

3251 / WP#T-T1219

**Reconnaissance (1:20,000)
Fish and Fish Habitat Inventory
of Unnamed Tributaries to the
Southwest Shore of Babine Lake,
South of Topley Landing
(South Fulton Planning Area)**

**WSC 480-705800 to 480-776600
Volume 1 of 2**

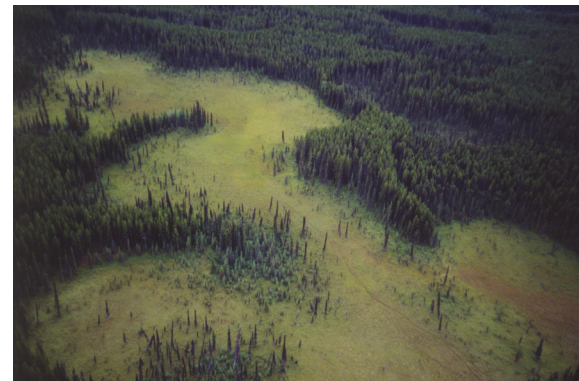
Prepared for:

Canadian Forest Products Ltd.
P.O. Box 158
Houston, BC
V0J 2N0

Prepared by:



PO Box 88
Terrace, BC Canada V8G 4A2
Phone: (250) 635-1494
Fax: (250) 635-1495
www.triton-env.com



Reconnaissance (1:20,000 scale) Fish and Fish Habitat Inventory of Unnamed Tributaries to the Southwest Shore of Babine Lake, South of Topley Landing (South Fulton Planning Area)

WSC 480-705800 to 780-776600

Prepared for:

Canadian Forest Products Ltd.
PO Box 158
Houston, BC
V0J 2N0

January 2002

Prepared by:



**#300-4546 Park Avenue
Terrace, BC V8G 1V4
Tel: (250) 635 1494 Fax: (250) 635-1495**

Report Reviewed by:

Tom Watson, Ph.D., R.P. Bio.

PROJECT REFERENCE INFORMATION

FDIS Project Number:	3496
MELP Project Number:	CNF_C172_010_2002
FRBC Project Number:	HFRBC 16-1
FRBC Region:	Skeena-Bulkley Region
MELP Region:	06
MELP District:	Skeena
FW Management Unit:	6-6, 6-8
Fisheries Planning Unit:	North Coast
DFO Sub-district:	4D
Forest Region:	Prince Rupert
Forest District:	Morice
Forest Licensee and Tenure #:	Canadian Forest Products Ltd. TSA 20
First Nation Traditional Area:	Wet'suwet'en Nation, Broman Lake Babine Band, Skin Tyee Band, Lake Babine Nation, Sekanni-Carrier, Natooten

WATERSHED INFORMATION

Watershed Group:	Babine Lake
Watershed Code:	480-000000-00000-00000-0000
UTM at Mouth:	NA
Watershed Area:	319 km ²
Total of All Stream Lengths:	848 km
Stream Order:	5 th (largest)
NTS Map:	93L/16, 93L/09 93L/02 93K/12
TRIM Map:	93K.061 93K.071 93L.069 93L.070 93L.079 93L.080 93L.090
BGC Zone:	SBS, ESSF, AT
Air Photos:	BCC96143 #144-150 BCC96151 #166-7 BCC96154 #27-31, 46,55, 82-88 BCC97158 #124-137,154,165 63-77 BCC98024 #124,136-160 BCC98027 #20-24 BCC98039 #23-32

SAMPLE DESIGN SUMMARY

Total number of Reaches:	820
Random Sampling Sites:	22
Biased Sampling Sites:	67
Fish Sampling Only Sites:	37
Total Sampling Sites:	126
Field Sampling Dates:	July 31-October 6, 2001
Fish Species Captured During Survey:	RB, CT, CO, SK, LKC

CONTRACTOR INFORMATION

Project Manager:	Jason Harris, Fisheries Technician Triton Environmental Consultants Ltd. (Terrace) P.O. Box 88, Terrace, BC, V8G 4A2 Courier: #300-4546 Park Avenue, Terrace, BC, V8G 1V4 (250) 635-1494 fax (250) 635-1495 e-mail: jharris@triton-env.com
Field Crew:	J. Harris, J. Dorey, S. Giesbrecht, E. Lem, J. Anaka, S. Hartman, D. Taft.
Data Entry by:	J. Dorey, S. Hartman
Report Prepared by:	J. Harris, J Dorey
GIS Services:	Triton Environmental Consultants Ltd. (Prince George) Technicians: K. Strong, S. Johal Courier: #201-1157 Fifth Avenue, Prince George, BC, V2L 2Y8 Phone: (250) 562-9155 Fax: (250) 562-9135
Fish Aging:	North/South Consultants Inc. 2-1475 Chevrier Blvd. Winnipeg, Manitoba, R3T 1Y7 Phone: (204) 284-3366 Fax: (204) 477-4173

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 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.”

