6006-445-000-000-000-000	97/07/03	4	2	90.0	8.5	EL	1	CT	75	R	
Tagit C.	460-6006-445-000-000-000-000	97/07/03	4	2	90.0	8.5	EL	1	CT	76	R	
Tagit C.	460-6006-445-000-000-000-000	97/07/03	4	2	90.0	8.5	EL	1	CT	80	R	
Tagit C.	460-6006-445-000-000-000-000	97/07/03	4	2	90.0	8.5	EL	1	CT	90	R	
Tagit C.	460-6006-445-000-000-000-000	97/07/03	4	2	90.0	8.5	EL	1	DV	58	R	
Tagit C.	460-6006-445-000-000-000-000	97/07/03	4	2	90.0	8.5	EL	1	DV	59	R	
Tagit C.	460-6006-445-000-000-000-000	97/07/03	4	2	90.0	8.5	EL	1	CAS	58	R	
Tagit C.	460-6006-445-000-000-000-000	97/07/01	4	3	132.8	13	EL	1	CT	41	R	Lower net.
Tagit C.	460-6006-445-000-000-000-000	97/07/01	4	3	132.8	13	EL	1	CT	43	R	
Tagit C.	460-6006-445-000-000-000-000	97/07/01	4	3	132.8	13	EL	1	CT	43	R	
Tagit C.	460-6006-445-000-000-000-000	97/07/01	4	3	132.8	13	EL	1	CT	44	R	
Tagit C.	460-6006-445-000-000-000-000	97/07/01	4	3	132.8	13	EL	1	CT	44	R	
Tagit C.	460-6006-445-000-000-000-000	97/07/01	4	3	132.8	13	EL	1	CT	46	R	
Tagit C.	460-6006-445-000-000-000-000	97/07/01	4	3	132.8	13	EL	1	CT	67	R	
Tagit C.	460-6006-445-000-000-000-000	97/07/01	4	3	132.8	13	EL	1	CT	75	R	
Tagit C.	460-6006-445-000-000-000-000	97/07/01	4	3	132.8	13	EL	1	CT	75	R	
Tagit C.	460-6006-445-000-000-000-000	97/07/01	4	3	132.8	13	EL	1	CT	78	R	
Tagit C.	460-6006-445-000-000-000-000	97/07/01	4	3	132.8	13	EL	1	CT	78	R	
Tagit C.	460-6006-445-000-000-000-000	97/07/01	4	3	132.8	13	EL	1	CT	79	R	
Tagit C.	460-6006-445-000-000-000-000	97/07/01	4	3	132.8	13	EL	1	CT	79	R	
Tagit C.	460-6006-445-000-000-000-000	97/07/01	4	3	132.8	13	EL	1	CT	80	R	
Tagit C.	460-6006-445-000-000-000-000	97/07/01	4	3	132.8	13	EL	1	CT	81	R	
Tagit C.	460-6006-445-000-000-000-000	97/07/01	4	3	132.8	13	EL	1	CT	82	R	
Tagit C.	460-6006-445-000-000-000-000	97/07/01	4	3	132.8	13	EL	1	CT	87	R	
Tagit C.	460-6006-445-000-000-000-000	97/07/01	4	3	132.8	13	EL	1	CT	95	R	
Tagit C.	460-6006-445-000-000-000-000	97/07/01	4	3	132.8	13	EL	1	DV	91	R	
Tagit C.	460-6006-445-000-000-000-000	97/06/18	4	4	308.0	9	EL	1	CT	67	R	Lower net.
Tagit C.	460-6006-445-000-000-000-000	97/06/18	4	4	308.0	9	EL	1	CT	67	R	
Tagit C.	460-6006-445-000-000-000-000	97/06/18	4	4	308.0	9	EL	1	CT	68	R	
Tagit C.	460-6006-445-000-000-000-000	97/06/18	4	4	308.0	9	EL	1	CT	73	R	
Tagit C.	460-6006-445-000-000-000-000	97/06/18	4	4	308.0	9	EL	1	CT	133	R	
Tagit C.	460-6006-445-000-000-000-000	97/06/18	4	4	308.0	9	EL	1	DV	75	R	
Tagit C.	460-6006-445-000-000-000-000	97/06/18	4	4	308.0	9	EL	1	DV	100	R	
Tagit C.	460-6006-445-000-000-000-000	97/06/18	5	5	232.0	7	EL	1	CT	62	R	Lower net.
Tagit C.	460-6006-445-000-000-000-000	97/06/18	5	5	232.0	7	EL	1	CT	62	R	
Tagit C.	460-6006-445-000-000-000-000	97/06/18	5	5	232.0	7	EL	1	CT	63	R	
Tagit C.	460-6006-445-000-000-000-000	97/06/18	5	5	232.0	7	EL	1	CT	63	R	
Tagit C.	460-6006-445-000-000-000-000	97/06/18	5	5	232.0	7	EL	1	CT	63	R	
Tagit C.	460-6006-445-000-000-000-000	97/06/18	5	5	232.0	7	EL	1	CT	71	R	
Tagit C.	460-6006-445-000-000-000-000	97/06/18	5	5	232.0	7	EL	1	CT	240	S/M	
Tagit C.	460-6006-445-000-000-000-000	97/06/18	5	5	232.0	7	EL	1	CT	250	S/M	Spawned-out male.
Tagit C.	460-6006-445-000-000-000-000	97/06/18	5	5	232.0	7	EL	1	CT	270	S/M	Spawned-out male.
Tagit C.	460-6006-445-000-000-000-000	97/06/18	5	5	232.0	7	EL	1	DV	69	R	
Tagit C.	460-6006-445-000-000-000-000	97/06/18	5	5	232.0	7	EL	1	DV	74	R	
Tagit C.	460-6006-445-000-000-000-000	97/06/18	5	5	232.0	7	EL	1	DV	74	R	
Tagit C.	460-6006-445-000-000-000-000	97/06/18	5	5	232.0	7	EL	1	DV	74	R	
Tagit C.	460-6006-445-000-000-000-000	97/06/18	5	5	232.0	7	EL	1	DV	103	R	

Table 1. Tagit Creek and Adjacent Tributaries Fish Collection Data Form - 1997

Stream Name	Watershed Code	Date	Reach #	Site #	Area (m*m)	Water Temp (^0C)	Capture Method	Pass/ Trap #	Spp.	FL (mm)	Activity	Comments
Tagit C.	460-6006-445-000-000-000-000	97/06/18	5	5	232.0	7	EL	1	DV	126	R	
Tagit C.	460-6006-445-000-000-000-000	97/06/18	6	6	265.2	7	EL	1	CT	65	R	Lower net.
Tagit C.	460-6006-445-000-000-000-000	97/06/18	6	6	265.2	7	EL	1	CT	68	R	4 fish were observed but not caught; high
Tagit C.	460-6006-445-000-000-000-000	97/06/18	6	6	265.2	7	EL	1	CT	69	R	water velocities.
Tagit C.	460-6006-445-000-000-000-000	97/06/18	6	6	265.2	7	EL	1	CT	77	R	
Tagit C.	460-6006-445-000-000-000-000	97/06/18	6	6	265.2	7	EL	1	CT	121	R	
Tagit C.	460-6006-445-000-000-000-000	97/06/18	6	6	265.2	7	EL	1	DV	103	R	
Tagit C.	460-6006-445-000-000-000-000	97/06/18	6	6	265.2	7	EL	1	DV	117	R	
Tagit C.	460-6006-445-000-000-000-000	97/07/01	6	7	273.3	9	EL	1	DV	106	R	Lower net.
Tagit C.	460-6006-445-000-000-000-000	97/07/01	6	7	273.3	9	EL	1	DV	114	R	
Tagit C.	460-6006-445-000-000-000-000	97/07/01	6	7	273.3	9	EL	1	DV	129	R	
Tagit C.	460-6006-445-000-000-000-000	97/07/01	6	7	273.3	9	EL	1	DV	130	R	
Tagit C.	460-6006-445-000-000-000-000	97/07/01	6	7	273.3	9	EL	1	DV	133	R	
Tagit C.	460-6006-445-000-000-000-000	97/07/01	6	7	273.3	9	EL	1	DV	145	R	
Tagit C. Trib.Ta1	460-6006-445-112-000-000-000	97/05/28	1	9	nm	8.5	EL	1	CT	40	R	Lower net. High flows. A small section u/s
Tagit C. Trib.Ta1	460-6006-445-112-000-000-000	97/05/28	1	9	nm	8.5	EL	1	CT	47	R	from the bridge was sampled. Site length
Tagit C. Trib.Ta1	460-6006-445-112-000-000-000	97/05/28	1	9	nm	8.5	EL	1	CT	48	R	was not measured.
Tagit C. Trib.Ta1	460-6006-445-112-000-000-000	97/05/28	1	9	nm	8.5	EL	1	CT	49	R	
Tagit C. Trib.Ta1	460-6006-445-112-000-000-000	97/05/28	1	9	nm	8.5	EL	1	CT	52	R	
Tagit C. Trib.Ta1	460-6006-445-112-000-000-000	97/05/28	1	9	nm	8.5	EL	1	CT	53	R	
Tagit C. Trib.Ta1	460-6006-445-112-000-000-000	97/05/28	1	9	nm	8.5	EL	1	CT	54	R	
Tagit C. Trib.Ta1	460-6006-445-112-000-000-000	97/05/28	1	9	nm	8.5	EL	1	CT	56	R	
Tagit C. Trib.Ta1	460-6006-445-112-000-000-000	97/05/28	1	9	nm	8.5	EL	1	CT	196	S/M	Ripe male. Scales samples were taken.
Tagit C. Trib.Ta1	460-6006-445-112-000-000-000	97/05/28	1	9	nm	8.5	EL	1	CT	281	S/M	Ripe male. Scales samples were taken.
Tagit C. Trib.Ta1	460-6006-445-112-000-000-000	97/07/09	1	9	143.1	nm	EL	1	CT	28	R	This site was re-sampled at lower flows;
Tagit C. Trib.Ta1	460-6006-445-112-000-000-000	97/07/09	1	9	143.1	nm	EL	1	CT	58	R	no lower net.
Tagit C. Trib.Ta1	460-6006-445-112-000-000-000	97/07/09	1	9	143.1	nm	EL	1	CT	59	R	
Tagit C. Trib.Ta1	460-6006-445-112-000-000-000	97/07/09	1	9	143.1	nm	EL	1	CT	60	R	
Tagit C. Trib.Ta1	460-6006-445-112-000-000-000	97/07/09	1	9	143.1	nm	EL	1	CT	60	R	
Tagit C. Trib.Ta1	460-6006-445-112-000-000-000	97/07/09	1	9	143.1	nm	EL	1	CT	62	R	
Tagit C. Trib.Ta1	460-6006-445-112-000-000-000	97/07/09	1	9	143.1	nm	EL	1	CT	62	R	
Tagit C. Trib.Ta1	460-6006-445-112-000-000-000	97/07/09	1	9	143.1	nm	EL	1	CT	62	R	
Tagit C. Trib.Ta1	460-6006-445-112-000-000-000	97/07/09	1	9	143.1	nm	EL	1	CT	63	R	
Tagit C. Trib.Ta1	460-6006-445-112-000-000-000	97/07/09	1	9	143.1	nm	EL	1	CT	65	R	
Tagit C. Trib.Ta1	460-6006-445-112-000-000-000	97/07/09	1	9	143.1	nm	EL	1	CT	65	R	
Tagit C. Trib.Ta1	460-6006-445-112-000-000-000	97/07/09	1	9	143.1	nm	EL	1	CT	65	R	
Tagit C. Trib.Ta1	460-6006-445-112-000-000-000	97/07/09	1	9	143.1	nm	EL	1	CT	66	R	
Tagit C. Trib.Ta1	460-6006-445-112-000-000-000	97/07/09	1	9	143.1	nm	EL	1	CT	66	R	
Tagit C. Trib.Ta1	460-6006-445-112-000-000-000	97/07/09	1	9	143.1	nm	EL	1	CT	67	R	
Tagit C. Trib.Ta1	460-6006-445-112-000-000-000	97/07/09	1	9	143.1	nm	EL	1	CT	67	R	
Tagit C. Trib.Ta1	460-6006-445-112-000-000-000	97/07/09	1	9	143.1	nm	EL	1	CT	68	R	
Tagit C. Trib.Ta1	460-6006-445-112-000-000-000	97/07/09	1	9	143.1	nm	EL	1	CT	68	R	
Tagit C. Trib.Ta1	460-6006-445-112-000-000-000	97/07/09	1	9	143.1	nm	EL	1	CT	68	R	
Tagit C. Trib.Ta1	460-6006-445-112-000-000-000	97/07/09	1	9	143.1	nm	EL	1	CT	68	R	
Tagit C. Trib.Ta1	460-6006-445-112-000-000-000	97/07/09	1	9	143.1	nm	EL	1	CT	68	R	
Tagit C. Trib.Ta1	460-6006-445-112-000-000-000	97/07/09	1	9	143.1	nm	EL	1	CT	68	R	
Tagit C. Trib.Ta1	460-6006-445-112-000-000-000	97/07/09	1	9	143.1	nm	EL	1	CT	69	R	

Table 1. Tagit Creek and Adjacent Tributaries Fish Collection Data Form - 1997

Stream Name	Watershed Code	Date	Reach #	Site #	Area (m*m)	Water Temp (°C)	Capture Method	Pass/ Trap #	Spp.	FL (mm)	Activity	Comments
Tagit C. Trib.Ta1	460-6006-445-112-000-000-000	97/07/09	1	9	143.1	nm	EL	1	CT	70	R	
Tagit C. Trib.Ta1	460-6006-445-112-000-000-000	97/07/09	1	9	143.1	nm	EL	1	CT	70	R	
Tagit C. Trib.Ta1	460-6006-445-112-000-000-000	97/07/09	1	9	143.1	nm	EL	1	CT	70	R	
Tagit C. Trib.Ta1	460-6006-445-112-000-000-000	97/07/09	1	9	143.1	nm	EL	1	CT	70	R	
Tagit C. Trib.Ta1	460-6006-445-112-000-000-000	97/07/09	1	9	143.1	nm	EL	1	CT	72	R	
Tagit C. Trib.Ta1	460-6006-445-112-000-000-000	97/07/09	1	9	143.1	nm	EL	1	CT	73	R	
Tagit C. Trib.Ta1	460-6006-445-112-000-000-000	97/07/09	1	9	143.1	nm	EL	1	CT	73	R	
Tagit C. Trib.Ta1	460-6006-445-112-000-000-000	97/07/09	1	9	143.1	nm	EL	1	CT	79	R	
Tagit C. Trib.Ta1	460-6006-445-112-000-000-000	97/07/09	1	9	143.1	nm	EL	1	CT	79	R	
Tagit C. Trib.Ta1	460-6006-445-112-000-000-000	97/07/09	1	9	143.1	nm	EL	1	CT	81	R	
Tagit C. Trib.Ta1	460-6006-445-112-000-000-000	97/07/09	1	9	143.1	nm	EL	1	CT	83	R	
Tagit C. Trib.Ta1	460-6006-445-112-000-000-000	97/05/29	2	11	202.7	7.5	EL	1	CT	51	R	No lower net.
Tagit C. Trib.Ta1	460-6006-445-112-000-000-000	97/05/29	2	11	202.7	7.5	EL	1	CT	52	R	6 other CT were observed but not caught.
Tagit C. Trib.Ta1	460-6006-445-112-000-000-000	97/05/29	2	11	202.7	7.5	EL	1	CT	53	R	
Tagit C. Trib.Ta1	460-6006-445-112-000-000-000	97/05/29	2	11	202.7	7.5	EL	1	CT	55	R	
Tagit C. Trib.Ta1	460-6006-445-112-000-000-000	97/05/29	2	11	202.7	7.5	EL	1	CT	58	R	
Tagit C. Trib.Ta7	460-6006-445-389-000-000-000	97/05/29	1	18	160.0	6	EL	1	CT	33	R	Lower net.
Tagit C. Trib.Ta7	460-6006-445-389-000-000-000	97/05/29	1	18	160.0	6	EL	1	CT	35	R	
Tagit C. Trib.Ta7	460-6006-445-389-000-000-000	97/05/29	1	18	160.0	6	EL	1	CT	37	R	
Tagit C. Trib.Ta7	460-6006-445-389-000-000-000	97/05/29	1	18	160.0	6	EL	1	CT	39	R	
Tagit C. Trib.Ta7	460-6006-445-389-000-000-000	97/05/29	1	18	160.0	6	EL	1	CT	50	R	
Tagit C. Trib.Ta7	460-6006-445-389-000-000-000	97/07/02	2	19	80.6	11	EL	1	CT	44	R	No lower net. 5 other CT were observed
Tagit C. Trib.Ta7	460-6006-445-389-000-000-000	97/07/02	2	19	80.6	11	EL	1	CT	47	R	but not caught.
Tagit C. Trib.Ta7	460-6006-445-389-000-000-000	97/07/02	2	19	80.6	11	EL	1	CT	52	R	
Tagit C. Trib.Ta7	460-6006-445-389-000-000-000	97/07/02	2	19	80.6	11	EL	1	CT	53	R	
Tagit C. Trib.Ta7	460-6006-445-389-000-000-000	97/07/02	2	19	80.6	11	EL	1	CT	57	R	
Tagit C. Trib.Ta9	460-6006-445-Ta9-000-000-000	97/07/01	1	22	~166	10.5	EL	1	CT	51	R	Lower net.
Tagit C. Trib.Ta9	460-6006-445-Ta9-000-000-000	97/07/01	1	22	~166	10.5	EL	1	CT	57	R	
Tagit C. Trib.Ta9	460-6006-445-Ta9-000-000-000	97/07/01	1	22	~166	10.5	EL	1	DV	58	R	
Tagit C. Trib.Ta9	460-6006-445-Ta9-000-000-000	97/07/01	1	22	~166	10.5	EL	1	DV	63	R	
Tagit C. Trib.Ta9	460-6006-445-Ta9-000-000-000	97/07/01	1	22	~166	10.5	EL	1	DV	69	R	
Tagit C. Trib.Ta9	460-6006-445-Ta9-000-000-000	97/07/01	1	22	~166	10.5	EL	1	DV	69	R	
Tagit C. Trib.Ta9	460-6006-445-Ta9-000-000-000	97/07/01	1	22	~166	10.5	EL	1	DV	73	R	
Tagit C. Trib.Ta9	460-6006-445-Ta9-000-000-000	97/07/03	2	23	180.0	11	EL	1	DV	130	R	No lower net. 10 other CT were observed
Tagit C. Trib.Ta9	460-6006-445-Ta9-000-000-000	97/07/03	2	23	180.0	11	EL	1	DV	91	R	but not caught.
Tagit C. Trib.Ta9	460-6006-445-Ta9-000-000-000	97/07/03	2	23	180.0	11	EL	1	DV	110	R	
Tagit C. Trib.Ta9	460-6006-445-Ta9-000-000-000	97/07/03	2	23	180.0	11	EL	1	DV	67	R	
Tagit C. Trib.Ta9	460-6006-445-Ta9-000-000-000	97/07/03	2	23	180.0	11	EL	1	DV	80	R	
Tagit C. Trib.Ta9	460-6006-445-Ta9-000-000-000	97/07/03	2	23	180.0	11	EL	1	DV	77	R	
Tagit C. Trib.Ta9	460-6006-445-Ta9-000-000-000	97/07/03	2	23	180.0	11	EL	1	DV	103	R	
Tagit C. Trib.Ta9.2	460-6006-445-Ta9-.2 -000-000	97/07/03	1	26	40.0	10	EL	1	DV	87	R	Lower net.
Tagit C. Trib.Ta9.2	460-6006-445-Ta9-.2 -000-000	97/07/03	1	26	40.0	10	EL	1	DV	117	R	
O'Dine C.	460-6006-474-000-000-000-000	97/07/03	1	1	38.2	11	EL	1	CO	104	R	No lower net.
O'Dine C.	460-6006-474-000-000-000-000	97/07/03	1	1	38.2	11	EL	1	CT	62	R	
O'Dine C.	460-6006-474-000-000-000-000	97/07/03	1	1	38.2	11	EL	1	CT	63	R	
O'Dine C.	460-6006-474-000-000-000-000	97/07/03	1	1	38.2	11	EL	1	CT	64	R	
O'Dine C.	460-6006-474-000-000-000-000	97/07/03	1	1	38.2	11	EL	1	CT	71	R	

Table 1. Tagit Creek and Adjacent Tributaries Fish Collection Data Form - 1997

Stream Name	Watershed Code	Date	Reach #	Site #	Area (m*m)	Water Temp (°C)	Capture Method	Pass/ Trap #	Spp.	FL (mm)	Activity	Comments
O'Dine C.	460-6006-474-000-000-000-000	97/07/03	1	1	38.2	11	EL	1	CT	73	R	
O'Dine C.	460-6006-474-000-000-000-000	97/07/03	1	1	38.2	11	EL	1	CT	91	R	
O'Dine C.	460-6006-474-000-000-000-000	97/07/03	1	1	38.2	11	EL	1	CT	96	R	
O'Dine C.	460-6006-474-000-000-000-000	97/07/03	1	1	38.2	11	EL	1	RB	71	R	
O'Dine C.	460-6006-474-000-000-000-000	97/07/03	1	1	38.2	11	EL	1	RB	154	R	
O'Dine C.	460-6006-474-000-000-000-000	97/05/29	2	2	na	6	MT	na	CT	66	R	Set 10 traps overnight.
O'Dine C.	460-6006-474-000-000-000-000	97/05/29	2	2	na	6	MT	na	CT	136	R	
O'Dine C.	460-6006-474-000-000-000-000	97/07/03	3	3	73.5	7.9	EL	1	CT	41	R	Lower net.
O'Dine C.	460-6006-474-000-000-000-000	97/07/03	3	3	73.5	7.9	EL	1	CT	41	R	
O'Dine C.	460-6006-474-000-000-000-000	97/07/03	3	3	73.5	7.9	EL	1	CT	41	R	
O'Dine C.	460-6006-474-000-000-000-000	97/07/03	3	3	73.5	7.9	EL	1	CT	42	R	
O'Dine C.	460-6006-474-000-000-000-000	97/07/03	3	3	73.5	7.9	EL	1	CT	42	R	
O'Dine C.	460-6006-474-000-000-000-000	97/07/03	3	3	73.5	7.9	EL	1	CT	42	R	
O'Dine C.	460-6006-474-000-000-000-000	97/07/03	3	3	73.5	7.9	EL	1	CT	43	R	
O'Dine C.	460-6006-474-000-000-000-000	97/07/03	3	3	73.5	7.9	EL	1	CT	43	R	
O'Dine C.	460-6006-474-000-000-000-000	97/07/03	3	3	73.5	7.9	EL	1	CT	45	R	
O'Dine C.	460-6006-474-000-000-000-000	97/07/03	3	3	73.5	7.9	EL	1	CT	46	R	
O'Dine C.	460-6006-474-000-000-000-000	97/07/03	3	3	73.5	7.9	EL	1	CT	47	R	
O'Dine C.	460-6006-474-000-000-000-000	97/07/03	3	3	73.5	7.9	EL	1	CT	47	R	
O'Dine C.	460-6006-474-000-000-000-000	97/07/03	3	3	73.5	7.9	EL	1	CT	48	R	
O'Dine C.	460-6006-474-000-000-000-000	97/07/03	3	3	73.5	7.9	EL	1	CT	49	R	
O'Dine C.	460-6006-474-000-000-000-000	97/07/03	3	3	73.5	7.9	EL	1	CT	51	R	
O'Dine C.	460-6006-474-000-000-000-000	97/07/03	3	3	73.5	7.9	EL	1	CT	63	R	
O'Dine C.	460-6006-474-000-000-000-000	97/07/03	3	3	73.5	7.9	EL	1	CT	63	R	
O'Dine C.	460-6006-474-000-000-000-000	97/07/03	3	3	73.5	7.9	EL	1	CT	64	R	
O'Dine C.	460-6006-474-000-000-000-000	97/07/03	3	3	73.5	7.9	EL	1	CT	66	R	
O'Dine C.	460-6006-474-000-000-000-000	97/07/03	3	3	73.5	7.9	EL	1	CT	68	R	
O'Dine C.	460-6006-474-000-000-000-000	97/07/03	3	3	73.5	7.9	EL	1	CT	69	R	
O'Dine C.	460-6006-474-000-000-000-000	97/07/03	3	3	73.5	7.9	EL	1	CT	70	R	
O'Dine C.	460-6006-474-000-000-000-000	97/07/03	3	3	73.5	7.9	EL	1	CT	71	R	
O'Dine C.	460-6006-474-000-000-000-000	97/07/03	3	3	73.5	7.9	EL	1	CT	72	R	
O'Dine C.	460-6006-474-000-000-000-000	97/07/03	3	3	73.5	7.9	EL	1	CT	73	R	
O'Dine C.	460-6006-474-000-000-000-000	97/07/03	3	3	73.5	7.9	EL	1	CT	78	R	
O'Dine C.	460-6006-474-000-000-000-000	97/07/03	3	3	73.5	7.9	EL	1	CT	79	R	
O'Dine C.	460-6006-474-000-000-000-000	97/07/03	3	3	73.5	7.9	EL	1	CT	83	R	
O'Dine C. Trib. O'D1	460-6006-474-O'D-1 -000-000	97/10/22	2	5	54.0	3	EL	1	CT	33	R	No lower net.
O'Dine C. Trib. O'D1	460-6006-474-O'D-1 -000-000	97/10/22	2	5	54.0	3	EL	1	CT	69	R	
O'Dine C. Trib. O'D1	460-6006-474-O'D-1 -000-000	97/10/22	2	5	54.0	3	EL	1	CT	83	R	
Swamp C.	460-6006-481-000-000-000-000	97/07/03	1	1	40.3	11	EL	1	CT	124	R	Lower net.
Swamp C.	460-6006-481-000-000-000-000	97/07/03	1	1	40.3	11	EL	1	CO	47	R	
Swamp C.	460-6006-481-000-000-000-000	97/07/03	1	1	40.3	11	EL	1	CO	49	R	
Swamp C.	460-6006-481-000-000-000-000	97/07/03	1	1	40.3	11	EL	1	CO	58	R	
Swamp C.	460-6006-481-000-000-000-000	97/07/03	1	1	40.3	11	EL	1	CO	58	R	
Swamp C.	460-6006-481-000-000-000-000	97/07/03	1	1	40.3	11	EL	1	CO	61	R	
Swamp C.	460-6006-481-000-000-000-000	97/07/03	1	1	40.3	11	EL	1	CO	62	R	
Swamp C.	460-6006-481-000-000-000-000	97/07/03	1	1	40.3	11	EL	1	CO	71	R	
Swamp C.	460-6006-481-000-000-000-000	97/07/03	1	1	40.3	11	EL	1	CO	80	R	

Table 1. Tagit Creek and Adjacent Tributaries Fish Collection Data Form - 1997

Stream Name	Watershed Code	Date	Reach #	Site #	Area (m*m)	Water Temp (^{0}C)	Capture Method	Pass/ Trap #	Spp.	FL (mm)	Activity	Comments
Swamp C.	460-6006-481-000-000-000-000	97/07/03	1	1	40.3	11	EL	1	CO	83	R	
Swamp C.	460-6006-481-000-000-000-000	97/07/02	3	2	65.3	11	EL	1	CT	104	R	No lower net.
Swamp C.	460-6006-481-000-000-000-000	97/07/02	3	2	65.3	11	EL	1	CT	110	R	
Swamp C.	460-6006-481-000-000-000-000	97/07/02	3	2	65.3	11	EL	1	CT	113	R	

Notes: - Sampling was conducted by Dave Bustard and Associates (C87).
- nm = not measured
- Area sampled was not available for the minnow trapping sites.

Crew Summary: Dave Bustard
Rob Dams
Catherine Portman
Jordan Beblow
Ian Fuhr

Table 2. Summary of Tagit Creek and Adjacent Tributaries Amphibian Observations, May - July, 1997.

Stream Name	Date	Reach #	Site #	Species	Number	Comments
False Tagit Creek	12/06/97	3	2	Western Toad	1	Observed on creek bank.
False Tagit C. Tributary FTa5	08/07/97	3	13	Western Spotted Frog	1	Located within sample site.
False Tagit C. Tributary FTa5.4	08/07/97	1	20	Western Spotted Frog	1	Located in side tributary to FTa5.4.
Tagit C. Tributary Ta9	01/07/97	1	22	Western Toad	1	Located within sample site.
Tagit C. Tributary Ta9	08/07/97	3	24	Western Toad	1	Observed in swamp near creek.
O'Dine Creek	10/09/97	1	6	Western Spotted Frog	1	Located within sample site.

STREAM SURVEY FORMS

Stream Survey Forms - Explanatory Notes

Data entry of the Stream Survey Cards required certain modifications in order for the data to be explanatory and to correct for inconsistencies between the hard copy and the disk copy. The following is a list of the modifications and some points which are important to note:

- Many of the smaller tributaries which were surveyed have no official watershed codes. All tributaries were assigned alphanumeric codes, including those tributaries that do not have watershed codes. In order for the entry of each stream survey form into the program and to distinguish between each tributary, it was necessary to identify each tributary lacking a watershed code by INCORPORATING THE ALPHANUMERIC CODE INTO THE WATERSHED CODE .

- POOL DEPTH METHOD was entered on each stream survey form and is present on the disk copy. The program MISPRINTS this value on the hard copy, PRINTING OUT THE MAXIMUM RIFFLE DEPTH VALUE IN PLACE OF THE POOL DEPTH METHOD.

- When the percentage riffle is entered as 100%, the program prints out this value as 02. In cases WHERE THE PERCENTAGE RIFFLE IS 100%, IT IS ENTERED AS 99% to avoid the printing error.

- DEBRIS AREA is divided into categories of 0%, 0-5%, 5-15%, and >15% and the data is entered appropriately into each of these categories. WHEN THE STREAM SURVEY FORMS ARE PRINTED OUT, THE CATEGORIES ARE MISPRINTED AS 0%, 0-10%, 10-40%, AND >40%.

- In the 'Cover' section of the stream survey form, the PERCENTAGE COVER BY BOULDER IS REPRESENTATIVE OF THE PERCENTAGE COVER BY BOULDER/COBBLE. This is due to the importance of cobble cover for the rearing of juveniles.

- BED MATERIAL ENTERED AS HIGH COMPACTION ON THE DISK COPY PRINTS OUT ON THE HARD COPY AS LOW COMPACTION AND VICE VERSA.

- For D90 values which are less than 1 cm, the program prints out this value as zero.

- In the 'Banks' section, the METHODS CM, PH and TC were added to the list. CM represents a CONDUCTIVITY METER, PH represents a pH METER, and TC represents a HAND-HELD THERMOMETER.

- The majority of the tributaries were given a TURBIDITY VALUE OF 200 CM. This value was not quantitatively measured but was a SET VALUE USED TO REPRESENT GIN CLEAR WATER which was visually observed.

- CREEKS WHICH HAD A TRICKLE FLOW DISCHARGE WERE GIVEN A MINIMUM DISCHARGE VALUE OF 0.01 M^3/S even though the flow was presumably less than this value. This was done to prevent a null value when some flow was, indeed, present.

- The majority of the discharge values were visually estimated by experienced field persons. THE METHOD OF DISCHARGE WAS ENTERED IN THE METHOD OF WATER VELOCITY CATEGORY because this was the only place the program would allow the appropriate method, VO (visual observation), to be entered.

- In the Reach Symbol, the FISH SPECIES ABBREVIATIONS WHICH ARE IN BRACKETS ARE ONLY SUSPECTED TO BE PRESENT based on other sampling data or other research previously conducted in the area. NO SAMPLING WAS PERFORMED THAT CONFIRMS THAT THESE SPECIES ARE PRESENT.

- In the Reach Symbol, the abbreviations NS and NF in the fish species section stand for 'NOT SAMPLED' and 'NO FISH' respectively.

- In the Reach Symbol, the average stream channel width is rounded off to the nearest 1 m. IF THE AVERAGE STREAM CHANNEL WIDTH IS LESS THAN 0.5 M, IT IS GIVEN A VALUE OF ZERO.

- Stream/Valley Cross-Sections were not entered onto the disk copy; if needed, they can be found on the original stream survey cards.

- The 'Obstructions' section rounds off the obstruction location to 0.1 km from the mouth and the obstruction height to 1 m. Obstructions less than 1 m are important to fish distribution on smaller systems and are specified in the comment section.

DFO/MoELP Stream Survey Form

11-Sep-98 **Stream:** UNNAMED C. **Watershed Code:** 460-6006-397-000-000-000-000-000-000-000-000

Stream Survey Report

Header Information

Stream Name:	UNNAMED C.	**Stream "Local":**	UNNAMED C.			**Access:**	V2
Watershed Code:	460-6006-397-000-000-000-000-000-000-000-000			**Reach No.:**	2	**Reach Length (km):** 5.1 **Method:**	MW
Location:	SURVEYED 100 m BELOW THE ROAD, ~1.4 km U/S FROM MOUTH.	**Map #:**	093L025	**Site No.:**	1	**Length surveyed (m):** 100.0 **Method:**	HC
		U.T.M. :	9 .6212 .60056	**Fish Card:**	N	**Field:** Yes **Historical:**	No
Date: 04/06/97	**Time:** 12:00	**Agency:** C87	**Survey Crew:** CP \RD \ \ \ \ \ \	**Photos:**	A2/2, 3	**Air Photos:**	BCB 91179:37

Channel Characteristics

				Specific Data				
Av. Chan. Width (m):	4.3	**Method Av. Chan. Width (m):**	T	4.3	3.6	5.1	4.7	3.9
Av. Wet. Width (m):	1.0	**Method Av. Wet. Width (m):**	T					
Av. Max. Rif. Depth (cm):	9	**Av. Max. Riffle Depth (cm):**	MS	7	9	11		
Av. Max. Pool Depth (cm):	16	**Av. Max. Pool Depth (cm):**	9	10	18	15	21	
Gradient (%):	4.0	**Method Gradient:**	CL					
% Pool: 30	**% Riffle:** 10	**% Run:** 60	**% Other:** 0	**Method:** GE				
% Side Channel:	>40	**Method Side Channel:**	HC					
% Debris Area: 30		**Method Debris Area:**	GE					

Cover

Cover Total % :	40	**Method Cover Total %:**	GE						
Dp Pool : 10	**L.O.D.:** 80	**Boulder:** 0	**In Veg.:** 0	**Over Veg:**	10	**Cutbank:**	0		
Crown Closure % :	30	**Method Crown Closure:**	GE	**Aspect :**	S	**Method Aspect:**	MW		

Discharge

				Specific Data
Wetted Width (m) :		**Method Wetted Width (m) :**		
Mean Depth (m) :		**Method Mean Depth (m) :**		
Mean Velocity (m/s) :		**Method Mean Velocity (m/s**	VO	
Discharge (m3/s) :	0.01	**Method Discharge (m3/s) :**		

Reach Symbol

(Fish)

NF

4 B 4.0	9100
(Width, Valley: Channel, Slope)	(Bed Material)

Bed Material

% Fines (<2mm):	90	**% Fines (<2mm):**	90
% Gravels:	10	**Small (2-16mm):**	10
		Large (16-64mm):	0
% Larges:	0	**Small cobble (64-128mm):**	0
		Large cobble (128-256mm):	0
		Boulder cobble (>256mm):	0
% Bedrock:	0	**% Bedrock:**	0
D90 (cm):		**Compaction:**	High

Banks

Height (m):	0.5	**% Unstable:**			0
Textures Fines:	Yes	**Gravel:** Yes	**Larges:** No	**Bedrock:**	No
Confinement:	3				
Valley: Chan. Ratio:	2				
Stage:	M				
Flood Signs Ht(m):	0.1	**Method Flood Signs:**			MS
Braided:	Y	**Method Braided:**			GE
Bars (%):	20	**Method Bars:**			GE
pH:	8.3	**Method pH:**			PH
02 (ppm):		**Method Dissolved Oxygen:**			
Water Temp. (°C):	13.0	**Method Temperature:**			TC
Turb. (cm):	200	**Method Turbidity:**			GE
Cond. (µmhos):	90	**Method Conductivity:**			CM

DFO/MoELP Stream Survey Form

11-Sep-98 **Stream:** UNNAMED C. **Watershed Code:** 460-6006-397-000-000-000-000-000-000-000-000

Stream Survey Report

Stream/Valley Cross-Section

Fish Summary

Obstructions

Comments

C1	Electrofished 78 m length of stream for 700 s. with no lower net. No fish were caught/observed.
C2	Water is tannic in colour. Air Temp.: 16.5 C
C3	Low gradient with trickle flow discharge. Ponded for short distance above the road. Swampy seepage below the road. Dewaters in the summer/winter.
C4	Channel was incorrectly mapped at the road crossing. See map for revised form.
C5	This creek is classed as suspected S3 habitat to the top of R1 at 300 m. U/S to 3800 m is class S5 and u/s from 3800 m is class S6.

DFO/MoELP Stream Survey Form

11-Sep-98 **Stream:** FALSE TAGIT C. **Watershed Code:** 460-6006-407-000-000-000-000-000-000-000-000

Stream Survey Report

Header Information

Stream Name:	FALSE TAGIT C.	**Stream "Local":**	FALSE TAGIT C.			**Access:**	V2
Watershed Code:	460-6006-407-000-000-000-000-000-000-000-000			**Reach No.:**	2	**Reach Length (km):** 1.3	**Method:** MW
Location:	MAIN HAUL ROAD BRIDGE CROSSING, ~2.5 km U/S FROM MOUTH.	**Map #:**	093L025	**Site No.:**	1	**Length surveyed (m):** 100.0	**Method:** HC
		U.T.M. :	9 .6192 .60061	**Fish Card:**	Y	**Field:** Yes	**Historical:** No
Date: 11/06/97	**Time:** 12:00	**Agency:** C87	**Survey Crew:** RD\ \ \ \ \ \ \ \	**Photos:**	A3/2, 3	**Air Photos:**	BCB 91179:35

Channel Characteristics

				Specific Data				
Av. Chan. Width (m):	4.8	**Method Av. Chan. Width (m):**	T	4.6	4.4	5.1	5.8	4.3
Av. Wet. Width (m):	3.9	**Method Av. Wet. Width (m):**	T					
Av. Max. Rif. Depth (cm):	15	**Av. Max. Riffle Depth (cm):**	MS	18	15	12		
Av. Max. Pool Depth (cm):	44	**Av. Max. Pool Depth (cm):**	15	55	37	40		
Gradient (%):	2.5	**Method Gradient:**	CL					
% Pool: 30	**% Riffle:** 40	**% Run:** 30	**% Other:** 0	**Method:** GE				
% Side Channel:	0-10	**Method Side Channel:**	GE					
% Debris Area: 10		**Method Debris Area:**	GE					

Cover

Cover Total % :	70	**Method Cover Total %:**	GE						
Dp Pool : 30	**L.O.D.:** 10	**Boulder:** 40	**In Veg.:** 0	**Over Veg:** 10	**Cutbank:** 10				
Crown Closure % :	45	**Method Crown Closure:**	GE	**Aspect :**	SW	**Method Aspect:**	MW		

Discharge

				Specific Data
Wetted Width (m) :		**Method Wetted Width (m) :**		
Mean Depth (m) :		**Method Mean Depth (m) :**		
Mean Velocity (m/s) :		**Method Mean Velocity (m/s**	VO	
Discharge (m3/s) :	0.24	**Method Discharge (m3/s) :**		

Reach Symbol

(Fish)

CT* RB(*) (SST) DV(*) PL

5 C 2.5	1270
(Width, Valley: Channel, Slope)	(Bed Material)

Bed Material

% Fines (<2mm):	5	**% Fines (<2mm):**	5
% Gravels:	30	**Small (2-16mm):**	10
		Large (16-64mm):	20
% Larges:	65	**Small cobble (64-128mm):**	35
		Large cobble (128-256mm):	25
		Boulder cobble (>256mm):	5
% Bedrock:	0	**% Bedrock:**	0
D90 (cm):	18	**Compaction:**	Medium

Banks

Height (m):	1.5	**% Unstable:**	5
Textures Fines:	Yes	**Gravel:** Yes **Larges:** No	**Bedrock:** No
Confinement:	4		
Valley: Chan. Ratio:	3		
Stage:	M		
Flood Signs Ht(m):	0.7	**Method Flood Signs:**	MS
Braided:	N	**Method Braided:**	GE
Bars (%):	10	**Method Bars:**	GE
pH:	7.0	**Method pH:**	PH
02 (ppm):		**Method Dissolved Oxygen:**	
Water Temp. (°C):	12.0	**Method Temperature:**	TC
Turb. (cm):	200	**Method Turbidity:**	GE
Cond. (µmhos):	30	**Method Conductivity:**	CM

DFO/MoELP Stream Survey Form

10-Feb-98 **Stream:** FALSE TAGIT C. **Watershed Code:** 460-6006-407-000-000-000-000-000-000-000-000-000

Stream Survey Report

Stream/Valley Cross-Section

Fish Summary

Species	Number	Size Range (mm)	Life Phase	Use 1	Use 2	Use 3	Method/Reference
CT	24	59-122	J	R			EL
RB	10	55-133	J	R			EL
TR	1	27	F	R			EL
TR	1	66	J	R			EL
DV	1	38	F	R			EL

Obstructions

Comments

C1 Electrofished 80 m length of stream for 770 s. RB, CT, and DV were caught. Assume CT spawn here due to the presence of trout fry still in the gravel; an attempt was made to avoid shocking/harming these small fry.

C2 Nice creek with stable banks; pockets of suitable trout spawning habitat are present. Easy fish movement within this reach. No access problems to R2 based on the air observations; therefore, the RB caught at this site may be SST.

C3 This site was minnow trapped in '96; no coho were caught at that time either. Envirocon (Kemano Completion Report, 1984) suggested coho can be present during some years.

DFO/MoELP Stream Survey Form

11-Sep-98 **Stream:** FALSE TAGIT C. **Watershed Code:** 460-6006-407-000-000-000-000-000-000-000-000

Stream Survey Report

Header Information

Stream Name:	FALSE TAGIT C.	**Stream "Local":**	FALSE TAGIT C.			**Access:**			FT
Watershed Code:	460-6006-407-000-000-000-000-000-000-000-000			**Reach No.:**	3	**Reach Length (km):**	2.2	**Method:**	MW
Location:	~450 m U/S FROM FTa4 CONFLUENCE; ~1050 m U/S IN R3.	**Map #:**	093L025	**Site No.:**	2	**Length surveyed (m):**	200.0	**Method:**	HC
		U.T.M.:	9 .6192 .60061	**Fish Card:**	N	**Field:** Yes		**Historical:**	No
Date: 12/06/97	**Time:** 11:00	**Agency:** C87	**Survey Crew:** CP \JB \ \ \ \ \ \ \	**Photos:**	B1/13, 14	**Air Photos:**			BCB 91179:110

Channel Characteristics

				Specific Data					
Av. Chan. Width (m):	4.5	**Method Av. Chan. Width (m):**	T	4.1	6.3	5.4	2.8	4.7	3.5
Av. Wet. Width (m):	3.4	**Method Av. Wet. Width (m):**	T	2.3	5.6	4.3	2.2	3.2	2.6
Av. Max. Rif. Depth (cm):	18	**Av. Max. Riffle Depth (cm):**	MS	15	20	19			
Av. Max. Pool Depth (cm):	43	**Av. Max. Pool Depth (cm):**	18	30	35	65			
Gradient (%):	4.0	**Method Gradient:**	CL						

% Pool: 20 **% Riffle:** 40 **% Run:** 40 **% Other:** 0 **Method:** GE

% Side Channel:	10-40	**Method Side Channel:**	GE
% Debris Area:	10-40	**Method Debris Area:**	GE

Cover

Cover Total % :	70	**Method Cover Total %:**	GE						
Dp Pool :	10	**L.O.D.:**	15	**Boulder:**	55	**In Veg.:**	0	**Over Veg:**	5
Cutbank:	15	**Crown Closure % :**	10	**Method Crown Closure:**	GE	**Aspect :**	S	**Method Aspect:**	MW

Discharge

				Specific Data
Wetted Width (m) :		**Method Wetted Width (m) :**		
Mean Depth (m) :		**Method Mean Depth (m) :**		
Mean Velocity (m/s) :		**Method Mean Velocity (m/s**	VO	
Discharge (m3/s) :	0.50	**Method Discharge (m3/s) :**		

Reach Symbol

(Fish)	
PL* CT(*)	
4 B 4.0	1630
(Width, Valley: Channel, Slope)	(Bed Material)

Bed Material

% Fines (<2mm):	10	**% Fines (<2mm):**	10
% Gravels:	60	**Small (2-16mm):**	20
		Large (16-64mm):	40
% Larges:	30	**Small cobble (64-128mm):**	30
		Large cobble (128-256mm):	0
		Boulder cobble (>256mm):	0
% Bedrock:	0	**% Bedrock:**	0
D90 (cm):	10	**Compaction:**	High

Banks

Height (m):	1.2	**% Unstable:**	5
Textures Fines:	Yes	**Gravel:** Yes **Larges:** Yes **Bedrock:**	No
Confinement:	4		
Valley: Chan. Ratio:	2		
Stage:	M		
Flood Signs Ht(m):	0.9	**Method Flood Signs:**	MS
Braided:	N	**Method Braided:**	GE
Bars (%):	20	**Method Bars:**	GE
pH:	7.0	**Method pH:**	PH
02 (ppm):		**Method Dissolved Oxygen:**	
Water Temp. (°C):	13.0	**Method Temperature:**	TC
Turb. (cm):	200	**Method Turbidity:**	GE
Cond. (μmhos):	50	**Method Conductivity:**	CM

Stream/Valley Cross-Section

Fish Summary

Species	Number	Size Range (mm)	Life Phase	Use 1	Use 2	Use 3	Method/Reference
CT	5	60	J	R			EL
PL	2		A	S			VO

Obstructions

Comments

C1 Electrofished 30 m length of stream for 300 s. with no lower net. 1 CT was caught and 4 CT were observed. A pair of PL were observed at the base of the sample site; they appear to be making a redd (photo B1/15).

C2 Water is slightly tannic in colour.

C3 Lower R3 consists of a series of BD's and ponds just above the cutblock.

C4 Dynamic creek with good cobble habitat for rearing, good potential spawning habitat in sections, and abundant LOD providing cover.

C5 Observed a Western Toad on the creek bank.

C6 R3 is classed as S3 habitat.

DFO/MoELP Stream Survey Form

11-Sep-98 | **Stream:** FALSE TAGIT C. | **Watershed Code:** 460-6006-407-000-000-000-000-000-000-000-000-000

Stream Survey Report

Header Information

Stream Name:	FALSE TAGIT C.	**Stream "Local":**	FALSE TAGIT C.			**Access:**	V2
Watershed Code:	460-6006-407-000-000-000-000-000-000-000-000-000			**Reach No.:**	4	**Reach Length (km):** 1.8 **Method:**	MW
Location:	LOWER NET ~78 m D/S FROM ROAD CULVERT, ~450 m U/S IN R4.	**Map #:**	093L025	**Site No.:**	3	**Length surveyed (m):** 100.0 **Method:**	HC
		U.T.M.:	9 .6192 .60061	**Fish Card:**	N	**Field:** Yes **Historical:**	No
Date: 11/06/97	**Time:** 12:30	**Agency:** C87	**Survey Crew:** CP \JB \ \ \ \ \ \ \	**Photos:**	B1/1, 2	**Air Photos:**	BCB 91179:110

Channel Characteristics

				Specific Data				
Av. Chan. Width (m):	3.3	**Method Av. Chan. Width (m):**	T	3.8	3.9	3.6	2.5	2.7
Av. Wet. Width (m):	3.3	**Method Av. Wet. Width (m):**	T	3.8	3.9	3.6	2.5	2.7
Av. Max. Rif. Depth (cm):	8	**Av. Max. Riffle Depth (cm):**	MS	7	10	7		
Av. Max. Pool Depth (cm):	26	**Av. Max. Pool Depth (cm):**	8	38	22	19		
Gradient (%):	6.0	**Method Gradient:**	CL					

% Pool: 20 **% Riffle:** 75 **% Run:** 5 **% Other:** 0 **Method:** GE

% Side Channel:	0-10	**Method Side Channel:**	GE
% Debris Area:	0-10	**Method Debris Area:**	GE

Cover

Cover Total % :	70	**Method Cover Total %:**	GE				
Dp Pool : 10 **L.O.D.:**	20	**Boulder:** 50	**In Veg.:** 0	**Over Veg:**	10	**Cutbank:**	10
Crown Closure % :	15	**Method Crown Closure:**	GE	**Aspect :**	E	**Method Aspect:**	MW

Discharge

				Specific Data
Wetted Width (m) :		**Method Wetted Width (m) :**		
Mean Depth (m) :		**Method Mean Depth (m) :**		
Mean Velocity (m/s) :		**Method Mean Velocity (m/s**	VO	
Discharge (m3/s) :	0.23	**Method Discharge (m3/s) :**		

Reach Symbol

(Fish)

CT

3 C 6.0	0190
(Width, Valley: Channel, Slope)	(Bed Material)

Bed Material

% Fines (<2mm):	5	**% Fines (<2mm):**	5
% Gravels:	10	**Small (2-16mm):**	5
		Large (16-64mm):	5
% Larges:	85	**Small cobble (64-128mm):**	30
		Large cobble (128-256mm):	45
		Boulder cobble (>256mm):	10
% Bedrock:	0	**% Bedrock:**	0
D90 (cm):	23	**Compaction:**	Medium

Banks

Height (m):	1.2	**% Unstable:**	5
Textures Fines:	Yes	**Gravel:** Yes **Larges:** No **Bedrock:**	No
Confinement:	4		
Valley: Chan. Ratio:	3		
Stage:	M		
Flood Signs Ht(m):		**Method Flood Signs:**	
Braided:	N	**Method Braided:**	GE
Bars (%):	5	**Method Bars:**	GE
pH:	7.0	**Method pH:**	PH
02 (ppm):		**Method Dissolved Oxygen:**	
Water Temp. (°C):	15.0	**Method Temperature:**	TC
Turb. (cm):	200	**Method Turbidity:**	GE
Cond. (µmhos):	40	**Method Conductivity:**	CM

DFO/MoELP Stream Survey Form

11-Sep-98 **Stream:** FALSE TAGIT C. **Watershed Code:** 460-6006-407-000-000-000-000-000-000-000-000-000

Stream Survey Report

Stream/Valley Cross-Section

Fish Summary

Species	Number	Size Range (mm)	Life Phase	Use 1	Use 2	Use 3	Method/Reference
CT	18	52-199	J	R			EL

Obstructions

Comments

C1 Electrofished 28 m length of stream d/s from the culvert for 440 s. with a lower net. CT were caught. Electrofished ~10 m length of stream above the culvert with no lower net; 4 fish were observed.

C2 Steep creek with large angular bed material. Very limited potential spawning habitat. Excellent parr rearing habitat.

C3 Problem culvert at road: 18 m long x 1.5 m diameter (oval) with a 15 cm drop at the outlet and ~6% gradient (photo B1/16).

C4 R4 is classed as S4 habitat.

DFO/MoELP Stream Survey Form

11-Sep-98 **Stream:** FALSE TAGIT C. **Watershed Code:** 460-6006-407-000-000-000-000-000-000-000-000-000

Stream Survey Report

Header Information

Stream Name:	FALSE TAGIT C.	**Stream "Local":**	FALSE TAGIT C.			**Access:**	H
Watershed Code:	460-6006-407-000-000-000-000-000-000-000-000-000			**Reach No.:**	4	**Reach Length (km):** 1.8 **Method:**	MW
Location:	~200 m D/S FROM LAKE OUTLET.	**Map #:**	093L025	**Site No.:**	4	**Length surveyed (m):** 300.0 **Method:**	HC
		U.T.M. :	9 .6192 .60061	**Fish Card:**	N	**Field:** Yes **Historical:**	No
Date: 08/07/97	**Time:** 12:00	**Agency:** C87	**Survey Crew:** RD \IF \ \ \ \ \ \ \	**Photos:**	A10/1, 2	**Air Photos:**	BCB 91179:110

Channel Characteristics

				Specific Data					
Av. Chan. Width (m):	2.8	**Method Av. Chan. Width (m):**	T	1.6	2.8	3.2	3.1	2.9	3.2
Av. Wet. Width (m):	1.9	**Method Av. Wet. Width (m):**	T	1.4	2.4	2.5	3.1	0.8	0.9
Av. Max. Rif. Depth (cm):	7	**Av. Max. Riffle Depth (cm):**	MS	5	6	9			
Av. Max. Pool Depth (cm):	35	**Av. Max. Pool Depth (cm):**	7	52	21	32			
Gradient (%):	4.0	**Method Gradient:**	CL						

% Pool: 20 **% Riffle:** 70 **% Run:** 10 **% Other:** 0 **Method:** GE

% Side Channel:	0	**Method Side Channel:**	GE
% Debris Area:	0-10	**Method Debris Area:**	GE

Cover

Cover Total % :	75	**Method Cover Total %:**	GE				
Dp Pool : 20 **L.O.D.:**	10	**Boulder:** 60 **In Veg.:**	0	**Over Veg:**	5	**Cutbank:**	5
Crown Closure % :		**Method Crown Closure:**		**Aspect :**	SE	**Method Aspect:**	MW

Discharge

				Specific Data
Wetted Width (m) :		**Method Wetted Width (m) :**		
Mean Depth (m) :		**Method Mean Depth (m) :**		
Mean Velocity (m/s) :		**Method Mean Velocity (m/s**	VO	
Discharge (m3/s) :	0.04	**Method Discharge (m3/s) :**		

Reach Symbol

(Fish)

CT* LNC

3 A 4.0	1261
(Width, Valley: Channel, Slope)	(Bed Material)

Bed Material

% Fines (<2mm):	5	**% Fines (<2mm):**	5
% Gravels:	20	**Small (2-16mm):**	5
		Large (16-64mm):	15
% Larges:	60	**Small cobble (64-128mm):**	20
		Large cobble (128-256mm):	30
		Boulder cobble (>256mm):	10
% Bedrock:	15	**% Bedrock:**	15
D90 (cm):	28	**Compaction:**	Medium

Banks

Height (m):	3.5	**% Unstable:**	0				
Textures Fines:	Yes	**Gravel:** Yes	**Larges:** No	**Bedrock:**	Yes		
Confinement:	1						
Valley: Chan. Ratio:	1						
Stage:	L						
Flood Signs Ht(m):	0.3	**Method Flood Signs:**	MS				
Braided:	N	**Method Braided:**	GE				
Bars (%):	25	**Method Bars:**	GE				
pH:	7.2	**Method pH:**	PH				
02 (ppm):		**Method Dissolved Oxygen:**					
Water Temp. (°C):	17.0	**Method Temperature:**	TC				
Turb. (cm):	200	**Method Turbidity:**	GE				
Cond. (µmhos):	50	**Method Conductivity:**	CM				

DFO/MoELP Stream Survey Form

11-Sep-98 **Stream:** FALSE TAGIT C. **Watershed Code:** 460-6006-407-000-000-000-000-000-000-000-000-000

Stream Survey Report

Stream/Valley Cross-Section

Fish Summary

Species	Number	Size Range (mm)	Life Phase	Use 1	Use 2	Use 3	Method/Reference
CT	10	60-96	J	R			EL
CT	3	28	F	R			EL
LNC	2	86-120	J	R			EL

Obstructions

Obstruction Ht(m)	Type	Location
1	F	6.8
1	BD	7.0
1	BD	7.0

Comments

C1 Spot shocked 30 m length of stream with no lower net. CT and LNC were caught. The CT fry were newly-emerged; suspect due to the warm lake outlet temperatures. Observed numerous fry further u/s near the lake outlet.

C2 Small, very warm creek. Some bedrock with several small short chutes are present; they are restrictions to CT in low flows. 0.8 m high falls over bedrock is located in this section. Two 0.5 m high BD's are present at the lake outlet; CT from the lake spawn in this creek but the BD's are restrictions for fish trying to return to the lake; suspect during high flows they are passable.

C3 Bed material is mainly flat and angular but short sections with excellent potential spawning gravels are present.

C4 R4 is classed as S4 habitat.

DFO/MoELP Stream Survey Form

11-Sep-98 **Stream:** FALSE TAGIT C. **Watershed Code:**

Stream Survey Report

460-6006-407-000-000-000-000-000-000-000-000-000

Header Information

Stream Name:	FALSE TAGIT C.	**Stream "Local":**	FALSE TAGIT C.			**Access:**	H
Watershed Code:	460-6006-407-000-000-000-000-000-000-000-000-000			**Reach No.:**	6	**Reach Length (km):** 1.0 **Method:**	MW
Location:	TOP END OF MEADOW ABOVE LARGE LAKE; 900 m U/S IN R6.	**Map #:**	093L025	**Site No.:**	5	**Length surveyed (m):** 100.0 **Method:**	HC
		U.T.M.:	9 .6192 .60061	**Fish Card:**	N	**Field:** Yes **Historical:**	No
Date: 08/07/97	**Time:** 9:30	**Agency:** C87	**Survey Crew:** DB \CP\ \ \ \ \ \ \	**Photos:**	B2/17, 18	**Air Photos:**	BCB 91179:210

Channel Characteristics

					Specific Data					
Av. Chan. Width (m):	1.1	**Method Av. Chan. Width (m):**	T		1.1	1.8	0.7	1.2	1.2	0.8
Av. Wet. Width (m):	1.1	**Method Av. Wet. Width (m):**	T		1.1	1.8	0.7	1.2	1.0	0.8
Av. Max. Rif. Depth (cm):	5	**Av. Max. Riffle Depth (cm):**	MS		3	4	8			
Av. Max. Pool Depth (cm):	30	**Av. Max. Pool Depth (cm):**	5		22	30	38			
Gradient (%):	1.0	**Method Gradient:**	CL							
% Pool: 40	**% Riffle:** 10	**% Run:** 50	**% Other:** 0	**Method:** GE						
% Side Channel:	0	**Method Side Channel:**	GE							
% Debris Area:	>40	**Method Debris Area:**	GE							

Cover

Cover Total % :	95	**Method Cover Total %:**	GE						
Dp Pool : 0	**L.O.D.:** 50	**Boulder:** 0	**In Veg.:** 0	**Over Veg:** 40	**Cutbank:**	10			
Crown Closure % :	5	**Method Crown Closure:**	GE	**Aspect :** SW	**Method Aspect:**	MW			

Discharge

				Specific Data
Wetted Width (m) :		**Method Wetted Width (m) :**		
Mean Depth (m) :		**Method Mean Depth (m) :**		
Mean Velocity (m/s) :		**Method Mean Velocity (m/s**	VO	
Discharge (m3/s) :	0.01	**Method Discharge (m3/s) :**		

Reach Symbol

(Fish)

CT

1 D 1.0	9100
(Width, Valley: Channel, Slope)	(Bed Material)

Bed Material

% Fines (<2mm):	90	**% Fines (<2mm):**	90
% Gravels:	10	**Small (2-16mm):**	5
		Large (16-64mm):	5
% Larges:	0	**Small cobble (64-128mm):**	0
		Large cobble (128-256mm):	0
		Boulder cobble (>256mm):	0
% Bedrock:	0	**% Bedrock:**	0
D90 (cm):	1	**Compaction:**	High

Banks

Height (m):	0.4	**% Unstable:**				0
Textures Fines:	Yes	**Gravel:**	No	**Larges:** No	**Bedrock:**	No
Confinement:	5					
Valley: Chan. Ratio:	4					
Stage:	M					
Flood Signs Ht(m):	0.25	**Method Flood Signs:**				MS
Braided:	N	**Method Braided:**				GE
Bars (%):	5	**Method Bars:**				GE
pH:		**Method pH:**				
02 (ppm):		**Method Dissolved Oxygen:**				
Water Temp. (°C):	8.0	**Method Temperature:**				TC
Turb. (cm):	200	**Method Turbidity:**				GE
Cond. (µmhos):	40	**Method Conductivity:**				CM

DFO/MoELP Stream Survey Form

11-Sep-98 **Stream:** FALSE TAGIT C. **Watershed Code:** 460-6006-407-000-000-000-000-000-000-000-000-000

Stream Survey Report

Stream/Valley Cross-Section

Fish Summary

Species	Number	Size Range (mm)	Life Phase	Use 1	Use 2	Use 3	Method/Reference
CT	9	40-52	J	R			EL

Obstructions

Obstruction Ht(m)	Type	Location
	BD	7.9

Comments

C1 Electrofished 70 m length of stream for 780 s. with no lower net. CT fry were caught. R6 is classed as S4 habitat.

C2 There are at least 4 beaver dams are present between the lake and this site that are restrictions to fish (see map). Photo B2/15: lake d/s.

C3 Moose signs were observed in the meadow.

C4 Channel is very stable in this section of creek.

C5 Hiked over to tributary FTa5.1.1 from Site 5; There is no evidence of surface water. No defined channel - wet meadow but not a creek.

DFO/MoELP Stream Survey Form

11-Sep-98 **Stream:** FALSE TAGIT C. **Watershed Code:** 460-6006-407-000-000-000-000-000-000-000-000-000

Stream Survey Report

Header Information

Stream Name:	FALSE TAGIT C.	**Stream "Local":**	FALSE TAGIT C.			**Access:**	H
Watershed Code:	460-6006-407-000-000-000-000-000-000-000-000-000			**Reach No.:**	7	**Reach Length (km):** 2.1	**Method:** MW
Location:	1.7 km U/S IN R7; ~1.4 km D/S FROM HEADWATER LAKE.	**Map #:**	093L025	**Site No.:**	6	**Length surveyed (m):** 80.0	**Method:** HC
		U.T.M. :	9 .6192 .60061	**Fish Card:**	N	**Field:** Yes	**Historical:** No
Date: 08/07/97	**Time:** 16:00	**Agency:** C87	**Survey Crew:** RD \IF\ \ \ \ \ \ \	**Photos:**	A10/7, 8	**Air Photos:**	BCB 91179:211

Channel Characteristics

				Specific Data					
Av. Chan. Width (m):	1.0	**Method Av. Chan. Width (m):**	T	1.0	1.3	0.9	0.8	0.9	1.1
Av. Wet. Width (m):	0.6	**Method Av. Wet. Width (m):**	T	0.2	1.1				
Av. Max. Rif. Depth (cm):	1	**Av. Max. Riffle Depth (cm):**	MS						
Av. Max. Pool Depth (cm):	26	**Av. Max. Pool Depth (cm):**	1	32	27	19			
Gradient (%):	7.0	**Method Gradient:**	CL						
% Pool: 40	**% Riffle:** 60	**% Run:** 0	**% Other:** 0	**Method:** GE					
% Side Channel:	0	**Method Side Channel:**	GE						
% Debris Area:	0-10	**Method Debris Area:**	GE						

Cover

Cover Total % :	10	**Method Cover Total %:**	GE						
Dp Pool : 60	**L.O.D.:** 20	**Boulder:** 0	**In Veg.:** 0	**Over Veg:**	10	**Cutbank:**		10	
Crown Closure % :	30	**Method Crown Closure:**	GE	**Aspect :**	SE	**Method Aspect:**		MW	

Discharge

				Specific Data
Wetted Width (m) :		**Method Wetted Width (m) :**		
Mean Depth (m) :		**Method Mean Depth (m) :**		
Mean Velocity (m/s) :		**Method Mean Velocity (m/s**	VO	
Discharge (m3/s) :	0.01	**Method Discharge (m3/s) :**		

Reach Symbol

(Fish)

NF

1 B 7.0	9100
(Width, Valley: Channel, Slope)	(Bed Material)

Bed Material

% Fines (<2mm):	90	**% Fines (<2mm):**	90
% Gravels:	10	**Small (2-16mm):**	10
		Large (16-64mm):	0
% Larges:	0	**Small cobble (64-128mm):**	0
		Large cobble (128-256mm):	0
		Boulder cobble (>256mm):	0
% Bedrock:	0	**% Bedrock:**	0
D90 (cm):		**Compaction:**	High

Banks

Height (m):	0.9	**% Unstable:**	0
Textures Fines:	Yes	**Gravel:** No **Larges:** No **Bedrock:**	No
Confinement:	3		
Valley: Chan. Ratio:	2		
Stage:	L		
Flood Signs Ht(m):	0.3	**Method Flood Signs:**	MS
Braided:	N	**Method Braided:**	GE
Bars (%):	60	**Method Bars:**	GE
pH:	8.1	**Method pH:**	PH
02 (ppm):		**Method Dissolved Oxygen:**	
Water Temp. (°C):	12.0	**Method Temperature:**	TC
Turb. (cm):	200	**Method Turbidity:**	GE
Cond. (µmhos):		**Method Conductivity:**	

DFO/MoELP Stream Survey Form

11-Sep-98 **Stream:** FALSE TAGIT C. **Watershed Code:** 460-6006-407-000-000-000-000-000-000-000-000-000

Stream Survey Report

Stream/Valley Cross-Section

Fish Summary

Obstructions

Comments

C1	Electrofished 80 m length of stream. No fish were caught/observed.
C2	Very little water in creek - barely shockable. D/S the channel is dry with an 8% gradient.
C3	Mud/moss bed material; not fish habitat.
C4	Abundant alder overstory covering the channel.
C5	R7 is classed as S6 habitat.

DFO/MoELP Stream Survey Form

10-Feb-98 Stream: FALSE TAGIT C. Watershed Code:

Stream Survey Report

460-6006-407-000-000-000-000-000-000-000-000-000

Header Information

Stream Name:	FALSE TAGIT C.	**Stream "Local":**	FALSE TAGIT C.			**Access:**	H
Watershed Code:	460-6006-407-000-000-000-000-000-000-000-000-000			**Reach No.:**	8	**Reach Length (km):** 0.9 **Method:**	MW
Location:	TOP END OF R8; 150 m D/S FROM HEADWATER LAKE OUTLET.	**Map #:**	093L025	**Site No.:**	7	**Length surveyed (m):** 100.0 **Method:**	HC
		U.T.M. :	9 .6192 .60061	**Fish Card:**	N	**Field:** Yes **Historical:**	No
Date: 08/07/97	**Time:** 10:00	**Agency:** C87	**Survey Crew:** RD \IF\ \ \ \ \ \ \	**Photos:**	A9/22, 23	**Air Photos:**	BCB 91179:211

Channel Characteristics

				Specific Data					
Av. Chan. Width (m):	0.9	**Method Av. Chan. Width (m):**	T	1.3	0.6	0.9	0.6	1.2	0.7
Av. Wet. Width (m):	0.5	**Method Av. Wet. Width (m):**	T	0.4	0.6	0.7	0.6	0.4	
Av. Max. Rif. Depth (cm):	2	**Av. Max. Riffle Depth (cm):**	MS	1	3	2			
Av. Max. Pool Depth (cm):	27	**Av. Max. Pool Depth (cm):**	2	12	45	24			
Gradient (%):	4.0	**Method Gradient:**	CL						

% Pool: 10 **% Riffle:** 30 **% Run:** 60 **% Other:** 0 **Method:** GE

% Side Channel:	0	**Method Side Channel:**	GE
% Debris Area:	0-10	**Method Debris Area:**	GE

Cover

Cover Total % :	50	**Method Cover Total %:**	GE						
Dp Pool :	10	**L.O.D.:**	15	**Boulder:**	5	**In Veg.:**	0	**Over Veg:**	40
Cutbank:	30								
Crown Closure % :		**Method Crown Closure:**		**Aspect :**	SE	**Method Aspect:**	MW		

Discharge

				Specific Data
Wetted Width (m) :		**Method Wetted Width (m) :**		
Mean Depth (m) :		**Method Mean Depth (m) :**		
Mean Velocity (m/s) :		**Method Mean Velocity (m/s**	VO	
Discharge (m3/s) :	0.01	**Method Discharge (m3/s) :**		

Reach Symbol

(Fish)

NF

1 C 4.0	7120
(Width, Valley: Channel, Slope)	(Bed Material)

Bed Material

% Fines (<2mm):	70	**% Fines (<2mm):**	70
% Gravels:	15	**Small (2-16mm):**	5
		Large (16-64mm):	10
% Larges:	15	**Small cobble (64-128mm):**	10
		Large cobble (128-256mm):	5
		Boulder cobble (>256mm):	0
% Bedrock:	0	**% Bedrock:**	0
D90 (cm):	8	**Compaction:**	High

Banks

Height (m):	0.9	**% Unstable:**	0
Textures Fines:	Yes	**Gravel:** No **Larges:** No **Bedrock:**	No
Confinement:	4		
Valley: Chan. Ratio:	3		
Stage:	L		
Flood Signs Ht(m):	0.3	**Method Flood Signs:**	MS
Braided:	N	**Method Braided:**	GE
Bars (%):		**Method Bars:**	
pH:	7.6	**Method pH:**	PH
02 (ppm):		**Method Dissolved Oxygen:**	
Water Temp. (°C):	12.0	**Method Temperature:**	TC
Turb. (cm):	200	**Method Turbidity:**	GE
Cond. (µmhos):	60	**Method Conductivity:**	CM

DFO/MoELP Stream Survey Form

11-Sep-98 **Stream:** FALSE TAGIT C. **Watershed Code:** 460-6006-407-000-000-000-000-000-000-000-000-000

Stream Survey Report

Stream/Valley Cross-Section

Fish Summary

Obstructions

Obstruction Ht(m)	Type	Location
	BD	11.1

Comments

C1 Electrofished 100 m length of stream with no lower net. No fish were caught/observed.

C2 Very small, stable creek with trickle flow discharge. Two large, old beaver dams are located at the lake outlet.

C3 Outlet channel has a black mud bottom with no spawning potential. Some gravel is present in the pool areas.

C4 No fish potential; creek is too small and the channel flows subsurface (under moss) in sections.

C5 R8 is classed as S6 habitat.

DFO/MoELP Stream Survey Form

10-Feb-98 **Stream:** FALSE TAGIT C. TRIBUTARY **Watershed Code:** 460-6006-407-FTa-1 -000-000-000-000-000-000-000

Stream Survey Report

Header Information

Stream Name:	FALSE TAGIT C. TRIBUTARY	**Stream "Local":**	FTa1			**Access:**	V2
Watershed Code:	460-6006-407-FTa-1 -000-000-000-000-000-000-000			**Reach No.:**	2	**Reach Length (km):** 2.9 **Method:**	MW
Location:	SURVEYED 100 m BELOW THE ROAD, ~1.8 km U/S FROM THE MOUTH.	**Map #:**	093L025	**Site No.:**	8	**Length surveyed (m):** 100.0 **Method:**	HC
		U.T.M. :	9 .6194 .60066	**Fish Card:**	N	**Field:** Yes **Historical:**	No
Date: 04/06/97 **Time:** 13:00 **Agency:** C87 **Survey Crew:** RD\CP\ \ \ \ \ \ \				**Photos:**	A2/4, 5	**Air Photos:**	BCB 91179:35

Channel Characteristics

				Specific Data				
Av. Chan. Width (m):	0.9	**Method Av. Chan. Width (m):**	T	0.5	0.8	1.1	1.3	0.9
Av. Wet. Width (m):	0.9	**Method Av. Wet. Width (m):**	T	0.5	0.8	1.1	1.3	0.9
Av. Max. Rif. Depth (cm):	15	**Av. Max. Riffle Depth (cm):**	MS	12	18	15		
Av. Max. Pool Depth (cm):	20	**Av. Max. Pool Depth (cm):**	15	20	18	22		
Gradient (%):	3.5	**Method Gradient:**	CL					

% Pool: 10 **% Riffle:** 20 **% Run:** 70 **% Other:** 0 **Method:** GE

% Side Channel:	0-10	**Method Side Channel:**	GE
% Debris Area:	>40	**Method Debris Area:**	GE

Cover

Cover Total % :	95	**Method Cover Total %:**	GE						
Dp Pool :	20	**L.O.D.:**	30	**Boulder:**	0	**In Veg.:**	0	**Over Veg:**	45
Cutbank:	5								
Crown Closure % :	80	**Method Crown Closure:**	GE	**Aspect :**	SW	**Method Aspect:**	MW		

Discharge

				Specific Data
Wetted Width (m) :		**Method Wetted Width (m) :**		
Mean Depth (m) :		**Method Mean Depth (m) :**		
Mean Velocity (m/s) :		**Method Mean Velocity (m/s**	VO	
Discharge (m3/s) :	0.08	**Method Discharge (m3/s) :**		

Reach Symbol

(Fish)

NF

1 D 3.5	9010
(Width, Valley: Channel, Slope)	(Bed Material)

Bed Material

% Fines (<2mm):	90	**% Fines (<2mm):**	90
% Gravels:	0	**Small (2-16mm):**	0
		Large (16-64mm):	0
% Larges:	10	**Small cobble (64-128mm):**	5
		Large cobble (128-256mm):	5
		Boulder cobble (>256mm):	0
% Bedrock:	0	**% Bedrock:**	0
D90 (cm):	6	**Compaction:**	High

Banks

Height (m):	0.4	**% Unstable:**	5
Textures Fines:	Yes	**Gravel:** No **Larges:** No **Bedrock:**	No
Confinement:	5		
Valley: Chan. Ratio:	4		
Stage:	H		
Flood Signs Ht(m):	0.4	**Method Flood Signs:**	MS
Braided:	N	**Method Braided:**	GE
Bars (%):	0	**Method Bars:**	GE
pH:	8.3	**Method pH:**	PH
02 (ppm):		**Method Dissolved Oxygen:**	
Water Temp. (°C):	7.5	**Method Temperature:**	TC
Turb. (cm):	200	**Method Turbidity:**	GE
Cond. (µmhos):	30	**Method Conductivity:**	CM

DFO/MoELP Stream Survey Form

11-Sep-98 **Stream:** FALSE TAGIT C. TRIBUTARY **Watershed Code:** 460-6006-407-FTa-1 -000-000-000-000-000-000-000

Stream Survey Report

Stream/Valley Cross-Section

Fish Summary

Obstructions

Obstruction Ht(m)	Type	Location
0	X	1.8

Comments

C1 Electrofished 75 m length of stream below the road. No fish were caught/observed.

C2 Water is tannic in colour. Air Temp.: 16.5 C

C3 Overgrown, small channel meanders d/s at a moderate gradient. U/S appears to be steeper.

C4 No potential spawning habitat present.

C5 R1 was observed by air; it was difficult to see the channel due to the heavy alder swales lining the creek. R1 is classed as suspected S6 habitat and R2 is classed as S6 habitat.

DFO/MoELP Stream Survey Form

11-Sep-98 Stream: FALSE TAGIT C. TRIBUTARY Watershed Code: 460-6006-407-FTa-4 -000-000-000-000-000-000-000

Stream Survey Report

Header Information

Stream Name:	FALSE TAGIT C. TRIBUTARY	**Stream "Local":**	FTa4			**Access:**	FT
Watershed Code:	460-6006-407-FTa-4 -000-000-000-000-000-000-000			**Reach No.:**	1	**Reach Length (km):** 0.2	**Method:** MW
Location:	~100 m U/S FROM THE MOUTH.	**Map #:**	093L025	**Site No.:**	9	**Length surveyed (m):** 200.0	**Method:** HC
		U.T.M. :	9 .6202 .60094	**Fish Card:**	N	**Field:** Yes	**Historical:** No
Date: 12/06/97	**Time:** 10:00	**Agency:** C87	**Survey Crew:** CP\JB\ \ \ \ \ \ \	**Photos:**	B1/11, 12	**Air Photos:**	BCB 91179:111

Channel Characteristics

					Specific Data					
Av. Chan. Width (m):	0.9	**Method Av. Chan. Width (m):**	T	0.9	1.0	1.0	1.2	0.8	0.7
Av. Wet. Width (m):	0.5	**Method Av. Wet. Width (m):**	T	0.5	0.4	0.8	0.4	0.7	0.2
Av. Max. Rif. Depth (cm):	11	**Av. Max. Riffle Depth (cm):**	MS	12	10	10			
Av. Max. Pool Depth (cm):	23	**Av. Max. Pool Depth (cm):**	11	20	24	24			
Gradient (%):	2.5	**Method Gradient:**	CL						

% Pool: 30 **% Riffle:** 20 **% Run:** 50 **% Other:** 0 **Method:** GE

% Side Channel:	0-10	**Method Side Channel:**	GE
% Debris Area:	>40	**Method Debris Area:**	GE

Cover

Cover Total % :	70	**Method Cover Total %:**	GE						
Dp Pool :	15	**L.O.D.:**	20	**Boulder:**	10	**In Veg.:**	0	**Over Veg:**	50
Cutbank:	5								
Crown Closure % :	60	**Method Crown Closure:**	GE	**Aspect :**	SW	**Method Aspect:**	MW		

Discharge

				Specific Data
Wetted Width (m) :		**Method Wetted Width (m) :**		
Mean Depth (m) :		**Method Mean Depth (m) :**		
Mean Velocity (m/s) :		**Method Mean Velocity (m/s**	VO	
Discharge (m3/s) :	0.03	**Method Discharge (m3/s) :**		

Reach Symbol

(Fish)

CT

1 D 2.5	6220
(Width, Valley: Channel, Slope)	(Bed Material)

Bed Material

% Fines (<2mm):	60	**% Fines (<2mm):**	60
% Gravels:	25	**Small (2-16mm):**	15
		Large (16-64mm):	10
% Larges:	15	**Small cobble (64-128mm):**	15
		Large cobble (128-256mm):	0
		Boulder cobble (>256mm):	0
% Bedrock:	0	**% Bedrock:**	0
D90 (cm):	8	**Compaction:**	High

Banks

Height (m):	0.5	**% Unstable:**	5
Textures Fines:	Yes	**Gravel:** No **Larges:** No **Bedrock:**	No
Confinement:	5		
Valley: Chan. Ratio:	4		
Stage:	M		
Flood Signs Ht(m):	0.3	**Method Flood Signs:**	MS
Braided:	N	**Method Braided:**	GE
Bars (%):	5	**Method Bars:**	GE
pH:	7.0	**Method pH:**	PH
02 (ppm):		**Method Dissolved Oxygen:**	
Water Temp. (°C):	11.5	**Method Temperature:**	TC
Turb. (cm):	200	**Method Turbidity:**	GE
Cond. (µmhos):	50	**Method Conductivity:**	CM

DFO/MoELP Stream Survey Form

Stream Survey Report

11-Sep-98 **Stream:** FALSE TAGIT C. TRIBUTARY **Watershed Code:** 460-6006-407-FTa-4 -000-000-000-000-000-000-000

Stream/Valley Cross-Section

Fish Summary

Species	Number	Size Range (mm)	Life Phase	Use 1	Use 2	Use 3	Method/Reference
CT	11	53-82	J	R			EL

Obstructions

Obstruction Ht(m)	Type	Location
1	BD	0.2
	BD	0.2

Comments

C1 Electrofished 50 m length of stream for 550 s. with no lower net. CT were caught.

C2 Water is tannic in colour. Silt bed material affected the water clarity during shocking; 4 of the 11 CT were observed but not caught.

C3 R2 was surveyed and consists of braided and ponded sections with a series of beaver dams. The 1.2 m high drop over a BD at the R1-R2 reach break is temporarily a barrier to fish. Spot shocked ~100 m in R2 and no fish were observed/caught.

C4 2 Canada Geese were observed on the pond at base of R2.

C5 Set 10 traps overnight in large wetland; No fish were caught. Numerous invertebrates and water beetles were observed.

C6 R1 is classed as S4 habitat.

DFO/MoELP Stream Survey Form

11-Sep-98 **Stream:** FALSE TAGIT C. TRIBUTARY **Watershed Code:** 460-6006-407-FTa-4 -000-000-000-000-000-000-000

Stream Survey Report

Header Information

Stream Name:	FALSE TAGIT C. TRIBUTARY	**Stream "Local":**	FTa4			**Access:**	V2
Watershed Code:	460-6006-407-FTa-4 -000-000-000-000-000-000-000			**Reach No.:**	2	**Reach Length (km):** 1.9 **Method:**	MW
Location:	SAMPLED ALONG ROAD 100 m D/S FROM CULVERT; ~1.8 km U/S FROM MOUTH.	**Map #:**	093L025	**Site No.:**	10	**Length surveyed (m):** 100.0 **Method:**	HC
		U.T.M.:	9 .6202 .60094	**Fish Card:**	N	**Field:** Yes **Historical:**	No
Date: 04/06/97 **Time:** 14:00 **Agency:** C87 **Survey Crew:** RD \CP\ \ \ \ \ \ \				**Photos:**	A2/6, 7	**Air Photos:**	BCB 91179:111

Channel Characteristics

				Specific Data				
Av. Chan. Width (m):	1.3	**Method Av. Chan. Width (m):**	T	1.2	1.6	0.9	1.1	1.6
Av. Wet. Width (m):	1.3	**Method Av. Wet. Width (m):**	T	1.2	1.6	0.9	1.1	1.6
Av. Max. Rif. Depth (cm):	9	**Av. Max. Riffle Depth (cm):**	MS	7	8	11		
Av. Max. Pool Depth (cm):	16	**Av. Max. Pool Depth (cm):**	9	22	14	12		
Gradient (%):	2.5	**Method Gradient:**	CL					
% Pool: 10 **% Riffle:** 20		**% Run:** 70 **% Other:**	0	**Method:** GE				
% Side Channel:	0	**Method Side Channel:**	GE					
% Debris Area:	>40	**Method Debris Area:**	GE					

Cover

Cover Total % :	30	**Method Cover Total %:**	GE						
Dp Pool : 10 **L.O.D.:**	40	**Boulder:** 0 **In Veg.:**	0	**Over Veg:**	50	**Cutbank:**	0		
Crown Closure % :	30	**Method Crown Closure:**	GE	**Aspect :**	SW	**Method Aspect:**	MW		

Discharge

				Specific Data
Wetted Width (m) :		**Method Wetted Width (m) :**		
Mean Depth (m) :		**Method Mean Depth (m) :**		
Mean Velocity (m/s) :		**Method Mean Velocity (m/s**	VO	
Discharge (m3/s) :	0.01	**Method Discharge (m3/s) :**		

Reach Symbol

(Fish)

NF

1 D 2.5	F
(Width, Valley: Channel, Slope)	(Bed Material)

Bed Material

% Fines (<2mm):	100	**% Fines (<2mm):**	100
% Gravels:	0	**Small (2-16mm):**	0
		Large (16-64mm):	0
% Larges:	0	**Small cobble (64-128mm):**	0
		Large cobble (128-256mm):	0
		Boulder cobble (>256mm):	0
% Bedrock:	0	**% Bedrock:**	0
D90 (cm):		**Compaction:**	High

Banks

Height (m):	0.2	**% Unstable:**	0
Textures Fines:	Yes	**Gravel:** Yes **Larges:** No **Bedrock:**	No
Confinement:	5		
Valley: Chan. Ratio:	4		
Stage:	M		
Flood Signs Ht(m):	0.1	**Method Flood Signs:**	MS
Braided:	Y	**Method Braided:**	GE
Bars (%):	10	**Method Bars:**	GE
pH:	8.2	**Method pH:**	PH
02 (ppm):		**Method Dissolved Oxygen:**	
Water Temp. (°C):	11.0	**Method Temperature:**	TC
Turb. (cm):	200	**Method Turbidity:**	GE
Cond. (µmhos):	30	**Method Conductivity:**	CM

DFO/MoELP Stream Survey Form

Stream Survey Report

11-Sep-98 **Stream:** FALSE TAGIT C. TRIBUTARY **Watershed Code:** 460-6006-407-FTa-4 -000-000-000-000-000-000-000

Stream/Valley Cross-Section

Fish Summary

Obstructions

Obstruction Ht(m)	Type	Location
1	BD	0.2
	BD	0.2

Comments

C1 Electrofished 78 m length of stream for 600 s. No fish were caught/observed.

C2 Very small seepage channel with sand/silt bed material and abundant alder overstory. No fish potential. Channel was very stagnant and nearly dry on June 11/97.

C3 A small seepage with no defined channel was observed just over on the road which is assumed to be part of the same drainage.

C4 Surveyed the lower section of R2; see R1 site card. R2 is classed as S6 habitat.

DFO/MoELP Stream Survey Form

11-Sep-98 **Stream:** FALSE TAGIT C. TRIBUTARY **Watershed Code:** 460-6006-407-481-000-000-000-000-000-000-000-000

Stream Survey Report

Header Information

Stream Name: FALSE TAGIT C. TRIBUTARY **Stream "Local":** FTa5

Watershed Code: 460-6006-407-481-000-000-000-000-000-000-000-000

Location: SAMPLED AT BRIDGE CROSSING AT BLOCK 621 #1; ~400 m U/S FROM THE MOUTH. **Map #:** 093L025 **U.T.M.:** 9 .6204 .60104

Date: 11/06/97 **Time:** 16:00 **Agency:** C87 **Survey Crew:** RD\ \ \ \ \ \ \ \

Reach No.: 1 **Site No.:** 11 **Fish Card:** N **Photos:** A3/6, 7

Access: V2 **Reach Length (km):** 0.8 **Method:** MW **Length surveyed (m):** 100.0 **Method:** HC **Field:** Yes **Historical:** No **Air Photos:** BCB 91179:111

Channel Characteristics

				Specific Data				
Av. Chan. Width (m):	1.9	**Method Av. Chan. Width (m):**	T	2.2	2.0	1.6	1.8	1.8
Av. Wet. Width (m):	1.9	**Method Av. Wet. Width (m):**	T	2.2	2.0	1.6	1.8	1.8
Av. Max. Rif. Depth (cm):	28	**Av. Max. Riffle Depth (cm):**	MS	27	21	36		
Av. Max. Pool Depth (cm):	51	**Av. Max. Pool Depth (cm):**	28	55	47			
Gradient (%):	1.0	**Method Gradient:**	CL					

% Pool: 20 **% Riffle:** 10 **% Run:** 70 **% Other:** 0 **Method:** GE

% Side Channel: 0 **Method Side Channel:** GE

% Debris Area: 20 **Method Debris Area:** GE

Cover

Cover Total % : 60 **Method Cover Total %:** GE

Dp Pool : 20 **L.O.D.:** 20 **Boulder:** 10 **In Veg.:** 0 **Over Veg:** 30 **Cutbank:** 20

Crown Closure % : 30 **Method Crown Closure:** GE **Aspect :** SW **Method Aspect:** MW

Discharge

				Specific Data
Wetted Width (m) :		**Method Wetted Width (m) :**		
Mean Depth (m) :		**Method Mean Depth (m) :**		
Mean Velocity (m/s) :		**Method Mean Velocity (m/s**	VO	
Discharge (m3/s) :	0.25	**Method Discharge (m3/s) :**		

Reach Symbol

(Fish)

CT

2 D 1.0	4420
(Width, Valley: Channel, Slope)	(Bed Material)

Bed Material

% Fines (<2mm):	40	**% Fines (<2mm):**	40
% Gravels:	40	**Small (2-16mm):**	30
		Large (16-64mm):	10
% Larges:	20	**Small cobble (64-128mm):**	20
		Large cobble (128-256mm):	0
		Boulder cobble (>256mm):	0
% Bedrock:	0	**% Bedrock:**	0
D90 (cm):	7	**Compaction:**	High

Banks

Height (m):	0.8	**% Unstable:**	0
Textures Fines:	Yes	**Gravel:** No **Larges:** No **Bedrock:**	No
Confinement:	5		
Valley: Chan. Ratio:	4		
Stage:	M		
Flood Signs Ht(m):	0.3	**Method Flood Signs:**	MS
Braided:	N	**Method Braided:**	GE
Bars (%):	0	**Method Bars:**	GE
pH:	7.0	**Method pH:**	PH
02 (ppm):		**Method Dissolved Oxygen:**	
Water Temp. (°C):	14.0	**Method Temperature:**	TC
Turb. (cm):	200	**Method Turbidity:**	GE
Cond. (µmhos):	40	**Method Conductivity:**	CM

DFO/MoELP Stream Survey Form

Stream Survey Report

11-Sep-98 **Stream:** FALSE TAGIT C. TRIBUTARY **Watershed Code:** 460-6006-407-481-000-000-000-000-000-000-000-000

Stream/Valley Cross-Section

Fish Summary

Species	Number	Size Range (mm)	Life Phase	Use 1	Use 2	Use 3	Method/Reference
CT	1		J	R			VO

Obstructions

Comments

C1 There is no 1997 sample site in this reach. See RD/DA sample data from 1996 (Bustard, 1996): CT were caught. 1 CT juvenile was visually observed in a pool when this site card was filled out. R1 is classed as S3 habitat.

C2 Air Temp.: 22 C

C3 Low gradient meandering creek with very limited potential spawning habitat. Good rearing in the low velocity run habitat.

C4 Brush overstory is present.

DFO/MoELP Stream Survey Form

Stream Survey Report

11-Sep-98 | Stream: FALSE TAGIT C. TRIBUTARY | Watershed Code: 460-6006-407-481-000-000-000-000-000-000-000-000

Header Information

Stream Name:	FALSE TAGIT C. TRIBUTARY	Stream "Local":	FTa5			Access:	FT
Watershed Code:	460-6006-407-481-000-000-000-000-000-000-000-000			Reach No.:	2	Reach Length (km): 1.4	Method: MW
Location:	MAINSTEM FTa5; ~300 m U/S FROM FTa5.1 CONFLUENCE.	Map #:	093L025	Site No.:	12	Length surveyed (m): 200.0	Method: HC
		U.T.M. :	9 .6204 .60104	Fish Card:	N	Field: Yes	Historical: No
Date: 11/06/97	Time: 15:30	Agency: C87	Survey Crew: CP \JB \ \ \ \ \ \ \	Photos:	B1/5, 6	Air Photos:	BCB 91179:111

Channel Characteristics

				Specific Data					
Av. Chan. Width (m):	2.6	Method Av. Chan. Width (m):	T	2.1	3.2	2.4	3.0	0.9	4.1
Av. Wet. Width (m):	2.6	Method Av. Wet. Width (m):	T	2.1	3.2	2.4	3.0	0.9	4.1
Av. Max. Rif. Depth (cm):		Av. Max. Riffle Depth (cm):	MS						
Av. Max. Pool Depth (cm):	123	Av. Max. Pool Depth (cm):		120	100	150			
Gradient (%):	0.5	Method Gradient:	CL						

% Pool: 60 % Riffle: 5 % Run: 40 % Other: 0 Method: GE

% Side Channel:	10-40	Method Side Channel:	GE
% Debris Area:	0-10	Method Debris Area:	GE

Cover

Cover Total % :	80	Method Cover Total %:	GE						
Dp Pool :	40	L.O.D.: 0	Boulder: 0	In Veg.: 40	Over Veg: 0	Cutbank:	20		
Crown Closure % :	5	Method Crown Closure:	GE	Aspect :	SW	Method Aspect:	MW		

Discharge

				Specific Data
Wetted Width (m) :		Method Wetted Width (m) :		
Mean Depth (m) :		Method Mean Depth (m) :		
Mean Velocity (m/s) :		Method Mean Velocity (m/s	VO	
Discharge (m3/s) :	0.03	Method Discharge (m3/s) :		

Reach Symbol

(Fish)

CT

2 D 0.5 | 5500

(Width, Valley: Channel, Slope) | (Bed Material)

Bed Material

% Fines (<2mm):	50	% Fines (<2mm):	50
% Gravels:	50	Small (2-16mm):	40
		Large (16-64mm):	10
% Larges:	0	Small cobble (64-128mm):	0
		Large cobble (128-256mm):	0
		Boulder cobble (>256mm):	0
% Bedrock:	0	% Bedrock:	0
D90 (cm):	3	Compaction:	High

Banks

Height (m):	0.3	% Unstable:	0
Textures Fines:	Yes	Gravel: No Larges: No Bedrock:	No
Confinement:	5		
Valley: Chan. Ratio:	4		
Stage:	M		
Flood Signs Ht(m):		Method Flood Signs:	
Braided:	Y	Method Braided:	GE
Bars (%):	0	Method Bars:	GE
pH:	7.0	Method pH:	PH
02 (ppm):		Method Dissolved Oxygen:	
Water Temp. (°C):	14.0	Method Temperature:	TC
Turb. (cm):	200	Method Turbidity:	GE
Cond. (µmhos):	60	Method Conductivity:	CM

DFO/MoELP Stream Survey Form

11-Sep-98 **Stream:** FALSE TAGIT C. TRIBUTARY **Watershed Code:** 460-6006-407-481-000-000-000-000-000-000-000-000

Stream Survey Report

Stream/Valley Cross-Section

Fish Summary

Species	Number	Size Range (mm)	Life Phase	Use 1	Use 2	Use 3	Method/Reference
CT	3	63-74	J	R			MT

Obstructions

Obstruction Ht(m)	Type	Location
	BD	1.5
	BD	1.7
	BD	2.0

Comments

C1 Set 6 traps above the road overnight; no catch. set 4 traps below the road overnight; 3 CT were caught. A 2 m high impassable BD is present within this site; the CT were caught below the BD.

C2 Water is tannic in colour.

C3 Reach consists of a large swamp with a series of BD drops up to 0.6 m high with the largest BD drop 2 m high (see comment 1). Grasses/wiilows are abundant.

C4 R2 is classed as S3 habitat.

C5 CT were caught further u/s in trib. FTa5.4, R1, Site 19.

DFO/MoELP Stream Survey Form

11-Sep-98 | **Stream:** FALSE TAGIT C. TRIBUTARY | **Watershed Code:** 460-6006-407-481-000-000-000-000-000-000-000

Stream Survey Report

Header Information

Stream Name:	FALSE TAGIT C. TRIBUTARY	**Stream "Local":**	FTa5			**Access:**	H
Watershed Code:	460-6006-407-481-000-000-000-000-000-000-000			**Reach No.:**	3	**Reach Length (km):** 2.5	**Method:** MW
Location:	~100 m U/S FROM FTa5.4 CONFLUENCE.	**Map #:**	093L025	**Site No.:**	13	**Length surveyed (m):** 150.0	**Method:** HC
		U.T.M.:	9 .6204 .60104	**Fish Card:**	N	**Field:** Yes	**Historical:** No
Date: 08/07/97	**Time:** 14:00	**Agency:** C87	**Survey Crew:** CP \DB \ \ \ \ \ \	**Photos:**	B2/23, 24	**Air Photos:**	BCB 91179:112

Channel Characteristics

				Specific Data				
Av. Chan. Width (m):	0.8	**Method Av. Chan. Width (m):**	T	0.5	0.4	0.8	1.2	1.3
Av. Wet. Width (m):	0.8	**Method Av. Wet. Width (m):**	T	0.5	0.4	0.8	1.2	1.3
Av. Max. Rif. Depth (cm):		**Av. Max. Riffle Depth (cm):**	MS					
Av. Max. Pool Depth (cm):	53	**Av. Max. Pool Depth (cm):**		47	54	58		
Gradient (%):	1.5	**Method Gradient:**	CL					
% Pool: 90	**% Riffle:** 0	**% Run:** 10	**% Other:** 0	**Method:** GE				
% Side Channel:	0	**Method Side Channel:**	GE					
% Debris Area:	10-40	**Method Debris Area:**	GE					

Cover

Cover Total % :	80	**Method Cover Total %:**	GE						
Dp Pool : 20	**L.O.D.:** 20	**Boulder:** 0	**In Veg.:** 25	**Over Veg:**	20	**Cutbank:**	15		
Crown Closure % :	5	**Method Crown Closure:**	GE	**Aspect :**	SW	**Method Aspect:**	MW		

Discharge

				Specific Data
Wetted Width (m) :		**Method Wetted Width (m) :**		
Mean Depth (m) :		**Method Mean Depth (m) :**		
Mean Velocity (m/s) :		**Method Mean Velocity (m/s**	VO	
Discharge (m3/s) :	0.01	**Method Discharge (m3/s) :**		

Reach Symbol

(Fish)

NF

1 D 1.5 | F

(Width, Valley: Channel, Slope) | (Bed Material)

Bed Material

% Fines (<2mm):	100	**% Fines (<2mm):**	100
% Gravels:	0	**Small (2-16mm):**	0
		Large (16-64mm):	0
% Larges:	0	**Small cobble (64-128mm):**	0
		Large cobble (128-256mm):	0
		Boulder cobble (>256mm):	0
% Bedrock:	0	**% Bedrock:**	0
D90 (cm):		**Compaction:**	High

Banks

Height (m):	0.3	**% Unstable:**	0
Textures Fines:	Yes	**Gravel:** No **Larges:** No **Bedrock:**	No
Confinement:	5		
Valley: Chan. Ratio:	4		
Stage:	M		
Flood Signs Ht(m):	0.2	**Method Flood Signs:**	MS
Braided:	N	**Method Braided:**	GE
Bars (%):	0	**Method Bars:**	GE
pH:		**Method pH:**	
02 (ppm):		**Method Dissolved Oxygen:**	
Water Temp. (°C):	11.5	**Method Temperature:**	TC
Turb. (cm):	200	**Method Turbidity:**	GE
Cond. (µmhos):	70	**Method Conductivity:**	CM

DFO/MoELP Stream Survey Form

11-Sep-98 **Stream:** FALSE TAGIT C. TRIBUTARY **Watershed Code:** 460-6006-407-481-000-000-000-000-000-000-000-000

Stream Survey Report

Stream/Valley Cross-Section

Fish Summary

Obstructions

Obstruction Ht(m)	Type	Location
	BD	4.4
	BD	4.5
2	BD	4.6

Comments

C1 Electrofished 85 m length of stream for 550 s. with no lower net. U/S of 85 m the channel disappears into the weeds and flow is subsurface. No fish were caught/observed.

C2 Observed a Western Spotted Frog.

C3 Mapped as suspected fish use for 800 m above the FTa5.4 confluence in R3 (class S4) and as S6 habitat u/s from this point.