* Product refers to the information detailed in the following pages of this report.

ACKNOWLEDGMENTS

Triton would like to thank John Brockley of Canadian Forest Products Ltd. and Todd Mahon of WildFor Consulting Ltd. for their assistance throughout the planning and field phases of this project. Chris Schell for his Quality Assurance participation and support in meeting Reconnaissance (1:20,000) Fish and Fish Habitat Inventory Standards. Paul Giroux, BC Ministry of Environment, Lands and Parks, for his guidance throughout the project.

Forest Renewal BC – a partnership of forest companies, workers, environmental groups, First Nations, communities and government, provided funding for this inventory. Forest Renewal BC funding – from stumpage fees and royalties that forest companies pay for the right to harvest timber on Crown lands – is reinvested in the forest, forest workers and forest companies.

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Appendix II	Phase Completion Reports
Appendix III	Quality Assurance Forms and Correspondence
Appendix IV	Phase I-III Project Plan (with attachments)
Appendix V	Project/Interpretive Maps

LIST OF ATTACHMENTS AVAILABLE AT MELP REGIONAL OFFICE

Attachment I	Planning Document Triton Environmental Consultants Ltd., July 2000. Phase I-III Pre-field Project Planning Report Reconnaissance (1:20,000) Fish and Fish Habitat Inventory in selected tributaries within the Babine Lake watershed. Prepared for Canadian Forest Products Ltd.
Attachment II	Field Notes Site Cards/Fish Collection Forms
Attachment III	Fish Ageing Structures
Attachment IV	Photo documentation Photo Summary Report Photo CD Prints in Plastic Sleeves Negatives in Plastic Sleeves
Attachment V	Digital Data Watershed Report Files FDIS Files Mapping Files
Attachment VI	FISS Update Data FISS Update Forms FISS Update Maps

1.0 INTRODUCTION

Triton Environmental Consultants Ltd. (Triton, Terrace) was retained by Canadian Forest Products Ltd. (Canfor) to conduct a Reconnaissance (1:20,000 scale) Fish and Fish Habitat Inventory in Canfor's South Fulton operating area, which is located within the Morice Timber Supply Area (T.S.A. 20).

This project commenced as a result of BC Fisheries and Ministry of Environment, Lands and Parks (MELP) initiatives to gather information about fish distribution, population status, and the condition and capability of stream habitats (Resource Inventory Committee, 2001). Forest Renewal of British Columbia (FRBC) funding and MELP supervision facilitated the commencement of this sample-based survey of the sub-basins outlined within the study area. The inventory provides information regarding the characteristics, the distribution and the relative abundance of fish species, as well as information on biophysical lake and stream data. This information can be used for the interpretation of habitat sensitivity and fish production capability (Resource Inventory Committee, 2001). The results of the inventory may be applied to initial Riparian Management Area (RMA) and lake classification under the Forest Practices Code for forest development planning, watershed restoration, and for the establishment of some landscape-level biodiversity objectives (Resource Inventory Committee, 2001).

1.1 Project Scope/Objectives

Fish and fish habitat values were the primary components of the inventory:

- Fish
 - Identify and map fish-bearing stream reaches and lakes using existing information and new field information (field inventory).
- Fish Habitat
 - Identification and coding of all waterbodies.
 - Identification and characterization of stream reaches utilizing topographic maps and aerial photographs, with confirmation via field sampling.

The results of the inventory are presented on 1:20,000 scale TRIM based maps, Field Data Information Summary (FDIS) data forms, and in the body of this report.

1.2 Location

Canfor's South Fulton operating area is comprised of a fifth order watershed and several smaller tributaries to Babine Lake (WSC 480-Babine Lake). The study area includes tributaries entering the southwest shore, Babine Lake between Tachek Creek (WSC 480-705800) and an "unnamed" stream (WSC 480-776600) to the south. The South Fulton Study Area is located southeast of Topley Landing, BC.

The Study Area is situated in the Central Interior Ecoprovince. The watershed lies in the broad rolling plateau that comprises the Fraser Plateau Ecoregion, in the Bulkley Ranges, and Nechako Plateau Ecosections (Demarchi, 1996). The study area is approximately 319 km² and covers 7 TRIM map sheets (Figure 1).