DFO/MoELP Stream Survey Form

Stream Survey Report

11-Sep-98 **Stream:** FALSE TAGIT C. TRIBUTARY **Watershed Code:** 460-6006-407-481-000-000-000-000-000-000-000-000

Header Information

Stream Name:	FALSE TAGIT C. TRIBUTARY	**Stream "Local":**	FTa5			**Access:**	H
Watershed Code:	460-6006-407-481-000-000-000-000-000-000-000-000			**Reach No.:**	5	**Reach Length (km):** 1.0	**Method:** MW
Location:	100 m U/S ON LAKE INLET CHANNEL.	**Map #:**	093L025	**Site No.:**	14	**Length surveyed (m):** 100.0	**Method:** HC
		U.T.M. :	9 .6204 .60104	**Fish Card:**	N	**Field:** Yes	**Historical:** No
Date: 06/07/97	**Time:** 16:30	**Agency:** C87	**Survey Crew:** RD\IF\ \ \ \ \ \ \	**Photos:**	A10/9, 10	**Air Photos:**	BCB 91179:208

Channel Characteristics

Av. Chan. Width (m):	0.5	**Method Av. Chan. Width (m):**	T	*Specific Data*	0.4	0.3	0.5	0.6	0.8
Av. Wet. Width (m):	0.2	**Method Av. Wet. Width (m):**	T		0.1	0.1	0.3		
Av. Max. Rif. Depth (cm):		**Av. Max. Riffle Depth (cm):**							
Av. Max. Pool Depth (cm):		**Av. Max. Pool Depth (cm):**							
Gradient (%):	1.0	**Method Gradient:**	CL						
% Pool: 10	**% Riffle:** 10	**% Run:** 80	**% Other:** 0	**Method:** GE					
% Side Channel:	0	**Method Side Channel:**	GE						
% Debris Area:	0-10	**Method Debris Area:**	GE						

Cover

Cover Total % :	60	**Method Cover Total %:**	GE						
Dp Pool : 10	**L.O.D.:** 5	**Boulder:** 0	**In Veg.:** 70	**Over Veg:** 15	**Cutbank:** 0				
Crown Closure % :	15	**Method Crown Closure:**	GE	**Aspect :** S	**Method Aspect:**	MW			

Discharge

Wetted Width (m) :		**Method Wetted Width (m) :**		*Specific Data*					
Mean Depth (m) :		**Method Mean Depth (m) :**							
Mean Velocity (m/s) :		**Method Mean Velocity (m/s**	VO						
Discharge (m3/s) :	0.01	**Method Discharge (m3/s) :**							

Reach Symbol

(Fish)

NF

1 C 1.0	9100
(Width, Valley: Channel, Slope)	(Bed Material)

Bed Material

% Fines (<2mm):	95	**% Fines (<2mm):**	95
% Gravels:	5	**Small (2-16mm):**	5
		Large (16-64mm):	0
% Larges:	0	**Small cobble (64-128mm):**	0
		Large cobble (128-256mm):	0
		Boulder cobble (>256mm):	0
% Bedrock:	0	**% Bedrock:**	0
D90 (cm):		**Compaction:**	High

Banks

Height (m):	0.3	**% Unstable:**	0				
Textures Fines:	Yes	**Gravel:** No	**Larges:** No	**Bedrock:** No			
Confinement:	4						
Valley: Chan. Ratio:	3						
Stage:	L						
Flood Signs Ht(m):	0.1	**Method Flood Signs:**	MS				
Braided:	N	**Method Braided:**	GE				
Bars (%):	5	**Method Bars:**	GE				
pH:	7.8	**Method pH:**	PH				
02 (ppm):		**Method Dissolved Oxygen:**					
Water Temp. (°C):	12.0	**Method Temperature:**	TC				
Turb. (cm):	200	**Method Turbidity:**	GE				
Cond. (µmhos):		**Method Conductivity:**					

DFO/MoELP Stream Survey Form

11-Sep-98 **Stream:** FALSE TAGIT C. TRIBUTARY **Watershed Code:** 460-6006-407-481-000-000-000-000-000-000-000-000

Stream Survey Report

Stream/Valley Cross-Section

Fish Summary

Obstructions

Obstruction Ht(m)	Type	Location
2	BD	4.6

Comments

C1	Electrofished 50 m length of stream within the inlet seepage; no fish were caught.
C2	Inlet seepage: very small with sand/silt bed material. No potential spawning. A shallow wetland is located 50 m u/s which is poor fish habitat. Instream grass is abundant throughout most of the channel.
C3	Outlet seepage: consists of a series of small ponds; very difficult to see a continuous channel joining them. Several large BD's at the lake outlet appear to be impassable by fish. No potential spawning habitat present at the lake outlet.
C4	R5 is classed as S6 habitat.

DFO/MoELP Stream Survey Form

11-Sep-98 Stream: FALSE TAGIT C. TRIBUTARY Watershed Code: 460-6006-407-481-221-000-000-000-000-000-000-000

Stream Survey Report

Header Information

Stream Name:	FALSE TAGIT C. TRIBUTARY	**Stream "Local":**	FTa5.1			**Access:**	FT
Watershed Code:	460-6006-407-481-221-000-000-000-000-000-000-000			**Reach No.:**	1	**Reach Length (km):** 0.6	**Method:** MW
Location:	LOCATED ~100 m U/S FROM MOUTH.	**Map #:**	093L025	**Site No.:**	15	**Length surveyed (m):** 100.0	**Method:** HC
		U.T.M. :	9 .6211 .60112	**Fish Card:**	N	**Field:** Yes	**Historical:** No
Date: 11/06/97	**Time:** 14:45	**Agency:** C87	**Survey Crew:** CP\JB \ \ \ \ \ \	**Photos:**	B1/3, 4	**Air Photos:**	BCB 91179:111

Channel Characteristics

				Specific Data					
Av. Chan. Width (m):	1.2	**Method Av. Chan. Width (m):**	T	1.4	1.1	1.0	1.5	1.1	0.9
Av. Wet. Width (m):	1.2	**Method Av. Wet. Width (m):**	T	1.4	1.1	1.0	1.5	1.1	0.9
Av. Max. Rif. Depth (cm):	11	**Av. Max. Riffle Depth (cm):**	MS	11	9	12			
Av. Max. Pool Depth (cm):	14	**Av. Max. Pool Depth (cm):**	11	10	15	16			
Gradient (%):	5.0	**Method Gradient:**	CL						

% Pool: 10 **% Riffle:** 70 **% Run:** 20 **% Other:** 0 **Method:** GE

% Side Channel:	0	**Method Side Channel:**	GE
% Debris Area:	0-10	**Method Debris Area:**	GE

Cover

Cover Total % :	80	**Method Cover Total %:**	GE						
Dp Pool :	0	**L.O.D.:**	5	**Boulder:**	55	**In Veg.:**	0	**Over Veg:**	30
Cutbank:	10								
Crown Closure % :	40	**Method Crown Closure:**	GE	**Aspect :**	S	**Method Aspect:**	MW		

Discharge

				Specific Data
Wetted Width (m) :		**Method Wetted Width (m) :**		
Mean Depth (m) :		**Method Mean Depth (m) :**		
Mean Velocity (m/s) :		**Method Mean Velocity (m/s**	VO	
Discharge (m3/s) :	0.17	**Method Discharge (m3/s) :**		

Reach Symbol

(Fish)

CT

(Width, Valley: Channel, Slope)	(Bed Material)
1 B 5.0	1450

Bed Material

% Fines (<2mm):	5	**% Fines (<2mm):**	5
% Gravels:	40	**Small (2-16mm):**	10
		Large (16-64mm):	30
% Larges:	55	**Small cobble (64-128mm):**	40
		Large cobble (128-256mm):	15
		Boulder cobble (>256mm):	0
% Bedrock:	0	**% Bedrock:**	0
D90 (cm):	15	**Compaction:**	High

Banks

Height (m):	0.7	**% Unstable:**	5
Textures Fines:	Yes	**Gravel:** No **Larges:** No **Bedrock:**	No
Confinement:	4		
Valley: Chan. Ratio:	2		
Stage:	M		
Flood Signs Ht(m):	0.6	**Method Flood Signs:**	MS
Braided:	N	**Method Braided:**	GE
Bars (%):	0	**Method Bars:**	GE
pH:	7.0	**Method pH:**	PH
02 (ppm):		**Method Dissolved Oxygen:**	
Water Temp. (°C):	11.0	**Method Temperature:**	TC
Turb. (cm):	200	**Method Turbidity:**	GE
Cond. (µmhos):	60	**Method Conductivity:**	CM

DFO/MoELP Stream Survey Form

11-Sep-98 **Stream:** FALSE TAGIT C. TRIBUTARY **Watershed Code:** 460-6006-407-481-221-000-000-000-000-000-000-000

Stream Survey Report

Stream/Valley Cross-Section

Fish Summary

Species	Number	Size Range (mm)	Life Phase	Use 1	Use 2	Use 3	Method/Reference
CT	6	50-57	J	R			EL

Obstructions

Obstruction Ht(m)	Type	Location
	BD	0.2

Comments

C1 Electrofished 75 m length of stream for 1541 s. with no lower net. CT were caught.

C2 Water is tannic in colour.

C3 Nice creek with sections of potential spawning gravels. The cobble/boulder sections are good for juvenile rearing. Primarily riffle/cobble habitat in this section of creek.

C4 R1 is classed as S4 habitat.

DFO/MoELP Stream Survey Form

11-Sep-98 **Stream:** FALSE TAGIT C. TRIBUTARY **Watershed Code:** 460-6006-407-481-221-000-000-000-000-000-000-000

Stream Survey Report

Header Information

Stream Name:	FALSE TAGIT C. TRIBUTARY	**Stream "Local":**	FTa5.1			**Access:**	H
Watershed Code:	460-6006-407-481-221-000-000-000-000-000-000-000			**Reach No.:**	2	**Reach Length (km):** 1.2	**Method:** MW
Location:	~1.2 km U/S FROM MOUTH; SECTION ADJACENT TO WILLOW MEADOW.	**Map #:**	093L025	**Site No.:**	16	**Length surveyed (m):** 34.0	**Method:** HC
		U.T.M. :	9 .6211 .60112	**Fish Card:**	N	**Field:** Yes	**Historical:** No
Date: 08/07/97	**Time:** 12:30	**Agency:** C87	**Survey Crew:** CP\DB\ \ \ \ \ \ \	**Photos:**	B2/21, 22	**Air Photos:**	BCB 91179:210

Channel Characteristics

				Specific Data					
Av. Chan. Width (m):	1.4	**Method Av. Chan. Width (m):**	T	1.1	0.9	2.0	1.4	1.8	1.4
Av. Wet. Width (m):	1.1	**Method Av. Wet. Width (m):**	T	0.9	0.8	1.4	1.2	1.4	0.8
Av. Max. Rif. Depth (cm):	6	**Av. Max. Riffle Depth (cm):**	MS	8	5	5			
Av. Max. Pool Depth (cm):	16	**Av. Max. Pool Depth (cm):**	6	20	12	15			
Gradient (%):	3.0	**Method Gradient:**	CL						
% Pool: 80	**% Riffle:** 10	**% Run:** 10	**% Other:** 0	**Method:** GE					
% Side Channel:	0	**Method Side Channel:**	GE						
% Debris Area:	>40	**Method Debris Area:**	GE						

Cover

Cover Total % :	100	**Method Cover Total %:**	GE						
Dp Pool : 0	**L.O.D.:** 20	**Boulder:** 0	**In Veg.:** 0	**Over Veg:** 60	**Cutbank:** 20				
Crown Closure % :	50	**Method Crown Closure:**	GE	**Aspect :** SE	**Method Aspect:**	MW			

Discharge

				Specific Data
Wetted Width (m) :		**Method Wetted Width (m) :**		
Mean Depth (m) :		**Method Mean Depth (m) :**		
Mean Velocity (m/s) :		**Method Mean Velocity (m/s**	VO	
Discharge (m3/s) :	0.01	**Method Discharge (m3/s) :**		

Reach Symbol

(Fish)

CT

I D 3.0	5410
(Width, Valley: Channel, Slope)	(Bed Material)

Bed Material

% Fines (<2mm):	50	**% Fines (<2mm):**	50
% Gravels:	40	**Small (2-16mm):**	30
		Large (16-64mm):	10
% Larges:	10	**Small cobble (64-128mm):**	10
		Large cobble (128-256mm):	0
		Boulder cobble (>256mm):	0
% Bedrock:	0	**% Bedrock:**	0
D90 (cm):	10	**Compaction:**	High

Banks

Height (m):	0.4	**% Unstable:**	0
Textures Fines:	Yes	**Gravel:** No **Larges:** No **Bedrock:**	No
Confinement:	5		
Valley: Chan. Ratio:	4		
Stage:	L		
Flood Signs Ht(m):		**Method Flood Signs:**	
Braided:	N	**Method Braided:**	GE
Bars (%):	10	**Method Bars:**	GE
pH:		**Method pH:**	
02 (ppm):		**Method Dissolved Oxygen:**	
Water Temp. (°C):	8.0	**Method Temperature:**	TC
Turb. (cm):	200	**Method Turbidity:**	GE
Cond. (µmhos):	70	**Method Conductivity:**	CM

DFO/MoELP Stream Survey Form

11-Sep-98 **Stream:** FALSE TAGIT C. TRIBUTARY **Watershed Code:** 460-6006-407-481-221-000-000-000-000-000-000-000

Stream Survey Report

Stream/Valley Cross-Section

Fish Summary

Species	Number	Size Range (mm)	Life Phase	Use 1	Use 2	Use 3	Method/Reference
CT	6	46-168	J	R			EL

Obstructions

Comments

C1 Electrofished 34 m length of stream for 320 s. The CT that were captured are suspected to be stream residents based on their heavy spotting, the fact that mature-size fish are present in July, and the small size of the creek.

C2 The BD d/s in R1 restricts easy movement by fish.

C3 Assume CT are present to the top of R2. R3 is intermittent and stagnant with sections with no defined channel. Bed material is 100% sand/silt. Suspect creek dewaters in the summer and there is no fish use potential.

C4 R2 is classed as S4 habitat.

DFO/MoELP Stream Survey Form

11-Sep-98 Stream: FALSE TAGIT C. TRIBUTARY Watershed Code: 460-6006-407-481-295-000-000-000-000-000-000-000

Stream Survey Report

Header Information

Stream Name:	FALSE TAGIT C. TRIBUTARY	Stream "Local":	FTa5.2			Access:	FT
Watershed Code:	460-6006-407-481-295-000-000-000-000-000-000-000			Reach No.:	1	Reach Length (km): 0.6	Method: MW
Location:	LOCATED ~100 m U/S FROM THE MOUTH.	Map #:	093L025	Site No.:	17	Length surveyed (m): 200.0	Method: HC
		U.T.M. :	9 .6215 .60113	Fish Card:	N	Field: Yes	Historical: No
Date: 11/06/97	Time: 16:30 Agency: C87	Survey Crew:	CPJB \ \ \ \ \ \	Photos:	B1/7, 8	Air Photos:	BCB 91179:112

Channel Characteristics

				Specific Data					
Av. Chan. Width (m):	0.8	Method Av. Chan. Width (m):	T	0.7	0.9	0.9	0.7	1.0	0.6
Av. Wet. Width (m):	0.4	Method Av. Wet. Width (m):	T	0.5	0.3	0.3	0.3	0.8	0.5
Av. Max. Rif. Depth (cm):	4	Av. Max. Riffle Depth (cm):	MS	3	4	4			
Av. Max. Pool Depth (cm):	16	Av. Max. Pool Depth (cm):	4	9	17	23			
Gradient (%):	2.5	Method Gradient:	CL						
% Pool: 30	% Riffle: 10	% Run: 60	% Other: 0	Method: GE					
% Side Channel:	0	Method Side Channel:	GE						
% Debris Area:	0-10	Method Debris Area:	GE						

Cover

Cover Total % :	40	Method Cover Total %:	GE				
Dp Pool : 0	L.O.D.: 10	Boulder: 20	In Veg.: 0	Over Veg:	70	Cutbank:	0
Crown Closure % :	85	Method Crown Closure:	GE	Aspect :	N	Method Aspect:	MW

Discharge

				Specific Data
Wetted Width (m) :		Method Wetted Width (m) :		
Mean Depth (m) :		Method Mean Depth (m) :		
Mean Velocity (m/s) :		Method Mean Velocity (m/s	VO	
Discharge (m3/s) :	0.01	Method Discharge (m3/s) :		

Reach Symbol

(Fish)

NF

1 D 2.5	2530
(Width, Valley: Channel, Slope)	(Bed Material)

Bed Material

% Fines (<2mm):	20	% Fines (<2mm):	20
% Gravels:	55	Small (2-16mm):	30
		Large (16-64mm):	25
% Larges:	25	Small cobble (64-128mm):	15
		Large cobble (128-256mm):	10
		Boulder cobble (>256mm):	0
% Bedrock:	0	% Bedrock:	0
D90 (cm):	15	Compaction:	Medium

Banks

Height (m):	0.5	% Unstable:	0
Textures Fines:	Yes	Gravel: No Larges: No Bedrock:	No
Confinement:	5		
Valley: Chan. Ratio:	4		
Stage:	M		
Flood Signs Ht(m):	0.25	Method Flood Signs:	MS
Braided:	N	Method Braided:	GE
Bars (%):	10	Method Bars:	GE
pH:	7.0	Method pH:	PH
02 (ppm):		Method Dissolved Oxygen:	
Water Temp. (°C):	14.0	Method Temperature:	TC
Turb. (cm):	200	Method Turbidity:	GE
Cond. (µmhos):	60	Method Conductivity:	CM

DFO/MoELP Stream Survey Form

Stream Survey Report

11-Sep-98 **Stream:** FALSE TAGIT C. TRIBUTARY **Watershed Code:** 460-6006-407-481-295-000-000-000-000-000-000-000

Stream/Valley Cross-Section

Fish Summary

Obstructions

Comments

C1	Electrofished 100 m length of stream with no lower net. No fish were caught/observed. Also set 9 traps in lake near the outlet; no catch.
C2	Small creek with trickle flow discharge and very limited potential spawning. Suspect dewaters during low flow periods.
C3	Surveyed lake outlet; outlet creek has no visible flow with mud bed material, tannic-coloured water, and an average channel width of 30 cm. Suspect lake is barren (photo A3/4, 5).
C4	Observed 2 loons on the lake.

DFO/MoELP Stream Survey Form

11-Sep-98 Stream: FALSE TAGIT C. TRIBUTARY Watershed Code: 460-6006-407-481-FTa-5.3-000-000-000-000-000-000

Stream Survey Report

Header Information

Stream Name:	FALSE TAGIT C. TRIBUTARY	Stream "Local":	FTa5.3			Access:		FT
Watershed Code:	460-6006-407-481-FTa-5.3-000-000-000-000-000-000			Reach No.:	1	Reach Length (km):	1.6 Method:	MW
Location:	LOCATED ~70 m U/S FROM MOUTH.	Map #:	093L025	Site No.:	18	Length surveyed (m):	150.0 Method:	HC
		U.T.M.:	9 .6216 .60114	Fish Card:	N	Field: Yes	Historical:	No
Date: 11/06/97	Time: 17:00	Agency: C87	Survey Crew: CPUB \RD\ \ \ \ \ \	Photos:	B1/9, 10	Air Photos:	BCB 91179:112	

Channel Characteristics

				Specific Data					
Av. Chan. Width (m):	1.0	Method Av. Chan. Width (m):	T	0.9	1.1	1.8	0.9	0.7	0.6
Av. Wet. Width (m):	1.0	Method Av. Wet. Width (m):	T	0.9	1.1	1.8	0.9	0.7	0.6
Av. Max. Rif. Depth (cm):	5	Av. Max. Riffle Depth (cm):	MS	6	5	5			
Av. Max. Pool Depth (cm):	20	Av. Max. Pool Depth (cm):	5	23	12	24			
Gradient (%):	3.0	Method Gradient:	CL						
% Pool: 20	% Riffle: 40	% Run: 40	% Other: 0	Method: GE					
% Side Channel:	0	Method Side Channel:	GE						
% Debris Area:	>40	Method Debris Area:	GE						

Cover

Cover Total % :	60	Method Cover Total %:	GE				
Dp Pool : 5	L.O.D.: 30	Boulder: 15	In Veg.: 0	Over Veg: 20	Cutbank:		30
Crown Closure % :	50	Method Crown Closure:	GE	Aspect : S	Method Aspect:		MW

Discharge

				Specific Data
Wetted Width (m) :		Method Wetted Width (m) :		
Mean Depth (m) :		Method Mean Depth (m) :		
Mean Velocity (m/s) :		Method Mean Velocity (m/s	VO	
Discharge (m3/s) :	0.03	Method Discharge (m3/s) :		

Reach Symbol

(Fish)

NF

1 C 3.0 | 4420

(Width, Valley: Channel, Slope) | (Bed Material)

Bed Material

% Fines (<2mm):	40	% Fines (<2mm):	40
% Gravels:	40	Small (2-16mm):	
		Large (16-64mm):	
% Larges:	20	Small cobble (64-128mm):	
		Large cobble (128-256mm):	
		Boulder cobble (>256mm):	
% Bedrock:	0	% Bedrock:	0
D90 (cm):	8	Compaction:	High

Banks

Height (m):	0.6	% Unstable:	0
Textures Fines:	Yes	Gravel: No Larges: No Bedrock:	No
Confinement:	4		
Valley: Chan. Ratio:	3		
Stage:	M		
Flood Signs Ht(m):	0.2	Method Flood Signs:	MS
Braided:	N	Method Braided:	GE
Bars (%):	0	Method Bars:	GE
pH:	7.0	Method pH:	PH
02 (ppm):		Method Dissolved Oxygen:	
Water Temp. (°C):	7.0	Method Temperature:	TC
Turb. (cm):	200	Method Turbidity:	GE
Cond. (µmhos):	50	Method Conductivity:	CM

DFO/MoELP Stream Survey Form

Stream Survey Report

11-Sep-98 **Stream:** FALSE TAGIT C. TRIBUTARY **Watershed Code:** 460-6006-407-481-FTa-5.3-000-000-000-000-000-000

Stream/Valley Cross-Section

Fish Summary

Obstructions

Comments

C1	Electrofished 80 m length of stream with no lower net; no fish were caught/observed.
C2	3 BD drops are located on FTa5.0 between FTa5.2 and FTa5.3 confluences; they may cause fish access problems.
C3	Small, stable creek (moss-covered instream boulders) with gradient increasing going u/s. Defined channel becomes intermittent u/s. Accessible in the lower 30 m of stream if fish can get through beaver dams on main channel (FTa5.0). Classed as S6 habitat.

DFO/MoELP Stream Survey Form

11-Sep-98 | **Stream:** FALSE TAGIT C. TRIBUTARY | **Watershed Code:** 460-6006-407-481-FTa-5.4-000-000-000-000-000-000

Stream Survey Report

Header Information

Stream Name:	FALSE TAGIT C. TRIBUTARY	**Stream "Local":**	FTa5.4			**Access:**	H
Watershed Code:	460-6006-407-481-FTa-5.4-000-000-000-000-000-000			**Reach No.:**	1	**Reach Length (km):** 2.0 **Method:**	MW
Location:	LOCATED 100 m U/S FROM THE MOUTH.	**Map #:**	093L025	**Site No.:**	19	**Length surveyed (m):** 200.0 **Method:**	GE
		U.T.M. :	9 .6222 .60118	**Fish Card:**	N	**Field:** Yes **Historical:**	No
Date: 08/07/97	**Time:** 15:00	**Agency:** C87	**Survey Crew:** DB \CP\ \ \ \ \ \ \	**Photos:**	B2/25; B3/1	**Air Photos:**	BCB 91179:209

Channel Characteristics

				Specific Data					
Av. Chan. Width (m):	0.8	**Method Av. Chan. Width (m):**	T	0.3	0.6	0.4	0.4	1.2	1.8
Av. Wet. Width (m):	0.8	**Method Av. Wet. Width (m):**	T	0.3	0.6	0.4	0.4	1.2	1.8
Av. Max. Rif. Depth (cm):		**Av. Max. Riffle Depth (cm):**	MS						
Av. Max. Pool Depth (cm):	27	**Av. Max. Pool Depth (cm):**		21	24	35			
Gradient (%):	1.5	**Method Gradient:**	CL						

% Pool: 60 **% Riffle:** 5 **% Run:** 35 **% Other:** 0 **Method:** GE

% Side Channel:	0	**Method Side Channel:**	GE
% Debris Area:	10-40	**Method Debris Area:**	GE

Cover

Cover Total % :	90	**Method Cover Total %:**	GE				
Dp Pool : 5 **L.O.D.:**	10	**Boulder:** 0 **In Veg.:**	0	**Over Veg:**	45	**Cutbank:**	40
Crown Closure % :	40	**Method Crown Closure:**	GE	**Aspect :**	S	**Method Aspect:**	MW

Discharge

				Specific Data
Wetted Width (m) :		**Method Wetted Width (m) :**		
Mean Depth (m) :		**Method Mean Depth (m) :**		
Mean Velocity (m/s) :		**Method Mean Velocity (m/s**	VO	
Discharge (m3/s) :	0.01	**Method Discharge (m3/s) :**		

Reach Symbol

(Fish)

CT

1 D 1.5	F
(Width, Valley: Channel, Slope)	(Bed Material)

Bed Material

% Fines (<2mm):	100	**% Fines (<2mm):**	100
% Gravels:	0	**Small (2-16mm):**	0
		Large (16-64mm):	0
% Larges:	0	**Small cobble (64-128mm):**	0
		Large cobble (128-256mm):	0
		Boulder cobble (>256mm):	0
% Bedrock:	0	**% Bedrock:**	0
D90 (cm):		**Compaction:**	High

Banks

Height (m):	0.8	**% Unstable:**					0
Textures Fines:	Yes	**Gravel:**	No	**Larges:**	No	**Bedrock:**	No
Confinement:	5						
Valley: Chan. Ratio:	4						
Stage:	L						
Flood Signs Ht(m):	0.5	**Method Flood Signs:**					MS
Braided:	N	**Method Braided:**					GE
Bars (%):	0	**Method Bars:**					GE
pH:		**Method pH:**					
02 (ppm):		**Method Dissolved Oxygen:**					
Water Temp. (°C):	10.0	**Method Temperature:**					TC
Turb. (cm):	200	**Method Turbidity:**					GE
Cond. (µmhos):	40	**Method Conductivity:**					CM

Stream/Valley Cross-Section

Fish Summary

Species	Number	Size Range (mm)	Life Phase	Use 1	Use 2	Use 3	Method/Reference
CT	1	69	J	R			EL

Obstructions

Comments

C1 Electrofished 45 m length of stream with no lower net. 1 CT was caught.

C2 Majority of the channel is incised. Bed material consists of fines and is mixed with an abundant amount of small woody debris.

C3 R1 is classed as S4 habitat.

DFO/MoELP Stream Survey Form

11-Sep-98 Stream: FALSE TAGIT C. TRIBUTARY Watershed Code: 460-6006-407-481-FTa-5.4-000-000-000-000-000-000

Stream Survey Report

Header Information

Stream Name:	FALSE TAGIT C. TRIBUTARY	**Stream "Local":**	FTa5.4			**Access:**	H
Watershed Code:	460-6006-407-481-FTa-5.4-000-000-000-000-000-000			**Reach No.:**	1	**Reach Length (km):** 2.0	**Method:** MW
Location:	LOCATED AT THE SOUTHERN BOUNDARY OF PROPOSED BLOCK; ~750 m U/S FROM MOUTH.	**Map #:**	093L025	**Site No.:**	20	**Length surveyed (m):** 100.0	**Method:** HC
		U.T.M. :	9 .6222 .60118	**Fish Card:**	N	**Field:** Yes	**Historical:** No
Date: 08/07/97	**Time:** 17:00	**Agency:** C87	**Survey Crew:** DB \CP \ \ \ \ \ \	**Photos:**	B3/4, 5	**Air Photos:**	BCB 91179:209

Channel Characteristics

					Specific Data					
Av. Chan. Width (m):	1.0	**Method Av. Chan. Width (m):**	T		0.8	0.7	1.0	0.8	1.4	1.5
Av. Wet. Width (m):	1.0	**Method Av. Wet. Width (m):**	T		0.8	0.7	1.0	0.8	1.4	1.5
Av. Max. Rif. Depth (cm):		**Av. Max. Riffle Depth (cm):**	MS							
Av. Max. Pool Depth (cm):	22	**Av. Max. Pool Depth (cm):**			27	15	23			
Gradient (%):	1.5	**Method Gradient:**	CL							
% Pool: 80	**% Riffle:** 0	**% Run:** 20	**% Other:** 0	**Method:** GE						
% Side Channel:	0	**Method Side Channel:**	GE							
% Debris Area:	>40	**Method Debris Area:**	GE							

Cover

Cover Total % :	100	**Method Cover Total %:**	GE						
Dp Pool : 0	**L.O.D.:** 25	**Boulder:** 0	**In Veg.:** 0	**Over Veg:** 70	**Cutbank:** 5				
Crown Closure % :	100	**Method Crown Closure:**	GE	**Aspect :** S	**Method Aspect:**	MW			

Discharge

				Specific Data
Wetted Width (m) :		**Method Wetted Width (m) :**		
Mean Depth (m) :		**Method Mean Depth (m) :**		
Mean Velocity (m/s) :		**Method Mean Velocity (m/s**	VO	
Discharge (m3/s) :	0.01	**Method Discharge (m3/s) :**		

Reach Symbol

(Fish)

CT

1 D 1.5	8200
(Width, Valley: Channel, Slope)	(Bed Material)

Bed Material

% Fines (<2mm):	85	**% Fines (<2mm):**	85
% Gravels:	15	**Small (2-16mm):**	5
		Large (16-64mm):	10
% Larges:	0	**Small cobble (64-128mm):**	0
		Large cobble (128-256mm):	0
		Boulder cobble (>256mm):	0
% Bedrock:	0	**% Bedrock:**	0
D90 (cm):	2	**Compaction:**	High

Banks

Height (m):	0.7	**% Unstable:**					0
Textures Fines:	Yes	**Gravel:** No	**Larges:** No	**Bedrock:** No			
Confinement:	5						
Valley: Chan. Ratio:	4						
Stage:	L						
Flood Signs Ht(m):	0.2	**Method Flood Signs:**					MS
Braided:	N	**Method Braided:**					GE
Bars (%):	0	**Method Bars:**					GE
pH:		**Method pH:**					
02 (ppm):		**Method Dissolved Oxygen:**					
Water Temp. (°C):	10.0	**Method Temperature:**					TC
Turb. (cm):	200	**Method Turbidity:**					GE
Cond. (µmhos):	60	**Method Conductivity:**					CM

DFO/MoELP Stream Survey Form

Stream Survey Report

11-Sep-98 **Stream:** FALSE TAGIT C. TRIBUTARY **Watershed Code:** 460-6006-407-481-FTa-5.4-000-000-000-000-000-000

Stream/Valley Cross-Section

Fish Summary

Species	Number	Size Range (mm)	Life Phase	Use 1	Use 2	Use 3	Method/Reference
CT	1	60	J	R			EL

Obstructions

Comments

C1 Electrofished 55 m length of stream for 300 s. with no lower net. 1 CT was caught.

C2 Hiked across to FTa5.4 from small meadow. Located within a pine/spruce stand with alder understory. Small side tributary to FTa5.4 was observed.

C3 Mature Western Spotted Frog was observed in the side tributary.

C R1 is classed as S4 habitat.

DFO/MoELP Stream Survey Form

11-Sep-98 **Stream:** FALSE TAGIT C. TRIBUTARY **Watershed Code:** 460-6006-407-481-FTa-5.4-000-000-000-000-000-000

Stream Survey Report

Header Information

Stream Name:	FALSE TAGIT C. TRIBUTARY	**Stream "Local":**	FTa5.4			**Access:**	H
Watershed Code:	460-6006-407-481-FTa-5.4-000-000-000-000-000-000			**Reach No.:**	1	**Reach Length (km):** 2.0 **Method:**	MW
Location:	WALKED 80 m D/S FROM LARGE MEADOW; LOCATED 1.9 km U/S FROM THE MOUTH.	**Map #:**	093L025	**Site No.:**	21	**Length surveyed (m):** 55.0 **Method:**	HC
		U.T.M.:	9 .6222 .60118	**Fish Card:**	N	**Field:** Yes **Historical:**	No
Date: 08/07/97 **Time:** 16:00 **Agency:** C87		**Survey Crew:** DB \CP\ \ \ \ \ \ \		**Photos:**	B3/2, 3	**Air Photos:**	BCB 91179:209

Channel Characteristics

				Specific Data					
Av. Chan. Width (m):	0.9	**Method Av. Chan. Width (m):**	T	0.8	0.6	0.8	1.0	1.0	1.0
Av. Wet. Width (m):	0.8	**Method Av. Wet. Width (m):**	T	0.8	0.6	0.8	1.0	1.0	0.9
Av. Max. Rif. Depth (cm):	7	**Av. Max. Riffle Depth (cm):**	MS	5	5	10			
Av. Max. Pool Depth (cm):	17	**Av. Max. Pool Depth (cm):**	7	15	20	15			
Gradient (%):	2.0	**Method Gradient:**	CL						
% Pool: 95	**% Riffle:** 5	**% Run:** 0	**% Other:** 0	**Method:** GE					
% Side Channel:	0	**Method Side Channel:**	GE						
% Debris Area:	0-10	**Method Debris Area:**	GE						

Cover

Cover Total % :	100	**Method Cover Total %:**	GE				
Dp Pool : 0 **L.O.D.:**	0	**Boulder:** 0 **In Veg.:**	10	**Over Veg:**	90	**Cutbank:**	0
Crown Closure % :	100	**Method Crown Closure:**	GE	**Aspect :**	SE	**Method Aspect:**	MW

Discharge

				Specific Data
Wetted Width (m) :		**Method Wetted Width (m) :**		
Mean Depth (m) :		**Method Mean Depth (m) :**		
Mean Velocity (m/s) :		**Method Mean Velocity (m/s**	VO	
Discharge (m3/s) :	0.01	**Method Discharge (m3/s) :**		

Reach Symbol

(Fish)

NF

1 A 2.0 | F

(Width, Valley: Channel, Slope) | (Bed Material)

Bed Material

% Fines (<2mm):	100	**% Fines (<2mm):**	100
% Gravels:	0	**Small (2-16mm):**	0
		Large (16-64mm):	0
% Larges:	0	**Small cobble (64-128mm):**	0
		Large cobble (128-256mm):	0
		Boulder cobble (>256mm):	0
% Bedrock:	0	**% Bedrock:**	0
D90 (cm):		**Compaction:**	High

Banks

Height (m):	0.3	**% Unstable:**					0
Textures Fines:	Yes	**Gravel:**	No	**Larges:**	No	**Bedrock:**	No
Confinement:	2						
Valley: Chan. Ratio:	1						
Stage:	L						
Flood Signs Ht(m):		**Method Flood Signs:**					
Braided:	N	**Method Braided:**					GE
Bars (%):	0	**Method Bars:**					GE
pH:		**Method pH:**					
02 (ppm):		**Method Dissolved Oxygen:**					
Water Temp. (°C):	15.0	**Method Temperature:**					TC
Turb. (cm):	200	**Method Turbidity:**					GE
Cond. (µmhos):	80	**Method Conductivity:**					CM

DFO/MoELP Stream Survey Form

11-Sep-98 **Stream:** FALSE TAGIT C. TRIBUTARY **Watershed Code:** 460-6006-407-481-FTa-5.4-000-000-000-000-000-000

Stream Survey Report

Stream/Valley Cross-Section

Fish Summary

Obstructions

Comments

C1	Electrofished a large section of stream for 715 s. No fish were caught/observed.
C2	Below the meadow, the creek becomes more confined by gradual sloping valley walls.
C3	Understory is alder within a pine and spruce mix stand.
C4	R1 is classed as S6 habitat.

DFO/MoELP Stream Survey Form

11-Sep-98 **Stream:** FALSE TAGIT C. TRIBUTARY **Watershed Code:** 460-6006-407-660-000-000-000-000-000-000-000-000

Stream Survey Report

Header Information

Stream Name:	FALSE TAGIT C. TRIBUTARY	**Stream "Local":**	FTa6			**Access:**	H
Watershed Code:	460-6006-407-660-000-000-000-000-000-000-000-000			**Reach No.:**	1	**Reach Length (km):** 0.6 **Method:**	MW
Location:	LOCATED AT THE CONFLUENCE OF FTa6 AND FTa6.1.	**Map #:**	093L025	**Site No.:**	22	**Length surveyed (m):** 100.0 **Method:**	HC
		U.T.M.:	9 .6194 .60119	**Fish Card:**	N	**Field:** Yes **Historical:**	No
Date: 08/07/97 **Time:** 14:00 **Agency:** C87 **Survey Crew:** RD \IF \ \ \ \ \ \ \				**Photos:**	A10/3, 4	**Air Photos:**	BCB 91179:211

Channel Characteristics

				Specific Data				
Av. Chan. Width (m):	1.1	**Method Av. Chan. Width (m):**	T	1.2	0.9	0.8	1.3	1.2
Av. Wet. Width (m):	0.8	**Method Av. Wet. Width (m):**	T	0.8	0.9	0.8	0.4	0.9
Av. Max. Rif. Depth (cm):	1	**Av. Max. Riffle Depth (cm):**	MS					
Av. Max. Pool Depth (cm):	14	**Av. Max. Pool Depth (cm):**	1	12	18	11		
Gradient (%):	5.0	**Method Gradient:**	CL					
% Pool: 30 **% Riffle:** 40		**% Run:** 30 **% Other:**	0	**Method:** GE				
% Side Channel:	0-10	**Method Side Channel:**	GE					
% Debris Area:	0-10	**Method Debris Area:**	GE					

Cover

Cover Total % :	40	**Method Cover Total %:**	GE				
Dp Pool : 40 **L.O.D.:**	10	**Boulder:** 0 **In Veg.:**	0	**Over Veg:**	30	**Cutbank:**	20
Crown Closure % :	20	**Method Crown Closure:**	GE	**Aspect :**	SE	**Method Aspect:**	MW

Discharge

				Specific Data
Wetted Width (m) :		**Method Wetted Width (m) :**		
Mean Depth (m) :		**Method Mean Depth (m) :**		
Mean Velocity (m/s) :		**Method Mean Velocity (m/s**	VO	
Discharge (m3/s) :	0.01	**Method Discharge (m3/s) :**		

Reach Symbol

(Fish)

NF

1 C 5.0	1900
(Width, Valley: Channel, Slope)	(Bed Material)

Bed Material

% Fines (<2mm):	15	**% Fines (<2mm):**	15
% Gravels:	85	**Small (2-16mm):**	70
		Large (16-64mm):	15
% Larges:	0	**Small cobble (64-128mm):**	0
		Large cobble (128-256mm):	0
		Boulder cobble (>256mm):	0
% Bedrock:	0	**% Bedrock:**	0
D90 (cm):	2	**Compaction:**	High

Banks

Height (m):	0.4	**% Unstable:**	0
Textures Fines:	Yes	**Gravel:** Yes **Larges:** No **Bedrock:**	No
Confinement:	4		
Valley: Chan. Ratio:	3		
Stage:	L		
Flood Signs Ht(m):	0.2	**Method Flood Signs:**	MS
Braided:	N	**Method Braided:**	GE
Bars (%):	10	**Method Bars:**	GE
pH:	8.0	**Method pH:**	PH
02 (ppm):		**Method Dissolved Oxygen:**	
Water Temp. (°C):	11.0	**Method Temperature:**	TC
Turb. (cm):	200	**Method Turbidity:**	GE
Cond. (µmhos):		**Method Conductivity:**	

DFO/MoELP Stream Survey Form

Stream Survey Report

11-Sep-98 **Stream:** FALSE TAGIT C. TRIBUTARY **Watershed Code:** 460-6006-407-660-000-000-000-000-000-000-000-000

Stream/Valley Cross-Section

Fish Summary

Obstructions

Comments

C1	Electrofished 100 m length of stream; no fish were caught/observed.
C2	Silt/fine gravel bed material. Alder swales line the channel.
C3	Small, stable creek that may dewater during dry periods.
C4	Lower R1 was surveyed by air: easy access at the mouth; classed as suspected S4 habitat due to the potential fish habitat present in R1.

DFO/MoELP Stream Survey Form

11-Sep-98 **Stream:** FALSE TAGIT C. TRIBUTARY **Watershed Code:** 460-6006-407-660-FTa-6.1-000-000-000-000-000-000

Stream Survey Report

Header Information

Stream Name:	FALSE TAGIT C. TRIBUTARY	**Stream "Local":**	FTa6.1			**Access:**	H
Watershed Code:	460-6006-407-660-FTa-6.1-000-000-000-000-000-000			**Reach No.:**	1	**Reach Length (km):** 0.8 **Method:**	MW
Location:	LOCATED 100 m U/S FROM THE MOUTH.	**Map #:**	093L025	**Site No.:**	23	**Length surveyed (m):** 200.0 **Method:**	HC
		U.T.M.:	9 .6195 .60120	**Fish Card:**	N	**Field:** Yes **Historical:**	No
Date: 08/07/97 **Time:** 14:30 **Agency:** C87		**Survey Crew:** RD \IF \ \ \ \ \ \ \		**Photos:**	A10/5, 6	**Air Photos:**	BCB 91179:211

Channel Characteristics

				Specific Data			
Av. Chan. Width (m):	0.8	**Method Av. Chan. Width (m):**	T	0.5	0.5	1.0	1.3
Av. Wet. Width (m):	0.5	**Method Av. Wet. Width (m):**	T	0.5	0.5		
Av. Max. Rif. Depth (cm):		**Av. Max. Riffle Depth (cm):**					
Av. Max. Pool Depth (cm):		**Av. Max. Pool Depth (cm):**					
Gradient (%):	3.0	**Method Gradient:**	CL				
% Pool: 0	**% Riffle:** 0	**% Run:** 100	**% Other:** 0	**Method:** GE			
% Side Channel:	0	**Method Side Channel:**	GE				
% Debris Area:	0	**Method Debris Area:**	GE				

Cover

Cover Total % :	10	**Method Cover Total %:**	GE						
Dp Pool : 70	**L.O.D.:** 0	**Boulder:** 0	**In Veg.:** 30	**Over Veg:** 0	**Cutbank:** 0				
Crown Closure % :	5	**Method Crown Closure:**	GE	**Aspect :**	SW	**Method Aspect:**	MW		

Discharge

				Specific Data
Wetted Width (m) :		**Method Wetted Width (m) :**		
Mean Depth (m) :		**Method Mean Depth (m) :**		
Mean Velocity (m/s) :		**Method Mean Velocity (m/s**	VO	
Discharge (m3/s) :	0.01	**Method Discharge (m3/s) :**		

Reach Symbol

(Fish)

NF

1 D 3.0 | F

(Width, Valley: Channel, Slope) | (Bed Material)

Bed Material

% Fines (<2mm):	100	**% Fines (<2mm):**	100
% Gravels:	0	**Small (2-16mm):**	0
		Large (16-64mm):	0
% Larges:	0	**Small cobble (64-128mm):**	0
		Large cobble (128-256mm):	0
		Boulder cobble (>256mm):	0
% Bedrock:	0	**% Bedrock:**	0
D90 (cm):		**Compaction:**	High

Banks

Height (m):	0.2	**% Unstable:**	0		
Textures Fines:	Yes	**Gravel:** No	**Larges:** No	**Bedrock:**	No
Confinement:	5				
Valley: Chan. Ratio:	4				
Stage:	L				
Flood Signs Ht(m):		**Method Flood Signs:**			
Braided:	N	**Method Braided:**			GE
Bars (%):		**Method Bars:**			
pH:	7.5	**Method pH:**			PH
02 (ppm):		**Method Dissolved Oxygen:**			
Water Temp. (°C):	11.0	**Method Temperature:**			TC
Turb. (cm):	200	**Method Turbidity:**			GE
Cond. (µmhos):	80	**Method Conductivity:**			CM

DFO/MoELP Stream Survey Form

11-Sep-98 **Stream:** FALSE TAGIT C. TRIBUTARY **Watershed Code:** 460-6006-407-660-FTa-6.1-000-000-000-000-000-000

Stream Survey Report

Stream/Valley Cross-Section

Fish Summary

Obstructions

Comments

C1	Creek was too small to sample; not fish habitat. No fish were caught in the site just d/s on FTa6.
C2	Small seepage originating from bog area. Sections have no defined channel. Iron leaching is prevalent.
C3	No gravel bed material.
C4	Tributary FTa6.1 is classed as S6 habitat.

DFO/MoELP Stream Survey Form

10-Feb-98 **Stream:** TAGIT C. **Watershed Code:** 460-6006-445-000-000-000-000-000-000-000-000-000

Stream Survey Report

Header Information

Stream Name:	TAGIT C.	**Stream "Local":**	TAGIT C.			**Access:**			FT
Watershed Code:	460-6006-445-000-000-000-000-000-000-000-000-000			**Reach No.:**	2	**Reach Length (km):**		**Method:**	MW
Location:	OUTLET OF CHISHOLM LAKE; LAKE SURVEY DATA (SEE COMMENT 1), SITE LS1.	**Map #:**	93/L3	**Site No.:**	0	**Length surveyed (m):**	630.0	**Method:**	HC
		U.T.M. :	09.615950.6008017	**Fish Card:**	N	**Field:**	Yes	**Historical:**	No
Date: 27/09/96	**Time:** 17:14	**Agency:** C58	**Survey Crew:** JD \JL\ \ \ \ \ \ \	**Photos:**		**Air Photos:**			

Channel Characteristics

				Specific Data					
Av. Chan. Width (m):	11.2	**Method Av. Chan. Width (m):**	T	12.6	12.6	12.0	9.7	10.3	10.1
Av. Wet. Width (m):	9.6	**Method Av. Wet. Width (m):**	T	11.2	11.1	10.8	7.9	8.7	8.1
Av. Max. Rif. Depth (cm):		**Av. Max. Riffle Depth (cm):**	MS						
Av. Max. Pool Depth (cm):	1	**Av. Max. Pool Depth (cm):**							
Gradient (%):	0.1	**Method Gradient:**	CL						

% Pool: 100 **% Riffle:** 0 **% Run:** 0 **% Other:** 0 **Method:** GE

% Side Channel:	0-10	**Method Side Channel:**	GE
% Debris Area:	0-10	**Method Debris Area:**	GE

Cover

Cover Total % :	30	**Method Cover Total %:**	GE				
Dp Pool : 0	**L.O.D.:** 0	**Boulder:** 0	**In Veg.:** 100	**Over Veg:** 0	**Cutbank:**	0	
Crown Closure % :	0	**Method Crown Closure:**	GE	**Aspect :** SW	**Method Aspect:**		GE

Discharge

				Specific Data				
Wetted Width (m) :	3.8	**Method Wetted Width (m) :**	T					
Mean Depth (m) :	0.3	**Method Mean Depth (m) :**	MS	0.0	0.3	0.3	0.5	0.5
Mean Velocity (m/s) :	0.18	**Method Mean Velocity (m/s**	F					
Discharge (m3/s) :	0.21	**Method Discharge (m3/s) :**	F					

Reach Symbol

(Fish)

(Width, Valley: Channel, Slope) | (Bed Material)

Bed Material

% Fines (<2mm):	100	**% Fines (<2mm):**	100
% Gravels:	0	**Small (2-16mm):**	0
		Large (16-64mm):	0
% Larges:	0	**Small cobble (64-128mm):**	0
		Large cobble (128-256mm):	0
		Boulder cobble (>256mm):	0
% Bedrock:	0	**% Bedrock:**	0
D90 (cm):		**Compaction:**	Low

Banks

Height (m):		**% Unstable:**					0
Textures Fines:	Yes	**Gravel:**	No	**Larges:**	No	**Bedrock:**	No
Confinement:	5						
Valley: Chan. Ratio:	4						
Stage:	M						
Flood Signs Ht(m):		**Method Flood Signs:**					
Braided:	N	**Method Braided:**					GE
Bars (%):	10	**Method Bars:**					
pH:	7.5	**Method pH:**					
02 (ppm):		**Method Dissolved Oxygen:**					
Water Temp. (°C):	13.0	**Method Temperature:**					
Turb. (cm):		**Method Turbidity:**					
Cond. (µmhos):	36	**Method Conductivity:**					

DFO/MoELP Stream Survey Form

Stream Survey Report

29-May-98 **Stream:** TAGIT C. **Watershed Code:** 460-6006-445-000-000-000-000-000-000-000-000-000

Stream/Valley Cross-Section

Fish Summary

Species	Number	Size Range (mm)	Life Phase	Use 1	Use 2	Use 3	Method/Reference
RSC	2	65-80	J	R			MT
WSU	1	70	J	R			MT

Obstructions

Comments

C1 This data was derived from the Chisholm Lake Survey Report (DeGisi, Schell, 1997).

C2 Discharge was estimated at the reach break (~630 m d/s of the lake); d/s of the reach break (a very old, breached beaver dam), the channel contains some riffles with salmonid spawning habitat (gravel/cobble substrate, good flow). The channel showed very low but discernible flow throughout.

C3 There are many species of lentic macrophytes growing in the channel: Nuphar polysepalum, Potemageton epihydrus, burr-reeds, Hippuris vulgaris.

C4 The entire reach consists of one long continuous pool.

C5 The minnow traps (3) were fished overnight (set: 1750, hauled the next day at 0915). Only one minnow trap (#3) yielded any fish: 2 RSC, and 1WSU. Hundreds of RCS, between 50-90 cm, were visually observed in the channel.

C6 R2 classed as S2 habitat.

DFO/MoELP Stream Survey Form

10-Feb-98 **Stream:** TAGIT C. **Watershed Code:** 460-6006-445-000-000-000-000-000-000-000-000-000

Stream Survey Report

Header Information

Stream Name:	TAGIT C.	**Stream "Local":**	TAGIT C.			**Access:**	FT
Watershed Code:	460-6006-445-000-000-000-000-000-000-000-000-000			**Reach No.:**	2	**Reach Length (km):** **Method:**	MW
Location:	INLET TO WEST SHORE OF CHISHOLM LAKE; LAKE SURVEY DATA (SEE COMMENT 1), SITE LS2.	**Map #:**	93/L3	**Site No.:**	0	**Length surveyed (m):** 500.0 **Method:**	HC
		U.T.M. :	09.615875.6008234	**Fish Card:**	N	**Field:** Yes **Historical:**	No
Date: 28/09/96	**Time:** 10:07	**Agency:** C58	**Survey Crew:** JD \JL\ \ \ \ \ \ \	**Photos:**		**Air Photos:**	

Channel Characteristics

				Specific Data					
Av. Chan. Width (m):	5.0	**Method Av. Chan. Width (m):**	MS	6.0	5.0	4.5	5.5	5.0	4.2
Av. Wet. Width (m):	3.0	**Method Av. Wet. Width (m):**	MS	2.9	3.5	2.8	2.2	3.3	3.1
Av. Max. Rif. Depth (cm):	11	**Av. Max. Riffle Depth (cm):**	MS	7	9	13	14	12	13
Av. Max. Pool Depth (cm):	58	**Av. Max. Pool Depth (cm):**	11	65	57	44	74	58	52
Gradient (%):	2.0	**Method Gradient:**	CL						
% Pool: 15	**% Riffle:** 40	**% Run:** 45	**% Other:** 0	**Method:** GE					
% Side Channel:	0-10	**Method Side Channel:**	GE						
% Debris Area:	0-10	**Method Debris Area:**	GE						

Cover

Cover Total % :	15	**Method Cover Total %:**	GE				
Dp Pool : 40	**L.O.D.:** 35	**Boulder:** 5	**In Veg.:** 0	**Over Veg:** 10	**Cutbank:**		10
Crown Closure % :	45	**Method Crown Closure:**	GE	**Aspect :** SE	**Method Aspect:**		GE

Discharge

		Specific Data
Wetted Width (m) :	**Method Wetted Width (m) :**	
Mean Depth (m) :	**Method Mean Depth (m) :**	
Mean Velocity (m/s) :	**Method Mean Velocity (m/s**	
Discharge (m3/s) :	**Method Discharge (m3/s) :**	

Reach Symbol

(Fish)

(Width, Valley: Channel, Slope) | (Bed Material)

Bed Material

% Fines (<2mm):	10	**% Fines (<2mm):**	10
% Gravels:	45	**Small (2-16mm):**	15
		Large (16-64mm):	30
% Larges:	45	**Small cobble (64-128mm):**	25
		Large cobble (128-256mm):	15
		Boulder cobble (>256mm):	5
% Bedrock:	0	**% Bedrock:**	0
D90 (cm):		**Compaction:**	Medium

Banks

Height (m):	0.7	**% Unstable:**	30
Textures Fines:	Yes	**Gravel:** Yes **Larges:** Yes **Bedrock:**	No
Confinement:	4		
Valley: Chan. Ratio:	3		
Stage:	M		
Flood Signs Ht(m):	1.3	**Method Flood Signs:**	
Braided:	N	**Method Braided:**	
Bars (%):	45	**Method Bars:**	
pH:	7.1	**Method pH:**	
02 (ppm):		**Method Dissolved Oxygen:**	
Water Temp. (°C):	7.7	**Method Temperature:**	
Turb. (cm):		**Method Turbidity:**	
Cond. (µmhos):	50	**Method Conductivity:**	

DFO/MoELP Stream Survey Form

29-May-98 **Stream:** TAGIT C. **Watershed Code:** 460-6006-445-000-000-000-000-000-000-000-000-000

Stream Survey Report

Stream/Valley Cross-Section

Fish Summary

Species	Number	Size Range (mm)	Life Phase	Use 1	Use 2	Use 3	Method/Reference
CT	2	70-110	J	R			MT
CT	20	35	F	R			VO

Obstructions

Comments

C1 This data was derived from the Chisholm Lake Survey Report (DeGisi, Schell, 1997).

C2 All minnow traps (3) set @ 1900, hauled @ 1005 the next day; traps yielded two (2) CT, ranging from 70-110 mm.

C3 The channel offers very good salmonid spawning potential, and fair to good rearing potential.

C4 In many places, bank height on both sides of the channel is greater than 1.5 m. Site location: 200 m u/s of Chisholm Lake.

DFO/MoELP Stream Survey Form

10-Feb-98 **Stream:** TAGIT C. TRIBUTARY **Watershed Code:** 460-6006-445-Ta5-000-000-000-000-000-000-000-000

Stream Survey Report

Header Information

Stream Name:	TAGIT C. TRIBUTARY	**Stream "Local":**	Ta5			**Access:**	FT
Watershed Code:	460-6006-445-Ta5-000-000-000-000-000-000-000-000			**Reach No.:**	1	**Reach Length (km):** **Method:**	MW
Location:	INFLOW TO NORTH SHORE OF CHISHOLM LAKE; LAKE SURVEY DATA (SEE COMMENT 1), SITE LS3.	**Map #:**	93/L3	**Site No.:**	0	**Length surveyed (m):** 45.0 **Method:**	HC
		U.T.M. :	09.616350.6008775	**Fish Card:**	N	**Field:** Yes **Historical:**	No
Date: 28/09/96	**Time:** 15:10	**Agency:** C58	**Survey Crew:** JD \JL \ \ \ \ \ \ \	**Photos:**		**Air Photos:**	

Channel Characteristics

				Specific Data					
Av. Chan. Width (m):	1.0	**Method Av. Chan. Width (m):**	MS	0.8	0.9	1.2	1.2	1.1	1.0
Av. Wet. Width (m):	1.0	**Method Av. Wet. Width (m):**	MS	0.7	0.9	1.1	1.2	1.0	1.0
Av. Max. Rif. Depth (cm):	4	**Av. Max. Riffle Depth (cm):**	MS	6	2	3	5	2	
Av. Max. Pool Depth (cm):	17	**Av. Max. Pool Depth (cm):**	4	20	17	17	20	13	
Gradient (%):	2.5	**Method Gradient:**	CL						
% Pool: 5	**% Riffle:** 15	**% Run:** 80	**% Other:** 0	**Method:** GE					
% Side Channel:	0	**Method Side Channel:**	GE						
% Debris Area:	0-10	**Method Debris Area:**	GE						

Cover

Cover Total % :	10	**Method Cover Total %:**	GE						
Dp Pool : 50	**L.O.D.:** 40	**Boulder:** 0	**In Veg.:** 10	**Over Veg:** 0		**Cutbank:**		0	
Crown Closure % :	0	**Method Crown Closure:**	GE	**Aspect :**	S	**Method Aspect:**		GE	

Discharge

				Specific Data			
Wetted Width (m) :	0.3	**Method Wetted Width (m) :**	MS				
Mean Depth (m) :	0.1	**Method Mean Depth (m) :**	MS	0.1	0.1	0.1	0.0
Mean Velocity (m/s) :	0.25	**Method Mean Velocity (m/s**	F				
Discharge (m3/s) :	0.01	**Method Discharge (m3/s) :**	F				

Reach Symbol

(Fish)

(Width, Valley: Channel, Slope) | (Bed Material)

Bed Material

% Fines (<2mm):	100	**% Fines (<2mm):**	100
% Gravels:	0	**Small (2-16mm):**	0
		Large (16-64mm):	0
% Larges:	0	**Small cobble (64-128mm):**	0
		Large cobble (128-256mm):	0
		Boulder cobble (>256mm):	0
% Bedrock:	0	**% Bedrock:**	0
D90 (cm):		**Compaction:**	Low

Banks

Height (m):	0.1	**% Unstable:**					0
Textures Fines:	Yes	**Gravel:**	No	**Larges:**	No	**Bedrock:**	No
Confinement:	5						
Valley: Chan. Ratio:	4						
Stage:	M						
Flood Signs Ht(m):	0.08	**Method Flood Signs:**					
Braided:	N	**Method Braided:**					
Bars (%):	5	**Method Bars:**					
pH:	7.3	**Method pH:**					
02 (ppm):		**Method Dissolved Oxygen:**					
Water Temp. (°C):	10.8	**Method Temperature:**					
Turb. (cm):		**Method Turbidity:**					
Cond. (µmhos):	75	**Method Conductivity:**					

DFO/MoELP Stream Survey Form

29-May-98 **Stream:** TAGIT C. TRIBUTARY **Watershed Code:** 460-6006-445-Ta5-000-000-000-000-000-000-000-000

Stream Survey Report

Stream/Valley Cross-Section

Fish Summary

Species	Number	Size Range (mm)	Life Phase	Use 1	Use 2	Use 3	Method/Reference
CT	1	25	F				DN

Obstructions

Obstruction Ht(m)	Type	Location
2	BD	0.1

Comments

C1 This data was derived from the Chisholm Lake Survey Report (DeGisi, Schell, 1997).

C2 The channel traverses a muddy wetland which was formerly flooded by Chisholm Lake; the reach break is a 45 m u/s from the lake; the site location was 30 m u/s from the lake.

C3 The total length of the channel surveyed (R1 and R2) was 113 m. At 62 m u/s from the lake, a 1.5 m high beaver dam impounds a pond, with flow that goes over and then through the dam; this would not likely be passable by fish.

C4 R2 consists of a series of stepped pools. CT were visually observed at 55 m.

C5 Tributary is classed as S4 u/s to 62 m and suspected S6 above 62 m.

DFO/MoELP Stream Survey Form

10-Feb-98 **Stream:** TAGIT C. TRIBUTARY **Watershed Code:** 460-6006-445-214-000-000-000-000-000-000-000

Stream Survey Report

Header Information

Stream Name: TAGIT C. TRIBUTARY **Stream "Local":** Ta4

Watershed Code: 460-6006-445-214-000-000-000-000-000-000-000-000

Location: INFLOW OF CHISHOLM LAKE; LAKE SURVEY DATA (SEE COMMENT 1), SITE LS4. **Map #:** 93/L3 **U.T.M. :** 09.617300.6008325

Date: 28/09/96 **Time:** 16:27 **Agency:** C58 **Survey Crew:** JD \UL\ \ \ \ \ \ \

			Access:		FT
Reach No.:	1	**Reach Length (km):**		**Method:**	MW
Site No.:	0	**Length surveyed (m):**	350.0	**Method:**	HC
Fish Card:	N	**Field:** Yes		**Historical:**	No
Photos:		**Air Photos:**			

Channel Characteristics

				Specific Data					
Av. Chan. Width (m):	1.9	**Method Av. Chan. Width (m):**	MS	1.3	1.2	1.4	2.0	3.1	2.2
Av. Wet. Width (m):	1.2	**Method Av. Wet. Width (m):**	MS	1.2	1.2	1.4	1.1	1.2	1.3
Av. Max. Rif. Depth (cm):	5	**Av. Max. Riffle Depth (cm):**	MS	4	6	4			
Av. Max. Pool Depth (cm):	38	**Av. Max. Pool Depth (cm):**	5	15	28	37	47	41	60
Gradient (%):	0.5	**Method Gradient:**	CL						

% Pool: 85 **% Riffle:** 5 **% Run:** 10 **% Other:** 0 **Method:** GE

% Side Channel:	0-10	**Method Side Channel:**	GE
% Debris Area:	>40	**Method Debris Area:**	GE

Cover

Cover Total % : **Method Cover Total %:**

Dp Pool : **L.O.D.:** **Boulder:** **In Veg.:** **Over Veg:** **Cutbank:**

Crown Closure % : 35 **Method Crown Closure:** GE **Aspect :** E **Method Aspect:** GE

Discharge

				Specific Data		
Wetted Width (m) :	0.5	**Method Wetted Width (m) :**	MS			
Mean Depth (m) :	0.1	**Method Mean Depth (m) :**	MS	0.1	0.1	0.1
Mean Velocity (m/s) :	0.25	**Method Mean Velocity (m/s**	F			
Discharge (m3/s) :	0.01	**Method Discharge (m3/s) :**	F			

Reach Symbol

(Fish)

(Width, Valley: Channel, Slope) | (Bed Material)

Bed Material

% Fines (<2mm):	85	**% Fines (<2mm):**	85
% Gravels:	10	**Small (2-16mm):**	5
		Large (16-64mm):	5
% Larges:	5	**Small cobble (64-128mm):**	5
		Large cobble (128-256mm):	0
		Boulder cobble (>256mm):	0
% Bedrock:	0	**% Bedrock:**	0
D90 (cm):		**Compaction:**	Medium

Banks

Height (m):	0.3	**% Unstable:**	0
Textures Fines:	Yes	**Gravel:** No **Larges:** No **Bedrock:**	No
Confinement:	6		
Valley: Chan. Ratio:	5		
Stage:	M		
Flood Signs Ht(m):	0.26	**Method Flood Signs:**	
Braided:	N	**Method Braided:**	
Bars (%):	45	**Method Bars:**	
pH:	7.1	**Method pH:**	
02 (ppm):		**Method Dissolved Oxygen:**	
Water Temp. (°C):	7.7	**Method Temperature:**	
Turb. (cm):		**Method Turbidity:**	
Cond. (µmhos):	47	**Method Conductivity:**	

DFO/MoELP Stream Survey Form

29-May-98 **Stream:** TAGIT C. TRIBUTARY **Watershed Code:** 460-6006-445-214-000-000-000-000-000-000-000-000

Stream Survey Report

Stream/Valley Cross-Section

Fish Summary

Species	Number	Size Range (mm)	Life Phase	Use 1	Use 2	Use 3	Method/Reference
CT	2	25-30	F				VO

Obstructions

Obstruction Ht(m)	Type	Location
1	BD	0.1

Comments

C1 This data was derived from the Chisholm Lake Survey Report (DeGisi, Schell, 1997).

C2 Much of the channel is stagnant or has very little discernible flow as well as being somewhat impounded.

C3 Site location: 220 m u/s from Chisholm Lake.

C4 Poor spawning potential due to lack of suitable substrate; bed material is organic/fines.

DFO/MoELP Stream Survey Form

10-Feb-98 Stream: TAGIT C. Watershed Code: 460-6006-445-000-000-000-000-000-000-000-000-000

Stream Survey Report

Header Information

Stream Name:	TAGIT C.	**Stream "Local":**	TAGIT C.			**Access:**	FT
Watershed Code:	460-6006-445-000-000-000-000-000-000-000-000-000			**Reach No.:**	1	**Reach Length (km):** 1.4	**Method:** MW
Location:	SAMPLED U/S FROM MAIN ROAD BRIDGE FOR 35 m.	**Map #:**	093L024	**Site No.:**	1	**Length surveyed (m):** 100.0	**Method:** HC
		U.T.M. :	9.6148 .60066	**Fish Card:**	N	**Field:** Yes	**Historical:** No
Date: 02/07/97	**Time:** 14:30	**Agency:** C87	**Survey Crew:** CP \RD \IF \ \ \ \ \ \	**Photos:**	A8/16, 17, 19	**Air Photos:**	BCB 91179:32

Channel Characteristics

					Specific Data					
Av. Chan. Width (m):	4.5	**Method Av. Chan. Width (m):**	T		4.3	5.3	4.5	4.5	2.9	5.4
Av. Wet. Width (m):	3.7	**Method Av. Wet. Width (m):**	T		4.3	3.5	4.2	4.5	2.9	2.7
Av. Max. Rif. Depth (cm):	22	**Av. Max. Riffle Depth (cm):**	MS		21	25	21			
Av. Max. Pool Depth (cm):	75	**Av. Max. Pool Depth (cm):**	22		80	70	75			
Gradient (%):	2.5	**Method Gradient:**	CL							
% Pool: 20	**% Riffle:** 40	**% Run:** 40	**% Other:** 0	**Method:** GE						
% Side Channel:	0-10	**Method Side Channel:**	GE							
% Debris Area:	10-40	**Method Debris Area:**	GE							

Bed Material

% Fines (<2mm):	10	**% Fines (<2mm):**	10
% Gravels:	20	**Small (2-16mm):**	10
		Large (16-64mm):	10
% Larges:	70	**Small cobble (64-128mm):**	25
		Large cobble (128-256mm):	25
		Boulder cobble (>256mm):	20
% Bedrock:	0	**% Bedrock:**	0
D90 (cm):	30	**Compaction:**	Medium

Cover

Cover Total % :	20	**Method Cover Total %:**	GE						
Dp Pool : 20	**L.O.D.:** 10	**Boulder:** 55	**In Veg.:** 0	**Over Veg:** 5	**Cutbank:** 10				
Crown Closure % :	10	**Method Crown Closure:**	GE	**Aspect :** S	**Method Aspect:**	MW			

Banks

Height (m):	0.8	**% Unstable:**	10
Textures Fines:	Yes	**Gravel:** No **Larges:** Yes	**Bedrock:** No
Confinement:	3		
Valley: Chan. Ratio:	2		
Stage:	M		
Flood Signs Ht(m):	0.5	**Method Flood Signs:**	MS
Braided:	N	**Method Braided:**	GE
Bars (%):	5	**Method Bars:**	GE
pH:	7.8	**Method pH:**	PH
02 (ppm):		**Method Dissolved Oxygen:**	
Water Temp. (°C):	16.0	**Method Temperature:**	TC
Turb. (cm):	200	**Method Turbidity:**	GE
Cond. (µmhos):	30	**Method Conductivity:**	CM

Discharge

				Specific Data
Wetted Width (m) :		**Method Wetted Width (m) :**		
Mean Depth (m) :		**Method Mean Depth (m) :**		
Mean Velocity (m/s) :		**Method Mean Velocity (m/s**	VO	
Discharge (m3/s) :	0.42	**Method Discharge (m3/s) :**		

Reach Symbol

(Fish)

CO(*) RB(SST) CT(*) LNC PL(*)

5 B 2.5	1270
(Width, Valley: Channel, Slope)	**(Bed Material)**

DFO/MoELP Stream Survey Form

10-Feb-98 **Stream:** TAGIT C. **Watershed Code:** 460-6006-445-000-000-000-000-000-000-000-000

Stream Survey Report

Stream/Valley Cross-Section

Fish Summary

Species	Number	Size Range (mm)	Life Phase	Use 1	Use 2	Use 3	Method/Reference
CT	8	80-127	J	R			EL
CT	1	233	A	M	S		EL
RB	9	79-181	J	R			EL
CO	1	77	J	R			EL
LNC	8	87-127	J	R			EL
PL			J	R			VO

Obstructions

Comments

C1 Electrofished 35 m length of stream with a lower net. The 233 mm CT was identified as a spawned-out male. CO present; therefore this creek must be accessible d/s from the main river, which was confirmed through air observations. Suspect RB are SST. Pockets of good potential spawning present in this section; suspect all species caught are spawning in this section.

C2 Stable creek with moss-covered banks and instream boulders. ~150 m u/s from bridge, sections of low gradient run/pond habitat are present with abundant instream vegtetation and LOD, and fines/gravel bed material. ~50 m d/s from the bridge, the creek begins to steepen.

C3 Several BD's are located u/s in R2 (see Site LS1); suspect CO and SST do not access the lake. See the lake survey report (DeGisi, Schell, 1997) for catch data on Chisholm Lake: CT, RSC, LSU, PCC and CAS are present in the lake.

C4 R1 is classed as S2 habitat since the channel width is so close to 5 m and R2 was reported to have an 11 m channel width.

DFO/MoELP Stream Survey Form

10-Feb-98 **Stream:** TAGIT C. **Watershed Code:** 460-6006-445-000-000-000-000-000-000-000-000-000

Stream Survey Report

Header Information

Stream Name:	TAGIT C.	**Stream "Local":**	TAGIT C.			**Access:**	H
Watershed Code:	460-6006-445-000-000-000-000-000-000-000-000-000			**Reach No.:**	4	**Reach Length (km):** 3.9 **Method:**	MW
Location:	LOCATED ~350-400 m U/S FROM INLET TO CHISHOLM LAKE.	**Map #:**	093L024	**Site No.:**	2	**Length surveyed (m):** 100.0 **Method:**	HC
		U.T.M.:	9.6148 .60066	**Fish Card:**	N	**Field:** Yes **Historical:**	No
Date: 03/07/97	**Time:** 9:30	**Agency:** C87	**Survey Crew:** DB \CP\ \ \ \ \ \ \	**Photos:**	B2/1, 2	**Air Photos:**	BCB 91179:32

Channel Characteristics

				Specific Data					
Av. Chan. Width (m):	5.4	**Method Av. Chan. Width (m):**	T	7.1	6.1	6.0	5.4	4.1	3.6
Av. Wet. Width (m):	3.6	**Method Av. Wet. Width (m):**	T	3.9	2.9	4.0	3.7	3.7	3.6
Av. Max. Rif. Depth (cm):	13	**Av. Max. Riffle Depth (cm):**	MS	12	12	14			
Av. Max. Pool Depth (cm):	34	**Av. Max. Pool Depth (cm):**	13	28	41	34			
Gradient (%):	3.0	**Method Gradient:**	CL						
% Pool: 20	**% Riffle:** 50	**% Run:** 30	**% Other:** 0	**Method:** GE					
% Side Channel:	0	**Method Side Channel:**	GE						
% Debris Area:	10-40	**Method Debris Area:**	GE						

Cover

Cover Total % :	70	**Method Cover Total %:**	GE						
Dp Pool : 0	**L.O.D.:** 60	**Boulder:** 10	**In Veg.:** 0	**Over Veg:** 30	**Cutbank:** 0				
Crown Closure % :	20	**Method Crown Closure:**	GE	**Aspect :**	SE	**Method Aspect:**	MW		

Discharge

				Specific Data
Wetted Width (m) :		**Method Wetted Width (m) :**		
Mean Depth (m) :		**Method Mean Depth (m) :**		
Mean Velocity (m/s) :		**Method Mean Velocity (m/s**	VO	
Discharge (m3/s) :	0.17	**Method Discharge (m3/s) :**		

Reach Symbol

(Fish)

CT DV CAS

5 D 3.0	0820
(Width, Valley: Channel, Slope)	(Bed Material)

Bed Material

% Fines (<2mm):	0	**% Fines (<2mm):**	0
% Gravels:	85	**Small (2-16mm):**	45
		Large (16-64mm):	40
% Larges:	15	**Small cobble (64-128mm):**	10
		Large cobble (128-256mm):	5
		Boulder cobble (>256mm):	0
% Bedrock:	0	**% Bedrock:**	0
D90 (cm):	10	**Compaction:**	Medium

Banks

Height (m):	1.0	**% Unstable:**	0				
Textures Fines:	Yes	**Gravel:** Yes	**Larges:** No	**Bedrock:**	No		
Confinement:	5						
Valley: Chan. Ratio:	4						
Stage:	L						
Flood Signs Ht(m):	0.5	**Method Flood Signs:**	MS				
Braided:	N	**Method Braided:**	GE				
Bars (%):	30	**Method Bars:**	GE				
pH:		**Method pH:**					
02 (ppm):		**Method Dissolved Oxygen:**					
Water Temp. (°C):	8.5	**Method Temperature:**	TC				
Turb. (cm):	200	**Method Turbidity:**	GE				
Cond. (µmhos):	40	**Method Conductivity:**	CM				

DFO/MoELP Stream Survey Form

10-Feb-98 **Stream:** TAGIT C. **Watershed Code:** 460-6006-445-000-000-000-000-000-000-000-000-000

Stream Survey Report

Stream/Valley Cross-Section

Fish Summary

Species	Number	Size Range (mm)	Life Phase	Use 1	Use 2	Use 3	Method/Reference
CT	11	42-90	J	R			EL
CAS	1	58	J	R			EL
DV	2	58-59	J	R			EL

Obstructions

Comments

C1 Electrofished 25 m length of stream for 446 s. with a lower net.

C2 Log stepping occurs in creek. Evidence of small debris movement. Big timber is lining the creek.

C3 Although some compaction in sections, areas of potential spawning are present; excellent section just above the lake. Photo B2/3: gravel fan inlet of Chisholm Lake. Photo B2/4: outlet from Chishom Lake.

C4 R4 is classed as S2 habitat.

DFO/MoELP Stream Survey Form

10-Feb-98 **Stream:** TAGIT C. **Watershed Code:** 460-6006-445-000-000-000-000-000-000-000-000-000

Stream Survey Report

Header Information

Stream Name: TAGIT C. **Stream "Local":** TAGIT C.

Watershed Code: 460-6006-445-000-000-000-000-000-000-000-000-000

Location: LOWER TAGIT C.; 800 m D/S FROM THE BRIDGE. **Map #:** 093L024

U.T.M. : 9.6148 .60066

Date: 01/07/97 **Time:** 16:00 **Agency:** C87 **Survey Crew:** RD \CP\ \ \ \ \ \ \

Reach No.: 4 **Site No.:** 3 **Fish Card:** N **Photos:** A8/8, 9

Access: FT

Reach Length (km): 3.9 **Method:** MW

Length surveyed (m): 1000.0 **Method:** HC

Field: Yes **Historical:** No

Air Photos: BCB 91179:32

Channel Characteristics

				Specific Data					
Av. Chan. Width (m):	4.9	**Method Av. Chan. Width (m):**	T	5.5	6.6	3.7	3.9	4.3	5.3
Av. Wet. Width (m):	3.3	**Method Av. Wet. Width (m):**	T	3.4	3.8	3.4	3.2	3.0	3.1
Av. Max. Rif. Depth (cm):	18	**Av. Max. Riffle Depth (cm):**	MS	20	18	15			
Av. Max. Pool Depth (cm):	40	**Av. Max. Pool Depth (cm):**	18	42	40	37			
Gradient (%):	2.0	**Method Gradient:**	CL						

% Pool: 25 **% Riffle:** 55 **% Run:** 20 **% Other:** 0 **Method:** GE

% Side Channel: 0-10 **Method Side Channel:** GE

% Debris Area: 0-10 **Method Debris Area:** GE

Cover

Cover Total % : 70 **Method Cover Total %:** GE

Dp Pool : 15 **L.O.D.:** 20 **Boulder:** 40 **In Veg.:** 0 **Over Veg:** 10 **Cutbank:** 15

Crown Closure % : 10 **Method Crown Closure:** GE **Aspect :** SE **Method Aspect:** MW

Discharge

				Specific Data
Wetted Width (m) :		**Method Wetted Width (m) :**		
Mean Depth (m) :		**Method Mean Depth (m) :**		
Mean Velocity (m/s) :		**Method Mean Velocity (m/s**	VO	
Discharge (m3/s) :	0.28	**Method Discharge (m3/s) :**		

Reach Symbol

(Fish) CT(*) DV	
5 C 2.0	1270
(Width, Valley: Channel, Slope)	(Bed Material)

Bed Material

% Fines (<2mm):	10	**% Fines (<2mm):**	10
% Gravels:	25	**Small (2-16mm):**	10
		Large (16-64mm):	15
% Larges:	65	**Small cobble (64-128mm):**	25
		Large cobble (128-256mm):	30
		Boulder cobble (>256mm):	10
% Bedrock:	0	**% Bedrock:**	0
D90 (cm):	21	**Compaction:**	Medium

Banks

Height (m):	1.0	**% Unstable:**	0
Textures Fines:	Yes	**Gravel:** Yes **Larges:** No **Bedrock:**	No
Confinement:	4		
Valley: Chan. Ratio:	3		
Stage:	L		
Flood Signs Ht(m):	0.4	**Method Flood Signs:**	MS
Braided:	N	**Method Braided:**	GE
Bars (%):	10	**Method Bars:**	GE
pH:	8.3	**Method pH:**	PH
02 (ppm):		**Method Dissolved Oxygen:**	
Water Temp. (°C):	13.0	**Method Temperature:**	TC
Turb. (cm):	200	**Method Turbidity:**	GE
Cond. (µmhos):	20	**Method Conductivity:**	CM

DFO/MoELP Stream Survey Form

10-Feb-98 **Stream:** TAGIT C. **Watershed Code:** 460-6006-445-000-000-000-000-000-000-000-000

Stream Survey Report

Stream/Valley Cross-Section

Fish Summary

Species	Number	Size Range (mm)	Life Phase	Use 1	Use 2	Use 3	Method/Reference
CT	18	41-95	J	R			EL
DV	1	91	J	R			EL

Obstructions

Comments

C1 Electrofished 40 m length of stream with a lower net. CT and DV were caught. Suspect some CT spawning occurs in this reach.

C2 Low gradient, single channel creek. Cobble bed material with sections of suitable spawning substrate. Alder overstory. Some LOD present.

C3 R4 is classed as S2 habitat.

C4 Hiked u/s from sample site: observed an 8' CT kelt in pool 200 m u/s; tributary Ta7 confluence is located at 1000 m; observed several CT fry and juveniles and potential CT spawning at the pool outlets and along some margins.

DFO/MoELP Stream Survey Form

29-May-98 **Stream:** TAGIT C. **Watershed Code:** 460-6006-445-000-000-000-000-000-000-000-000-000

Stream Survey Report

Header Information

Stream Name:	TAGIT C.	**Stream "Local":**	TAGIT C.			**Access:**		V2
Watershed Code:	460-6006-445-000-000-000-000-000-000-000-000-000			**Reach No.:**	4	**Reach Length (km):**	3.9 **Method:**	MW
Location:	SAMPLED JUST U/S FROM ACCESS BRIDGE CROSSING TO BLOCK 625 #2.	**Map #:**	093L024	**Site No.:**	4	**Length surveyed (m):**	100.0 **Method:**	HC
		U.T.M. :	9.6148 .60066	**Fish Card:**	N	**Field:** Yes	**Historical:**	No
Date: 18/06/97	**Time:** 16:00	**Agency:** C87	**Survey Crew:** RD \CP \JB \ \ \ \ \ \	**Photos:**	A7/21, 22	**Air Photos:**		BCB 91179:107

Channel Characteristics

				Specific Data				
Av. Chan. Width (m):	5.9	**Method Av. Chan. Width (m):**	T	3.7	5.8	7.1	5.9	6.8
Av. Wet. Width (m):	4.4	**Method Av. Wet. Width (m):**	T	3.7	5.1			
Av. Max. Rif. Depth (cm):	18	**Av. Max. Riffle Depth (cm):**	MS	18	22	15		
Av. Max. Pool Depth (cm):	37	**Av. Max. Pool Depth (cm):**	18	37	45	30		
Gradient (%):	2.0	**Method Gradient:**	CL					
% Pool: 20	**% Riffle:** 70	**% Run:** 10	**% Other:** 0	**Method:** GE				
% Side Channel:		**Method Side Channel:**	GE					
% Debris Area:	8	**Method Debris Area:**	GE					

Cover

Cover Total % :	75	**Method Cover Total %:**	GE						
Dp Pool : 30	**L.O.D.:** 10	**Boulder:** 45	**In Veg.:** 0	**Over Veg:**	5	**Cutbank:**		10	
Crown Closure % :	15	**Method Crown Closure:**	GE	**Aspect :**	SW	**Method Aspect:**		MW	

Discharge

				Specific Data
Wetted Width (m) :		**Method Wetted Width (m) :**		
Mean Depth (m) :		**Method Mean Depth (m) :**		
Mean Velocity (m/s) :		**Method Mean Velocity (m/s**	VO	
Discharge (m3/s) :	0.71	**Method Discharge (m3/s) :**		

Reach Symbol

(Fish)

DV CT(*)

6 C 2.0	1360
(Width, Valley: Channel, Slope)	(Bed Material)

Bed Material

% Fines (<2mm):	10	**% Fines (<2mm):**	10
% Gravels:	35	**Small (2-16mm):**	15
		Large (16-64mm):	20
% Larges:	55	**Small cobble (64-128mm):**	30
		Large cobble (128-256mm):	15
		Boulder cobble (>256mm):	10
% Bedrock:	0	**% Bedrock:**	0
D90 (cm):	18	**Compaction:**	Medium

Banks

Height (m):	1.0	**% Unstable:**					0
Textures Fines:	Yes	**Gravel:** Yes	**Larges:** No	**Bedrock:**	No		
Confinement:	4						
Valley: Chan. Ratio:	3						
Stage:	H						
Flood Signs Ht(m):	0.3	**Method Flood Signs:**					MS
Braided:	N	**Method Braided:**					GE
Bars (%):	10	**Method Bars:**					GE
pH:	7.9	**Method pH:**					PH
02 (ppm):		**Method Dissolved Oxygen:**					
Water Temp. (°C):	9.0	**Method Temperature:**					TC
Turb. (cm):	200	**Method Turbidity:**					GE
Cond. (µmhos):	10	**Method Conductivity:**					CM

DFO/MoELP Stream Survey Form

Stream Survey Report

29-May-98 **Stream:** TAGIT C. **Watershed Code:** 460-6006-445-000-000-000-000-000-000-000-000

Stream/Valley Cross-Section

Fish Summary

Species	Number	Size Range (mm)	Life Phase	Use 1	Use 2	Use 3	Method/Reference
DV	2	75-100	J	R			EL
CT	5	67-133	J	R			EL

Obstructions

Comments

C1 Electrofished u/s from the bridge a 70 m length of stream for 600 s. with a lower net. CT and DV were caught. Suspect some CT spawning occurs in this reach.

C2 Large, dynamic creek; side channels are present in this reach and bed material is cobble with some suitable trout spawning gravels in pockets. U/S in R5 the channel becomes more confined, the gradient increases, and the bed material is larger.

C3 R4 is classed as S2 habitat.

DFO/MoELP Stream Survey Form

29-May-98 **Stream:** TAGIT C. **Watershed Code:** 460-6006-445-000-000-000-000-000-000-000-000-000

Stream Survey Report

Header Information

Stream Name:	TAGIT C.	**Stream "Local":**	TAGIT C.			**Access:**		FT
Watershed Code:	460-6006-445-000-000-000-000-000-000-000-000-000			**Reach No.:**	5	**Reach Length (km):**	2.8 **Method:**	MW
Location:	500 m U/S FROM THE TOP OF BLOCK 625 #3.	**Map #:**	093L024	**Site No.:**	5	**Length surveyed (m):**	100.0 **Method:**	HC
		U.T.M.:	9.6148 .60066	**Fish Card:**	N	**Field:** Yes	**Historical:**	No
Date: 18/06/97	**Time:** 13:00	**Agency:** C87	**Survey Crew:** RD \CP \JB \ \ \ \ \ \	**Photos:**	A7/18, 19	**Air Photos:**		BCB 91179:107

Channel Characteristics

				Specific Data					
Av. Chan. Width (m):	6.6	**Method Av. Chan. Width (m):**	T	5.7	10.7	5.7	6.4	5.0	6.2
Av. Wet. Width (m):	5.8	**Method Av. Wet. Width (m):**	T	8.5	5.7	3.8	5.0	6.0	
Av. Max. Rif. Depth (cm):	27	**Av. Max. Riffle Depth (cm):**	MS	14	25	42			
Av. Max. Pool Depth (cm):	33	**Av. Max. Pool Depth (cm):**	27	28	32	40			
Gradient (%):	5.0	**Method Gradient:**	CL						
% Pool: 20	**% Riffle:** 70	**% Run:** 10	**% Other:** 0	**Method:** GE					
% Side Channel:	0-10	**Method Side Channel:**	GE						
% Debris Area:	10-40	**Method Debris Area:**	GE						

Cover

Cover Total % :	90	**Method Cover Total %:**	GE						
Dp Pool : 20	**L.O.D.:** 10	**Boulder:** 50	**In Veg.:** 0	**Over Veg:** 0	**Cutbank:** 20				
Crown Closure % :	5	**Method Crown Closure:**	GE	**Aspect :** SW	**Method Aspect:**	MW			

Discharge

				Specific Data
Wetted Width (m) :		**Method Wetted Width (m) :**		
Mean Depth (m) :		**Method Mean Depth (m) :**		
Mean Velocity (m/s) :		**Method Mean Velocity (m/s**	VO	
Discharge (m3/s) :	0.57	**Method Discharge (m3/s) :**		

Reach Symbol

(Fish)

CT* DV

7 C 5.0	1270
(Width, Valley: Channel, Slope)	(Bed Material)

Bed Material

% Fines (<2mm):	10	**% Fines (<2mm):**	10
% Gravels:	20	**Small (2-16mm):**	10
		Large (16-64mm):	10
% Larges:	70	**Small cobble (64-128mm):**	30
		Large cobble (128-256mm):	30
		Boulder cobble (>256mm):	10
% Bedrock:	0	**% Bedrock:**	0
D90 (cm):	25	**Compaction:**	Medium

Banks

Height (m):	1.3	**% Unstable:**	10
Textures Fines:	Yes	**Gravel:** Yes **Larges:** No **Bedrock:**	No
Confinement:	4		
Valley: Chan. Ratio:	3		
Stage:	H		
Flood Signs Ht(m):	0.5	**Method Flood Signs:**	MS
Braided:	N	**Method Braided:**	GE
Bars (%):	25	**Method Bars:**	GE
pH:	8.0	**Method pH:**	PH
02 (ppm):		**Method Dissolved Oxygen:**	
Water Temp. (°C):	7.0	**Method Temperature:**	TC
Turb. (cm):	200	**Method Turbidity:**	GE
Cond. (µmhos):	10	**Method Conductivity:**	CM

DFO/MoELP Stream Survey Form

10-Feb-98 **Stream:** TAGIT C. **Watershed Code:** 460-6006-445-000-000-000-000-000-000-000-000-000

Stream Survey Report

Stream/Valley Cross-Section

Fish Summary

Species	Number	Size Range (mm)	Life Phase	Use 1	Use 2	Use 3	Method/Reference
CT	6	62-71	J	R			EL
CT	3	240-270	A	S	M		EL
DV	6	69-126	J	R			EL

Obstructions

Comments

C1 Hiked down from access road to creek. Electrofished 40 m length of stream for 519 s. with a lower net. CT and DV were caught. The 270 mm and 250 mm CT's were identified as spawned-out males. Assume CT spawn in this reach. Photo A7/20: CT adult.

C2 Dynamic creek with potential to move debris. Mainly one channel with cobble bed material and limited pockets of potential spawning gravels.

C3 Classed as S2 habitat u/s to the top of R5.

DFO/MoELP Stream Survey Form

29-May-98 **Stream:** TAGIT C. **Watershed Code:** 460-6006-445-000-000-000-000-000-000-000-000-000

Stream Survey Report

Header Information

Stream Name:	TAGIT C.	**Stream "Local":**	TAGIT C.			**Access:**		FT
Watershed Code:	460-6006-445-000-000-000-000-000-000-000-000-000			**Reach No.:**	6	**Reach Length (km):**	2.4 **Method:**	MW
Location:	D/S FROM BLOCK 626 #1; SAMPLED 100 m D/S FROM Ta10 CONFLUENCE.	**Map #:**	093L024	**Site No.:**	6	**Length surveyed (m):**	150.0 **Method:**	HC
		U.T.M. :	9.6148 .60066	**Fish Card:**	N	**Field:** Yes	**Historical:**	No
Date: 18/06/97	**Time:** 11:00	**Agency:** C87	**Survey Crew:** RD \CP \JB \ \ \ \ \ \	**Photos:**	A7/15-17	**Air Photos:**		BCB 91179:212

Channel Characteristics

					Specific Data				
Av. Chan. Width (m):	4.8	**Method Av. Chan. Width (m):**	T		3.0	4.5	8.8	3.4	4.1
Av. Wet. Width (m):	3.1	**Method Av. Wet. Width (m):**	T		2.4	3.0	2.7	3.4	4.1
Av. Max. Rif. Depth (cm):	17	**Av. Max. Riffle Depth (cm):**	MS		15	12	24		
Av. Max. Pool Depth (cm):	56	**Av. Max. Pool Depth (cm):**	17		73	56	38		
Gradient (%):	10.0	**Method Gradient:**	CL						
% Pool: 25	**% Riffle:** 60	**% Run:** 15	**% Other:** 0	**Method:** GE					
% Side Channel:		**Method Side Channel:**	GE						
% Debris Area:	10	**Method Debris Area:**	GE						

Cover

Cover Total % :	60	**Method Cover Total %:**	GE						
Dp Pool : 30	**L.O.D.:** 10	**Boulder:** 50	**In Veg.:** 0	**Over Veg:** 0	**Cutbank:**	10			
Crown Closure % :	5	**Method Crown Closure:**	GE	**Aspect :** SE	**Method Aspect:**	MW			

Discharge

				Specific Data
Wetted Width (m) :		**Method Wetted Width (m) :**		
Mean Depth (m) :		**Method Mean Depth (m) :**		
Mean Velocity (m/s) :		**Method Mean Velocity (m/s**	VO	
Discharge (m3/s) :	0.57	**Method Discharge (m3/s) :**		

Reach Symbol

(Fish)

CT DV

5 B 10.0 | 1270

(Width, Valley: Channel, Slope) | (Bed Material)

Bed Material

% Fines (<2mm):	10	**% Fines (<2mm):**	10
% Gravels:	20	**Small (2-16mm):**	10
		Large (16-64mm):	10
% Larges:	70	**Small cobble (64-128mm):**	30
		Large cobble (128-256mm):	30
		Boulder cobble (>256mm):	10
% Bedrock:	0	**% Bedrock:**	0
D90 (cm):	27	**Compaction:**	Low

Banks

Height (m):	1.2	**% Unstable:**	10
Textures Fines:	Yes	**Gravel:** Yes **Larges:** No **Bedrock:**	No
Confinement:	2		
Valley: Chan. Ratio:	2		
Stage:	H		
Flood Signs Ht(m):	0.3	**Method Flood Signs:**	MS
Braided:	N	**Method Braided:**	GE
Bars (%):	5	**Method Bars:**	GE
pH:	8.1	**Method pH:**	PH
02 (ppm):		**Method Dissolved Oxygen:**	
Water Temp. (°C):	7.0	**Method Temperature:**	TC
Turb. (cm):	200	**Method Turbidity:**	GE
Cond. (µmhos):	20	**Method Conductivity:**	CM

Stream/Valley Cross-Section

Fish Summary

Species	Number	Size Range (mm)	Life Phase	Use 1	Use 2	Use 3	Method/Reference
CT	5	65-121	J	R			EL
DV	2	103-117	J	R			EL

Obstructions

Comments

C1 Electrofished 85 m length of stream for 900 s. with a lower net. CT and DV were caught (photo A7/17). Difficult to retrieve or even see fish in the fast water; most of the fish were on the lower net. 4 fish were observed but not captured.

C2 Very steep, confined section with numerous drops (up to 50 cm high) over debris jams. Some evidence of unstable banks.

C3 Cobble bed material with limited pockets of trout spawning habitat.

C4 Hiked up the mainstem from Ta10 confluence: large unstable banks on R. right at 500 m, 530 m, and 600 m; gradient increases to 12-13% at 800 m; at 1000 m, culvert crossing is present at the road and was sampled (see Site 7); DV were caught.

C5 Classed as S3 habitat in R6 u/s to the road culvert.

DFO/MoELP Stream Survey Form

10-Feb-98 **Stream:** TAGIT C. **Watershed Code:** 460-6006-445-000-000-000-000-000-000-000-000-000

Stream Survey Report

Header Information

Stream Name: TAGIT C. **Stream "Local":** TAGIT C.

Watershed Code: 460-6006-445-000-000-000-000-000-000-000-000-000

Location: JUST D/S FROM ROAD CROSSING AT BLOCKS 626 #1 AND #2. **Map #:** 093L024 **U.T.M.:** 9.6148 .60066

Date: 01/07/97 **Time:** 11:00 **Agency:** C87 **Survey Crew:** RD \CP \IF \ \ \ \ \ \

Reach No.: 6 **Site No.:** 7 **Fish Card:** N **Photos:** A8/1-3

Access: V2 **Reach Length (km):** 2.4 **Method:** MW **Length surveyed (m):** 100.0 **Method:** HC **Field:** Yes **Historical:** No **Air Photos:** BCB 91179:213

Channel Characteristics

				Specific Data					
Av. Chan. Width (m):	4.3	**Method Av. Chan. Width (m):**	T	8.3	2.7	3.3	4.6	2.6	4.3
Av. Wet. Width (m):	2.7	**Method Av. Wet. Width (m):**	T	3.8	2.7	2.0	3.5	2.6	1.8
Av. Max. Rif. Depth (cm):	36	**Av. Max. Riffle Depth (cm):**	MS	30	41	37			
Av. Max. Pool Depth (cm):	10	**Av. Max. Pool Depth (cm):**	36	8	11	10			
Gradient (%):	11.0	**Method Gradient:**	CL						

% Pool: 25 **% Riffle:** 70 **% Run:** 5 **% Other:** 0 **Method:** GE

% Side Channel: 0-10 **Method Side Channel:** GE

% Debris Area: 10-40 **Method Debris Area:** GE

Cover

Cover Total % : 50 **Method Cover Total %:** GE

Dp Pool : 20 **L.O.D.:** 15 **Boulder:** 60 **In Veg.:** 0 **Over Veg:** 0 **Cutbank:** 5

Crown Closure % : 10 **Method Crown Closure:** GE **Aspect :** SE **Method Aspect:** MW

Discharge

				Specific Data
Wetted Width (m) :		**Method Wetted Width (m) :**		
Mean Depth (m) :		**Method Mean Depth (m) :**		
Mean Velocity (m/s) :		**Method Mean Velocity (m/s**	VO	
Discharge (m3/s) :	0.28	**Method Discharge (m3/s) :**		

Reach Symbol

(Fish)

DV

4 B 11.0	1270
(Width, Valley: Channel, Slope)	(Bed Material)

Bed Material

% Fines (<2mm):	5	**% Fines (<2mm):**	5
% Gravels:	25	**Small (2-16mm):**	10
		Large (16-64mm):	15
% Larges:	70	**Small cobble (64-128mm):**	25
		Large cobble (128-256mm):	30
		Boulder cobble (>256mm):	15
% Bedrock:	0	**% Bedrock:**	0
D90 (cm):	28	**Compaction:**	Medium

Banks

Height (m):	1.0	**% Unstable:**	0
Textures Fines:	Yes	**Gravel:** No **Larges:** Yes **Bedrock:**	No
Confinement:	3		
Valley: Chan. Ratio:	2		
Stage:	L		
Flood Signs Ht(m):	0.6	**Method Flood Signs:**	MS
Braided:	N	**Method Braided:**	GE
Bars (%):	40	**Method Bars:**	GE
pH:	8.5	**Method pH:**	PH
02 (ppm):		**Method Dissolved Oxygen:**	
Water Temp. (°C):	9.0	**Method Temperature:**	TC
Turb. (cm):	200	**Method Turbidity:**	GE
Cond. (µmhos):	20	**Method Conductivity:**	CM

DFO/MoELP Stream Survey Form

10-Feb-98 **Stream:** TAGIT C. **Watershed Code:** 460-6006-445-000-000-000-000-000-000-000-000-000

Stream Survey Report

Stream/Valley Cross-Section

Fish Summary

Species	Number	Size Range (mm)	Life Phase	Use 1	Use 2	Use 3	Method/Reference
DV	6	106-145	J	R			EL

Obstructions

Obstruction Ht(m)	Type	Location
	CV	

Comments

C1 Electrofished 100 m length of stream for 950 s. with a lower net. DV were caught. Also sampled 20 m above the culvert; no fish were caught/observed in this section.

C2 Problem culvert: 1.8 m diameter x 12.2 m length with a 10% gradient (photo A8/3). Similar habitat above the road as below; suspect culvert is acting as a migration barrier.

C3 Dynamic creek with and abundance of log stepping and pools. Boulder/cobble bed material.

C4 Hiked u/s from culvert for 200 m: gradient is 10-13%; a large, unstable bank is present on R. right at 160 m. Surveyed upper extent of fish use by air: potential fish use up to impassable chutes and creek is classed as S3 up to these barriers.