Demarchi (1996) describes the climate within the Central Interior Ecoprovince:

The area has a typically continental climate: cold winters, warm summers, and a precipitation maximum in late spring or early summer. The area lies in a rainshadow leeward of the Coast Mountains. There is intense surface heating and convective showers in summer and in winter there are frequent outbreaks of Arctic air.

The biogeoclimatic zonation for the Study Area is Sub-Boreal Spruce (SBS), Engelmann Spruce Subalpine Fir (ESSF), and Alpine Tundra (AT) (Meidinger & Pojar, 1991).

1.2.1 Access

Topley Landing is the largest community located near the study area. Sampling sites within the watershed were accessed by both road and air.

Directions from Topley Landing to the sample locations within the study area are as follows:

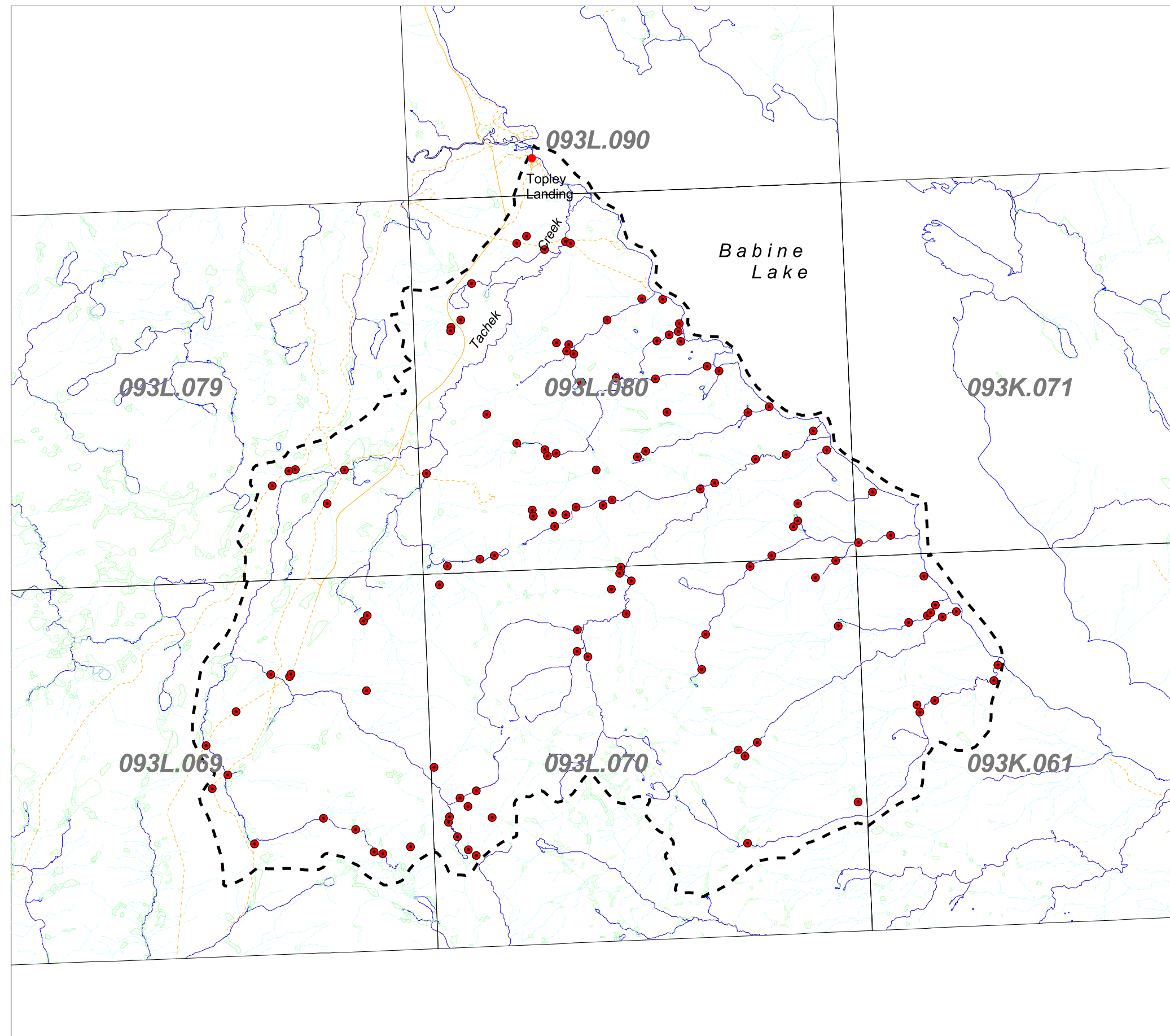
- From Topley Landing drive south 6 km on the Granilse highway into the study area
- Road accessible sites were accessed off the Granilse highway via forestry branch roads and BC Hydro right of way.