DFO/MoELP Stream Survey Form

29-May-98 **Stream:** TAGIT C. **Watershed Code:** 460-6006-445-000-000-000-000-000-000-000-000-000

Stream Survey Report

Header Information

Stream Name:	TAGIT C.	**Stream "Local":**	TAGIT C.			**Access:**	H
Watershed Code:	460-6006-445-000-000-000-000-000-000-000-000-000			**Reach No.:**	7	**Reach Length (km):** 1.0 **Method:**	MW
Location:	U/S FROM ROAD, TOP OF R7; ~800 m U/S FROM HEADWATER LAKE.	**Map #:**	093L024	**Site No.:**	8	**Length surveyed (m):** 100.0 **Method:**	HC
		U.T.M.:	9.6148 . 60066	**Fish Card:**	N	**Field:** Yes **Historical:**	No
Date: 03/07/97 **Time:** 15:00 **Agency:** C87		**Survey Crew:** DB \CP\ \ \ \ \ \ \		**Photos:**	B2/11, 12	**Air Photos:**	BCB 91179:215

Channel Characteristics

				Specific Data					
Av. Chan. Width (m):	1.1	**Method Av. Chan. Width (m):**	T	1.2	1.0	0.8	1.1	1.2	1.3
Av. Wet. Width (m):	1.1	**Method Av. Wet. Width (m):**	T	1.2	1.0	0.8	1.1	0.9	1.3
Av. Max. Rif. Depth (cm):	11	**Av. Max. Riffle Depth (cm):**	MS	10	8	15			
Av. Max. Pool Depth (cm):	21	**Av. Max. Pool Depth (cm):**	11	17	21	22	24		
Gradient (%):	9.0	**Method Gradient:**	CL						
% Pool: 25	**% Riffle:** 75	**% Run:** 0	**% Other:** 0	**Method:** GE					
% Side Channel:	0	**Method Side Channel:**	GE						
% Debris Area:	10-40	**Method Debris Area:**	GE						

Cover

Cover Total % :	90	**Method Cover Total %:**	GE						
Dp Pool : 20	**L.O.D.:** 20	**Boulder:** 50	**In Veg.:** 0	**Over Veg:** 0	**Cutbank:**	10			
Crown Closure % :	5	**Method Crown Closure:**	GE	**Aspect :** E	**Method Aspect:**	MW			

Discharge

				Specific Data
Wetted Width (m) :		**Method Wetted Width (m) :**		
Mean Depth (m) :		**Method Mean Depth (m) :**		
Mean Velocity (m/s) :		**Method Mean Velocity (m/s**	VO	
Discharge (m3/s) :	0.07	**Method Discharge (m3/s) :**		

Reach Symbol

(Fish)

NF

1 A 9.0	1180
(Width, Valley: Channel, Slope)	(Bed Material)

Bed Material

% Fines (<2mm):	5	**% Fines (<2mm):**	5
% Gravels:	15	**Small (2-16mm):**	5
		Large (16-64mm):	10
% Larges:	80	**Small cobble (64-128mm):**	20
		Large cobble (128-256mm):	35
		Boulder cobble (>256mm):	25
% Bedrock:	0	**% Bedrock:**	0
D90 (cm):	30	**Compaction:**	Medium

Banks

Height (m):	0.3	**% Unstable:**	5
Textures Fines:	Yes	**Gravel:** No **Larges:** Yes **Bedrock:**	No
Confinement:	2		
Valley: Chan. Ratio:	1		
Stage:	M		
Flood Signs Ht(m):	0.2	**Method Flood Signs:**	MS
Braided:	N	**Method Braided:**	GE
Bars (%):	0	**Method Bars:**	GE
pH:		**Method pH:**	
02 (ppm):		**Method Dissolved Oxygen:**	
Water Temp. (°C):	16.0	**Method Temperature:**	TC
Turb. (cm):	200	**Method Turbidity:**	GE
Cond. (µmhos):	30	**Method Conductivity:**	CM

DFO/MoELP Stream Survey Form

29-May-98 **Stream:** TAGIT C. **Watershed Code:** 460-6006-445-000-000-000-000-000-000-000-000-000

Stream Survey Report

Stream/Valley Cross-Section

Fish Summary

Obstructions

Obstruction Ht(m)	Type	Location
2	C	11.6
	C	11.6

Comments

C1 Electrofished 100 m length of stream for 744 s. with no lower net. No fish were caught/observed.

C2 Riffle-pool habitat with boulder bed material. Stable creek - moss-covered instream boulders and banks. Channel is confined with steep sideslopes of 90% and 40%.

C3 2 consecutive chutes are located at the top of setting at bedrock outcrop; the largest chute is 2 m high x 5 m long.

C4 Shallow lake is located u/s of this reach.

C5 R7 and u/s is classed S6 throughout.

DFO/MoELP Stream Survey Form

29-May-98 **Stream:** TAGIT C. TRIBUTARY **Watershed Code:** 460-6006-445-112-000-000-000-000-000-000-000-000

Stream Survey Report

Header Information

Stream Name:	TAGIT C. TRIBUTARY		**Stream "Local":**	Ta1			**Access:**		V2
Watershed Code:	460-6006-445-112-000-000-000-000-000-000-000-000				**Reach No.:**	1	**Reach Length (km):**	1.3 **Method:**	MW
Location:	SAMPLED IN THE VICINITY OF THE ROAD CROSSING.		**Map #:**	093L024	**Site No.:**	9	**Length surveyed (m):**	75.0 **Method:**	HC
			U.T.M. :	9.6150 .60078	**Fish Card:**	Y	**Field:** Yes	**Historical:**	No
Date: 28/05/97	**Time:** 14:00	**Agency:** C87	**Survey Crew:** RD \CP\ \ \ \ \ \ \		**Photos:**	A1/2, 3	**Air Photos:**		BCB 91179:31

Channel Characteristics

					Specific Data				
Av. Chan. Width (m):	3.2	**Method Av. Chan. Width (m):**	T		3.1	2.8	3.9	3.6	2.5
Av. Wet. Width (m):	3.2	**Method Av. Wet. Width (m):**	T		3.1	2.8	3.9	3.6	2.5
Av. Max. Rif. Depth (cm):	30	**Av. Max. Riffle Depth (cm):**	MS		25	35	30		
Av. Max. Pool Depth (cm):	49	**Av. Max. Pool Depth (cm):**	30		45	47	50	54	
Gradient (%):	3.0	**Method Gradient:**	CL						
% Pool: 15	**% Riffle:** 80	**% Run:** 5	**% Other:**	0	**Method:** GE				
% Side Channel:	0-10	**Method Side Channel:**	GE						
% Debris Area:	30	**Method Debris Area:**	GE						

Cover

Cover Total % :	60	**Method Cover Total %:**	GE						
Dp Pool : 30	**L.O.D.:** 30	**Boulder:** 10	**In Veg.:**	20	**Over Veg:**	0	**Cutbank:**		10
Crown Closure % :	20	**Method Crown Closure:**	GE		**Aspect :**	SE	**Method Aspect:**		MW

Discharge

				Specific Data
Wetted Width (m) :		**Method Wetted Width (m) :**		
Mean Depth (m) :		**Method Mean Depth (m) :**		
Mean Velocity (m/s) :		**Method Mean Velocity (m/s**	VO	
Discharge (m3/s) :	0.35	**Method Discharge (m3/s) :**		

Reach Symbol

(Fish)

CT*

3 C 3.0	1540
(Width, Valley: Channel, Slope)	(Bed Material)

Bed Material

% Fines (<2mm):	5	**% Fines (<2mm):**	5
% Gravels:	50	**Small (2-16mm):**	10
		Large (16-64mm):	40
% Larges:	45	**Small cobble (64-128mm):**	40
		Large cobble (128-256mm):	5
		Boulder cobble (>256mm):	0
% Bedrock:	0	**% Bedrock:**	0
D90 (cm):	10	**Compaction:**	Medium

Banks

Height (m):	0.5	**% Unstable:**	0
Textures Fines:	Yes	**Gravel:** Yes **Larges:** No **Bedrock:**	No
Confinement:	4		
Valley: Chan. Ratio:	3		
Stage:	H		
Flood Signs Ht(m):	0.2	**Method Flood Signs:**	MS
Braided:	N	**Method Braided:**	GE
Bars (%):	5	**Method Bars:**	GE
pH:	8.4	**Method pH:**	PH
02 (ppm):		**Method Dissolved Oxygen:**	
Water Temp. (°C):	8.5	**Method Temperature:**	TC
Turb. (cm):	200	**Method Turbidity:**	GE
Cond. (µmhos):	30	**Method Conductivity:**	CM

Stream/Valley Cross-Section

Fish Summary

Species	Number	Size Range (mm)	Life Phase	Use 1	Use 2	Use 3	Method/Reference
CT	41	40-83	J	R			EL
CT	1	28	F	R			EL
CT	2	196-281	A	S			EL

Obstructions

Comments

C1 Electrofished below the road. Small juveniles and 2 adult spawners were caught. The flows were very high during sampling so this section was re-sampled at lower water levels; only fry/small juvenile CT were caught at this time. Suspect adult CT only come up to spawn and larger juv. CT do not rear in the creek but drop out due to extremely low flows in mid-summer.

C2 Water is tannic in colour.

C3 Sections of excellent potential spawning for CT/CO/SST.

C4 This reach has some wide sections of marsh with blown out beaver dams.

C5 R1 is classed as S3 habitat.

C6 Tributary Ta1.1 was surveyed: creek was not mapped correctly in the upper end (see O'Dine C. on map). There is no defined channel at the lower road crossing and the 2 culverts along the road are dewatered. U/S at the main haul road, Ta1.1 consists of a seepage trickle with no defined channel; there is a small culvert at the road with a large fill over top. Tributary Ta1.1 is not a fish creek and is classed as S6 habitat.

DFO/MoELP Stream Survey Form

29-May-98 **Stream:** TAGIT C. TRIBUTARY **Watershed Code:** 460-6006-445-112-Tal-.2 -000-000-000-000-000-000

Stream Survey Report

Header Information

Stream Name:	TAGIT C. TRIBUTARY	**Stream "Local":**	Tal.2			**Access:**	FT
Watershed Code:	460-6006-445-112-Tal-.2 -000-000-000-000-000-000			**Reach No.:**	1	**Reach Length (km):** 1.0	**Method:** MW
Location:	INLET TRIBUTARY, LOCATED 100 m U/S FROM BRIDGE ON Tal.	**Map #:**	093L024	**Site No.:**	10	**Length surveyed (m):** 70.0	**Method:** HC
		U.T.M. :	9.6145 .60085	**Fish Card:**	N	**Field:** Yes	**Historical:** No
Date: 28/05/97	**Time:** 14:30	**Agency:** C87	**Survey Crew:** RD \CP\ \ \ \ \ \ \	**Photos:**	A1/4, 5	**Air Photos:**	BCB 91179:31

Channel Characteristics

Av. Chan. Width (m):	0.4	**Method Av. Chan. Width (m):**	T	*Specific Data*	0.4	0.3	0.4	0.5	0.3	0.5
Av. Wet. Width (m):	0.4	**Method Av. Wet. Width (m):**	T		0.4	0.3	0.4	0.5	0.3	0.5
Av. Max. Rif. Depth (cm):	13	**Av. Max. Riffle Depth (cm):**	MS		17	10	12			
Av. Max. Pool Depth (cm):	35	**Av. Max. Pool Depth (cm):**	13		25	30	36	48		
Gradient (%):	3.5	**Method Gradient:**	CL							

% Pool: 10 **% Riffle:** 10 **% Run:** 80 **% Other:** 0 **Method:** GE

% Side Channel: 0-10 **Method Side Channel:** GE

% Debris Area: 75 **Method Debris Area:** GE

Cover

Cover Total % : 70 **Method Cover Total %:** GE

Dp Pool : 10 **L.O.D.:** 40 **Boulder:** 0 **In Veg.:** 0 **Over Veg:** 40 **Cutbank:** 10

Crown Closure % : 60 **Method Crown Closure:** GE **Aspect :** SE **Method Aspect:** MW

Discharge

				Specific Data
Wetted Width (m) :		**Method Wetted Width (m) :**		
Mean Depth (m) :		**Method Mean Depth (m) :**		
Mean Velocity (m/s) :		**Method Mean Velocity (m/s**	VO	
Discharge (m3/s) :	0.02	**Method Discharge (m3/s) :**		

Reach Symbol

(Fish)

NF

0 C 3.5	9100
(Width, Valley: Channel, Slope)	(Bed Material)

Bed Material

% Fines (<2mm):	90	**% Fines (<2mm):**	90
% Gravels:	10	**Small (2-16mm):**	10
		Large (16-64mm):	0
% Larges:	0	**Small cobble (64-128mm):**	0
		Large cobble (128-256mm):	0
		Boulder cobble (>256mm):	0
% Bedrock:	0	**% Bedrock:**	0
D90 (cm):		**Compaction:**	High

Banks

Height (m):	0.9	**% Unstable:**	0
Textures Fines:	Yes	**Gravel:** No **Larges:** No **Bedrock:**	No
Confinement:	4		
Valley: Chan. Ratio:	3		
Stage:	H		
Flood Signs Ht(m):	0.1	**Method Flood Signs:**	MS
Braided:	N	**Method Braided:**	GE
Bars (%):	0	**Method Bars:**	GE
pH:	8.4	**Method pH:**	PH
02 (ppm):		**Method Dissolved Oxygen:**	
Water Temp. (°C):	14.0	**Method Temperature:**	TC
Turb. (cm):	200	**Method Turbidity:**	GE
Cond. (µmhos):	50	**Method Conductivity:**	CM

DFO/MoELP Stream Survey Form

Stream Survey Report

29-May-98 **Stream:** TAGIT C. TRIBUTARY **Watershed Code:** 460-6006-445-112-Ta1-.2 -000-000-000-000-000-000

Stream/Valley Cross-Section

Fish Summary

Obstructions

Comments

C1	Electrofished 70 m length of stream with no lower net. No fish were caught.
C2	Small channel with mud bottom, abundant instream LOD and dense alder swale lining it. Very small even during this high flow period.
C3	Water temperature is very warm.
C4	Poor access due to numerous small drops; may have some fish use in the lower 10 m of stream to first small drop. Ta1.2 is classed as S6 habitat u/s to where the channel is no longer defined in a seepage bog area , ~600 m u/s.
C5	Assume creek dewaters in the summer.

DFO/MoELP Stream Survey Form

29-May-98 Stream: TAGIT C. TRIBUTARY Watershed Code: 460-6006-445-112-000-000-000-000-000-000-000-000

Stream Survey Report

Header Information

Stream Name:	TAGIT C. TRIBUTARY	**Stream "Local":**	Ta1			**Access:**	FT
Watershed Code:	460-6006-445-112-000-000-000-000-000-000-000-000			**Reach No.:**	2	**Reach Length (km):** 1.1 **Method:**	MW
Location:	LOWER 200 m OF R2; HIKED IN FROM ROAD.	**Map #:**	093L024	**Site No.:**	11	**Length surveyed (m):** 200.0 **Method:**	HC
		U.T.M. :	9.6150 .60078	**Fish Card:**	N	**Field:** Yes **Historical:**	No
Date: 29/05/97	**Time:** 12:30	**Agency:** C87	**Survey Crew:** RD \CP \ \ \ \ \ \	**Photos:**	A1/10, 11	**Air Photos:**	BCB 91179:31

Channel Characteristics

				Specific Data				
Av. Chan. Width (m):	2.8	**Method Av. Chan. Width (m):**	T	3.5	2.1	3.1	2.7	2.4
Av. Wet. Width (m):	2.5	**Method Av. Wet. Width (m):**	T	2.6	2.1	2.9		
Av. Max. Rif. Depth (cm):	25	**Av. Max. Riffle Depth (cm):**	MS	35	20	20		
Av. Max. Pool Depth (cm):	28	**Av. Max. Pool Depth (cm):**	25	25	25	35		
Gradient (%):	4.0	**Method Gradient:**	CL					

% Pool: 20 **% Riffle:** 20 **% Run:** 60 **% Other:** 0 **Method:** GE

% Side Channel:	0-10	**Method Side Channel:**	GE
% Debris Area:	0-10	**Method Debris Area:**	GE

Cover

Cover Total % :	70	**Method Cover Total %:**	GE				
Dp Pool : 10 **L.O.D.:**	20	**Boulder:** 10 **In Veg.:**	0	**Over Veg:**	30	**Cutbank:**	30
Crown Closure % :	75	**Method Crown Closure:**	GE	**Aspect :**	SE	**Method Aspect:**	MW

Discharge

				Specific Data
Wetted Width (m) :		**Method Wetted Width (m) :**		
Mean Depth (m) :		**Method Mean Depth (m) :**		
Mean Velocity (m/s) :		**Method Mean Velocity (m/s**	VO	
Discharge (m3/s) :	0.25	**Method Discharge (m3/s) :**		

Reach Symbol

(Fish)

CT*

3 C 4.0 | 1630

(Width, Valley: Channel, Slope) | (Bed Material)

Bed Material

% Fines (<2mm):	15	**% Fines (<2mm):**	15
% Gravels:	60	**Small (2-16mm):**	25
		Large (16-64mm):	35
% Larges:	25	**Small cobble (64-128mm):**	20
		Large cobble (128-256mm):	5
		Boulder cobble (>256mm):	0
% Bedrock:	0	**% Bedrock:**	0
D90 (cm):	12	**Compaction:**	Medium

Banks

Height (m):	0.8	**% Unstable:**	5
Textures Fines:	Yes	**Gravel:** Yes **Larges:** No **Bedrock:**	No
Confinement:	4		
Valley: Chan. Ratio:	3		
Stage:	H		
Flood Signs Ht(m):	0.2	**Method Flood Signs:**	MS
Braided:	N	**Method Braided:**	GE
Bars (%):	10	**Method Bars:**	GE
pH:	8.1	**Method pH:**	PH
02 (ppm):		**Method Dissolved Oxygen:**	
Water Temp. (°C):	7.5	**Method Temperature:**	TC
Turb. (cm):	200	**Method Turbidity:**	GE
Cond. (µmhos):	30	**Method Conductivity:**	CM

DFO/MoELP Stream Survey Form

Stream Survey Report

10-Feb-98 **Stream:** TAGIT C. TRIBUTARY **Watershed Code:** 460-6006-445-112-000-000-000-000-000-000-000-000

Stream/Valley Cross-Section

Fish Summary

Species	Number	Size Range (mm)	Life Phase	Use 1	Use 2	Use 3	Method/Reference
CT	11	51-58	J	R			EL

Obstructions

Comments

C1 Electrofished 80 m length of stream for 580 s. with no lower net; only small juvenile CT's were caught. Site was difficult to shock due to high flows and heavy alder swale. 6 of the 11 CT were observed but not caught.

C2 Water is slightly tannic in colour.

C3 Sections of good potential CT spawning. Assume CT spawn in this reach.

C4 R2 is slightly more confined with higher sideslope benches along the channel. No evidence of beavers was observed.

C5 R2 is classed as S3 habitat.

DFO/MoELP Stream Survey Form

29-May-98 Stream: TAGIT C. TRIBUTARY Watershed Code: 460-6006-445-112-000-000-000-000-000-000-000-000

Stream Survey Report

Header Information

Stream Name:	TAGIT C. TRIBUTARY	**Stream "Local":**	Ta1			**Access:**		H
Watershed Code:	460-6006-445-112-000-000-000-000-000-000-000-000			**Reach No.:**	3	**Reach Length (km):**	1.4 **Method:**	MW
Location:	BASE OF R3, ~500 m U/S FROM Ta1.3 CONFLUENCE.	**Map #:**	093L024	**Site No.:**	12	**Length surveyed (m):**	100.0 **Method:**	HC
		U.T.M. :	9.6150 .60078	**Fish Card:**	N	**Field:** Yes	**Historical:**	No
Date: 03/07/97	**Time:** 13:00	**Agency:** C87	**Survey Crew:** DB \CP\ \ \ \ \ \ \	**Photos:**	B2/7, 8	**Air Photos:**		BCB 91179:106

Channel Characteristics

				Specific Data					
Av. Chan. Width (m):	1.7	**Method Av. Chan. Width (m):**	T	1.2	1.4	2.2	1.8	1.8	2.0
Av. Wet. Width (m):	1.0	**Method Av. Wet. Width (m):**	T	1.2	1.4	0.9	0.9	0.6	0.8
Av. Max. Rif. Depth (cm):	3	**Av. Max. Riffle Depth (cm):**	MS	2	3	3			
Av. Max. Pool Depth (cm):	7	**Av. Max. Pool Depth (cm):**	3	7	6	9			
Gradient (%):	5.0	**Method Gradient:**	CL						

% Pool: 20 **% Riffle:** 30 **% Run:** 50 **% Other:** 0 **Method:** GE

% Side Channel:	0	**Method Side Channel:**	GE
% Debris Area:	0-10	**Method Debris Area:**	GE

Cover

Cover Total % :	100	**Method Cover Total %:**	GE				
Dp Pool : 0 **L.O.D.:**	0	**Boulder:** 0 **In Veg.:**	0	**Over Veg:**	95	**Cutbank:**	5
Crown Closure % :	98	**Method Crown Closure:**	GE	**Aspect :**	SE	**Method Aspect:**	MW

Discharge

				Specific Data
Wetted Width (m) :		**Method Wetted Width (m) :**		
Mean Depth (m) :		**Method Mean Depth (m) :**		
Mean Velocity (m/s) :		**Method Mean Velocity (m/s**	VO	
Discharge (m3/s) :	0.01	**Method Discharge (m3/s) :**		

Reach Symbol

(Fish)

NF

2 D 5.0	3700
(Width, Valley: Channel, Slope)	(Bed Material)

Bed Material

% Fines (<2mm):	35	**% Fines (<2mm):**	35
% Gravels:	65	**Small (2-16mm):**	55
		Large (16-64mm):	10
% Larges:	0	**Small cobble (64-128mm):**	0
		Large cobble (128-256mm):	0
		Boulder cobble (>256mm):	0
% Bedrock:	0	**% Bedrock:**	0
D90 (cm):	2	**Compaction:**	High

Banks

Height (m):	0.8	**% Unstable:**	0
Textures Fines:	Yes	**Gravel:** No **Larges:** No **Bedrock:**	No
Confinement:	5		
Valley: Chan. Ratio:	4		
Stage:	L		
Flood Signs Ht(m):	0.3	**Method Flood Signs:**	MS
Braided:	N	**Method Braided:**	GE
Bars (%):	10	**Method Bars:**	GE
pH:		**Method pH:**	
02 (ppm):		**Method Dissolved Oxygen:**	
Water Temp. (°C):	10.0	**Method Temperature:**	TC
Turb. (cm):	200	**Method Turbidity:**	GE
Cond. (µmhos):	60	**Method Conductivity:**	CM

DFO/MoELP Stream Survey Form

29-May-98 **Stream:** TAGIT C. TRIBUTARY **Watershed Code:** 460-6006-445-112-000-000-000-000-000-000-000-000

Stream Survey Report

Stream/Valley Cross-Section

Fish Summary

Obstructions

Obstruction Ht(m)	Type	Location
	BD	2.7
	BD	3.3

Comments

C1 Electrofished 100 m length of stream for 350 s. with no lower net. No fish were caught/observed.

C2 Upper R3 is steeper with more boulder/cobble habitat. Further d/s some BD's are present which may restrict fish access. Suspect subsurface flow in swamp area in lower R3.

C3 Assumed class S3 habitat u/s to the top of R2 and class S6 habitat u/s in R3.

DFO/MoELP Stream Survey Form

29-May-98 **Stream:** TAGIT C. TRIBUTARY **Watershed Code:** 460-6006-445-112-000-000-000-000-000-000-000-000

Stream Survey Report

Header Information

Stream Name:	TAGIT C. TRIBUTARY	**Stream "Local":**	Ta1			**Access:**	H
Watershed Code:	460-6006-445-112-000-000-000-000-000-000-000-000			**Reach No.:**	4	**Reach Length (km):** 0.8	**Method:** MW
Location:	LOCATED AT TRIBUTARY Ta1.4 MOUTH.	**Map #:**	093L024	**Site No.:**	13	**Length surveyed (m):** 100.0	**Method:** HC
		U.T.M. :	9.6150 .60078	**Fish Card:**	N	**Field:** Yes	**Historical:** No
Date: 03/07/97	**Time:** 12:00	**Agency:** C87	**Survey Crew:** DB \CP\ \ \ \ \ \ \	**Photos:**	B2/5, 6	**Air Photos:**	BCB 91179:106

Channel Characteristics

				Specific Data					
Av. Chan. Width (m):	2.3	**Method Av. Chan. Width (m):**	T	3.2	2.0	2.0	2.1	2.0	2.4
Av. Wet. Width (m):	1.8	**Method Av. Wet. Width (m):**	T	1.8	1.8	1.9	1.8	2.0	1.3
Av. Max. Rif. Depth (cm):	6	**Av. Max. Riffle Depth (cm):**	MS	7	7	3			
Av. Max. Pool Depth (cm):	16	**Av. Max. Pool Depth (cm):**	6	17	18	13			
Gradient (%):	4.0	**Method Gradient:**	CL						

% Pool: 20 **% Riffle:** 30 **% Run:** 50 **% Other:** 0 **Method:** GE

% Side Channel: 0 **Method Side Channel:** GE

% Debris Area: >40 **Method Debris Area:** GE

Cover

Cover Total % : 50 **Method Cover Total %:** GE

Dp Pool : 0 **L.O.D.:** 40 **Boulder:** 10 **In Veg.:** 0 **Over Veg:** 20 **Cutbank:** 30

Crown Closure % : 50 **Method Crown Closure:** GE **Aspect :** SE **Method Aspect:** MW

Discharge

				Specific Data
Wetted Width (m) :		**Method Wetted Width (m) :**		
Mean Depth (m) :		**Method Mean Depth (m) :**		
Mean Velocity (m/s) :		**Method Mean Velocity (m/s**	VO	
Discharge (m3/s) :	0.03	**Method Discharge (m3/s) :**		

Reach Symbol

(Fish)

NF

2 D 4.0	1630
(Width, Valley: Channel, Slope)	(Bed Material)

Bed Material

% Fines (<2mm):	10	**% Fines (<2mm):**	10
% Gravels:	60	**Small (2-16mm):**	15
		Large (16-64mm):	45
% Larges:	30	**Small cobble (64-128mm):**	30
		Large cobble (128-256mm):	0
		Boulder cobble (>256mm):	0
% Bedrock:	0	**% Bedrock:**	0
D90 (cm):	9	**Compaction:**	Medium

Banks

Height (m):	0.9	**% Unstable:**	0
Textures Fines:	Yes	**Gravel:** No **Larges:** No **Bedrock:**	No
Confinement:	5		
Valley: Chan. Ratio:	4		
Stage:	L		
Flood Signs Ht(m):	0.3	**Method Flood Signs:**	MS
Braided:	N	**Method Braided:**	GE
Bars (%):	25	**Method Bars:**	GE
pH:		**Method pH:**	
02 (ppm):		**Method Dissolved Oxygen:**	
Water Temp. (°C):	8.5	**Method Temperature:**	TC
Turb. (cm):	200	**Method Turbidity:**	GE
Cond. (µmhos):	60	**Method Conductivity:**	CM

DFO/MoELP Stream Survey Form

Stream Survey Report

29-May-98 **Stream:** TAGIT C. TRIBUTARY **Watershed Code:** 460-6006-445-112-000-000-000-000-000-000-000-000

Stream/Valley Cross-Section

Fish Summary

Obstructions

Obstruction Ht(m)	Type	Location
	BD	2.7
	BD	3.3

Comments

C1 Electrofished 100 m length of stream for 555 s. with no lower net. No fish were caught/observed.

C2 Stable creek (moss-covered banks) with potential to move small debris. Evidence of high flows - pile ups of small debris, gravel bars. Abundant LOD within channel.

C3 Proposed culvert/road crossing is located at the top of the sample site; crossing appears to be suitable.

C4 Generally nice fish habitat; suspect creek dewaters, is too small for overwintering, or BD d/s is restricting fish access.

C5 Upper R4 appears to be incorrectly mapped; most of the flow enters O'Dine C. drainage (see map).

C6 Tributary Ta1.4 was surveyed; there is no defined channel and there is no fish habitat present. An aquatic shrew was observed at the site.

DFO/MoELP Stream Survey Form

Stream Survey Report

29-May-98 Stream: TAGIT C. TRIBUTARY Watershed Code: 460-6006-445-Ta3-000-000-000-000-000-000-000-000

Header Information

Stream Name:	TAGIT C. TRIBUTARY	**Stream "Local":**	Ta3			**Access:**	FT
Watershed Code:	460-6006-445-Ta3-000-000-000-000-000-000-000-000			**Reach No.:**	1	**Reach Length (km):** 0.2 **Method:**	MW
Location:	SURVEYED FROM LAKE U/S TO THE END OF R1.	**Map #:**	093L024	**Site No.:**	14	**Length surveyed (m):** 160.0 **Method:**	HC
		U.T.M.:	9.6173 .60083	**Fish Card:**	N	**Field:** Yes **Historical:**	No
Date: 30/05/97	**Time:** 14:15	**Agency:** C87	**Survey Crew:** RD \CP\ \ \ \ \ \ \	**Photos:**	A1/25; A2/1	**Air Photos:**	BCB 91179:33

Channel Characteristics

				Specific Data				
Av. Chan. Width (m):	1.1	**Method Av. Chan. Width (m):**	T	1.1	0.9	1.4	1.2	1.0
Av. Wet. Width (m):	1.1	**Method Av. Wet. Width (m):**	T	1.1	0.9	1.4	1.2	1.0
Av. Max. Rif. Depth (cm):	12	**Av. Max. Riffle Depth (cm):**	MS					
Av. Max. Pool Depth (cm):	35	**Av. Max. Pool Depth (cm):**	12					
Gradient (%):	2.0	**Method Gradient:**	CL					
% Pool: 0	**% Riffle:** 0	**% Run:** 0	**% Other:** 100	**Method:** GE				
% Side Channel:	0-10	**Method Side Channel:**	GE					
% Debris Area:	0-10	**Method Debris Area:**	GE					

Cover

Cover Total % :	70	**Method Cover Total %:**	GE						
Dp Pool : 60	**L.O.D.:** 20	**Boulder:** 10	**In Veg.:** 5	**Over Veg:**	0	**Cutbank:**	5		
Crown Closure % :	5	**Method Crown Closure:**	GE	**Aspect :**	W	**Method Aspect:**	MW		

Discharge

				Specific Data
Wetted Width (m) :		**Method Wetted Width (m) :**		
Mean Depth (m) :		**Method Mean Depth (m) :**		
Mean Velocity (m/s) :		**Method Mean Velocity (m/s**	VO	
Discharge (m3/s) :	0.08	**Method Discharge (m3/s) :**		

Reach Symbol

(Fish)

SP(CT)

1 D 2.0	4510
(Width, Valley: Channel, Slope)	(Bed Material)

Bed Material

% Fines (<2mm):	40	**% Fines (<2mm):**	40
% Gravels:	50	**Small (2-16mm):**	30
		Large (16-64mm):	20
% Larges:	10	**Small cobble (64-128mm):**	10
		Large cobble (128-256mm):	0
		Boulder cobble (>256mm):	0
% Bedrock:	0	**% Bedrock:**	0
D90 (cm):	7	**Compaction:**	High

Banks

Height (m):	1.0	**% Unstable:**	0
Textures Fines:	Yes	**Gravel:** Yes **Larges:** No **Bedrock:**	No
Confinement:	5		
Valley: Chan. Ratio:	4		
Stage:	H		
Flood Signs Ht(m):	0.2	**Method Flood Signs:**	MS
Braided:	N	**Method Braided:**	GE
Bars (%):	0	**Method Bars:**	GE
pH:	7.8	**Method pH:**	PH
02 (ppm):		**Method Dissolved Oxygen:**	
Water Temp. (°C):	11.5	**Method Temperature:**	TC
Turb. (cm):	200	**Method Turbidity:**	GE
Cond. (µmhos):	30	**Method Conductivity:**	CM

DFO/MoELP Stream Survey Form

29-May-98 **Stream:** TAGIT C. TRIBUTARY **Watershed Code:** 460-6006-445-Ta3-000-000-000-000-000-000-000-000

Stream Survey Report

Stream/Valley Cross-Section

Fish Summary

Species	Number	Size Range (mm)	Life Phase	Use 1	Use 2	Use 3	Method/Reference
TR	2		J	R			VO

Obstructions

Obstruction Ht(m)	Type	Location
1	BD	0.0

Comments

C1 There is no sample site in R1. During the survey, 2 juvenile trout were visually observed at the base of the BD in R1; they are suspected to be CT.

C2 Water is tannic in colour.

C3 The BD is located 30 m u/s from the mouth; there is easy fish access up to this point. Further u/s to 110 m, the creek consists of a sand/silt-bedded pond. Some riffle with potential trout spawning is located between 110 m and 130 m. At 130 m there is a 0.5 m high drop over debris and the R1 reach break is located at 160 m.

C4 R2 is steeper and more confined than R1 with larger bed material.

C5 R1 is classed as S4 habitat and R2 is classed as S4 habitat in the lower 100 m.

DFO/MoELP Stream Survey Form

29-May-98 **Stream:** TAGIT C. TRIBUTARY **Watershed Code:** 460-6006-445-Ta3-000-000-000-000-000-000-000-000

Stream Survey Report

Header Information

Stream Name:	TAGIT C. TRIBUTARY	**Stream "Local":**	Ta3			**Access:**	FT
Watershed Code:	460-6006-445-Ta3-000-000-000-000-000-000-000-000			**Reach No.:**	2	**Reach Length (km):** 0.3 **Method:**	MW
Location:	~400 m U/S FROM LAKE INLET; HIKED IN FROM BLOCK 620 #4.	**Map #:**	093L025	**Site No.:**	15	**Length surveyed (m):** 250.0 **Method:**	HC
		U.T.M. :	9.6173 .60083	**Fish Card:**	N	**Field:** Yes **Historical:**	No
Date: 30/05/97	**Time:** 13:40	**Agency:** C87	**Survey Crew:** RD \CP\ \ \ \ \ \ \	**Photos:**	A1/23, 24	**Air Photos:**	BCB 91179:33

Channel Characteristics

				Specific Data				
Av. Chan. Width (m):	1.1	**Method Av. Chan. Width (m):**	T	1.0	1.3	1.2	0.9	1.1
Av. Wet. Width (m):	1.1	**Method Av. Wet. Width (m):**	T	1.0	1.3	1.2	0.9	1.1
Av. Max. Rif. Depth (cm):	11	**Av. Max. Riffle Depth (cm):**	MS	12	15	7		
Av. Max. Pool Depth (cm):	21	**Av. Max. Pool Depth (cm):**	11	25	18	21		
Gradient (%):	7.0	**Method Gradient:**	CL					

% Pool: 10 **% Riffle:** 70 **% Run:** 20 **% Other:** 0 **Method:** GE

% Side Channel: 0 **Method Side Channel:** GE

% Debris Area: 20 **Method Debris Area:** GE

Cover

Cover Total % : 90 **Method Cover Total %:** GE

Dp Pool : 15 **L.O.D.:** 5 **Boulder:** 40 **In Veg.:** 0 **Over Veg:** 30 **Cutbank:** 10

Crown Closure % : 40 **Method Crown Closure:** GE **Aspect :** W **Method Aspect:** MW

Discharge

				Specific Data
Wetted Width (m) :		**Method Wetted Width (m) :**		
Mean Depth (m) :		**Method Mean Depth (m) :**		
Mean Velocity (m/s) :		**Method Mean Velocity (m/s**	VO	
Discharge (m3/s) :	0.10	**Method Discharge (m3/s) :**		

Reach Symbol

(Fish)

NF

1 B 7.0	1450
(Width, Valley: Channel, Slope)	(Bed Material)

Bed Material

% Fines (<2mm):	15	**% Fines (<2mm):**	15
% Gravels:	40	**Small (2-16mm):**	15
		Large (16-64mm):	25
% Larges:	45	**Small cobble (64-128mm):**	30
		Large cobble (128-256mm):	10
		Boulder cobble (>256mm):	5
% Bedrock:	0	**% Bedrock:**	0
D90 (cm):	20	**Compaction:**	Low

Banks

Height (m):	0.6	**% Unstable:**	5
Textures Fines:	Yes	**Gravel:** No **Larges:** No **Bedrock:**	No
Confinement:	3		
Valley: Chan. Ratio:	2		
Stage:	H		
Flood Signs Ht(m):	0.2	**Method Flood Signs:**	MS
Braided:	N	**Method Braided:**	GE
Bars (%):	0	**Method Bars:**	GE
pH:	7.8	**Method pH:**	PH
02 (ppm):		**Method Dissolved Oxygen:**	
Water Temp. (°C):	11.0	**Method Temperature:**	TC
Turb. (cm):	200	**Method Turbidity:**	GE
Cond. (µmhos):	30	**Method Conductivity:**	CM

Stream/Valley Cross-Section

Fish Summary

Obstructions

Comments

C1	Electrofished 109 m length of stream for 547 s. No fish were caught/observed.
C2	Water is tannic in colour.
C3	Fish distribution limit is located 100 m u/s in R2: boulder/riffle with very poor spawning potential. In the lower 100 m of R2, stable channel is confined within 5-8 m high gully walls; pockets of potential spawning are present within the mainly boulder/cobble bed material.
C4	The lower 100 m of R2 is classed as S4 habitat; u/s of 100 m is classed as S6 habitat.
C5	R3 was surveyed and consists of low gradient deep run habitat flowing through a meadow. Bed material is sand/silt - no spawning potential.

DFO/MoELP Stream Survey Form

29-May-98 **Stream:** TAGIT C. TRIBUTARY **Watershed Code:** 460-6006-445-Ta4-000-000-000-000-000-000-000-000

Stream Survey Report

Header Information

Stream Name:	TAGIT C. TRIBUTARY	**Stream "Local":**	Ta4			**Access:**	H
Watershed Code:	460-6006-445-Ta4-000-000-000-000-000-000-000-000			**Reach No.:**	1	**Reach Length (km):** 1.0 **Method:**	MW
Location:	~1000 m U/S FROM CHISHOLM LAKE INLET.	**Map #:**	093L025	**Site No.:**	16	**Length surveyed (m):** 200.0 **Method:**	HC
		U.T.M.:	9.6169 .60086	**Fish Card:**	N	**Field:** Yes **Historical:**	No
Date: 03/07/97	**Time:** 16:30	**Agency:** C87	**Survey Crew:** DB \CP\ \ \ \ \ \ \	**Photos:**	B2/13, 14	**Air Photos:**	BCB 91179:33

Channel Characteristics

				Specific Data					
Av. Chan. Width (m):	2.0	**Method Av. Chan. Width (m):**	T	2.7	1.1	1.5	2.1	1.4	3.1
Av. Wet. Width (m):	0.5	**Method Av. Wet. Width (m):**	T	0.3	0.4	0.7	0.4	0.8	0.5
Av. Max. Rif. Depth (cm):	4	**Av. Max. Riffle Depth (cm):**	MS	4	4	5			
Av. Max. Pool Depth (cm):	10	**Av. Max. Pool Depth (cm):**	4	12	8	10			
Gradient (%):	6.0	**Method Gradient:**	CL						

% Pool: 35 **% Riffle:** 45 **% Run:** 20 **% Other:** 0 **Method:** GE

% Side Channel:	0-10	**Method Side Channel:**	GE
% Debris Area:	10-40	**Method Debris Area:**	GE

Cover

Cover Total % :	75	**Method Cover Total %:**	GE						
Dp Pool :	0	**L.O.D.:**	15	**Boulder:**	15	**In Veg.:**	0	**Over Veg:**	65
Cutbank:	5	**Crown Closure % :**	75	**Method Crown Closure:**	GE	**Aspect :**	W	**Method Aspect:**	MW

Discharge

				Specific Data
Wetted Width (m) :		**Method Wetted Width (m) :**		
Mean Depth (m) :		**Method Mean Depth (m) :**		
Mean Velocity (m/s) :		**Method Mean Velocity (m/s**	VO	
Discharge (m3/s) :	0.01	**Method Discharge (m3/s) :**		

Reach Symbol

(Fish)

NF

2 D 6.0	1270
(Width, Valley: Channel, Slope)	(Bed Material)

Bed Material

% Fines (<2mm):	5	**% Fines (<2mm):**	5
% Gravels:	20	**Small (2-16mm):**	5
		Large (16-64mm):	15
% Larges:	75	**Small cobble (64-128mm):**	30
		Large cobble (128-256mm):	35
		Boulder cobble (>256mm):	10
% Bedrock:	0	**% Bedrock:**	0
D90 (cm):	25	**Compaction:**	Medium

Banks

Height (m):	0.8	**% Unstable:**	0
Textures Fines:	No	**Gravel:** No **Larges:** Yes **Bedrock:**	No
Confinement:	5		
Valley: Chan. Ratio:	4		
Stage:	L		
Flood Signs Ht(m):	0.25	**Method Flood Signs:**	MS
Braided:	N	**Method Braided:**	GE
Bars (%):	80	**Method Bars:**	GE
pH:		**Method pH:**	
02 (ppm):		**Method Dissolved Oxygen:**	
Water Temp. (°C):	8.0	**Method Temperature:**	TC
Turb. (cm):	200	**Method Turbidity:**	GE
Cond. (µmhos):	5	**Method Conductivity:**	CM

DFO/MoELP Stream Survey Form

Stream Survey Report

29-May-98 **Stream:** TAGIT C. TRIBUTARY **Watershed Code:** 460-6006-445-Ta4-000-000-000-000-000-000-000-000

Stream/Valley Cross-Section

Fish Summary

Obstructions

Comments

C1	Electrofished 85 m length of stream for 255 s. with no lower net. No fish were caught/observed. Apparently barren. Fry were found d/s; they may use the lower section of creek for spawning, but during the lake observations it was reported that there is very poor spawning potential in lower R1.
C2	Hiked d/s from meadow at Ta4.1; the confluence with Ta4 was not observed. Suspect main flow for lower Ta4 originates from Ta4.1.
C3	Evidence of high flows during freshet based on the gravel bars and sections of piled up small debris.
C4	Just u/s from sample site the creek is dewatered; suspect only seasonally wetted.
C5	Ta4 is classed as S3 u/s to 700 m in R1; u/s of 700 m is classed as S6.
C6	Heavy alder swales line the channel and made it difficult to shock this section of creek.

DFO/MoELP Stream Survey Form

29-May-98 **Stream:** TAGIT C. TRIBUTARY **Watershed Code:** 460-6006-445-Ta4-000-000-000-000-000-000-000-000

Stream Survey Report

Header Information

Stream Name:	TAGIT C. TRIBUTARY	**Stream "Local":**	Ta4			**Access:**	V2
Watershed Code:	460-6006-445-Ta4-000-000-000-000-000-000-000-000			**Reach No.:**	2	**Reach Length (km):** 2.6 **Method:**	MW
Location:	U/S INLET TO SWAMP.	**Map #:**	093L025	**Site No.:**	17	**Length surveyed (m):** 100.0 **Method:**	HC
		U.T.M. :	9.6169 .60086	**Fish Card:**	N	**Field:** Yes **Historical:**	No
Date: 04/06/97	**Time:** 16:00	**Agency:** C87	**Survey Crew:** CP \RD \ \ \ \ \ \	**Photos:**	A2/8, 9	**Air Photos:**	BCB 91179:109

Channel Characteristics

				Specific Data				
Av. Chan. Width (m):	1.2	**Method Av. Chan. Width (m):**	T	1.2	2.1	1.7	0.4	0.8
Av. Wet. Width (m):	1.2	**Method Av. Wet. Width (m):**	T	1.2	2.1	1.7	0.4	0.8
Av. Max. Rif. Depth (cm):	7	**Av. Max. Riffle Depth (cm):**	MS					
Av. Max. Pool Depth (cm):	24	**Av. Max. Pool Depth (cm):**	7	20	25	28		
Gradient (%):	4.5	**Method Gradient:**	CL					

% Pool: 40 **% Riffle:** 20 **% Run:** 40 **% Other:** 0 **Method:** GE

% Side Channel:	0	**Method Side Channel:**	GE
% Debris Area:	>40	**Method Debris Area:**	HC

Cover

Cover Total % :	30	**Method Cover Total %:**	GE						
Dp Pool :	20	**L.O.D.:**	40	**Boulder:** 0	**In Veg.:**	0	**Over Veg:**	40	**Cutbank:** 0
Crown Closure % :	30	**Method Crown Closure:**	GE	**Aspect :**	SW	**Method Aspect:**	MW		

Discharge

				Specific Data
Wetted Width (m) :		**Method Wetted Width (m) :**		
Mean Depth (m) :		**Method Mean Depth (m) :**		
Mean Velocity (m/s) :		**Method Mean Velocity (m/s**	VO	
Discharge (m3/s) :	0.01	**Method Discharge (m3/s) :**		

Reach Symbol

(Fish)

NF

1 B 4.5 | F

(Width, Valley: Channel, Slope) | (Bed Material)

Bed Material

% Fines (<2mm):	100	**% Fines (<2mm):**	100
% Gravels:	0	**Small (2-16mm):**	0
		Large (16-64mm):	0
% Larges:	0	**Small cobble (64-128mm):**	0
		Large cobble (128-256mm):	0
		Boulder cobble (>256mm):	0
% Bedrock:	0	**% Bedrock:**	0
D90 (cm):		**Compaction:**	High

Banks

Height (m):	0.6	**% Unstable:**	0				
Textures Fines:	Yes	**Gravel:**	No	**Larges:**	No	**Bedrock:**	No
Confinement:	3						
Valley: Chan. Ratio:	2						
Stage:	H						
Flood Signs Ht(m):	0.2	**Method Flood Signs:**	MS				
Braided:	N	**Method Braided:**	GE				
Bars (%):	0	**Method Bars:**	GE				
pH:	8.2	**Method pH:**	PH				
02 (ppm):		**Method Dissolved Oxygen:**					
Water Temp. (°C):	12.0	**Method Temperature:**	TC				
Turb. (cm):	200	**Method Turbidity:**	GE				
Cond. (µmhos):	30	**Method Conductivity:**	CM				

DFO/MoELP Stream Survey Form

29-May-98 **Stream:** TAGIT C. TRIBUTARY **Watershed Code:** 460-6006-445-Ta4-000-000-000-000-000-000-000-000

Stream Survey Report

Stream/Valley Cross-Section

Fish Summary

Obstructions

Obstruction Ht(m)	Type	Location
1	BD	

Comments

C1 Electrofished 30 m length of stream of inlet to swamp; no fish were caught/observed. Set 11 traps in pond for 24 h. period; no fish were caught.

C2 Water is tannic in colour. Air Temp.: 16.5 C

C3 Several BD's up to 1 m high are present in this reach. Bed material is sand/silt; there is no spawning potential.

C4 Birds nesting in ponded area.

C5 R2 is classed as S6 habitat.

DFO/MoELP Stream Survey Form

29-May-98 **Stream:** TAGIT C. TRIBUTARY **Watershed Code:** 460-6006-445-389-000-000-000-000-000-000-000-000

Stream Survey Report

Header Information

Stream Name:	TAGIT C. TRIBUTARY	**Stream "Local":**	Ta7			**Access:**			V2
Watershed Code:	460-6006-445-389-000-000-000-000-000-000-000-000			**Reach No.:**	1	**Reach Length (km):**	0.3	**Method:**	MW
Location:	SAMPLED BELOW ROAD CULVERT.	**Map #:**	093L024	**Site No.:**	18	**Length surveyed (m):**	100.0	**Method:**	HC
		U.T.M. :	9.6149 .60098	**Fish Card:**	N	**Field:**	Yes	**Historical:**	No
Date: 29/05/97	**Time:** 14:00	**Agency:** C87	**Survey Crew:** CP \RD \ \ \ \ \ \ \	**Photos:**	A1/12, 13	**Air Photos:**			BCB 91179:106

Channel Characteristics

Av. Chan. Width (m):	1.6	**Method Av. Chan. Width (m):**	T	*Specific Data*	1.9	1.1	1.6	1.8	1.5	1.9
Av. Wet. Width (m):	1.6	**Method Av. Wet. Width (m):**	T		1.9	1.1	1.6	1.8	1.5	1.9
Av. Max. Rif. Depth (cm):	20	**Av. Max. Riffle Depth (cm):**	MS		20	15	25			
Av. Max. Pool Depth (cm):	48	**Av. Max. Pool Depth (cm):**	20		40	45	60			
Gradient (%):	5.0	**Method Gradient:**	CL							

% Pool: 20 **% Riffle:** 70 **% Run:** 10 **% Other:** 0 **Method:** GE

% Side Channel: 0 **Method Side Channel:** GE

% Debris Area: 15 **Method Debris Area:** GE

Cover

Cover Total % : 75 **Method Cover Total %:** GE

Dp Pool : 20 **L.O.D.:** 35 **Boulder:** 10 **In Veg.:** 0 **Over Veg:** 20 **Cutbank:** 15

Crown Closure % : 40 **Method Crown Closure:** GE **Aspect :** SE **Method Aspect:** MW

Discharge

				Specific Data
Wetted Width (m) :		**Method Wetted Width (m) :**		
Mean Depth (m) :		**Method Mean Depth (m) :**		
Mean Velocity (m/s) :		**Method Mean Velocity (m/s**	VO	
Discharge (m3/s) :	0.14	**Method Discharge (m3/s) :**		

Reach Symbol

(Fish)

CT*

2 A 5.0	3610
(Width, Valley: Channel, Slope)	(Bed Material)

Bed Material

% Fines (<2mm):	35	**% Fines (<2mm):**	35
% Gravels:	55	**Small (2-16mm):**	20
		Large (16-64mm):	35
% Larges:	10	**Small cobble (64-128mm):**	10
		Large cobble (128-256mm):	0
		Boulder cobble (>256mm):	0
% Bedrock:	0	**% Bedrock:**	0
D90 (cm):	8	**Compaction:**	Medium

Banks

Height (m):	0.3	**% Unstable:**	0
Textures Fines:	Yes	**Gravel:** Yes **Larges:** No **Bedrock:**	No
Confinement:	2		
Valley: Chan. Ratio:	1		
Stage:	H		
Flood Signs Ht(m):	0.1	**Method Flood Signs:**	MS
Braided:	N	**Method Braided:**	GE
Bars (%):	0	**Method Bars:**	GE
pH:	8.4	**Method pH:**	PH
02 (ppm):		**Method Dissolved Oxygen:**	
Water Temp. (°C):	6.0	**Method Temperature:**	TC
Turb. (cm):	200	**Method Turbidity:**	GE
Cond. (µmhos):	20	**Method Conductivity:**	CM

DFO/MoELP Stream Survey Form

29-May-98 **Stream:** TAGIT C. TRIBUTARY **Watershed Code:** 460-6006-445-389-000-000-000-000-000-000-000

Stream Survey Report

Stream/Valley Cross-Section

Fish Summary

Species	Number	Size Range (mm)	Life Phase	Use 1	Use 2	Use 3	Method/Reference
CT	4	33-39	F	R			EL
CT	1	50	J	R			EL

Obstructions

Comments

C1 Electrofished 100 m length of stream below the road with a lower net. CT were caught. Very low fish densities.

C2 Problem culvert at the road: 12 m length x 1 m diameter, no drop at the outlet, and ~2.5 m high road fill over top (photo A1/20). Gradient was not obtained but the high water velocities observed through the culvert restrict fish passage. Some adult CT must pass through the culvert because CT fry were caught in Site 19 u/s. This culvert should be removed.

C3 LOD abundant within channel and dense brush lines the creek.

C4 Some pockets of fine gravel are present above the debris steps. Assume CT adults spawn here; creek is too steep below the road for fry to migrate u/s.

C5 Channel is confined and at these flow levels, the water velocities are very high.

C6 R1 and R2 are classed as S3 habitat.

DFO/MoELP Stream Survey Form

29-May-98 Stream: TAGIT C. TRIBUTARY Watershed Code: 460-6006-445-389-000-000-000-000-000-000-000-000

Stream Survey Report

Header Information

Stream Name:	TAGIT C. TRIBUTARY	**Stream "Local":**	Ta7			**Access:**	V2
Watershed Code:	460-6006-445-389-000-000-000-000-000-000-000-000			**Reach No.:**	2	**Reach Length (km):** 0.6 **Method:**	MW
Location:	HIKED IN ABOVE THE ROAD CULVERT.	**Map #:**	093L024	**Site No.:**	19	**Length surveyed (m):** 100.0 **Method:**	HC
		U.T.M. :	9.6149 .60098	**Fish Card:**	N	**Field:** Yes **Historical:**	No
Date: 02/07/97	**Time:** 11:30	**Agency:** C87	**Survey Crew:** CP \RD\ \ \ \ \ \ \	**Photos:**	A8/12, 13	**Air Photos:**	BCB 91179:106

Channel Characteristics

				Specific Data				
Av. Chan. Width (m):	2.1	**Method Av. Chan. Width (m):**	T	2.4	2.2	2.4	2.6	1.0
Av. Wet. Width (m):	1.2	**Method Av. Wet. Width (m):**	T	2.4	0.9	1.8	0.4	0.7
Av. Max. Rif. Depth (cm):	4	**Av. Max. Riffle Depth (cm):**	MS	2	3	6		
Av. Max. Pool Depth (cm):	24	**Av. Max. Pool Depth (cm):**	4	24	12	35		
Gradient (%):	1.0	**Method Gradient:**	CL					

% Pool: 20 **% Riffle:** 20 **% Run:** 60 **% Other:** 0 **Method:** GE

% Side Channel:	0-10	**Method Side Channel:**	GE
% Debris Area:	0-10	**Method Debris Area:**	GE

Cover

Cover Total % :	90	**Method Cover Total %:**	GE				
Dp Pool : 5 **L.O.D.:**	5	**Boulder:** 15 **In Veg.:**	5	**Over Veg:**	65	**Cutbank:**	5
Crown Closure % :	90	**Method Crown Closure:**	GE	**Aspect :**	SE	**Method Aspect:**	MW

Discharge

				Specific Data
Wetted Width (m) :		**Method Wetted Width (m) :**		
Mean Depth (m) :		**Method Mean Depth (m) :**		
Mean Velocity (m/s) :		**Method Mean Velocity (m/s**	VO	
Discharge (m3/s) :	0.03	**Method Discharge (m3/s) :**		

Reach Symbol

(Fish)

CT*

2 D 1.0	2710
(Width, Valley: Channel, Slope)	(Bed Material)

Bed Material

% Fines (<2mm):	25	**% Fines (<2mm):**	25
% Gravels:	70	**Small (2-16mm):**	40
		Large (16-64mm):	30
% Larges:	5	**Small cobble (64-128mm):**	5
		Large cobble (128-256mm):	0
		Boulder cobble (>256mm):	0
% Bedrock:	0	**% Bedrock:**	0
D90 (cm):	5	**Compaction:**	High

Banks

Height (m):	0.3	**% Unstable:**			0
Textures Fines:	Yes	**Gravel:** No	**Larges:** Yes	**Bedrock:**	No
Confinement:	5				
Valley: Chan. Ratio:	4				
Stage:	L				
Flood Signs Ht(m):	0.2	**Method Flood Signs:**			MS
Braided:	N	**Method Braided:**			GE
Bars (%):	15	**Method Bars:**			GE
pH:	8.6	**Method pH:**			PH
02 (ppm):		**Method Dissolved Oxygen:**			
Water Temp. (°C):	11.0	**Method Temperature:**			TC
Turb. (cm):	200	**Method Turbidity:**			GE
Cond. (µmhos):	50	**Method Conductivity:**			CM

DFO/MoELP Stream Survey Form

29-May-98 **Stream:** TAGIT C. TRIBUTARY **Watershed Code:** 460-6006-445-389-000-000-000-000-000-000-000-000

Stream Survey Report

Stream/Valley Cross-Section

Fish Summary

Species	Number	Size Range (mm)	Life Phase	Use 1	Use 2	Use 3	Method/Reference
CT	10	44-57	J	R			EL

Obstructions

Comments

C1 Electrofished 65 m length of stream for 493 s. with no lower net. CT were caught.

C2 Sections of excellent potential trout spawning present in this reach.

C3 Only small juveniles were caught; suspect low flows in mid-summer cause the larger fish to drop out into the mainstem.

C4 Ta7 is classed as S3 habitat to the top of R2.

C5 Problem culvert is located d/s in R1 (see Site 18).

DFO/MoELP Stream Survey Form

29-May-98 **Stream:** TAGIT C. TRIBUTARY **Watershed Code:** 460-6006-445-389-000-000-000-000-000-000-000

Stream Survey Report

Header Information

Stream Name:	TAGIT C. TRIBUTARY	**Stream "Local":**	Ta7			**Access:**	FT
Watershed Code:	460-6006-445-389-000-000-000-000-000-000-000			**Reach No.:**	3	**Reach Length (km):** 1.1 **Method:**	MW
Location:	~150 m U/S FROM ROAD; AT THE BASE OF R3.	**Map #:**	093L024	**Site No.:**	20	**Length surveyed (m):** 100.0 **Method:**	HC
		U.T.M. :	9.6149 .60098	**Fish Card:**	N	**Field:** Yes **Historical:**	No
Date: 02/07/97	**Time:** 10:00	**Agency:** C87	**Survey Crew:** CP \RD \ \ \ \ \ \ \	**Photos:**	A8/10, 11; A1/14, 15	**Air Photos:**	BCB 91179:106

Channel Characteristics

				Specific Data				
Av. Chan. Width (m):	3.0	**Method Av. Chan. Width (m):**	T	5.9	2.6	1.9	2.5	2.1
Av. Wet. Width (m):	1.2	**Method Av. Wet. Width (m):**	T	1.4	1.3	1.0		
Av. Max. Rif. Depth (cm):	8	**Av. Max. Riffle Depth (cm):**	MS	7	8	10		
Av. Max. Pool Depth (cm):	24	**Av. Max. Pool Depth (cm):**	8	21	24	27		
Gradient (%):	9.0	**Method Gradient:**	CL					

% Pool: 15 **% Riffle:** 70 **% Run:** 15 **% Other:** 0 **Method:** GE

% Side Channel:	0-10	**Method Side Channel:**	GE
% Debris Area:	0-10	**Method Debris Area:**	GE

Cover

Cover Total % :	80	**Method Cover Total %:**	GE				
Dp Pool : 25 **L.O.D.:**	5	**Boulder:** 50 **In Veg.:**	0	**Over Veg:**	15	**Cutbank:**	5
Crown Closure % :	30	**Method Crown Closure:**	GE	**Aspect :**	S	**Method Aspect:**	MW

Discharge

				Specific Data
Wetted Width (m) :		**Method Wetted Width (m) :**		
Mean Depth (m) :		**Method Mean Depth (m) :**		
Mean Velocity (m/s) :		**Method Mean Velocity (m/s**	VO	
Discharge (m3/s) :	0.06	**Method Discharge (m3/s) :**		

Reach Symbol

(Fish)

NF

3 B 9.0	1540
(Width, Valley: Channel, Slope)	(Bed Material)

Bed Material

% Fines (<2mm):	15	**% Fines (<2mm):**	15
% Gravels:	45	**Small (2-16mm):**	15
		Large (16-64mm):	30
% Larges:	40	**Small cobble (64-128mm):**	30
		Large cobble (128-256mm):	10
		Boulder cobble (>256mm):	0
% Bedrock:	0	**% Bedrock:**	0
D90 (cm):	25	**Compaction:**	High

Banks

Height (m):	1.0	**% Unstable:**					0
Textures Fines:	Yes	**Gravel:**	No	**Larges:**	No	**Bedrock:**	No
Confinement:	4						
Valley: Chan. Ratio:	2						
Stage:	L						
Flood Signs Ht(m):	0.2	**Method Flood Signs:**					MS
Braided:	N	**Method Braided:**					GE
Bars (%):	20	**Method Bars:**					GE
pH:	8.3	**Method pH:**					PH
02 (ppm):		**Method Dissolved Oxygen:**					
Water Temp. (°C):	8.0	**Method Temperature:**					TC
Turb. (cm):	200	**Method Turbidity:**					GE
Cond. (µmhos):	50	**Method Conductivity:**					CM

DFO/MoELP Stream Survey Form

29-May-98 **Stream:** TAGIT C. TRIBUTARY **Watershed Code:** 460-6006-445-389-000-000-000-000-000-000-000

Stream Survey Report

Stream/Valley Cross-Section

Fish Summary

Obstructions

Comments

C1	Electrofished 85 m length of stream with a lower net on May 29/97; no fish were caught/observed. Electrofished 130 m length of stream with a lower net on July 2/97; no fish were caught/observed. The first sampling was done at very high flows and the visibility was very low so the site was repeated to confirm the absence of fish.
C2	High gradient, mainly one channel creek with large bed material. Some 0.5 m high drops over debris are present.
C3	Alder lines the channel. Suspect flows are very low in mid-summer.
C4	Classed as S5 habitat in the lower 550 m of R3 and S6 habitat above.

DFO/MoELP Stream Survey Form

29-May-98 Stream: TAGIT C. TRIBUTARY Watershed Code: 460-6006-445-389-000-000-000-000-000-000-000-000

Stream Survey Report

Header Information

Stream Name:	TAGIT C. TRIBUTARY	**Stream "Local":**	Ta7			**Access:**		V2
Watershed Code:	460-6006-445-389-000-000-000-000-000-000-000-000			**Reach No.:**	4	**Reach Length (km):**	3.4 **Method:**	MW
Location:	UPPER END OF Ta7; LOCATED IN BLOCK 626 #1.	**Map #:**	093L024	**Site No.:**	21	**Length surveyed (m):**	150.0 **Method:**	HC
		U.T.M. :	9.6149 .60098	**Fish Card:**	N	**Field:** Yes	**Historical:**	No
Date: 30/05/97	**Time:** 10:30	**Agency:** C87	**Survey Crew:** CP \RD \ \ \ \ \ \ \	**Photos:**	A1/18, 19	**Air Photos:**		BCB 91179:211

Channel Characteristics

				Specific Data			
Av. Chan. Width (m):	2.1	**Method Av. Chan. Width (m):**	T	2.7	1.9	1.1	2.6
Av. Wet. Width (m):	2.1	**Method Av. Wet. Width (m):**	T	2.7	1.9	1.1	2.6
Av. Max. Rif. Depth (cm):	19	**Av. Max. Riffle Depth (cm):**	MS	18	16	24	19
Av. Max. Pool Depth (cm):	32	**Av. Max. Pool Depth (cm):**	19	31	29	35	
Gradient (%):	9.0	**Method Gradient:**	CL				
% Pool: 20	**% Riffle:** 60	**% Run:** 20	**% Other:** 0	**Method:** GE			
% Side Channel:	0-10	**Method Side Channel:**	GE				
% Debris Area:	10-40	**Method Debris Area:**	GE				

Cover

Cover Total % :	60	**Method Cover Total %:**	GE						
Dp Pool : 30	**L.O.D.:** 10	**Boulder:** 20	**In Veg.:** 10	**Over Veg:**	10	**Cutbank:**	20		
Crown Closure % :	20	**Method Crown Closure:**	GE	**Aspect :**	SW	**Method Aspect:**	MW		

Discharge

				Specific Data
Wetted Width (m) :		**Method Wetted Width (m) :**		
Mean Depth (m) :		**Method Mean Depth (m) :**		
Mean Velocity (m/s) :		**Method Mean Velocity (m/s**	VO	
Discharge (m3/s) :	0.11	**Method Discharge (m3/s) :**		

Reach Symbol

(Fish)

NF

2 B 9.0	2440
(Width, Valley: Channel, Slope)	(Bed Material)

Bed Material

% Fines (<2mm):	25	**% Fines (<2mm):**	25
% Gravels:	40	**Small (2-16mm):**	25
		Large (16-64mm):	15
% Larges:	35	**Small cobble (64-128mm):**	10
		Large cobble (128-256mm):	25
		Boulder cobble (>256mm):	0
% Bedrock:	0	**% Bedrock:**	0
D90 (cm):	20	**Compaction:**	High

Banks

Height (m):	0.4	**% Unstable:**	0
Textures Fines:	Yes	**Gravel:** Yes **Larges:** No **Bedrock:**	No
Confinement:	3		
Valley: Chan. Ratio:	2		
Stage:	H		
Flood Signs Ht(m):	0.1	**Method Flood Signs:**	MS
Braided:	N	**Method Braided:**	GE
Bars (%):	5	**Method Bars:**	GE
pH:	8.0	**Method pH:**	PH
02 (ppm):		**Method Dissolved Oxygen:**	
Water Temp. (°C):	4.0	**Method Temperature:**	TC
Turb. (cm):	200	**Method Turbidity:**	GE
Cond. (µmhos):	10	**Method Conductivity:**	CM

DFO/MoELP Stream Survey Form

29-May-98 **Stream:** TAGIT C. TRIBUTARY **Watershed Code:** 460-6006-445-389-000-000-000-000-000-000-000-000

Stream Survey Report

Stream/Valley Cross-Section

Fish Summary

Obstructions

Comments

C1	Electrofished 115 m length of stream d/s from the road culvert for 600 s. with no lower net. No fish were caught/observed.
C2	Stream has a large buffer zone in block - good layout! A small culvert was left at the road crossing.
C3	Channel drains from marsh area located u/s. Conductivity is very low implying much of the water is snowmelt. May dewater in mid-summer.
C4	Large debris straddles the creek. Bed material is cobble/fines; very limited potential spawning.
C5	Creek is too steep to support fish. The lower 100 m has a gradient of 20% which makes this upper section inaccessible to fish.

DFO/MoELP Stream Survey Form

29-May-98 | **Stream:** TAGIT C. TRIBUTARY | **Watershed Code:** 460-6006-445-Ta9-000-000-000-000-000-000-000-000

Stream Survey Report

Header Information

Stream Name:	TAGIT C. TRIBUTARY	**Stream "Local":**	Ta9			**Access:**	FT
Watershed Code:	460-6006-445-~~Ta9-000-000-000-000-000-000-000-000~~ 741			**Reach No.:**	1	**Reach Length (km):** 0.5	**Method:** MW
Location:	180 m U/S FROM Ta9.1 MOUTH.	**Map #:**	093L024	**Site No.:**	22	**Length surveyed (m):** 500.0	**Method:** MW
		U.T.M. :	9.6172 .60134	**Fish Card:**	N	**Field:** Yes	**Historical:** No
Date: 01/07/97	**Time:** 14:00	**Agency:** C87	**Survey Crew:** CP \RD \IF \ \ \ \ \ \	**Photos:**	A8/6, 7	**Air Photos:**	BCB 91179:212

Channel Characteristics

					Specific Data					
Av. Chan. Width (m):	2.4	**Method Av. Chan. Width (m):**	T		2.2	2.8	2.5	2.7	2.6	1.7
Av. Wet. Width (m):	2.1	**Method Av. Wet. Width (m):**	T		1.9	2.2	2.3	1.8	2.6	1.7
Av. Max. Rif. Depth (cm):	11	**Av. Max. Riffle Depth (cm):**	MS		7	8	17			
Av. Max. Pool Depth (cm):	32	**Av. Max. Pool Depth (cm):**	11		38	28	30			
Gradient (%):	6.0	**Method Gradient:**	CL							
% Pool: 20	**% Riffle:** 70	**% Run:** 10	**% Other:**	0	**Method:** GE					
% Side Channel:	0-10	**Method Side Channel:**	GE							
% Debris Area:	0-10	**Method Debris Area:**	GE							

Bed Material

% Fines (<2mm):	10	**% Fines (<2mm):**	10
% Gravels:	25	**Small (2-16mm):**	10
		Large (16-64mm):	15
% Larges:	65	**Small cobble (64-128mm):**	30
		Large cobble (128-256mm):	25
		Boulder cobble (>256mm):	10
% Bedrock:	0	**% Bedrock:**	0
D90 (cm):	25	**Compaction:**	Medium

Cover

Cover Total % :	60	**Method Cover Total %:**	GE						
Dp Pool : 20	**L.O.D.:** 10	**Boulder:** 45	**In Veg.:**	0	**Over Veg:**	10	**Cutbank:**		15
Crown Closure % :	20	**Method Crown Closure:**	GE		**Aspect :**	SW	**Method Aspect:**		MW

Banks

Height (m):	0.5	**% Unstable:**			0
Textures Fines:	Yes	**Gravel:** No	**Larges:** No	**Bedrock:**	No
Confinement:	3				
Valley: Chan. Ratio:	2				
Stage:	L				
Flood Signs Ht(m):	0.4	**Method Flood Signs:**			MS
Braided:	N	**Method Braided:**			GE
Bars (%):	5	**Method Bars:**			GE
pH:	8.0	**Method pH:**			PH
02 (ppm):		**Method Dissolved Oxygen:**			
Water Temp. (°C):	10.5	**Method Temperature:**			TC
Turb. (cm):	200	**Method Turbidity:**			GE
Cond. (µmhos):	10	**Method Conductivity:**			CM

Discharge

				Specific Data
Wetted Width (m) :		**Method Wetted Width (m) :**		
Mean Depth (m) :		**Method Mean Depth (m) :**		
Mean Velocity (m/s) :		**Method Mean Velocity (m/s**	VO	
Discharge (m3/s) :	0.08	**Method Discharge (m3/s) :**		

Reach Symbol

(Fish)

DV CT

2 B 6.0	1270
(Width, Valley: Channel, Slope)	(Bed Material)

DFO/MoELP Stream Survey Form

29-May-98 **Stream:** TAGIT C. TRIBUTARY **Watershed Code:** 460-6006-445-Ta9-000-000-000-000-000-000-000-000

Stream Survey Report

Stream/Valley Cross-Section

Fish Summary

Species	Number	Size Range (mm)	Life Phase	Use 1	Use 2	Use 3	Method/Reference
DV	5	58-73	J	R			EL
CT	2	51-57	J	R			EL

Obstructions

Comments

C1 Electrofished 80 m length of stream for 1500 s. with a lower net; CT and DV were caught.

C2 Small, stable creek with moss-covered banks and instream boulders/debris. Some log stepping is present.

C3 Riparian vegetation consists of willow/conifers with sections of grassy side hills which confine the creek and may pose as areas with bank stability concerns.

C4 R1 is classed as S3 habitat throughout.

C5 A Western Toad was spotted in sample site.

DFO/MoELP Stream Survey Form

29-May-98 Stream: TAGIT C. TRIBUTARY Watershed Code: 460-6006-445-Ta9-000-000-000-000-000-000-000-000

Stream Survey Report

Header Information

Stream Name:	TAGIT C. TRIBUTARY	Stream "Local":	Ta9			Access:		H
Watershed Code:	460-6006-445-Ta9-000-000-000-000-000-000-000-000			Reach No.:	2	Reach Length (km):	0.6 Method:	MW
Location:	SAMPLED JUST BELOW Ta9.2 MOUTH.	Map #:	093L024	Site No.:	23	Length surveyed (m):	150.0 Method:	HC
		U.T.M.:	9.6172 .60134	Fish Card:	N	Field: Yes	Historical:	No
Date: 03/07/97	Time: 16:30	Agency: C87	Survey Crew: RD \IF \ \ \ \ \ \	Photos:	A9/5, 6	Air Photos:		BCB 91179:212

Channel Characteristics

				Specific Data				
Av. Chan. Width (m):	1.8	Method Av. Chan. Width (m):	T	1.4	1.9	1.3	2.5	2.1
Av. Wet. Width (m):	1.7	Method Av. Wet. Width (m):	T	1.4	1.9	1.3	2.2	1.9
Av. Max. Rif. Depth (cm):	7	Av. Max. Riffle Depth (cm):	MS	7	4	11		
Av. Max. Pool Depth (cm):	30	Av. Max. Pool Depth (cm):	7	35	30	25		
Gradient (%):	3.0	Method Gradient:	CL					

% Pool: 35 % Riffle: 25 % Run: 40 % Other: 0 Method: GE

% Side Channel:	0-10	Method Side Channel:	GE
% Debris Area:	0	Method Debris Area:	GE

Cover

Cover Total % :	75	Method Cover Total %:	GE						
Dp Pool :	25	L.O.D.:	20	Boulder:	10	In Veg.:	0	Over Veg:	25
Crown Closure % :	20	Method Crown Closure:	GE	Aspect :	SW	Method Aspect:	MW		

Cutbank: 20

Discharge

				Specific Data
Wetted Width (m) :		Method Wetted Width (m) :		
Mean Depth (m) :		Method Mean Depth (m) :		
Mean Velocity (m/s) :		Method Mean Velocity (m/s	VO	
Discharge (m3/s) :	0.06	Method Discharge (m3/s) :		

Reach Symbol

(Fish)

DV

2 C 3.0	2620
(Width, Valley: Channel, Slope)	(Bed Material)

Bed Material

% Fines (<2mm):	25	% Fines (<2mm):	25
% Gravels:	60	Small (2-16mm):	20
		Large (16-64mm):	40
% Larges:	15	Small cobble (64-128mm):	15
		Large cobble (128-256mm):	0
		Boulder cobble (>256mm):	0
% Bedrock:	0	% Bedrock:	0
D90 (cm):	8	Compaction:	High

Banks

Height (m):	1.2	% Unstable:					0
Textures Fines:	Yes	Gravel:	No	Larges:	No	Bedrock:	No
Confinement:	4						
Valley: Chan. Ratio:	3						
Stage:	L						
Flood Signs Ht(m):	0.3	Method Flood Signs:					MS
Braided:	N	Method Braided:					GE
Bars (%):	5	Method Bars:					GE
pH:	7.6	Method pH:					PH
02 (ppm):		Method Dissolved Oxygen:					
Water Temp. (°C):	11.0	Method Temperature:					TC
Turb. (cm):	200	Method Turbidity:					GE
Cond. (µmhos):		Method Conductivity:					

DFO/MoELP Stream Survey Form

29-May-98 **Stream:** TAGIT C. TRIBUTARY **Watershed Code:** 460-6006-445-Ta9-000-000-000-000-000-000-000-000

Stream Survey Report

Stream/Valley Cross-Section

Fish Summary

Species	Number	Size Range (mm)	Life Phase	Use 1	Use 2	Use 3	Method/Reference
DV	17	67-130	J	R			EL

Obstructions

Comments

C1 Electrofished 100 m length of stream for 750 s. with no lower net. DV were caught.

C2 Low gradient pool/run habitat with good rearing potential. Limited potential spawning in gravel/riffle sections.

C3 Cutbank and brush overstory present in this section but most of reach meanders through open brush meadows.

C4 Classed as S3 habitat throughout R2.

DFO/MoELP Stream Survey Form

29-May-98 **Stream:** TAGIT C. TRIBUTARY **Watershed Code:** 460-6006-445-Ta9-000-000-000-000-000-000-000-000

Stream Survey Report

Header Information

Stream Name:	TAGIT C. TRIBUTARY	**Stream "Local":**	Ta9			**Access:**	H
Watershed Code:	460-6006-445-Ta9-000-000-000-000-000-000-000-000			**Reach No.:**	3	**Reach Length (km):** 1.2	**Method:** MW
Location:	HELICOPTER SITE; UPPER SECTION OF Ta9, IN R3.	**Map #:**	093L025	**Site No.:**	24	**Length surveyed (m):** 100.0	**Method:** HC
		U.T.M.:	9.6172 .60134	**Fish Card:**	N	**Field:** Yes	**Historical:** No
Date: 08/07/97	**Time:** 10:00	**Agency:** C87	**Survey Crew:** RD \IF \ \ \ \ \ \	**Photos:**	A9/20, 21	**Air Photos:**	BCB 91180:25

Channel Characteristics

				Specific Data				
Av. Chan. Width (m):	1.6	**Method Av. Chan. Width (m):**	T	1.1	2.3	0.9	2.4	1.3
Av. Wet. Width (m):	1.4	**Method Av. Wet. Width (m):**	T	1.1	2.0	0.9	2.0	1.2
Av. Max. Rif. Depth (cm):	6	**Av. Max. Riffle Depth (cm):**	MS	5	7	5		
Av. Max. Pool Depth (cm):	23	**Av. Max. Pool Depth (cm):**	6	15	35	18		
Gradient (%):	5.0	**Method Gradient:**	CL					
% Pool: 30	**% Riffle:** 30	**% Run:** 40	**% Other:** 0	**Method:** GE				
% Side Channel:	0-10	**Method Side Channel:**	GE					
% Debris Area:	10-40	**Method Debris Area:**	GE					

Cover

Cover Total % :	40	**Method Cover Total %:**	GE				
Dp Pool : 30	**L.O.D.:** 20	**Boulder:** 10	**In Veg.:** 0	**Over Veg:** 20	**Cutbank:**		20
Crown Closure % :	10	**Method Crown Closure:**	GE	**Aspect :** SE	**Method Aspect:**		MW

Discharge

				Specific Data
Wetted Width (m) :		**Method Wetted Width (m) :**		
Mean Depth (m) :		**Method Mean Depth (m) :**		
Mean Velocity (m/s) :		**Method Mean Velocity (m/s**	VO	
Discharge (m3/s) :	0.03	**Method Discharge (m3/s) :**		

Reach Symbol

(Fish)

NF

(Width, Valley: Channel, Slope)	(Bed Material)
2 C 5.0	1540

Bed Material

% Fines (<2mm):	10	**% Fines (<2mm):**	10
% Gravels:	55	**Small (2-16mm):**	15
		Large (16-64mm):	40
% Larges:	35	**Small cobble (64-128mm):**	25
		Large cobble (128-256mm):	10
		Boulder cobble (>256mm):	0
% Bedrock:	0	**% Bedrock:**	0
D90 (cm):	12	**Compaction:**	High

Banks

Height (m):	1.1	**% Unstable:**	0
Textures Fines:	Yes	**Gravel:** Yes **Larges:** No **Bedrock:**	No
Confinement:	4		
Valley: Chan. Ratio:	3		
Stage:	L		
Flood Signs Ht(m):	0.2	**Method Flood Signs:**	MS
Braided:	N	**Method Braided:**	GE
Bars (%):	5	**Method Bars:**	GE
pH:	8.3	**Method pH:**	PH
02 (ppm):		**Method Dissolved Oxygen:**	
Water Temp. (°C):	9.0	**Method Temperature:**	TC
Turb. (cm):	200	**Method Turbidity:**	GE
Cond. (µmhos):	20	**Method Conductivity:**	CM

DFO/MoELP Stream Survey Form

29-May-98 **Stream:** TAGIT C. TRIBUTARY **Watershed Code:** 460-6006-445-Ta9-000-000-000-000-000-000-000-000

Stream Survey Report

Stream/Valley Cross-Section

Fish Summary

Obstructions

Comments

C1	Electrofished 100 m length of stream with no lower net. No fish were caught/observed. Conductivity was very low, site was difficult to shock.
C2	A Western Toad was observed in the swamp near the creek.
C3	Single, stable channel with gravel bed material and moss-covered banks. May dewater during the summer.
C4	Suspect DV are present in lower R3 to 620 m. U/S of 620 m creek is classed as S6 habitat.

DFO/MoELP Stream Survey Form

29-May-98 **Stream:** TAGIT C. TRIBUTARY **Watershed Code:** 460-6006-445-Ta9-.1 -000-000-000-000-000-000-000

Stream Survey Report

Header Information

Stream Name: TAGIT C. TRIBUTARY **Stream "Local":** Ta9.1

Watershed Code: 460-6006-445-Ta9-.1 -000-000-000-000-000-000-000

Location: HIKED U/S FOR THE LOWER 200 m; BOTTOM OF SAMPLE SITE IS 80 m ABOVE THE MOUTH. **Map #:** 093L024 **U.T.M. :** 9.6172 .60135

Date: 01/07/97 **Time:** 13:00 **Agency:** C87 **Survey Crew:** RD \CP \ \ \ \ \ \

Reach No.: 1 **Site No.:** 25 **Fish Card:** N **Photos:** A8/4, 5

Access: FT **Reach Length (km):** 0.8 **Method:** MW **Length surveyed (m):** 200.0 **Method:** HC **Field:** Yes **Historical:** No **Air Photos:** BCB 91179:212

Channel Characteristics

				Specific Data				
Av. Chan. Width (m):	2.4	**Method Av. Chan. Width (m):**	T	2.4	1.9	2.8	2.3	2.4
Av. Wet. Width (m):	2.1	**Method Av. Wet. Width (m):**	T	2.1	1.5	1.7	3.2	
Av. Max. Rif. Depth (cm):	12	**Av. Max. Riffle Depth (cm):**	MS	11	14	10		
Av. Max. Pool Depth (cm):	25	**Av. Max. Pool Depth (cm):**	12	26	21	27		
Gradient (%):	13.0	**Method Gradient:**	CL					

% Pool: 20 **% Riffle:** 60 **% Run:** 20 **% Other:** 0 **Method:** GE

% Side Channel: 0-10 **Method Side Channel:** GE

% Debris Area: 10-40 **Method Debris Area:** GE

Cover

Cover Total % : 40 **Method Cover Total %:** GE

Dp Pool : 15 **L.O.D.:** 15 **Boulder:** 30 **In Veg.:** 0 **Over Veg:** 20 **Cutbank:** 20

Crown Closure % : 60 **Method Crown Closure:** GE **Aspect :** SE **Method Aspect:** MW

Discharge

				Specific Data
Wetted Width (m) :		**Method Wetted Width (m) :**		
Mean Depth (m) :		**Method Mean Depth (m) :**		
Mean Velocity (m/s) :		**Method Mean Velocity (m/s**	VO	
Discharge (m3/s) :	0.06	**Method Discharge (m3/s) :**		

Reach Symbol

(Fish)

NF

2 B 13.0 | 1450

(Width, Valley: Channel, Slope) | (Bed Material)

Bed Material

% Fines (<2mm):	10	**% Fines (<2mm):**	10
% Gravels:	40	**Small (2-16mm):**	10
		Large (16-64mm):	30
% Larges:	50	**Small cobble (64-128mm):**	25
		Large cobble (128-256mm):	15
		Boulder cobble (>256mm):	10
% Bedrock:	0	**% Bedrock:**	0
D90 (cm):	25	**Compaction:**	Low

Banks

Height (m):	1.1	**% Unstable:**	15
Textures Fines:	Yes	**Gravel:** Yes **Larges:** No **Bedrock:**	No
Confinement:	2		
Valley: Chan. Ratio:	2		
Stage:	L		
Flood Signs Ht(m):	0.3	**Method Flood Signs:**	MS
Braided:	N	**Method Braided:**	GE
Bars (%):	5	**Method Bars:**	GE
pH:	8.6	**Method pH:**	PH
02 (ppm):		**Method Dissolved Oxygen:**	
Water Temp. (°C):	11.0	**Method Temperature:**	TC
Turb. (cm):	200	**Method Turbidity:**	GE
Cond. (µmhos):	70	**Method Conductivity:**	CM

DFO/MoELP Stream Survey Form

29-May-98 **Stream:** TAGIT C. TRIBUTARY **Watershed Code:** 460-6006-445-Ta9-.1 -000-000-000-000-000-000-000

Stream Survey Report

Stream/Valley Cross-Section

Fish Summary

Obstructions

Comments

C1	Electrofished 100 m length of stream for 1100 s. No fish were caught/observed.
C2	Small, steep, confined creek situated in a gully with 70% sideslopes and ~50 m high banks. Unstable mud banks are present on R. right at 50 m. Alder overstory lines the creek.
C3	The lower 30 m of stream is accessible to fish. 30-90 m u/s from the mouth has a gradient of 20% - too steep for fish use. Ta9.1 is classed as S3 habitat in the lower 30 m and S6 habitat above 30 m.

DFO/MoELP Stream Survey Form

29-May-98 Stream: TAGIT C. TRIBUTARY Watershed Code: 460-6006-445-Ta9-.2 -000-000-000-000-000-000-000

Stream Survey Report

Header Information

Stream Name:	TAGIT C. TRIBUTARY	**Stream "Local":**	Ta9.2			**Access:**		H
Watershed Code:	460-6006-445-Ta9-.2 -000-000-000-000-000-000-000			**Reach No.:**	1	**Reach Length (km):**	1.4 **Method:**	MW
Location:	HIKED U/S FROM HELICOPTER LANDING SITE.	**Map #:**	093L025	**Site No.:**	26	**Length surveyed (m):**	100.0 **Method:**	HC
		U.T.M. :	9.6176 .60138	**Fish Card:**	N	**Field:** Yes	**Historical:**	No
Date: 03/07/97	**Time:** 16:00	**Agency:** C87	**Survey Crew:** RD \IF \ \ \ \ \ \ \	**Photos:**	A9/3, 4	**Air Photos:**		BCB 91179:212

Channel Characteristics

				Specific Data				
Av. Chan. Width (m):	0.5	**Method Av. Chan. Width (m):**	T	0.4	0.3	0.6	0.8	0.4
Av. Wet. Width (m):	0.5	**Method Av. Wet. Width (m):**	T	0.4	0.3	0.6	0.8	0.4
Av. Max. Rif. Depth (cm):	2	**Av. Max. Riffle Depth (cm):**	MS	2	3			
Av. Max. Pool Depth (cm):	17	**Av. Max. Pool Depth (cm):**	2	18	23	9		
Gradient (%):	3.5	**Method Gradient:**	CL					
% Pool: 40	**% Riffle:** 10	**% Run:** 50	**% Other:** 0	**Method:** GE				
% Side Channel:	0	**Method Side Channel:**	GE					
% Debris Area:	0-10	**Method Debris Area:**	GE					

Cover

Cover Total % :	30	**Method Cover Total %:**	GE						
Dp Pool : 30	**L.O.D.:** 20	**Boulder:** 0	**In Veg.:** 0	**Over Veg:**	10	**Cutbank:**	40		
Crown Closure % :	20	**Method Crown Closure:**	GE	**Aspect :**	SE	**Method Aspect:**	MW		

Discharge

				Specific Data
Wetted Width (m) :		**Method Wetted Width (m) :**		
Mean Depth (m) :		**Method Mean Depth (m) :**		
Mean Velocity (m/s) :		**Method Mean Velocity (m/s**	VO	
Discharge (m3/s) :	0.01	**Method Discharge (m3/s) :**		

Reach Symbol

(Fish)

DV

1 D 3.5	8110
(Width, Valley: Channel, Slope)	(Bed Material)

Bed Material

% Fines (<2mm):	80	**% Fines (<2mm):**	80
% Gravels:	10	**Small (2-16mm):**	5
		Large (16-64mm):	5
% Larges:	10	**Small cobble (64-128mm):**	10
		Large cobble (128-256mm):	0
		Boulder cobble (>256mm):	0
% Bedrock:	0	**% Bedrock:**	0
D90 (cm):	7	**Compaction:**	High

Banks

Height (m):	0.3	**% Unstable:**	0
Textures Fines:	Yes	**Gravel:** No **Larges:** No	**Bedrock:** No
Confinement:	5		
Valley: Chan. Ratio:	4		
Stage:	L		
Flood Signs Ht(m):	0.1	**Method Flood Signs:**	MS
Braided:	N	**Method Braided:**	GE
Bars (%):	0	**Method Bars:**	GE
pH:	7.6	**Method pH:**	PH
02 (ppm):		**Method Dissolved Oxygen:**	
Water Temp. (°C):	10.0	**Method Temperature:**	TC
Turb. (cm):	200	**Method Turbidity:**	GE
Cond. (µmhos):		**Method Conductivity:**	

DFO/MoELP Stream Survey Form

29-May-98 **Stream:** TAGIT C. TRIBUTARY **Watershed Code:** 460-6006-445-Ta9-.2 -000-000-000-000-000-000-000

Stream Survey Report

Stream/Valley Cross-Section

Fish Summary

Species	Number	Size Range (mm)	Life Phase	Use 1	Use 2	Use 3	Method/Reference
DV	2	87-117	J	R			EL

Obstructions

Comments

C1 Electrofished 80 m length of stream; 2 DV were caught in the lower 30 m.

C2 Small seepage with sand/silt bed material. Above 35 m, sections with subsurface flow within lowland bog; very poor fish habitat. Very low energy creek.

C3 Fish access is in the lower 35 m of stream and is classed as S4 habitat. U/S of 35 m, there is no potential fish use and it is classed as S6 habitat.

C4 Abundant alder overstory.

DFO/MoELP Stream Survey Form

29-May-98 **Stream:** TAGIT C. TRIBUTARY **Watershed Code:** 460-6006-445-Ta -10 -000-000-000-000-000-000-000

Stream Survey Report

Header Information

Stream Name:	TAGIT C. TRIBUTARY	**Stream "Local":**	Ta10			**Access:**			V2
Watershed Code:	460-6006-445-Ta -10 -000-000-000-000-000-000-000			**Reach No.:**	1	**Reach Length (km):**	1.3	**Method:**	MW
Location:	LOCATED ALONG BLOCKS 626 #1 AND #2.	**Map #:**	093L024	**Site No.:**	27	**Length surveyed (m):**	300.0	**Method:**	HC
		U.T.M. :	9.6170 .60135	**Fish Card:**	N	**Field:**	Yes	**Historical:**	No
Date: 29/05/97	**Time:** 17:00	**Agency:** C87	**Survey Crew:** RD \CP\ \ \ \ \ \ \	**Photos:**	A1/16, 17	**Air Photos:**			BCB 91180:42

Channel Characteristics

				Specific Data				
Av. Chan. Width (m):	1.4	**Method Av. Chan. Width (m):**	T	0.9	1.6	2.4	1.5	0.8
Av. Wet. Width (m):	1.4	**Method Av. Wet. Width (m):**	T	0.9	1.6	2.4	1.5	0.8
Av. Max. Rif. Depth (cm):	12	**Av. Max. Riffle Depth (cm):**	MS	12	8	16		
Av. Max. Pool Depth (cm):	40	**Av. Max. Pool Depth (cm):**	12	32	49	40		
Gradient (%):	10.0	**Method Gradient:**	CL					

% Pool: 20 **% Riffle:** 40 **% Run:** 20 **% Other:** 0 **Method:** GE

% Side Channel: 0-10 **Method Side Channel:** GE

% Debris Area: 20 **Method Debris Area:** GE

Cover

Cover Total % : 70 **Method Cover Total %:** GE

Dp Pool : 30 **L.O.D.:** 30 **Boulder:** 20 **In Veg.:** 0 **Over Veg:** 10 **Cutbank:** 10

Crown Closure % : 15 **Method Crown Closure:** GE **Aspect :** E **Method Aspect:** MW

Discharge

				Specific Data
Wetted Width (m) :		**Method Wetted Width (m) :**		
Mean Depth (m) :		**Method Mean Depth (m) :**		
Mean Velocity (m/s) :		**Method Mean Velocity (m/s**	VO	
Discharge (m3/s) :	0.17	**Method Discharge (m3/s) :**		

Reach Symbol

(Fish)

NF

1 B 10.0 | 2530

(Width, Valley: Channel, Slope) | (Bed Material)

Bed Material

% Fines (<2mm):	25	**% Fines (<2mm):**	25
% Gravels:	50	**Small (2-16mm):**	20
		Large (16-64mm):	30
% Larges:	25	**Small cobble (64-128mm):**	20
		Large cobble (128-256mm):	5
		Boulder cobble (>256mm):	0
% Bedrock:	0	**% Bedrock:**	0
D90 (cm):	12	**Compaction:**	Medium

Banks

Height (m):	0.4	**% Unstable:**	0
Textures Fines:	Yes	**Gravel:** Yes **Larges:** No **Bedrock:**	No
Confinement:	3		
Valley: Chan. Ratio:	2		
Stage:	H		
Flood Signs Ht(m):	0.2	**Method Flood Signs:**	MS
Braided:	N	**Method Braided:**	GE
Bars (%):	0	**Method Bars:**	GE
pH:	8.4	**Method pH:**	PH
02 (ppm):		**Method Dissolved Oxygen:**	
Water Temp. (°C):	6.0	**Method Temperature:**	TC
Turb. (cm):	200	**Method Turbidity:**	GE
Cond. (µmhos):	10	**Method Conductivity:**	CM

DFO/MoELP Stream Survey Form

29-May-98 **Stream:** TAGIT C. TRIBUTARY **Watershed Code:** 460-6006-445-Ta -10 -000-000-000-000-000-000-000

Stream Survey Report

Stream/Valley Cross-Section

Fish Summary

Obstructions

Comments

C1	Electrofished 100 m length of stream d/s from the road with no lower net. No fish were caught/observed.
C2	Small, stable creek in shallow depression with low gradient sideslopes. 5-10 m buffer left on either side of the creek.
C3	Small gravel moss bed with stable instream debris. Low conductivity value suggests majority of water originated from snow melt. Stream may dewater in mid-summer.
C4	Lower 100 m of Ta10 has a gradient of 28% - inaccessible to fish. Creek is classed at S6 habitat throughout.

DFO/MoELP Stream Survey Form

29-May-98 **Stream:** O'DINE C. **Watershed Code:** 460-6006-474-000-000-000-000-000-000-000-000-000

Stream Survey Report

Header Information

Stream Name: O'DINE C. **Stream "Local":** O'DINE C.

Watershed Code: 460-6006-474-000-000-000-000-000-000-000-000-000

Location: TOP OF R1 AT BOTTOM OF CANYON. **Map #:** 093L024

U.T.M. : 9.6123 .60076

Date: 03/07/97 **Time:** 12:00 **Agency:** C87 **Survey Crew:** RD \IF \ \ \ \ \ \ \

Reach No.: 1 **Site No.:** 1 **Fish Card:** N **Photos:** A8/23, 24

Access: V2

Reach Length (km): 0.6 **Method:** MW

Length surveyed (m): 100.0 **Method:** HC

Field: Yes **Historical:** No

Air Photos: BCB 91179:30

Channel Characteristics

				Specific Data					
Av. Chan. Width (m):	2.7	**Method Av. Chan. Width (m):**	T	2.7	1.6	3.7	2.4	2.3	3.4
Av. Wet. Width (m):	1.0	**Method Av. Wet. Width (m):**	T	1.6	1.0	0.5			
Av. Max. Rif. Depth (cm):	9	**Av. Max. Riffle Depth (cm):**	MS	7	10	11			
Av. Max. Pool Depth (cm):	28	**Av. Max. Pool Depth (cm):**	9	34	24	26			
Gradient (%):	9.0	**Method Gradient:**	CL						

% Pool: 20 **% Riffle:** 70 **% Run:** 10 **% Other:** 0 **Method:** GE

% Side Channel: 0 **Method Side Channel:** GE

% Debris Area: 0-10 **Method Debris Area:** GE

Bed Material

% Fines (<2mm):	5	**% Fines (<2mm):**	5
% Gravels:	20	**Small (2-16mm):**	5
		Large (16-64mm):	15
% Larges:	75	**Small cobble (64-128mm):**	30
		Large cobble (128-256mm):	30
		Boulder cobble (>256mm):	15
% Bedrock:	0	**% Bedrock:**	0
D90 (cm):	34	**Compaction:**	Low

Cover

Cover Total % : 75 **Method Cover Total %:** GE

Dp Pool : 20 **L.O.D.:** 10 **Boulder:** 60 **In Veg.:** 0 **Over Veg:** 0 **Cutbank:** 10

Crown Closure % : **Method Crown Closure:** **Aspect :** SW **Method Aspect:** MW

Banks

Height (m):	1.8	**% Unstable:**	10
Textures Fines:	No	**Gravel:** Yes **Larges:** Yes **Bedrock:**	Yes
Confinement:	2		
Valley: Chan. Ratio:	1		
Stage:	L		
Flood Signs Ht(m):	0.4	**Method Flood Signs:**	MS
Braided:	N	**Method Braided:**	GE
Bars (%):	5	**Method Bars:**	GE
pH:	7.1	**Method pH:**	PH
02 (ppm):		**Method Dissolved Oxygen:**	
Water Temp. (°C):	11.0	**Method Temperature:**	TC
Turb. (cm):	200	**Method Turbidity:**	GE
Cond. (µmhos):		**Method Conductivity:**	

Discharge

				Specific Data
Wetted Width (m) :		**Method Wetted Width (m) :**		
Mean Depth (m) :		**Method Mean Depth (m) :**		
Mean Velocity (m/s) :		**Method Mean Velocity (m/s**	VO	
Discharge (m3/s) :	0.09	**Method Discharge (m3/s) :**		

Reach Symbol

(Fish)

CO CT RB(SST)

3 A 9.0	1270
(Width, Valley: Channel, Slope)	**(Bed Material)**

DFO/MoELP Stream Survey Form

29-May-98 **Stream:** O'DINE C.

Stream Survey Report

Watershed Code: 460-6006-474-000-000-000-000-000-000-000-000-000

Stream/Valley Cross-Section

Fish Summary

Species	Number	Size Range (mm)	Life Phase	Use 1	Use 2	Use 3	Method/Reference
CT	7	62-96	J	R			EL
CO	1	104	J	R			EL
RB	2	71-154	J	R			EL

Obstructions

Comments

C1 Electrofished 37 m length of stream with no lower net. CO, CT and RB (suspected SST) were caught. No access problems throughout R1 from main river.

C2 Limited potential spawning and log stepping is present in this section. Suspect more suitable spawning habitat is present in lower R1.

C3 R1 is class S3 habitat.

DFO/MoELP Stream Survey Form

29-May-98 **Stream:** O'DINE C. **Watershed Code:** 460-6006-474-000-000-000-000-000-000-000-000

Stream Survey Report

Header Information

Stream Name:	O'DINE C.	**Stream "Local":**	O'DINE C.			**Access:**	V2
Watershed Code:	460-6006-474-000-000-000-000-000-000-000-000			**Reach No.:**	2	**Reach Length (km):** 1.6	**Method:** MW
Location:	SITE CARD: D/S FROM ROAD BELOW MARSH; TRAPS SET AT R2/R3 REACH BREAK.	**Map #:**	093L024	**Site No.:**	2	**Length surveyed (m):** 200.0	**Method:** HC
		U.T.M. :	9.6123 .60076	**Fish Card:**	N	**Field:** Yes	**Historical:** No
Date: 29/05/97	**Time:** 11:00	**Agency:** C87	**Survey Crew:** RD \CP \ \ \ \ \ \ \	**Photos:**	A1/8, 9	**Air Photos:**	BCB 91179:30

Channel Characteristics

				Specific Data				
Av. Chan. Width (m):	2.4	**Method Av. Chan. Width (m):**	T	2.9	3.2	1.7	1.9	2.1
Av. Wet. Width (m):	2.4	**Method Av. Wet. Width (m):**	T	2.9	3.2	1.7	1.9	2.1
Av. Max. Rif. Depth (cm):	40	**Av. Max. Riffle Depth (cm):**	MS	35	31	51	42	
Av. Max. Pool Depth (cm):	60	**Av. Max. Pool Depth (cm):**	40	59	65	55		
Gradient (%):	4.5	**Method Gradient:**	CL					

% Pool: 10 **% Riffle:** 90 **% Run:** 0 **% Other:** 0 **Method:** GE

% Side Channel:	0	**Method Side Channel:**	GE
% Debris Area:	0-10	**Method Debris Area:**	GE

Cover

Cover Total % :	60	**Method Cover Total %:**	GE						
Dp Pool :	10	**L.O.D.:**	20	**Boulder:**	40	**In Veg.:**	5	**Over Veg:**	5
Cutbank:	20	**Crown Closure % :**	10	**Method Crown Closure:**	GE	**Aspect :**	SE	**Method Aspect:**	MW

Discharge

				Specific Data
Wetted Width (m) :		**Method Wetted Width (m) :**		
Mean Depth (m) :		**Method Mean Depth (m) :**		
Mean Velocity (m/s) :		**Method Mean Velocity (m/s**	VO	
Discharge (m3/s) :	0.57	**Method Discharge (m3/s) :**		

Reach Symbol

(Fish)

CT

2 A 5.0	2350
(Width, Valley: Channel, Slope)	(Bed Material)

Bed Material

% Fines (<2mm):	20	**% Fines (<2mm):**	20
% Gravels:	35	**Small (2-16mm):**	20
		Large (16-64mm):	15
% Larges:	45	**Small cobble (64-128mm):**	10
		Large cobble (128-256mm):	25
		Boulder cobble (>256mm):	10
% Bedrock:	0	**% Bedrock:**	0
D90 (cm):	30	**Compaction:**	Medium

Banks

Height (m):	0.4	**% Unstable:**	5
Textures Fines:	No	**Gravel:** Yes **Larges:** Yes **Bedrock:**	No
Confinement:	2		
Valley: Chan. Ratio:	1		
Stage:	H		
Flood Signs Ht(m):	0.15	**Method Flood Signs:**	MS
Braided:	N	**Method Braided:**	GE
Bars (%):	0	**Method Bars:**	GE
pH:	8.5	**Method pH:**	PH
02 (ppm):		**Method Dissolved Oxygen:**	
Water Temp. (°C):	6.0	**Method Temperature:**	TC
Turb. (cm):	200	**Method Turbidity:**	GE
Cond. (µmhos):	30	**Method Conductivity:**	CM

Stream/Valley Cross-Section

Fish Summary

Species	Number	Size Range (mm)	Life Phase	Use 1	Use 2	Use 3	Method/Reference
CT	2	66-136	J	R			MT

Obstructions

Obstruction Ht(m)	Type	Location
1	F	

Comments

C1 Set 10 traps below the bridge at the R2/R3 reach break. CT were caught (photo A1/22). Water levels were very high; unable to shock.