Sites located in the study area that did not possess road networks were accessed by helicopter.

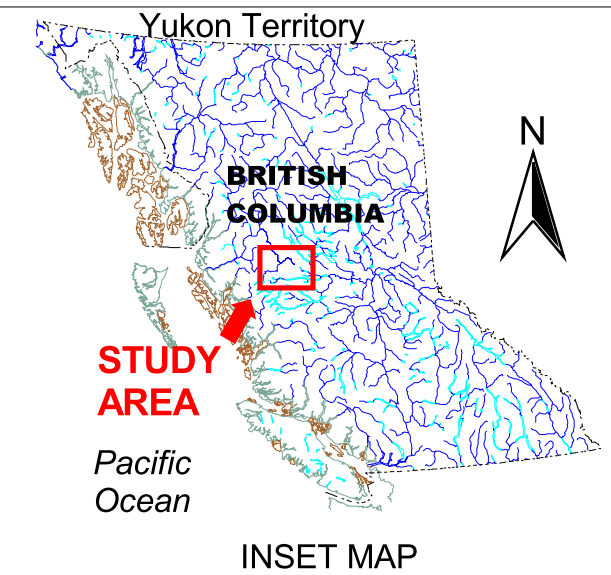
2.0 RESOURCE INFORMATION

Resource values within the SBS, ESSF, and AT biogeoclimatic zones include forest harvesting, outdoor recreation, tourism and mining. Canfor has current logging operations within the study area. Most of the SBS, ESSF, and AT has low capability for agriculture due to adverse climate, topography, bedrock, stoniness or poor drainage (Meidinger & Pojar, 1991). Fur harvest from this zone is among the highest in the province (Meidinger & Pojar 1991).

Traditional fishing grounds of the Wet'suwet'en Nation, Broman, Lake Band, Lake Babine Nation, Sekanni – Carrier, Natooten and Skin Tyee Band lie in and adjacent to the study area.



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WSC 480-705800 to 780-776600
Overview Map
Figure 1



Legend

- Sample Sites
- - - Study Area Boundary
- - - Gravel
- - - Paved
- - - Rough
- - - River/Stream
- - - River/Stream Intermittent
- - - Lake
- - - Marsh/Swamp
- - - Glacier

2000 0 2000 4000 Meters

1:150,000

Source: 1:20,000 TRIM Projection: UTM

Date: Feb 20, 2002
Created by: SJ



Canfor's chart area (TSA 20) lies within the study area. Road building, and logging was being conducted within the study area during the inventory. Canfor is actively participating in the Forest Development Planning and Land Use planning of the forest lands in and adjacent to the study area.

Two de-activated open-pit copper mines (Bell Mine & Granisle Mine) located on a peninsula and an island within Babine Lake were visually observed to the north of the study area during the project. Both the Bell Mine and Granisle mine are dealing with acid rock drainage and the discharge of soluble metals into Babine Lake (Remington, 1995). No water quality data specific to the streams within the study area were identified.

Babine Lake is important recreationally, as it offers excellent fishing and boating opportunities. Babine Lake is the principal sockeye salmon (*Oncorhynchus nerka*) lake of the Skeena River system, which supports the second largest sockeye run in British Columbia (Groot & Margolis 1991). Rainbow trout (*O. mykiss*), also present in the Babine watershed, make Babine Lake important to anglers and businesses supported by fishing (Scott & Crossman 1985). In addition, the surrounding forested areas are used for hunting, hiking, snowmobiling, camping, and cross-country skiing (Meidinger & Pojar, 1991).

The study area, located within the Central Interior Ecoprovince supports moose (*Alces alces*), caribou (*Rangifer tarandus*), mule deer (*Odocoileus hemionus hemionus*), whitetail deer (*O. virginianus*) and mountain goat (*Oreamnos americanus*) habitats. In addition, black bear (*Ursus americanus*), wolf (*C. lupis*), fisher (*Martes pennanti*), and lynx (*Lynx canadensis*) are widely distributed throughout the ecoprovince. Common herptiles include the western garter snake (*Thamnophis elegans*), the spotted frog (*Rana pretiosa*) and the western toad (*Bufo boreas*) (Campbell et al., 1990).