C2 Water is tannic in colour.

C3 Channel is bank full; not able to see bed material. LOD straddles the creek and 40% sideslopes with ~10 m high bench confine the creek.

C4 R2 was mismapped d/s: it does not flow into Ta1.1; it is part of O'Dine C. (see map)

C5 Hiked lower 400-500 m of canyon in lower R2: gradient is 13-16%, bed material is boulder/bedrock, and channel is entrenched. Several 0.5 m high drops over debris are present. 1.3 m high falls is located ~500 m u/s in R2; observed 6" CT juvenile below the falls; suspect this is the end of anadromous fish use although it is possible that CO and SST could access u/s as far as mid-R3 in the swamp section.

C6 Suspect creek originates from unnamed lake .

C7 R2 is classed as S3 habitat.

DFO/MoELP Stream Survey Form

29-May-98 **Stream:** O'DINE C. **Watershed Code:** 460-6006-474-000-000-000-000-000-000-000-000-000

Stream Survey Report

Header Information

Stream Name:	O'DINE C.	**Stream "Local":**	O'DINE C.			**Access:**	H
Watershed Code:	460-6006-474-000-000-000-000-000-000-000-000-000			**Reach No.:**	3	**Reach Length (km):** 2.7	**Method:** MW
Location:	UPPER O'DINE C. HIKED IN FROM MEADOW; SAMPLED D/S FROM FORK.	**Map #:**	093L024	**Site No.:**	3	**Length surveyed (m):** 100.0	**Method:** HC
		U.T.M. :	9.6123 .60076	**Fish Card:**	N	**Field:** Yes	**Historical:** No
Date: 03/07/97	**Time:** 10:00	**Agency:** C87	**Survey Crew:** RD \IF \ \ \ \ \ \ \	**Photos:**	A8/21, 22	**Air Photos:**	BCB 91179:103

Channel Characteristics

				Specific Data				
Av. Chan. Width (m):	3.1	**Method Av. Chan. Width (m):**	T	3.8	2.5	2.8	2.3	4.1
Av. Wet. Width (m):	2.1	**Method Av. Wet. Width (m):**	T	2.3	1.9			
Av. Max. Rif. Depth (cm):	8	**Av. Max. Riffle Depth (cm):**	MS	10	7	6		
Av. Max. Pool Depth (cm):	44	**Av. Max. Pool Depth (cm):**	8	35	51	45		
Gradient (%):	1.0	**Method Gradient:**	CL					

% Pool: 30 **% Riffle:** 25 **% Run:** 45 **% Other:** 0 **Method:** GE

% Side Channel:	0	**Method Side Channel:**	GE
% Debris Area:	10-40	**Method Debris Area:**	GE

Cover

Cover Total % :	50	**Method Cover Total %:**	GE						
Dp Pool :	40	**L.O.D.:**	20	**Boulder:**	0	**In Veg.:**	0	**Over Veg:**	20
Cutbank:	20	**Crown Closure % :**	60	**Method Crown Closure:**	GE	**Aspect :**	SE	**Method Aspect:**	MW

Discharge

				Specific Data
Wetted Width (m) :		**Method Wetted Width (m) :**		
Mean Depth (m) :		**Method Mean Depth (m) :**		
Mean Velocity (m/s) :		**Method Mean Velocity (m/s**	VO	
Discharge (m3/s) :	0.06	**Method Discharge (m3/s) :**		

Reach Symbol

(Fish)

CT(*)

3 D 1.0	4510
(Width, Valley: Channel, Slope)	(Bed Material)

Bed Material

% Fines (<2mm):	40	**% Fines (<2mm):**	40
% Gravels:	50	**Small (2-16mm):**	35
		Large (16-64mm):	15
% Larges:	10	**Small cobble (64-128mm):**	10
		Large cobble (128-256mm):	0
		Boulder cobble (>256mm):	0
% Bedrock:	0	**% Bedrock:**	0
D90 (cm):	7	**Compaction:**	High

Banks

Height (m):	2.0	**% Unstable:**	0
Textures Fines:	Yes	**Gravel:** Yes **Larges:** No **Bedrock:**	No
Confinement:	4		
Valley: Chan. Ratio:	4		
Stage:	L		
Flood Signs Ht(m):	0.4	**Method Flood Signs:**	MS
Braided:	N	**Method Braided:**	GE
Bars (%):	15	**Method Bars:**	GE
pH:	7.2	**Method pH:**	PH
02 (ppm):		**Method Dissolved Oxygen:**	
Water Temp. (°C):	7.9	**Method Temperature:**	TC
Turb. (cm):	200	**Method Turbidity:**	GE
Cond. (µmhos):		**Method Conductivity:**	

Stream/Valley Cross-Section

Fish Summary

Species	Number	Size Range (mm)	Life Phase	Use 1	Use 2	Use 3	Method/Reference
CT	28	41-83	J	R			EL

Obstructions

Comments

C1 Electrofished 35 m length u/s to the fork with a lower net. CT were caught at high densities and are suspected to be residents. Due to the presence of fry in this site, it is assumed CT spawn in this reach.

C2 Most of R2 consists of swampy/ponded sections with abundant low gradient run habitat. Bed material is sand/silt and channel meanders through swamp. Grasses and brush make up the riparian vegetation. Numerous channels, some of which are intermittent, are present within the ponded sections.

C3 The section sampled in this reach has fines/gravel/silt bed material; excellent potential resident CT spawning sections are present.

C4 R3 is classed as S3 habitat throughout. Based on the air survey, R4 is classed as S3 habitat in the lower 1150 m and suspected S3 habitat u/s to the top of R4. Upper O'Dine C. in R4 and R5 was mismapped; it is not part of upper Ta1.

DFO/MoELP Stream Survey Form

29-May-98 **Stream:** O'DINE C. **Watershed Code:** 460-6006-474-000-000-000-000-000-000-000-000-000

Stream Survey Report

Header Information

Stream Name:	O'DINE C.	**Stream "Local":**	O'DINE C.			**Access:**			H
Watershed Code:	460-6006-474-000-000-000-000-000-000-000-000-000			**Reach No.:**	6	**Reach Length (km):**	1.9	**Method:**	MW
Location:	~600 m D/S FROM HEADWATER LAKE; SAMPLED IN MEADOW AREA AT THE BASE OF R6.	**Map #:**	093L024	**Site No.:**	4	**Length surveyed (m):**	100.0	**Method:**	HC
		U.T.M. :	9.6123 .60076	**Fish Card:**	N	**Field:**	Yes	**Historical:**	No
Date: 03/07/97	**Time:** 14:00	**Agency:** C87	**Survey Crew:** DB \CP\ \ \ \ \ \ \	**Photos:**	B2/9, 10	**Air Photos:**			BCB 91179:215

Channel Characteristics

				Specific Data					
Av. Chan. Width (m):	2.9	**Method Av. Chan. Width (m):**	T	1.1	2.2	1.0	5.2	4.2	3.4
Av. Wet. Width (m):	2.9	**Method Av. Wet. Width (m):**	T	1.1	2.2	1.0	5.2	4.2	3.4
Av. Max. Rif. Depth (cm):		**Av. Max. Riffle Depth (cm):**	MS						
Av. Max. Pool Depth (cm):	75	**Av. Max. Pool Depth (cm):**		85	50	90			
Gradient (%):	0.5	**Method Gradient:**	CL						
% Pool: 90	**% Riffle:** 0	**% Run:** 10	**% Other:** 0	**Method:** GE					
% Side Channel:	0	**Method Side Channel:**	GE						
% Debris Area:	0	**Method Debris Area:**	GE						

Cover

Cover Total % :	75	**Method Cover Total %:**	GE						
Dp Pool : 70	**L.O.D.:** 0	**Boulder:** 5	**In Veg.:** 10	**Over Veg:** 0	**Cutbank:** 15				
Crown Closure % :	5	**Method Crown Closure:**	GE	**Aspect :** S	**Method Aspect:**	MW			

Discharge

				Specific Data
Wetted Width (m) :		**Method Wetted Width (m) :**		
Mean Depth (m) :		**Method Mean Depth (m) :**		
Mean Velocity (m/s) :		**Method Mean Velocity (m/s**	VO	
Discharge (m3/s) :	0.04	**Method Discharge (m3/s) :**		

Reach Symbol

(Fish)

NF

3 D 0.5 | 3340

(Width, Valley: Channel, Slope) | (Bed Material)

Bed Material

% Fines (<2mm):	30	**% Fines (<2mm):**	30
% Gravels:	30	**Small (2-16mm):**	20
		Large (16-64mm):	10
% Larges:	40	**Small cobble (64-128mm):**	20
		Large cobble (128-256mm):	15
		Boulder cobble (>256mm):	5
% Bedrock:	0	**% Bedrock:**	0
D90 (cm):	17	**Compaction:**	Low

Banks

Height (m):	0.4	**% Unstable:**					0
Textures Fines:	Yes	**Gravel:**	No	**Larges:**	No	**Bedrock:**	No
Confinement:	5						
Valley: Chan. Ratio:	4						
Stage:	M						
Flood Signs Ht(m):	0.2	**Method Flood Signs:**					MS
Braided:	N	**Method Braided:**					GE
Bars (%):	0	**Method Bars:**					GE
pH:		**Method pH:**					
02 (ppm):		**Method Dissolved Oxygen:**					
Water Temp. (°C):	13.5	**Method Temperature:**					TC
Turb. (cm):	200	**Method Turbidity:**					GE
Cond. (µmhos):	20	**Method Conductivity:**					CM

DFO/MoELP Stream Survey Form

29-May-98 **Stream:** O'DINE C.

Stream Survey Report

Watershed Code: 460-6006-474-000-000-000-000-000-000-000-000-000

Stream/Valley Cross-Section

Fish Summary

Obstructions

Comments

C1	Electrofished 80 m length of stream for 380 s. with no lower net. No fish were caught/observed. Appears to be good fish habitat. Invertebrates present within the channel.
C2	Moss-covered bed material, grass/willow line the creek within the meadow section; timber is present further u/s and d/s in the forested sections.
C3	R5 is higher gradient, more riffle habitat and the channel is confined. It is classed as S5 habitat in the lower section and S6 habitat above the O'D4 confluence. R6 is classed as S6 habitat.

DFO/MoELP Stream Survey Form

10-Feb-98 **Stream:** O'DINE C. TRIBUTARY **Watershed Code:** 460-6006-474-000-000-000-000-000-000-000-000

Stream Survey Report

Header Information

Stream Name:	O'DINE C. TRIBUTARY	**Stream "Local":**	O'D1			**Access:**	H
Watershed Code:	460-6006-474-000-000-000-000-000-000-000-000			**Reach No.:**	2	**Reach Length (km):** 2.2	**Method:** MW
Location:	200 m ABOVE TH1 LAKE.	**Map #:**	093L024	**Site No.:**	5	**Length surveyed (m):** 80.0	**Method:** HC
		U.T.M. :	9.6115 .60099	**Fish Card:**	N	**Field:** Yes	**Historical:** No
Date: 22/10/96	**Time:** 10:00	**Agency:** C87	**Survey Crew:** RD \CP \ \ \ \ \ \	**Photos:**	A14/11, 12	**Air Photos:**	BCB 91179:103

Channel Characteristics

				Specific Data					
Av. Chan. Width (m):	1.9	**Method Av. Chan. Width (m):**	T	2.0	1.7	1.9	2.1	1.7	1.8
Av. Wet. Width (m):	1.8	**Method Av. Wet. Width (m):**	T	2.0	1.6	1.8	1.8		
Av. Max. Rif. Depth (cm):	8	**Av. Max. Riffle Depth (cm):**	MS						
Av. Max. Pool Depth (cm):	29	**Av. Max. Pool Depth (cm):**	8						
Gradient (%):	1.5	**Method Gradient:**	CL						
% Pool: 30	**% Riffle:** 30	**% Run:** 40	**% Other:** 0	**Method:** GE					
% Side Channel:	0	**Method Side Channel:**	GE						
% Debris Area:	0-10	**Method Debris Area:**	GE						

Cover

Cover Total % :	60	**Method Cover Total %:**	GE						
Dp Pool : 20	**L.O.D.:** 10	**Boulder:** 20	**In Veg.:** 0	**Over Veg:**	10	**Cutbank:**		40	
Crown Closure % :	15	**Method Crown Closure:**	GE	**Aspect :**	SW	**Method Aspect:**		MW	

Discharge

				Specific Data
Wetted Width (m) :		**Method Wetted Width (m) :**		
Mean Depth (m) :		**Method Mean Depth (m) :**		
Mean Velocity (m/s) :		**Method Mean Velocity (m/s**	VO	
Discharge (m3/s) :	0.06	**Method Discharge (m3/s) :**		

Reach Symbol

	(Fish) CT(*)
2 C 1.5	2710
(Width, Valley: Channel, Slope)	(Bed Material)

Bed Material

% Fines (<2mm):	15	**% Fines (<2mm):**	15
% Gravels:	70	**Small (2-16mm):**	30
		Large (16-64mm):	40
% Larges:	15	**Small cobble (64-128mm):**	15
		Large cobble (128-256mm):	0
		Boulder cobble (>256mm):	0
% Bedrock:	0	**% Bedrock:**	0
D90 (cm):	10	**Compaction:**	High

Banks

Height (m):	0.3	**% Unstable:**	0
Textures Fines:	Yes	**Gravel:** Yes **Larges:** No	**Bedrock:** No
Confinement:	4		
Valley: Chan. Ratio:	3		
Stage:	L		
Flood Signs Ht(m):		**Method Flood Signs:**	
Braided:	N	**Method Braided:**	GE
Bars (%):	10	**Method Bars:**	GE
pH:		**Method pH:**	
02 (ppm):		**Method Dissolved Oxygen:**	
Water Temp. (°C):	3.0	**Method Temperature:**	TC
Turb. (cm):	200	**Method Turbidity:**	GE
Cond. (µmhos):	70	**Method Conductivity:**	CM

DFO/MoELP Stream Survey Form

Stream Survey Report

29-May-98 **Stream:** O'DINE C. TRIBUTARY **Watershed Code:** 460-6006-474-000-000-000-000-000-000-000-000-000

Stream/Valley Cross-Section

Fish Summary

Species	Number	Size Range (mm)	Life Phase	Use 1	Use 2	Use 3	Method/Reference
CT	1	33	F	R			EL
CT	2	69-83	J	R			EL

Obstructions

Comments

C1 Electrofished 30 m length of stream with no lower net. CT were caught.

C2 Air Temp.: 2.5 C

C3 Nice, low gradient creek. Appears to be all part of O' Dine C.; there is no obvious inflow channel into the lake.

C4 Good potential spawning in lower R1 near Site 3. Easy access from mainstem O'Dine C.

C5 Based on air survey, O'D1 is classed as S3 habitat u/s to mid R2, suspected S3 habitat in the upper half of R2, and S6 habitat in R3 and u/s. O'D1.1 appears to be very small; may have an intermittent channel; classed as suspected S6 habitat.

DFO/MoELP Stream Survey Form

29-May-98 **Stream:** O'DINE C. TRIBUTARY **Watershed Code:** 460-6006-474-000-000-000-000-000-000-000-000-000

Stream Survey Report

Header Information

Stream Name:	O'DINE C. TRIBUTARY	**Stream "Local":**	O'DINE C. TRIBUTARY			**Access:**	H
Watershed Code:	460-6006-474-000-000-000-000-000-000-000-000-000			**Reach No.:**	1	**Reach Length (km):** **Method:**	MW
Location:	BLOCK 622 #2. STATION 2+402.	**Map #:**	093L024	**Site No.:**	6	**Length surveyed (m):** 100.0 **Method:**	HC
		U.T.M.:	9.6126 .60100	**Fish Card:**	N	**Field:** Yes **Historical:**	No
Date: 10/09/97	**Time:** 11:15	**Agency:** C87	**Survey Crew:** DB \MM\ \ \ \ \ \ \	**Photos:**		**Air Photos:**	BCB 91179:215

Channel Characteristics

				Specific Data					
Av. Chan. Width (m):	1.4	**Method Av. Chan. Width (m):**	T	1.2	1.4	1.4	1.0	1.9	1.4
Av. Wet. Width (m):	1.0	**Method Av. Wet. Width (m):**	T	1.0	0.9	1.4	0.6	1.1	1.2
Av. Max. Rif. Depth (cm):	6	**Av. Max. Riffle Depth (cm):**	MS	5	7	5			
Av. Max. Pool Depth (cm):	13	**Av. Max. Pool Depth (cm):**	6	15	10	15			
Gradient (%):	2.0	**Method Gradient:**	CL						

% Pool: 80 **% Riffle:** 20 **% Run:** 0 **% Other:** 0 **Method:** GE

% Side Channel:	0	**Method Side Channel:**	GE
% Debris Area:	10-40	**Method Debris Area:**	GE

Cover

Cover Total % :	90	**Method Cover Total %:**	GE						
Dp Pool :	0	**L.O.D.:**	0	**Boulder:**	0	**In Veg.:**	50	**Over Veg:**	50	**Cutbank:**	0
Crown Closure % :	30	**Method Crown Closure:**	GE	**Aspect :**		**Method Aspect:**			MW		

Discharge

				Specific Data
Wetted Width (m) :		**Method Wetted Width (m) :**		
Mean Depth (m) :		**Method Mean Depth (m) :**		
Mean Velocity (m/s) :		**Method Mean Velocity (m/s**	VO	
Discharge (m3/s) :	0.01	**Method Discharge (m3/s) :**		

Reach Symbol

(Fish)

NF

1 C 2.0 | F

(Width, Valley: Channel, Slope) | (Bed Material)

Bed Material

% Fines (<2mm):	100	**% Fines (<2mm):**	100
% Gravels:	0	**Small (2-16mm):**	0
		Large (16-64mm):	0
% Larges:	0	**Small cobble (64-128mm):**	0
		Large cobble (128-256mm):	0
		Boulder cobble (>256mm):	0
% Bedrock:	0	**% Bedrock:**	0
D90 (cm):		**Compaction:**	High

Banks

Height (m):	0.2	**% Unstable:**					0
Textures Fines:	Yes	**Gravel:**	No	**Larges:**	No	**Bedrock:**	No
Confinement:	4						
Valley: Chan. Ratio:	3						
Stage:	L						
Flood Signs Ht(m):	0.2	**Method Flood Signs:**					MS
Braided:	N	**Method Braided:**					GE
Bars (%):	5	**Method Bars:**					GE
pH:		**Method pH:**					
02 (ppm):		**Method Dissolved Oxygen:**					
Water Temp. (°C):	10.0	**Method Temperature:**					TC
Turb. (cm):	200	**Method Turbidity:**					GE
Cond. (µmhos):		**Method Conductivity:**					

Stream/Valley Cross-Section

Fish Summary

Obstructions

Comments

C1	Electrofished 100 m length of stream for 400 s. at proposed road location; no fish were caught/observed. Suspect stream is too small to support a resident fish population and it is not accessible through the wetland complex d/s from O'Dine Creek. Classed as S6 habitat.
C2	Observed a Western Spotted Frog.
C3	Dense alder overstory.
C4	Observed creek at station 2+340, 50 m North on the road: no defined channel, no flow, some standing water, no fish potential.
C5	These creeks do not appear on the 1:20,000 TRIM map and sampling was conducted after the main survey period.

DFO/MoELP Stream Survey Form

10-Feb-98 **Stream:** UNNAMED C. **Watershed Code:** 460-6006-481-000-000-000-000-000-000-000-000

Stream Survey Report

Header Information

Stream Name:	UNNAMED C.	**Stream "Local":**	SWAMP C.			**Access:**	H
Watershed Code:	460-6006-481-000-000-000-000-000-000-000-000			**Reach No.:**	1	**Reach Length (km):** 0.6	**Method:** MW
Location:	SAMPLED LOWER REACH OF MAIN CHANNEL.	**Map #:**	093L024	**Site No.:**	1	**Length surveyed (m):** 100.0	**Method:** HC
		U.T.M. :	9.6104 .60074	**Fish Card:**	N	**Field:** Yes	**Historical:** No
Date: 03/07/97	**Time:** 14:00	**Agency:** C87	**Survey Crew:** RD \IF\ \ \ \ \ \ \	**Photos:**	A9/1, 2	**Air Photos:**	BCB 91179:29

Channel Characteristics

				Specific Data					
Av. Chan. Width (m):	2.5	**Method Av. Chan. Width (m):**	T	2.4	2.9	2.5	2.0	2.5	2.8
Av. Wet. Width (m):	1.1	**Method Av. Wet. Width (m):**	T	0.6	1.7				
Av. Max. Rif. Depth (cm):	3	**Av. Max. Riffle Depth (cm):**	MS	3	2	3			
Av. Max. Pool Depth (cm):	15	**Av. Max. Pool Depth (cm):**	3	20	15	11			
Gradient (%):	1.0	**Method Gradient:**	CL						

% Pool: 20 **% Riffle:** 40 **% Run:** 40 **% Other:** 0 **Method:** GE

% Side Channel:	0	**Method Side Channel:**	GE
% Debris Area:	0-10	**Method Debris Area:**	GE

Cover

Cover Total % :	40	**Method Cover Total %:**	GE						
Dp Pool :	15	**L.O.D.:**	20	**Boulder:**	5	**In Veg.:**	0	**Over Veg:**	40
Cutbank:	20								
Crown Closure % :		**Method Crown Closure:**		**Aspect :**	S	**Method Aspect:**	MW		

Discharge

				Specific Data
Wetted Width (m) :		**Method Wetted Width (m) :**		
Mean Depth (m) :		**Method Mean Depth (m) :**		
Mean Velocity (m/s) :		**Method Mean Velocity (m/s**	VO	
Discharge (m3/s) :	0.01	**Method Discharge (m3/s) :**		

Reach Symbol

(Fish) CO CT	
3 E 1.0	3610
(Width, Valley: Channel, Slope)	(Bed Material)

Bed Material

% Fines (<2mm):	30	**% Fines (<2mm):**	30
% Gravels:	60	**Small (2-16mm):**	30
		Large (16-64mm):	30
% Larges:	10	**Small cobble (64-128mm):**	10
		Large cobble (128-256mm):	0
		Boulder cobble (>256mm):	0
% Bedrock:	0	**% Bedrock:**	0
D90 (cm):	6	**Compaction:**	

Banks

Height (m):	2.0	**% Unstable:**	0
Textures Fines:	Yes	**Gravel:** Yes **Larges:** No **Bedrock:**	No
Confinement:	6		
Valley: Chan. Ratio:	5		
Stage:	L		
Flood Signs Ht(m):	0.4	**Method Flood Signs:**	MS
Braided:	N	**Method Braided:**	GE
Bars (%):	35	**Method Bars:**	GE
pH:	7.1	**Method pH:**	PH
02 (ppm):		**Method Dissolved Oxygen:**	
Water Temp. (°C):	11.0	**Method Temperature:**	TC
Turb. (cm):	200	**Method Turbidity:**	GE
Cond. (µmhos):		**Method Conductivity:**	

DFO/MoELP Stream Survey Form

29-May-98 **Stream:** SWAMP C. **Watershed Code:** 460-6006-481-000-000-000-000-000-000-000-000-000

Stream Survey Report

Stream/Valley Cross-Section

Fish Summary

Species	Number	Size Range (mm)	Life Phase	Use 1	Use 2	Use 3	Method/Reference
CO	9	47-83	J	R			EL
CT	1	124	J	R			EL

Obstructions

Comments

C1 Spot sampled 35 m length of stream with a lower net; CO and CT were caught.

C2 Small, low gradient, single channel. Very low flows on this fan; flows are higher u/s from the fan. Excellent potential CO/CT spawning present. Brush overstory is abundant.

C3 Suspect anadromous fish use end at the 3.5 m high chute located in lower R2.

C4 Tributary SW1 was not found during the ground survey or the air survey; SW1 was mapped as not observed.

DFO/MoELP Stream Survey Form

10-Feb-98 **Stream:** UNNAMED C. **Watershed Code:** 460-6006-SW -000-000-000-000-000-000-000-000-000

Stream Survey Report

Header Information

Stream Name:	UNNAMED C.	**Stream "Local":**	SWAMP C.			**Access:**	FT
Watershed Code:	460-6006-SW -000-000-000-000-000-000-000-000-000			**Reach No.:**	3	**Reach Length (km):** 1.0 **Method:**	MW
Location:	HIKED 500 m D/S FROM ROAD.	**Map #:**	093L024	**Site No.:**	2	**Length surveyed (m):** 500.0 **Method:**	HC
		U.T.M. :	9.6104 .60074	**Fish Card:**	N	**Field:** Yes **Historical:**	No
Date: 02/07/97	**Time:** 14:00	**Agency:** C87	**Survey Crew:** RD \CP \ \ \ \ \ \	**Photos:**	A8/14, 15	**Air Photos:**	BCB 91179:29

Channel Characteristics

				Specific Data				
Av. Chan. Width (m):	1.6	**Method Av. Chan. Width (m):**	T	1.8	1.6	0.7	2.3	1.5
Av. Wet. Width (m):	0.9	**Method Av. Wet. Width (m):**	T	1.2	0.9	0.7		
Av. Max. Rif. Depth (cm):	8	**Av. Max. Riffle Depth (cm):**	MS	10	5	8		
Av. Max. Pool Depth (cm):	26	**Av. Max. Pool Depth (cm):**	8	17	41	19		
Gradient (%):	3.0	**Method Gradient:**	CL					
% Pool: 30	**% Riffle:** 30	**% Run:** 40	**% Other:** 0	**Method:** GE				
% Side Channel:	0	**Method Side Channel:**	GE					
% Debris Area:	0-10	**Method Debris Area:**	GE					

Cover

Cover Total % :	40	**Method Cover Total %:**	GE						
Dp Pool : 30	**L.O.D.:** 15	**Boulder:** 10	**In Veg.:** 10	**Over Veg:**	15	**Cutbank:**	20		
Crown Closure % :	70	**Method Crown Closure:**	GE	**Aspect :**	W	**Method Aspect:**	MW		

Discharge

				Specific Data
Wetted Width (m) :		**Method Wetted Width (m) :**		
Mean Depth (m) :		**Method Mean Depth (m) :**		
Mean Velocity (m/s) :		**Method Mean Velocity (m/s**	VO	
Discharge (m3/s) :	0.03	**Method Discharge (m3/s) :**		

Reach Symbol

(Fish)

CT

2 B 3.0	2440
(Width, Valley: Channel, Slope)	(Bed Material)

Bed Material

% Fines (<2mm):	20	**% Fines (<2mm):**	20
% Gravels:	45	**Small (2-16mm):**	15
		Large (16-64mm):	30
% Larges:	35	**Small cobble (64-128mm):**	15
		Large cobble (128-256mm):	5
		Boulder cobble (>256mm):	15
% Bedrock:	0	**% Bedrock:**	0
D90 (cm):	30	**Compaction:**	Medium

Banks

Height (m):	1.5	**% Unstable:**	0
Textures Fines:	No	**Gravel:** Yes **Larges:** No **Bedrock:**	No
Confinement:	3		
Valley: Chan. Ratio:	2		
Stage:	L		
Flood Signs Ht(m):	0.2	**Method Flood Signs:**	MS
Braided:	N	**Method Braided:**	GE
Bars (%):	5	**Method Bars:**	GE
pH:	7.5	**Method pH:**	PH
02 (ppm):		**Method Dissolved Oxygen:**	
Water Temp. (°C):	11.0	**Method Temperature:**	TC
Turb. (cm):	200	**Method Turbidity:**	GE
Cond. (µmhos):	50	**Method Conductivity:**	CM

DFO/MoELP Stream Survey Form

29-May-98 **Stream:** SWAMP C. **Watershed Code:** 460-6006-SW -000-000-000-000-000-000-000-000-000

Stream Survey Report

Stream/Valley Cross-Section

Fish Summary

Species	Number	Size Range (mm)	Life Phase	Use 1	Use 2	Use 3	Method/Reference
CT	3	104-113	J	R			EL

Obstructions

Obstruction Ht(m)	Type	Location
5	F	

Comments

C1 Electrofished 70 m length of stream for 720 s. with no lower net; CT were caught. Also sampled below the road culvert; no fish were caught.

C2 Very small creek with trickle flow discharge. Single channel is confined with moss-covered boulders and small gravel bed material. Pockets of potential spawning are present.

C3 The 4.5 m high impassable falls at the top of this reach is the end point of fish distribution.

DFO/MoELP Stream Survey Form

10-Feb-98 Stream: UNNAMED C. Watershed Code: 460-6006-SW -000-000-000-000-000-000-000-000-000

Stream Survey Report

Header Information

Stream Name:	UNNAMED C.	**Stream "Local":**	SWAMP C.			**Access:**	V2
Watershed Code:	460-6006-SW -000-000-000-000-000-000-000-000-000			**Reach No.:**	4	**Reach Length (km):** 1.0	**Method:** MW
Location:	100 m D/S FROM ROAD CULVERT.	**Map #:**	093L024	**Site No.:**	3	**Length surveyed (m):** 100.0	**Method:** HC
		U.T.M. :	9.6104 .60074	**Fish Card:**	N	**Field:** Yes	**Historical:** No
Date: 29/05/97	**Time:** 10:00	**Agency:** C87	**Survey Crew:** RD \CP\ \ \ \ \ \ \	**Photos:**	A1/6, 7	**Air Photos:**	BCB 91179:29

Channel Characteristics

					Specific Data					
Av. Chan. Width (m):	1.8	**Method Av. Chan. Width (m):**	T	0.6	2.8	1.9	0.9	1.5	3.1
Av. Wet. Width (m):	1.8	**Method Av. Wet. Width (m):**	T	0.6	2.8	1.9	0.9	1.5	3.1
Av. Max. Rif. Depth (cm):	22	**Av. Max. Riffle Depth (cm):**	MS	25	18				
Av. Max. Pool Depth (cm):	87	**Av. Max. Pool Depth (cm):**	22	80	110	70			
Gradient (%):	1.5	**Method Gradient:**	CL						

% Pool: 20 **% Riffle:** 5 **% Run:** 75 **% Other:** 0 **Method:** GE

% Side Channel:	0-10	**Method Side Channel:**	GE
% Debris Area:	10-40	**Method Debris Area:**	GE

Cover

Cover Total % :	80	**Method Cover Total %:**	GE						
Dp Pool : 40	**L.O.D.:** 5	**Boulder:** 0	**In Veg.:** 15	**Over Veg:**	10	**Cutbank:**	30		
Crown Closure % :	10	**Method Crown Closure:**	GE	**Aspect :**	S	**Method Aspect:**	MW		

Discharge

				Specific Data
Wetted Width (m) :		**Method Wetted Width (m) :**		
Mean Depth (m) :		**Method Mean Depth (m) :**		
Mean Velocity (m/s) :		**Method Mean Velocity (m/s**	VO	
Discharge (m3/s) :	0.20	**Method Discharge (m3/s) :**		

Reach Symbol

(Fish)

NF

2 C 1.5 | F

(Width, Valley: Channel, Slope) | (Bed Material)

Bed Material

% Fines (<2mm):	100	**% Fines (<2mm):**	100
% Gravels:	0	**Small (2-16mm):**	0
		Large (16-64mm):	0
% Larges:	0	**Small cobble (64-128mm):**	0
		Large cobble (128-256mm):	0
		Boulder cobble (>256mm):	0
% Bedrock:	0	**% Bedrock:**	0
D90 (cm):		**Compaction:**	High

Banks

Height (m):	0.3	**% Unstable:**	0				
Textures Fines:	Yes	**Gravel:** No	**Larges:** No	**Bedrock:** No			
Confinement:	5						
Valley: Chan. Ratio:	3						
Stage:	H						
Flood Signs Ht(m):	0.5	**Method Flood Signs:**	MS				
Braided:	N	**Method Braided:**	GE				
Bars (%):	5	**Method Bars:**	GE				
pH:	8.2	**Method pH:**	PH				
02 (ppm):		**Method Dissolved Oxygen:**					
Water Temp. (°C):	7.0	**Method Temperature:**	TC				
Turb. (cm):	200	**Method Turbidity:**	GE				
Cond. (µmhos):	30	**Method Conductivity:**	CM				

DFO/MoELP Stream Survey Form

29-May-98 **Stream:** SWAMP C. **Watershed Code:** 460-6006-SW -000-000-000-000-000-000-000-000-000

Stream Survey Report

Stream/Valley Cross-Section

Fish Summary

Obstructions

Obstruction Ht(m)	Type	Location
1	X	

Comments

C1 Electrofished 100 m length of stream for 417 s. with a lower net. No fish were caught/observed. Classed as S6 habitat due to the impassable falls d/s.

C2 Water is tannic in colour. Air Temp.: 10 C. The average max. pool depth is actually the value for the average max. run depth; the 40% cover is the cover from deep run, not deep pool.

C3 Reach consists of of low gradient run habitat meandering through a large marsh/wetland. Heavy alder swale lines the creek in some sections.

C4 Tributary SW3 was surveyed by air: suspect fish use in this stream; classed as suspected S4 habitat.

SECTION 3 - PHOTODOCUMENTATION

TAGIT CREEK AND ADJACENT TRIBUTARIES STREAM INVENTORY PHOTODOCUMENTATION - 1997

Photo #	Stream name (gaz.)	Stream name (loc.)	Watershed code	Crew (init 1)	Crew (init 2)	Reach/ site card (Y/N)	Fish cards (Y/N)	Roll/ Batch #	Count. #	Neg. #	Date of photo	Reach #	Site #	Map # NTS/TRIM	UTM (E)	UTM (N)	Stream photo dir.	Picture type	Photo dir.	Comments
1	Unnamed Creek	Unnamed Creek	460-6006-397-000-000-000-000-000-000-000-000	RD	CP	Y	N	A2	2	2	1997/06/04	2	1	093L025	6212	60056	Up	Ch	N	
2	Unnamed Creek	Unnamed Creek	460-6006-397-000-000-000-000-000-000-000-000	RD	CP	Y	N	A2	3	3	1997/06/04	2	1	093L025	6212	60056	Dn	Ch	S	
3	False Tagit Creek	False Tagit Creek	460-6006-407-000-000-000-000-000-000-000-000	RD		Y	Y	A3	3	3	1997/06/11	2	1	093L025	6192	60061	Up	Ch	NE	
4	False Tagit Creek	False Tagit Creek	460-6006-407-000-000-000-000-000-000-000-000	RD		Y	Y	A3	2	2	1997/06/11	2	1	093L025	6192	60061	Dn	Ch	SW	
5	False Tagit Creek	False Tagit Creek	460-6006-407-000-000-000-000-000-000-000-000	CP	JB	Y	N	B1	13	13	1997/06/12	3	2	093L025	6192	60061	Up	Ch	N	
6	False Tagit Creek	False Tagit Creek	460-6006-407-000-000-000-000-000-000-000-000	CP	JB	Y	N	B1	14	14	1997/06/12	3	2	093L025	6192	60061	Dn	Ch	S	
7	False Tagit Creek	False Tagit Creek	460-6006-407-000-000-000-000-000-000-000-000	CP	JB	Y	N	B1	1	1	1997/06/11	4	3	093L025	6192	60061	Up	Ch	W	
8	False Tagit Creek	False Tagit Creek	460-6006-407-000-000-000-000-000-000-000-000	CP	JB	Y	N	B1	2	2	1997/06/11	4	3	093L025	6192	60061	Dn	Ch	E	
9	False Tagit Creek	False Tagit Creek	460-6006-407-000-000-000-000-000-000-000-000	CP	JB	Y	N	B1	16	16	1997/06/11	4	3	093L025	6192	60061	Xs	O	N	Road culvert.
10	False Tagit Creek	False Tagit Creek	460-6006-407-000-000-000-000-000-000-000-000	RD	IF	Y	N	A10	1	1	1997/07/08	4	4	093L025	6192	60061	Up	Ch	NW	
11	False Tagit Creek	False Tagit Creek	460-6006-407-000-000-000-000-000-000-000-000	RD	IF	Y	N	A10	2	2	1997/07/08	4	4	093L025	6192	60061	Dn	Ch	SE	
12	False Tagit Creek	False Tagit Creek	460-6006-407-000-000-000-000-000-000-000-000	DB	CP	N	N	B2	15	14	1997/07/08	5	n/a	093L025	6192	60061	Dn	L	SW	Aerial view of lake.
13	False Tagit Creek	False Tagit Creek	460-6006-407-000-000-000-000-000-000-000-000	DB	CP	Y	N	B2	18	17	1997/07/08	6	5	093L025	6192	60061	Up	Ch	NE	
14	False Tagit Creek	False Tagit Creek	460-6006-407-000-000-000-000-000-000-000-000	DB	CP	Y	N	B2	17	16	1997/07/08	6	5	093L025	6192	60061	Dn	Ch	SW	
15	False Tagit Creek	False Tagit Creek	460-6006-407-000-000-000-000-000-000-000-000	RD	IF	Y	N	A10	7	7	1997/07/08	7	6	093L025	6192	60061	Up	Ch	NW	
16	False Tagit Creek	False Tagit Creek	460-6006-407-000-000-000-000-000-000-000-000	RD	IF	Y	N	A10	8	8	1997/07/08	7	6	093L025	6192	60061	Dn	Ch	SE	
17	False Tagit Creek	False Tagit Creek	460-6006-407-000-000-000-000-000-000-000-000	RD	IF	Y	N	A9	22	22	1997/07/08	8	7	093L025	6192	60061	Up	Ch	NW	
18	False Tagit Creek	False Tagit Creek	460-6006-407-000-000-000-000-000-000-000-000	RD	IF	Y	N	A9	23	23	1997/07/08	8	7	093L025	6192	60061	Dn	Ch	SE	
19	False Tagit Creek Tributary	FTa1	460-6006-407-FTa-1 -000-000-000-000-000-000-000	RD	CP	Y	N	A2	4	4	1997/06/04	2	8	093L025	6194	60066	Up	Ch	NE	
20	False Tagit Creek Tributary	FTa1	460-6006-407-FTa-1 -000-000-000-000-000-000-000	RD	CP	Y	N	A2	5	5	1997/06/04	2	8	093L025	6194	60066	Dn	Ch	SW	
21	False Tagit Creek Tributary	Fta4	460-6006-407-FTa-4 -000-000-000-000-000-000-000	CP	JB	Y	N	B1	11	11	1997/06/12	1	9	093L025	6202	60094	Up	Ch	NE	
22	False Tagit Creek Tributary	Fta4	460-6006-407-FTa-4 -000-000-000-000-000-000-000	CP	JB	Y	N	B1	12	12	1997/06/12	1	9	093L025	6202	60094	Dn	Ch	SW	
23	False Tagit Creek Tributary	Fta4	460-6006-407-FTa-4 -000-000-000-000-000-000-000	RD	CP	Y	N	A2	6	6	1997/06/04	2	10	093L025	6202	60094	Up	Ch	NE	
24	False Tagit Creek Tributary	Fta4	460-6006-407-FTa-4 -000-000-000-000-000-000-000	RD	CP	Y	N	A2	7	7	1997/06/04	2	10	093L025	6202	60094	Dn	Ch	SW	
25	False Tagit Creek Tributary	Fta5	460-6006-407-481-000-000-000-000-000-000-000	RD		Y	N	A3	6	6	1997/06/11	1	11	093L025	6204	60104	Up	Ch	NE	
26	False Tagit Creek Tributary	Fta5	460-6006-407-481-000-000-000-000-000-000-000	RD		Y	N	A3	7	7	1997/06/11	1	11	093L025	6204	60104	Dn	Ch	SW	
27	False Tagit Creek Tributary	Fta5	460-6006-407-481-000-000-000-000-000-000-000	CP	JB	Y	N	B1	5	5	1997/06/11	2	12	093L025	6204	60104	Up	Ch	NE	
28	False Tagit Creek Tributary	Fta5	460-6006-407-481-000-000-000-000-000-000-000	CP	JB	Y	N	B1	6	6	1997/06/11	2	12	093L025	6204	60104	Dn	Ch	SW	
29	False Tagit Creek Tributary	Fta5	460-6006-407-481-000-000-000-000-000-000-000	CP	JB	Y	N	B2	23	22	1997/07/08	3	13	093L025	6204	60104	Up	Ch	NE	
30	False Tagit Creek Tributary	Fta5	460-6006-407-481-000-000-000-000-000-000-000	CP	JB	Y	N	B2	24	23	1997/07/08	3	13	093L025	6204	60104	Dn	Ch	SW	
31	False Tagit Creek Tributary	Fta5	460-6006-407-481-000-000-000-000-000-000-000	RD	IF	Y	N	A10	9	9	1997/07/06	5	14	093L025	6204	60104	Up	Ch	N	
32	False Tagit Creek Tributary	Fta5	460-6006-407-481-000-000-000-000-000-000-000	RD	IF	Y	N	A10	10	10	1997/07/06	5	14	093L025	6204	60104	Dn	Ch	S	
33	False Tagit Creek Tributary	Fta5.1	460-6006-407-481-221-000-000-000-000-000-000	CP	JB	Y	N	B1	3	3	1997/06/11	1	15	093L025	6211	60112	Up	Ch	N	
34	False Tagit Creek Tributary	Fta5.1	460-6006-407-481-221-000-000-000-000-000-000	CP	JB	Y	N	B1	4	4	1997/06/11	1	15	093L025	6211	60112	Dn	Ch	S	
35	False Tagit Creek Tributary	Fta5.1	460-6006-407-481-221-000-000-000-000-000-000	CP	DB	Y	N	B2	21	20	1997/07/08	2	16	093L025	6211	60112	Up	Ch	NW	
36	False Tagit Creek Tributary	Fta5.1	460-6006-407-481-221-000-000-000-000-000-000	CP	DB	Y	N	B2	22	21	1997/07/08	2	16	093L025	6211	60112	Dn	Ch	SE	
37	False Tagit Creek Tributary	Fta5.1	460-6006-407-481-221-000-000-000-000-000-000	CP	DB	Y	N	B2	19	18	1997/07/08	3	n/a	093L025	6211	60112	Up	Ch	NW	
38	False Tagit Creek Tributary	Fta5.1	460-6006-407-481-221-000-000-000-000-000-000	CP	DB	Y	N	B2	20	19	1997/07/08	3	n/a	093L025	6211	60112	Dn	Ch	SE	
39	False Tagit Creek Tributary	Fta5.2	460-6006-407-481-295-000-000-000-000-000-000	CP	JB	Y	N	B1	7	7	1997/06/11	1	17	093L025	6215	60113	Up	Ch	S	
40	False Tagit Creek Tributary	Fta5.2	460-6006-407-481-295-000-000-000-000-000-000	CP	JB	Y	N	B1	8	8	1997/06/11	1	17	093L025	6215	60113	Dn	Ch	N	
41	False Tagit Creek Tributary	Fta5.2	460-6006-407-481-295-000-000-000-000-000-000	RD		N	N	A3	4	4	1997/06/11	n/a	n/a	093L025	6215	60113	Up	L	S	Lake on False Tagit Creek Tributary FTa5.2.
42	False Tagit Creek Tributary	Fta5.2	460-6006-407-481-295-000-000-000-000-000-000	RD		N	N	A3	5	5	1997/06/11	n/a	n/a	093L025	6215	60113	Dn	L	N	Lake on False Tagit Creek Tributary FTa5.2.
43	False Tagit Creek Tributary	Fta5.3	460-6006-407-481-FTa-5.3-000-000-000-000-000-000	RD	CP	Y	N	B1	9	9	1997/06/11	1	18	093L025	6216	60114	Up	Ch	N	
44	False Tagit Creek Tributary	Fta5.3	460-6006-407-481-FTa-5.3-000-000-000-000-000-000	RD	CP	Y	N	B1	10	10	1997/06/11	1	18	093L025	6216	60114	Dn	Ch	S	
45	False Tagit Creek Tributary	Fta5.4	460-6006-407-481-FTa-5.4-000-000-000-000-000-000	DB	CP	Y	N	B2	25	24	1997/07/08	1	19	093L025	6222	60118	Up	Ch	N	
46	False Tagit Creek Tributary	Fta5.4	460-6006-407-481-FTa-5.4-000-000-000-000-000-000	DB	CP	Y	N	B3	1	1	1997/07/08	1	19	093L025	6222	60118	Dn	Ch	S	
47	False Tagit Creek Tributary	Fta5.4	460-6006-407-481-FTa-5.4-000-000-000-000-000-000	DB	CP	Y	N	B3	4	4	1997/07/08	1	20	093L025	6222	60118	Up	Ch	N	
48	False Tagit Creek Tributary	Fta5.4	460-6006-407-481-FTa-5.4-000-000-000-000-000-000	DB	CP	Y	N	B3	5	5	1997/07/08	1	20	093L025	6222	60118	Dn	Ch	S	
49	False Tagit Creek Tributary	Fta5.4	460-6006-407-481-FTa-5.4-000-000-000-000-000-000	DB	CP	Y	N	B3	2	2	1997/07/08	1	21	093L025	6222	60118	Up	Ch	NW	
50	False Tagit Creek Tributary	Fta5.4	460-6006-407-481-FTa-5.4-000-000-000-000-000-000	DB	CP	Y	N	B3	3	3	1997/07/08	1	21	093L025	6222	60118	Dn	Ch	SE	
51	False Tagit Creek Tributary	FTa6	460-6006-407-660-000-000-000-000-000-000-000	RD	IF	Y	N	A10	3	3	1997/07/08	1	22	093L025	6194	60119	Up	Ch	NW	
52	False Tagit Creek Tributary	FTa6	460-6006-407-660-000-000-000-000-000-000-000	RD	IF	Y	N	A10	4	4	1997/07/08	1	22	093L025	6194	60119	Dn	Ch	SE	
53	False Tagit Creek Tributary	FTa6.1	460-6006-407-660-FTa-6.1-000-000-000-000-000-000	RD	IF	Y	N	A10	5	5	1997/07/08	1	23	093L025	6195	60120	Up	Ch	NE	
54	False Tagit Creek Tributary	FTa6.1	460-6006-407-660-FTa-6.1-000-000-000-000-000-000	RD	IF	Y	N	A10	6	6	1997/07/08	1	23	093L025	6195	60120	Dn	Ch	SW	
55	Tagit Creek	Tagit Creek	460-6006-445-000-000-000-000-000-000-000-000	CP	RD	Y	N	A8	16	15	1997/07/02	1	1	093L024	6148	60066	Up	Ch	N	
56	Tagit Creek	Tagit Creek	460-6006-445-000-000-000-000-000-000-000-000	CP	RD	Y	N	A8	17	16	1997/07/02	1	1	093L024	6148	60066	Dn	Ch	S	
57	Tagit Creek	Tagit Creek	460-6006-445-000-000-000-000-000-000-000-000	CP	RD	Y	N	A8	19	18	1997/07/02	1	1	093L024	6148	60066	n/a	FI	n/a	CT, CO and SST samples.
58	Tagit Creek	Tagit Creek	460-6006-445-000-000-000-000-000-000-000-000	DB	CP	Y	N	B2	1	0	1997/07/03	4	2	093L024	6148	60066	Up	Ch	NW	
59	Tagit Creek	Tagit Creek	460-6006-445-000-000-000-000-000-000-000-000	DB	CP	Y	N	B2	2	1	1997/07/03	4	2	093L024	6148	60066	Dn	Ch	SE	
60	Tagit Creek	Tagit Creek	460-6006-445-000-000-000-000-000-000-000-000	DB	CP	N	N	B2	3	2	1997/07/03	4	n/a	093L024	6148	60066	Up	L	NW	Gravel fan at inlet of Chisholm Lake.
61	Tagit Creek	Tagit Creek	460-6006-445-000-000-000-000-000-000-000-000	DB	CP	N	N	B2	4	3	1997/07/03	2	n/a	093L024	6148	60066	Dn	L	SW	Chisholm Lake outlet.
62	Tagit Creek	Tagit Creek	460-6006-445-000-000-000-000-000-000-000-000	RD	CP	Y	N	A8	8	7	1997/07/01	4	3	093L024	6148	60066	Up	Ch	NW	
63	Tagit Creek	Tagit Creek	460-6006-445-000-000-000-000-000-000-000-000	RD	CP	Y	N	A6	9	8	1997/07/01	4	3	093L024	6148	60066	Dn	Ch	SE	
64	Tagit Creek	Tagit Creek	460-6006-445-000-000-000-000-000-000-000-000	RD	CP	Y	N	A7	22	22	1997/06/18	4	4	093L024	6148	60066	Up	Ch	NE	
65	Tagit Creek	Tagit Creek	460-6006-445-000-000-000-000-000-000-000-000	RD	CP	Y	N	A7	21	21	1997/06/18	4	4	093L024	6148	60066	Dn	Ch	SW	
66	Tagit Creek	Tagit Creek	460-6006-445-000-000-000-000-000-000-000-000	RD	CP	Y	N	A7	18	18	1997/06/18	5	5	093L024	6148	60066	Up	Ch	NE	
67	Tagit Creek	Tagit Creek	460-6006-445-000-000-000-000-000-000-000-000	RD	CP	Y	N	A7	19	19	1997/06/18	5	5	093L024	6148	60066	Dn	Ch	SW	
68	Tagit Creek	Tagit Creek	460-6006-445-000-000-000-000-000-000-000-000	RD	CP	Y	N	A7	20	20	1997/06/18	5	5	093L024	6148	60066	n/a	FI	n/a	Adult CT.
69	Tagit Creek	Tagit Creek	460-6006-445-000-000-000-000-000-000-000-000	RD	CP	Y	N	A7	15	15	1997/06/18	6	6	093L024	6148	60066	Up	Ch	NW	
70	Tagit Creek	Tagit Creek	460-6006-445-000-000-000-000-000-000-000-000	RD	CP	Y	N	A7	16	16	1997/06/18	6	6	093L024	6148	60066	Dn	Ch	SE	

Photo #	Stream name (gaz.)	Stream name (loc.)	Watershed code	Crew (init 1)	Crew (init 2)	Reach/ site card (Y/N)	Fish cards (Y/N)	Roll/ Batch #	Count. #	Neg. #	Date of photo	Reach #	Site #	Map # NTS/TRIM	UTM (E)	UTM (N)	Stream photo dir.	Picture type	Photo dir.	Comments
71	Tagit Creek	Tagit Creek	460-6006-445-000-000-000-000-000-000-000-000-000	RD	CP	Y	N	A7	17	17	1997/06/18	6	6	093L024	6148	60066	n/a	Fl	n/a	DV and CT juveniles.
72	Tagit Creek	Tagit Creek	460-6006-445-000-000-000-000-000-000-000-000-000	CP	RD	Y	N	A8	1	0	1997/07/01	6	7	093L024	6148	60066	Up	Ch	NW	
73	Tagit Creek	Tagit Creek	460-6006-445-000-000-000-000-000-000-000-000-000	CP	RD	Y	N	A8	2	1	1997/07/01	6	7	093L024	6148	60066	Dn	Ch	SE	
74	Tagit Creek	Tagit Creek	460-6006-445-000-000-000-000-000-000-000-000-000	CP	RD	Y	N	A8	3	2	1997/07/01	6	7	093L024	6148	60066	Up	O	NW	Road culvert.
75	Tagit Creek	Tagit Creek	460-6006-445-000-000-000-000-000-000-000-000-000	DB	CP	Y	N	B2	11	10	1997/07/03	7	8	093L024	6148	60066	Up	Ch	W	
76	Tagit Creek	Tagit Creek	460-6006-445-000-000-000-000-000-000-000-000-000	DB	CP	Y	N	B2	12	11	1997/07/03	7	8	093L024	6148	60066	Dn	Ch	E	
77	Tagit Creek Tributary	Ta1	460-6006-445-112-000-000-000-000-000-000-000-000	RD	CP	Y	Y	A1	2	2	1997/05/28	1	9	093L024	6150	60078	Up	Ch	NW	
78	Tagit Creek Tributary	Ta1	460-6006-445-112-000-000-000-000-000-000-000-000	RD	CP	Y	Y	A1	3	3	1997/05/28	1	9	093L024	6150	60078	Dn	Ch	SE	
79	Tagit Creek Tributary	Ta1.2	460-6006-445-112-Ta1-.2 -000-000-000-000-000-000	RD	CP	Y	N	A1	4	4	1997/05/28	1	10	093L024	6145	60085	Up	Ch	NW	
80	Tagit Creek Tributary	Ta1.2	460-6006-445-112-Ta1-.2 -000-000-000-000-000-000	RD	CP	Y	N	A1	5	5	1997/05/28	1	10	093L024	8145	60085	Dn	Ch	SE	
81	Tagit Creek Tributary	Ta1	460-6006-445-112-000-000-000-000-000-000-000-000	RD	CP	Y	N	A1	10	10	1997/05/29	2	11	093L024	6150	60078	Up	Ch	NW	
82	Tagit Creek Tributary	Ta1	460-6006-445-112-000-000-000-000-000-000-000-000	RD	CP	Y	N	A1	11	11	1997/05/29	2	11	093L024	6150	60078	Dn	Ch	SE	
83	Tagit Creek Tributary	Ta1	460-6006-445-112-000-000-000-000-000-000-000-000	DB	CP	Y	N	B2	7	6	1997/07/03	3	12	093L024	6150	60078	Up	Ch	NW	
84	Tagit Creek Tributary	Ta1	460-6006-445-112-000-000-000-000-000-000-000-000	DB	CP	Y	N	B2	8	7	1997/07/03	3	12	093L024	6150	60078	Dn	Ch	SE	
85	Tagit Creek Tributary	Ta1	460-6006-445-112-000-000-000-000-000-000-000-000	DB	CP	Y	N	B2	5	4	1997/07/03	4	13	093L024	6150	60078	Up	Ch	NW	
86	Tagit Creek Tributary	Ta1	460-6006-445-112-000-000-000-000-000-000-000-000	DB	CP	Y	N	B2	6	5	1997/07/03	4	13	093L024	6150	60078	Dn	Ch	SE	
87	Tagit Creek Tributary	Ta3	460-6006-445-Ta3-000-000-000-000-000-000-000-000	RD	CP	Y	N	A1	25	25	1997/05/30	1	14	093L024	6173	60083	Up	Ch	E	
88	Tagit Creek Tributary	Ta3	460-6006-445-Ta3-000-000-000-000-000-000-000-000	RD	CP	Y	N	A2	1	1	1997/05/30	1	14	093L024	6173	60083	Dn	Ch	W	
89	Tagit Creek Tributary	Ta3	460-6006-445-Ta3-000-000-000-000-000-000-000-000	RD	CP	Y	N	A1	23	23	1997/05/30	2	15	093L025	6173	60083	Up	Ch	E	
90	Tagit Creek Tributary	Ta3	460-6006-445-Ta3-000-000-000-000-000-000-000-000	RD	CP	Y	N	A1	24	24	1997/05/30	2	15	093L025	6173	60083	Dn	Ch	W	
91	Tagit Creek Tributary	Ta4	460-6006-445-Ta4-000-000-000-000-000-000-000-000	DB	CP	Y	N	B2	13	12	1997/07/03	1	16	093L025	6169	60086	Up	Ch	E	
92	Tagit Creek Tributary	Ta4	460-6006-445-Ta4-000-000-000-000-000-000-000-000	DB	CP	Y	N	B2	14	13	1997/07/03	1	16	093L025	6169	60086	Dn	Ch	W	
93	Tagit Creek Tributary	Ta4	460-6006-445-Ta4-000-000-000-000-000-000-000-000	RD	CP	Y	N	A2	8	8	1997/06/04	2	17	093L025	6169	60086	Up	Ch	NE	
94	Tagit Creek Tributary	Ta4	460-6006-445-Ta4-000-000-000-000-000-000-000-000	RD	CP	Y	N	A2	9	9	1997/06/04	2	17	093L025	6169	60086	Dn	Ch	SW	
95	Tagit Creek Tributary	Ta7	460-6006-445-389-000-000-000-000-000-000-000-000	RD	CP	Y	N	A1	12	12	1997/05/29	1	18	093L024	6149	60098	Up	Ch	NW	
96	Tagit Creek Tributary	Ta7	460-6006-445-389-000-000-000-000-000-000-000-000	RD	CP	Y	N	A1	13	13	1997/05/29	1	18	093L024	6149	60098	Dn	Ch	SE	
97	Tagit Creek Tributary	Ta7	460-6006-445-389-000-000-000-000-000-000-000-000	RD	CP	Y	N	A1	20	20	1997/05/30	1	n/a	093L024	6149	60098	Up	O	NW	Road culvert.
98	Tagit Creek Tributary	Ta7	460-6006-445-389-000-000-000-000-000-000-000-000	RD	CP	Y	N	A8	12	11	1997/07/02	2	19	093L024	6149	60098	Up	Ch	NW	
99	Tagit Creek Tributary	Ta7	460-6006-445-389-000-000-000-000-000-000-000-000	RD	CP	Y	N	A8	13	12	1997/07/02	2	19	093L024	6149	60098	Dn	Ch	SE	
100	Tagit Creek Tributary	Ta7	460-6006-445-389-000-000-000-000-000-000-000-000	RD	CP	Y	N	A1	14	14	1997/05/29	3	20	093L024	6149	60098	Up	Ch	N	Creek at high flows.
101	Tagit Creek Tributary	Ta7	460-6006-445-389-000-000-000-000-000-000-000-000	RD	CP	Y	N	A1	15	15	1997/05/29	3	20	093L024	6149	60098	Dn	Ch	S	Creek at high flows.
102	Tagit Creek Tributary	Ta7	460-6006-445-389-000-000-000-000-000-000-000-000	RD	CP	Y	N	A8	11	10	1997/07/02	3	20	093L024	6149	60098	Up	Ch	N	Creek at low flows.
103	Tagit Creek Tributary	Ta7	460-6006-445-389-000-000-000-000-000-000-000-000	RD	CP	Y	N	A8	10	9	1997/07/02	3	20	093L024	6149	60098	Dn	Ch	S	Creek at low flows.
104	Tagit Creek Tributary	Ta7	460-6006-445-389-000-000-000-000-000-000-000-000	RD	CP	Y	N	A1	16	16	1997/05/30	4	21	093L024	6149	60098	Up	Ch	NE	
105	Tagit Creek Tributary	Ta7	460-6006-445-389-000-000-000-000-000-000-000-000	RD	CP	Y	N	A1	19	19	1997/05/30	4	21	093L024	6149	60098	Dn	Ch	SW	
106	Tagit Creek Tributary	Ta9	460-6006-445-Ta9-000-000-000-000-000-000-000-000	RD	CP	Y	N	A8	6	5	1997/07/01	1	22	093L024	6172	60314	Up	Ch	NE	
107	Tagit Creek Tributary	Ta9	460-6006-445-Ta9-000-000-000-000-000-000-000-000	RD	CP	Y	N	A8	7	6	1997/07/01	1	22	093L024	6172	60314	Dn	Ch	SW	
108	Tagit Creek Tributary	Ta9	460-6006-445-Ta9-000-000-000-000-000-000-000-000	RD	IF	Y	N	A9	5	5	1997/07/03	2	23	093L024	6172	60314	Up	Ch	NE	
109	Tagit Creek Tributary	Ta9	460-6006-445-Ta9-000-000-000-000-000-000-000-000	RD	IF	Y	N	A9	6	6	1997/07/03	2	23	093L024	6172	60314	Dn	Ch	SW	
110	Tagit Creek Tributary	Ta9	460-6006-445-Ta9-000-000-000-000-000-000-000-000	RD	IF	Y	N	A9	20	20	1997/07/08	3	24	093L025	6172	60314	Up	Ch	NW	
111	Tagit Creek Tributary	Ta9	460-6006-445-Ta9-000-000-000-000-000-000-000-000	RD	IF	Y	N	A9	21	21	1997/07/08	3	24	093L025	6172	60314	Dn	Ch	SE	
112	Tagit Creek Tributary	Ta9.1	460-6006-445-Ta9-.1 -000-000-000-000-000-000	RD	CP	Y	N	A8	4	3	1997/07/01	1	25	093L024	6172	60135	Up	Ch	NW	
113	Tagit Creek Tributary	Ta9.1	460-6006-445-Ta9-.1 -000-000-000-000-000-000	RD	CP	Y	N	A8	5	4	1997/07/01	1	25	093L024	6172	60135	Dn	Ch	SE	
114	Tagit Creek Tributary	Ta9.2	460-6006-445-Ta9-.2 -000-000-000-000-000-000	RD	IF	Y	N	A9	3	3	1997/07/03	1	26	093L025	6176	60138	Up	Ch	NW	
115	Tagit Creek Tributary	Ta9.2	460-6006-445-Ta9-.2 -000-000-000-000-000-000	RD	IF	Y	N	A9	4	4	1997/07/03	1	26	093L025	6176	60138	Dn	Ch	SE	
116	Tagit Creek Tributary	Ta10	460-6006-445-Ta -10 -000-000-000-000-000-000	RD	CP	Y	N	A1	17	17	1997/05/29	1	27	093L024	6170	60135	Up	Ch	W	
117	Tagit Creek Tributary	Ta10	460-6006-445-Ta -10 -000-000-000-000-000-000	RD	CP	Y	N	A1	16	16	1997/05/29	1	27	093L024	6170	60135	Dn	Ch	E	
118	O'Dine Creek	O'Dine Creek	460-6006-474-000-000-000-000-000-000-000-000-000	RD	IF	Y	N	A8	23	22	1997/07/03	1	1	093L024	6123	60076	Up	Ch	NE	
119	O'Dine Creek	O'Dine Creek	460-6006-474-000-000-000-000-000-000-000-000-000	RD	IF	Y	N	A8	24	23	1997/07/03	1	1	093L024	6123	60076	Dn	Ch	SW	
120	O'Dine Creek	O'Dine Creek	460-6006-474-000-000-000-000-000-000-000-000-000	RD	CP	Y	N	A1	8	8	1997/05/29	2	2	093L024	6123	60076	Up	Ch	NW	
121	O'Dine Creek	O'Dine Creek	460-6006-474-000-000-000-000-000-000-000-000-000	RD	CP	Y	N	A1	9	9	1997/05/29	2	2	093L024	6123	60076	Dn	Ch	SE	
122	O'Dine Creek	O'Dine Creek	460-6006-474-000-000-000-000-000-000-000-000-000	RD	CP	Y	N	A1	22	22	1997/05/30	2	2	093L024	6123	60076	n/a	Fl	n/a	CT juvenile.
123	O'Dine Creek	O'Dine Creek	460-6006-474-000-000-000-000-000-000-000-000-000	RD	IF	Y	N	A8	21	20	1997/07/03	3	3	093L024	6123	60076	Up	Ch	NW	
124	O'Dine Creek	O'Dine Creek	460-6006-474-000-000-000-000-000-000-000-000-000	RD	IF	Y	N	A8	22	21	1997/07/03	3	3	093L024	6123	60076	Dn	Ch	SE	
125	O'Dine Creek	O'Dine Creek	460-6006-474-000-000-000-000-000-000-000-000-000	DB	CP	Y	N	B2	9	8	1997/07/03	6	4	093L024	6123	60076	Up	Ch	N	
126	O'Dine Creek	O'Dine Creek	460-6006-474-000-000-000-000-000-000-000-000-000	DB	CP	Y	N	B2	10	9	1997/07/03	6	4	093L024	6123	60076	Dn	Ch	S	
127	O'Dine Creek Tributary	O'D1	460-6006-474-O'D-1 -000-000-000-000-000-000-000	RD	CP	Y	N	A14	12	12	1996/10/22	2	5	093L024	6115	60099	Up	Ch	NE	Conducted during 1996 Thautil R. Stream
128	O'Dine Creek Tributary	O'D1	460-6006-474-O'D-1 -000-000-000-000-000-000-000	RD	CP	Y	N	A14	11	11	1996/10/22	2	5	093L024	6115	60099	Dn	Ch	SW	Inventory project.
129	Unnamed Creek	Swamp Creek	460-6006-SW -000-000-000-000-000-000-000-000-000	RD	IF	Y	N	A9	1	1	1997/07/03	1	1	093L024	6104	60074	Up	Ch	N	
130	Unnamed Creek	Swamp Creek	460-6006-SW -000-000-000-000-000-000-000-000-000	RD	IF	Y	N	A9	2	2	1997/07/03	1	1	093L024	6104	60074	Dn	Ch	S	
131	Unnamed Creek	Swamp Creek	460-6006-SW -000-000-000-000-000-000-000-000-000	RD	CP	Y	N	A8	14	13	1997/07/02	3	2	093L024	6104	60074	Up	Ch	E	
132	Unnamed Creek	Swamp Creek	460-6006-SW -000-000-000-000-000-000-000-000-000	RD	CP	Y	N	A8	15	14	1997/07/02	3	2	093L024	6104	60074	Dn	Ch	W	
133	Unnamed Creek	Swamp Creek	460-6006-SW -000-000-000-000-000-000-000-000-000	RD	CP	Y	N	A1	6	6	1997/05/29	4	3	093L024	6104	60074	Up	Ch	N	
134	Unnamed Creek	Swamp Creek	460-6006-SW -000-000-000-000-000-000-000-000-000	RD	CP	Y	N	A1	7	7	1997/05/29	4	3	093L024	6104	60074	Dn	Ch	S	

Note: All activity was conducted in UTM zone 9.

PHOTO SURVEY FORM 1 - Equipment Details

Survey start date (yyyy/mm/dd): 1997/05/28 **Agency:** C087
Survey end date: 1997/07/11 **Crew:** DB/RD/CP/JB/IF

CAMERA A:

Make and model: Pentax Zoom 90-WR Multi-AF	**Lens:** 38-90 mm zoom (focal length, mm)
Format: 35 mm film	
Resolution (for digital and video cameras): n/a	
Output file type (for digital and video cameras): n/a	

CAMERA B:

Make and model: Pentax Zoom 90-WR Multi-AF	**Lens:** 38-90 mm zoom (focal length, mm)
Format: 35 mm film	
Resolution (for digital and video cameras): n/a	
Output file type (for digital and video cameras): n/a	

ROLL DETAILS:

Roll #'s	Camera #	Output Medium	For film cameras:	
			Film Type	ISO
A1 - A3, A10	A	negative	color	200
A7 - A9	A	negative	color	400
B1 - B3	B	negative	color	400

TAGIT CREEK AND ADJACENT TRIBUTARIES STREAM INVENTORY PHOTODOCUMENTATION - May - Jul, 1997

Photo 1. Unnamed C., R2, Site 1 - Upstream

Photo 2. Unnamed C., R2, Site 1 - Downstream

Photo 3. False Tagit C., R2, Site 1 - Upstream

Photo 4. False Tagit C., R2, Site 1 - Downstream

Photo 5. False Tagit C., R3, Site 2 - Upstream

Photo 6. False Tagit C., R3, Site 2 - Downstream

Photo 7. False Tagit C., R4, Site 3 - Upstream

Photo 8. False Tagit C., R4, Site 3 - Downstream

Photo 9. False Tagit C., R4, Site 3 - Road culvert.

Photo 10. False Tagit C., R4, Site 4 - Upstream

Photo 11. False Tagit C., R4, Site 4 - Downstream

Photo 12. False Tagit C., R5, Aerial view of lake - Downstream

Photo 13. False Tagit C., R6, Site 5 - Upstream

Photo 14. False Tagit C., R6, Site 5 - Downstream

Photo 15. False Tagit C., R7, Site 6 - Upstream

Photo 16. False Tagit C., R7, Site 6 - Downstream

Photo 17. False Tagit C., R8, Site 7 - Upstream

Photo 18. False Tagit C., R8, Site 7 - Downstream

Photo 19. False Tagit C.Tributary FTa1, R2, Site 8 - Upstream

Photo 20. False Tagit C.Tributary FTa1, R2, Site 8 - Downstream

Photo 21. False Tagit C. Tributary FTa4, R1, Site 9 - Upstream

Photo 22. False Tagit C. Tributary FTa4, R1, Site 9 - Downstream

Photo 23. False Tagit C.Tributary FTa4, R2, Site 10 - Upstream

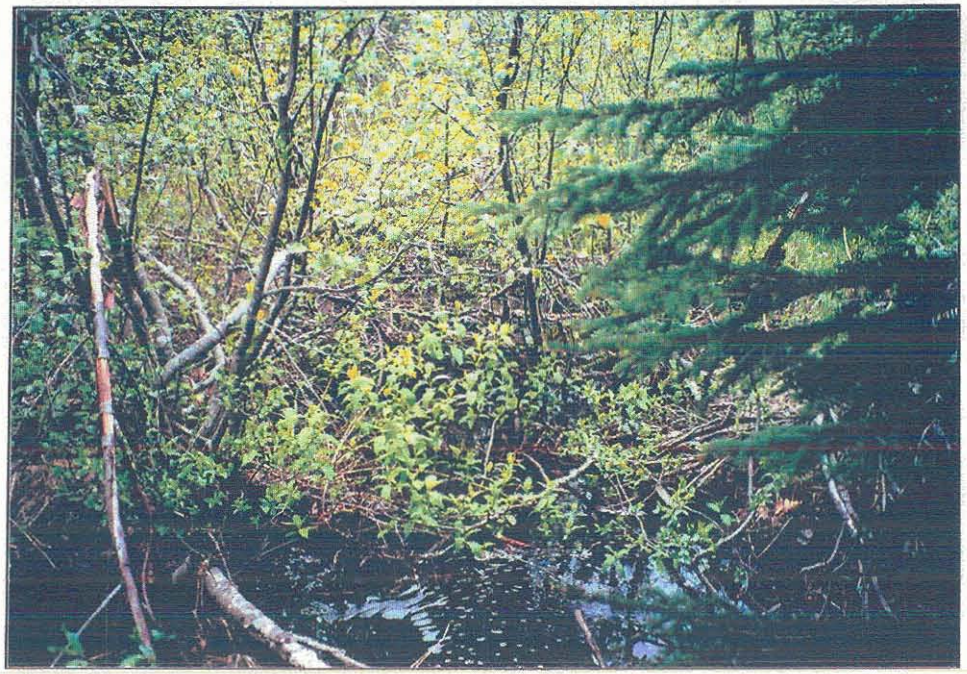


Photo 24. False Tagit C.Tributary FTa4, R2, Site 10 - Downstream

Photo 25. False Tagit C. Tributary FTa5, R1, Site 11 - Upstream

Photo 26. False Tagit C. Tributary FTa5, R1, Site 11 - Downstream

Photo 27. False Tagit C.Tributary FTa5, R2, Site 12 - Upstream

Photo 28. False Tagit C.Tributary FTa5, R2, Site 12 - Downstream

Photo 29. False Tagit C. Tributary FTa5, R3, Site 13 - Upstream

Photo 30. False Tagit C. Tributary FTa5, R3, Site 13 - Downstream

Photo 31. False Tagit C.Tributary FTa5, R5, Site 14 - Upstream

Photo 32. False Tagit C.Tributary FTa5, R5, Site 14 - Downstream

Photo 33. False Tagit C. Tributary FTa5.1, R1, Site 15 - Upstream

Photo 34. False Tagit C. Tributary FTa5.1, R1, Site 15 - Downstream

Photo 35. False Tagit C.Tributary FTa5.1, R2, Site 16 - Upstream

Photo 36. False Tagit C.Tributary FTa5.1, R2, Site 16 - Downstream

Photo 37. False Tagit C. Tributary FTa5.1, R3 - Upstream

Photo 38. False Tagit C. Tributary FTa5.1, R3 - Downstream

Photo 39. False Tagit C.Tributary FTa5.2, R1, Site 17 - Upstream

Photo 40. False Tagit C.Tributary FTa5.2, R1, Site 17 - Downstream

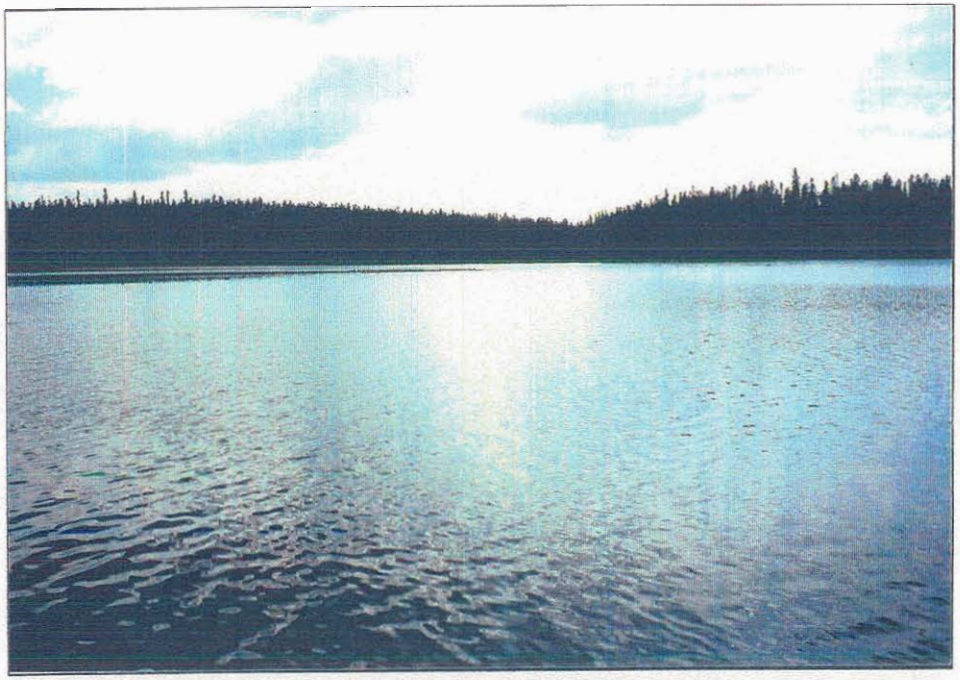


Photo 41. Lake on False Tagit C. Tributary FTa5.2 - Upstream

Photo 42. Lake on False Tagit C. Tributary FTa5.2 - Downstream

Photo 45. False Tagit C. Tributary FTa5.4, R1, Site 19 - Upstream

Photo 46. False Tagit C. Tributary FTa5.4, R1, Site 19 - Downstream

Photo 49. False Tagit C. Tributary FTa5.4, R1, Site 21 - Upstream

Photo 50. False Tagit C. Tributary FTa5.4, R1, Site 21 - Downstream

Photo 53. False Tagit C. Tributary FTa6.1, R1, Site 23 - Upstream

Photo 54. False Tagit C. Tributary FTa6.1, R1, Site 23 - Downstream

Photo 57. Tagit C.; R1, Site 1, CT, CO and SST samples.

Photo 58. Tagit C., R4, Site 2 - Upstream

Photo 61. Chisholm Lake outlet.

Photo 62. Tagit C., R4, Site 3 - Upstream

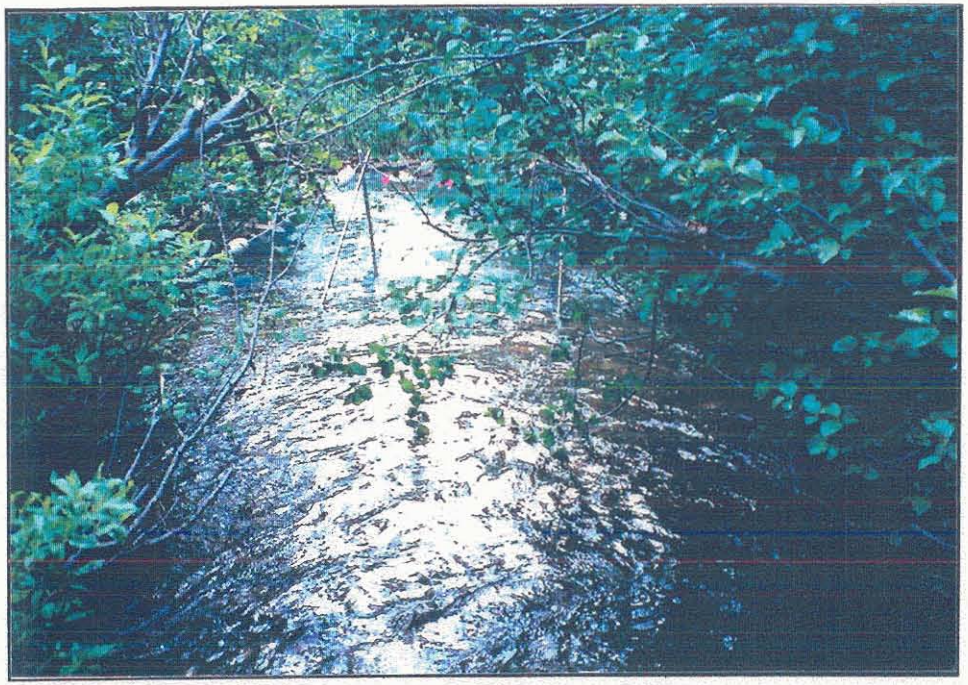


Photo 65. Tagit C., R4, Site 4 - Downstream

Photo 66. Tagit C., R5, Site 5 - Upstream

Photo 69. Tagit C., R6, Site 6 - Upstream

Photo 70. Tagit C., R6, Site 6, Debris jam 10 m d/s from lower net.

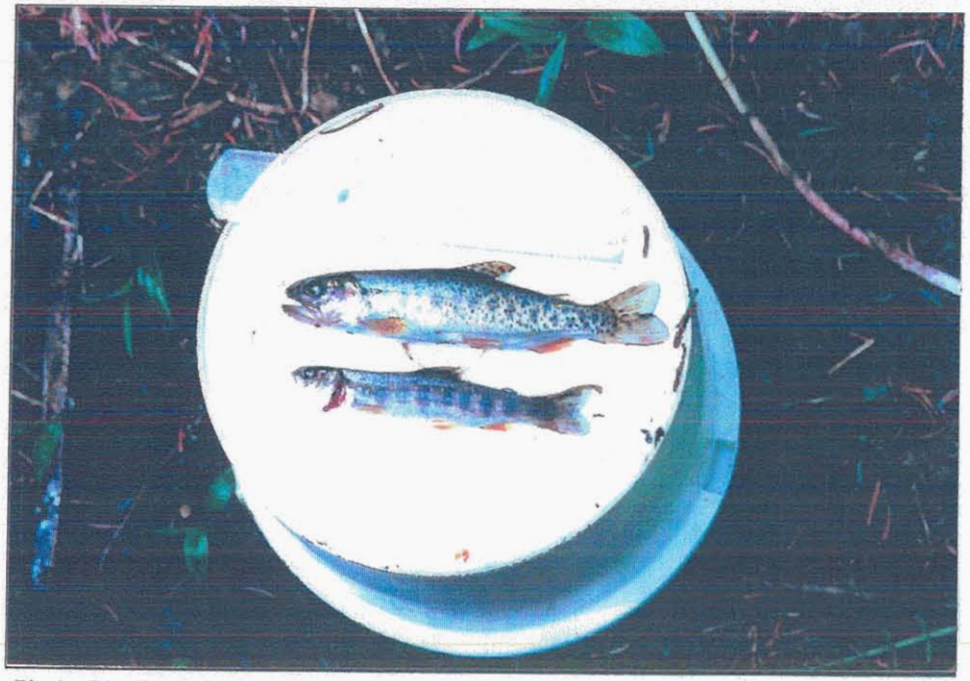


Photo 71. Tagit C., R6, Site 6, DV and CT juveniles

Photo 72. Tagit C., R6, Site 7, Upstream

Photo 73. Tagit C., R6, Site 7 - Downstream

Photo 74. Tagit C., R6, Site 7, Road culvert.

Photo 77. Tagit C. Tributary Ta1, R1, Site 9 - Upstream

Photo 78. Tagit C. Tributary Ta1, R1, Site 9 - Downstream

Photo 81. Tagit C. Tributary Ta1, R2, Site 11 - Upstream

Photo 82. Tagit C. Tributary Ta1, R2, Site 11 - Downstream

Photo 85. Tagit C. Tributary Ta1, R4, Site 13 - Upstream

Photo 86. Tagit C. Tributary Ta1, R4, Site 13 - Downstream

Photo 89. Tagit C. Tributary Ta3, R2, Site 15 - Upstream

Photo 90. Tagit C. Tributary Ta3, R2, Site 15 - Downstream

Photo 93. Tagit C. Tributary Ta4, R2, Site 17 - Upstream

Photo 94. Tagit C. Tributary Ta4, R2, Site 17 - Downstream

Photo 97. Tagit C. Tributary Ta7, R1, Road culvert.

Photo 98. Tagit C. Tributary Ta7, R2, Site 19 - Upstream

Photo 101. Tagit C. Tributary Ta7, R3, Site 20, At high flows - Downstream

Photo 102. Tagit C. Tributary Ta7, R3, Site 20, At low flows - Upstream

Photo 105. Tagit C. Tributary Ta7, R4, Site 21 - Downstream

Photo 106. Tagit C. Tributary Ta9, R1, Site 22 - Upstream

Photo 109. Tagit C. Tributary Ta9, R2, Site 23 - Downstream

Photo 110. Tagit C. Tributary Ta9, R3, Site 24 - Upstream

Photo 113. Tagit C. Tributary Ta9.1, R1, Site 25 - Downstream

Photo 114. Tagit C. Tributary Ta9.2, R1, Site 26 - Upstream

Photo 117. Tagit C. Tributary Ta10, R1, Site 27 - Downstream

Photo 118. Odine C., R1, Site 1 - Upstream

Photo 121. Odine C., R2, Site 2 - Downstream

Photo 122. Odine C., R2, Site 2, CT juvenile.

Photo 125. Odine C., R6, Site 4 - Upstream

Photo 126. Odine C., R6, Site 4 - Downstream

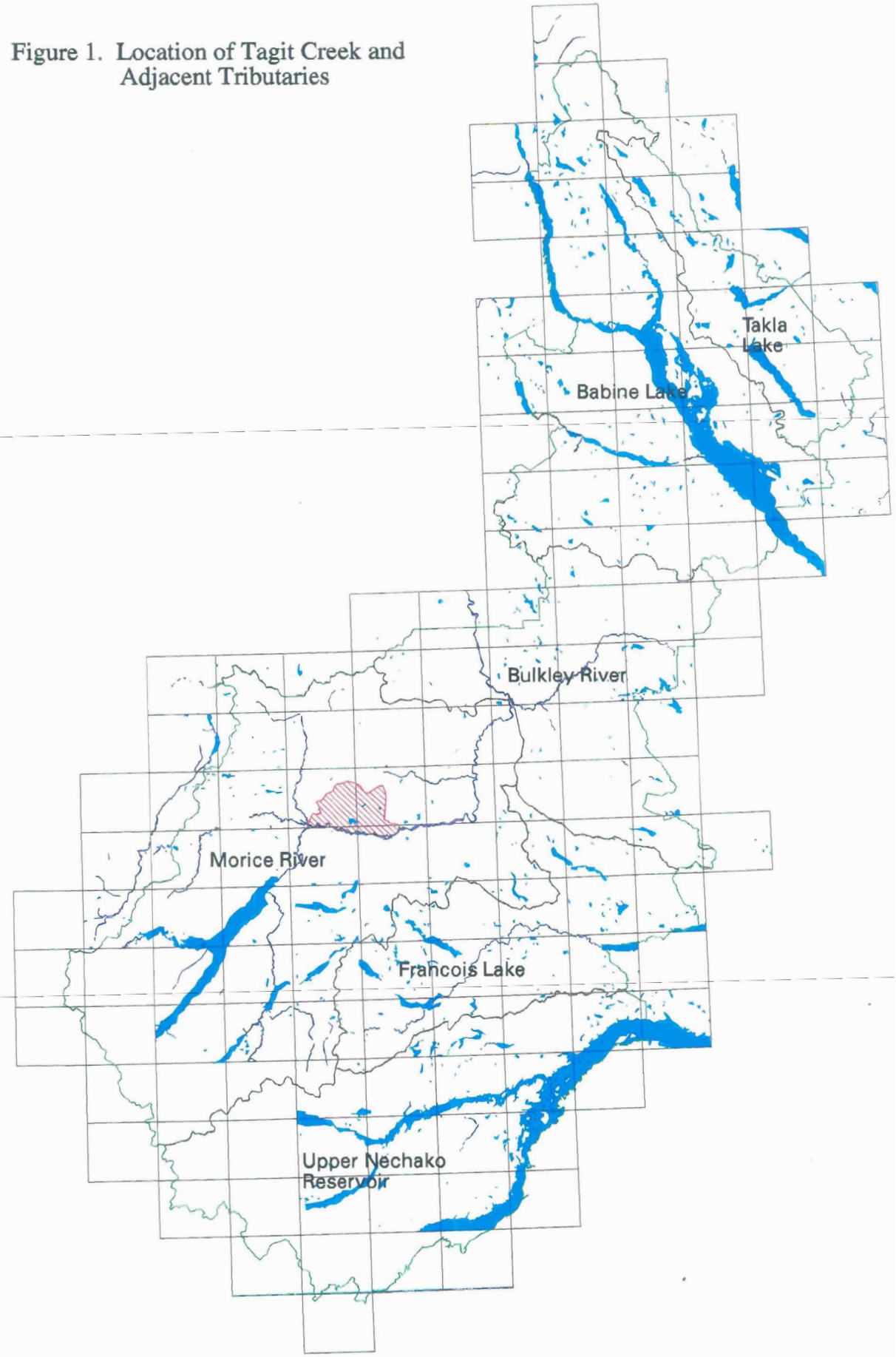
Photo 129. Swamp C., R1, Site 1 - Upstream

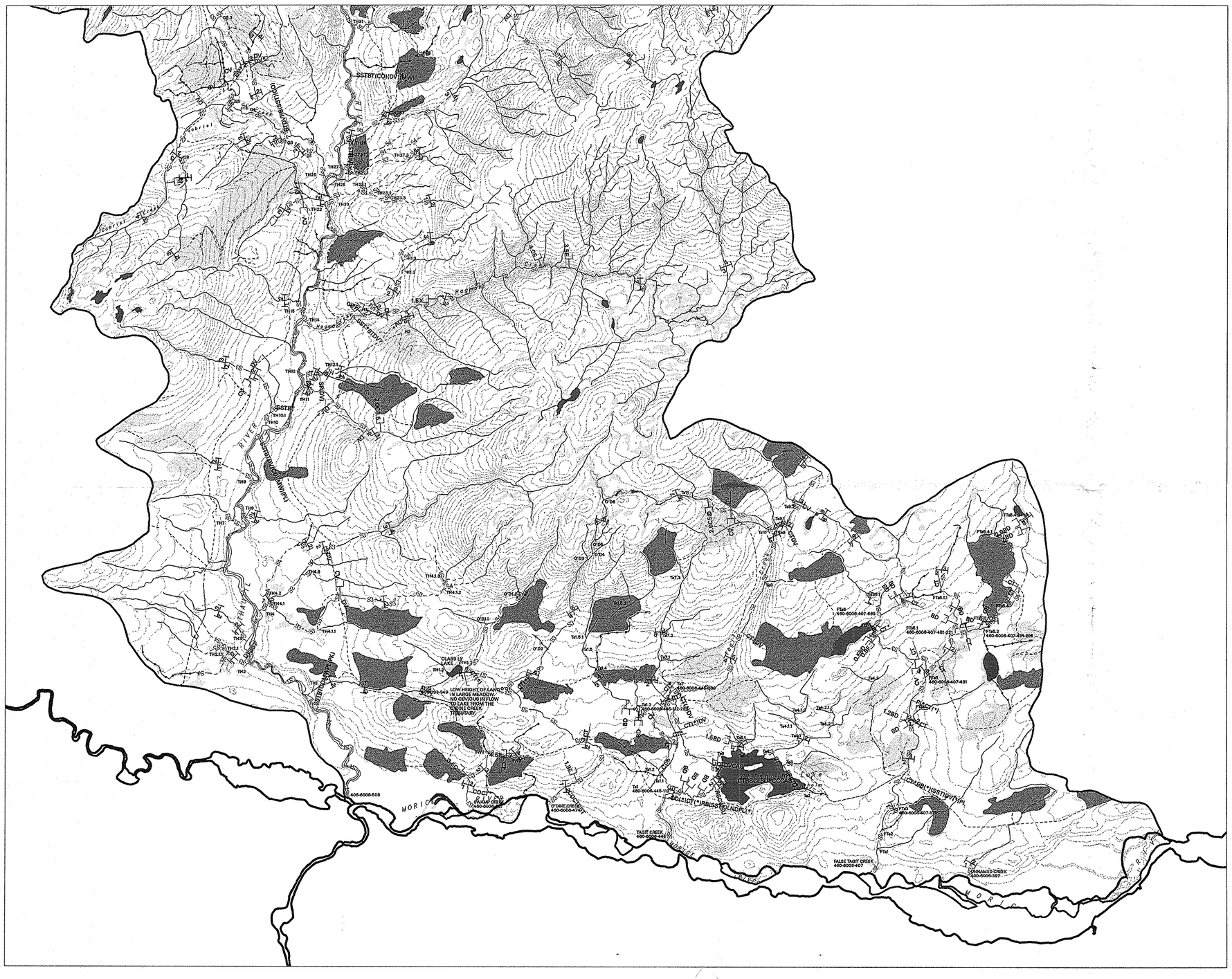
Photo 130. Swamp C., R1, Site 1 - Downstream

Photo 133. Swamp C., R4, Site 3 - Upstream

Photo 134. Swamp C., R4, Site 3 - Downstream

Figure 1. Location of Tagit Creek and Adjacent Tributaries





houston
FOREST PRODUCTS CO.

Morice T.S.A. 20
Aquatic Inventory

Thautil Operating Area
Tagit Creek and Adjacent Tributaries

Riparian Classification

Fish stream	–S3———S3
S1 > 20m(channel width)	
S2 5-20m	
S3 1.5-5m	
S4 < 1.5m	
Non-fish stream	———
Suspected riparian class	–S4– – –S4
No defined channel	•—•—•—•

Stream Codes

Reach boundary	3
	2
Interim watershed identifier	TH15

Fish Species Codes

SP	- Fish present, species not known
NF	- No fish captured
*	- Spawning
(DV)	- Suspected Dolly Varden present
BT	- Bull trout
CAS	- Prickly sculpin
CO	- Coho salmon
CT	- Cutthroat trout
DV	- Dolly Varden
LND	- Longnose dace
LSU	- Longnose sucker
MW	- Mountain whitefish
PCC	- Peamouth chub
PL	- Pacific lamprey
RB	- Rainbow trout
RSC	- Redside shiner
SST	- Summer steelhead
WSU	- White sucker

Obstructions

1.0X	Log jam (1m high debris)
BD	Beaver dam
2.0F	Falls (2m high)
3.0C10	Cascade/Chute (3m high, 10m long)
CV	Culvert on fish stream

Other Features

Harvesting Blocks	
Logged	
Proposed	
Lakes	
Wetlands	
Roads	

Aquatic Inventory Data Collected by:
David Bustard & Associates

Maps produced by:
Western Geographic Information Systems Inc.

NAD 83 TRIM 1994

SCALE 1 : 50000
1 cm = 500 metres

0 500 1000 1500 2000 2500 3000 3500

Date Drawn: February 02, 1998

houston
FOREST PRODUCTS CO.

093L024

Morice T.S.A. 20
Aquatic Inventory Map
A16827
Thautil Operating Area

Riparian Classification

Fish stream
- S1 > 20m (channel width)
- S2 > 5-20m
- S3 1.5-5m
- S4 < 1.5m

Non-fish stream
- S5 > 3m
- S6 <= 3m

Suspected riparian class
No defined channel

Stream and Sample Site Codes

Reach boundary
Watershed code 406-6006-508
Interim watershed identifier TH15
Sample sites
- Site card and fish sample
- Site card only
- Fish index site
- Tributary sample from lake survey

Fish Species Codes

SP - Fish present, species not known
NF - No fish captured
* - Spawning
(DV) - Suspected Dolly Varden present

BT - Bull trout
CAS - Prickly sculpin
CO - Coho salmon
CT - Cutthroat trout
DV - Dolly Varden
LND - Longnose dace
LSU - Longnose Sucker
MW - Mountain whitefish
PCC - Peamouth chub
PL - Pacific lamprey
RB - Rainbow trout
RSC - Redside shiner
SST - Summer steelhead
WSU - White sucker

Obstructions

- 1.0X Log jam (1m high debris)
- BD Beaver dam
- 2.0F Falls (2m high)
- 3.0C10 Cascade/Chute (3m high, 10m long)
- CV Culvert on fish stream

Other Features

Fisheries sensitive zone
Slide area
Marsh
Eroding banks
Lakes
Wetlands

HQ 1073, 1074

N

Aquatic Inventory Data Collected by:
David Bustard & Associates

Maps produced by:
Western Geographic Information Systems Inc.

NAD 83 TRIM 1994

SCALE 1 : 20000
1 cm = 200 metres
0 200 400 600 800 1000 1200 1400

Date Drawn: January 06, 1998

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FOREST PRODUCTS CO.

093L015

Morice T.S.A. 20
Aquatic Inventory Map
A16827
Owen Operating Area

Riparian Classification

Fish stream
- S1 > 20m (channel width)
- S2 > 5-20m
- S3 1.5-5m
- S4 < 1.5m

Non-fish stream
- S5 > 3m
- S6 <= 3m

Suspected riparian class
No defined channel

Stream and Sample Site Codes

Reach boundary
Watershed code 406-6006-508
Interim watershed identifier TH15
Sample sites
- Site card and fish sample
- Site card only
- Fish index site
- Tributary sample from lake survey

Fish Species Codes

SP - Fish present, species not known
NF - No fish captured
* - Spawning
(DV) - Suspected Dolly Varden present

BT - Bull trout
CAS - Prickly sculpin
CO - Coho salmon
CT - Cutthroat trout
DV - Dolly Varden
LND - Longnose dace
LSU - Longnose Sucker
MW - Mountain whitefish
PCC - Peamouth chub
PL - Pacific lamprey
RB - Rainbow trout
RSC - Redside shiner
SST - Summer steelhead
WSU - White sucker

Obstructions

- 1.0X Log jam (1m high debris)
- BD Beaver dam
- 2.0F Falls (2m high)
- 3.0C10 Cascade/Chute (3m high, 10m long)
- CV Culvert on fish stream

Other Features

Fisheries sensitive zone
Slide area
Marsh
Eroding banks
Lakes
Wetlands

HQ1073, 1074

N

Aquatic Inventory Data
Collected by:
David Bustard & Associates

Maps produced by:
Western Geographic Information Systems Inc.

NAD 83 TRIM 1994

SCALE 1 : 20000
1 cm = 200 metres

0 200 400 600 800 1000 1200 1400

Date Drawn: January 06, 1998

houston
FOREST PRODUCTS CO.

093L025

Morice T.S.A. 20
Aquatic Inventory Map
A16827
Thautil Operating Area

Riparian Classification

Fish stream	S3 S3
S1 > 20m (channel width)	
S2 > 5-20m	
S3 1.5-5m	
S4 < 1.5m	
Non-fish stream	S6 S6
S5 > 3m	
S6 <= 3m	
Suspected riparian class	S4 S4
No defined channel	

Stream and Sample Site Codes

Reach boundary	1 2 3
Watershed code	406-6006-508
Interim watershed identifier	TH15
Sample sites	
- Site card and fish sample	2 DV
- Site card only	2
- Fish index site	1+0 DV
- Tributary sample from lake survey	L9

Fish Species Codes

SP	- Fish present, species not known
NF	- No fish captured
*	- Spawning
(DV)	- Suspected Dolly Varden present
BT	- Bull trout
CAS	- Prickly sculpin
CO	- Coho salmon
CT	- Cutthroat trout
DV	- Dolly Varden
LND	- Longnose dace
LSU	- Longnose Sucker
MW	- Mountain whitefish
PCC	- Peamouth chub
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RB	- Rainbow trout
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Obstructions

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BD	Beaver dam
2.0F	Falls (2m high)
3.0C10	Cascade/Chute (3m high, 10m long)
CV	Culvert on fish stream

Other Features

Fisheries sensitive zone
Slide area
Marsh
Eroding banks
Lakes
Wetlands

HQ1073, 1074

N

Aquatic Inventory Data
Collected by:
David Bustard & Associates

Maps produced by:
Western Geographic Information Systems Inc.

NAD 83 TRIM 1994

SCALE 1 : 20000
1 cm = 200 metres

0 200 400 600 800 1000 1200 1400

Date Drawn: November 05, 1997