2.1 Existing Fisheries Information

Fisheries Information Summary System (FISS) records indicate that sockeye salmon, chinook salmon (*O. tshawytscha*), coho salmon (*O. kisutch*), pink salmon (*O. gorbuscha*), steelhead (*O. mykiss*), Kokanee (*O. nerka*), rainbow trout (*O. mykiss*), cutthroat trout (*O. clarki*), lake trout (*Salvelinus namaycush*) Dolly Varden (*S. malma*), largescale sucker (*Catostomus macrocheilus*), longnose sucker (*C. catostomus*), white sucker (*C. commersoni*), lake whitefish (*C. clupeaformis*), northern pikeminnow (*Ptychocheilus oregonensis*), peamouth chub (*Mylocheilus caurinus*), reidside shiner (*Richardsonius balteatus*), longnose dace (*Rhinichthys cataractae*), pygmy whitefish (*Prosopium coulteri*), prickly sculpin (*Cottus asper*), and burbot (*Lota lota*) are present in the Babine Lake watershed (BC Ministry of Environment, Lands and Parks, and Department of Fisheries and Oceans, 1995).

FISS identified a major sockeye spawning area and the presence of mountain whitefish (*Prosopium williamsoni*), rainbow trout, Kokanee, coho, prickly sculpin, and sculpin (*Cottus sp.*) in Reach 1 of Tachek Creek. The fish species identified from existing

sources were placed in the Field Data Information System (FDIS) database for this project and mapped according to RIC standards for historical information.

MELP (Region 6) stream and lake files located in the Smithers regional office were reviewed during Phase 1 and found to support the FISS information for the study area.

3.0 METHODS

The Reconnaissance (1:20,000 Scale) Fish and Fish Habitat Inventory was completed in the following six phases:

- Phase 1: Existing Data Review
- Phase 2: Map and Air Photo Analysis
- Phase 3: Sampling Design and Project Plan
- Phase 4: Field Data Collection
- Phase 5: Data Compilation
- Phase 6: Report and Map preparation.

The methods employed for each phase of the project followed those outlined in the *Reconnaissance (1:20,000) Fish and Fish Habitat Inventory: Standards and Procedures, April 2001* (Resource Inventory Committee, 2001). Alterations were made to the project plan in Phase 4 and are outlined in the sections below.

3.1 Field Data Collection

The following sections describe the methods and approaches taken to complete field sampling and data collection.

3.1.1 Pre field Preparations

The stream reaches inventoried were identified by two methods: random sites generated by the FDIS planning tool and biased sites identified by Canfor and Triton. Biased sites were selected to address gaps in the random sampling plan. The Final sample sites incorporated into the contract were reviewed by John Brockley (Canfor), Todd Mahon (FRBC Coordinator), Paul Giroux (FIS, MELP Skeena Region 6), and Triton (Terrace) to ensure the sample sites met the requirements of Canfor, MELP and the FDIS planning model. Required fish collection permits were obtained from MELP and DFO prior to the commencement of field activities.

3.1.2 Field Procedures

All sampling procedures followed those outlined in the *Reconnaissance (1:20,000) Fish and Fish Habitat Inventory: Standards and Procedures, April 2001* (Resource Inventory Committee, 2001) and the *Forest Practices Code Fish Stream Identification Guidebook*, (BC Forest Practices Code, 1998).

Fieldwork was conducted by two person field crews. In watersheds where road access was available, the crews used 4X4 pick-up trucks. In watersheds where road access was unavailable transportation was provided out of Houston by Westland Helicopters' Bell Jet Ranger helicopter.

Field data were collected on RIC field site cards and fish collection forms. Fish sample sites were used to collect additional information about fish species composition and to confirm fish distribution within the study area. Fish sample sites only collected the information listed on the RIC fish collection forms. In addition, the following information was collected at each random or bias sample site and was recorded in the comments section of the site card:

- Stream classification,
- Comments supporting stream classification,
- Comments regarding fish access (i.e. downstream barriers), and
- General comments regarding rearing, spawning and overwintering habitats were also included in the Habitat Quality section of the site card.

Prior to the commencement of field activities each crew was equipped with the following:

- Smith-Root Model 12A backpack electrofisher
- Electrofisher safety gear (leak proof waders, wading belts, Linesman's gloves, hat with a brim, polarized sunglasses)
- Minnow traps and bait
- Backpacks
- Clinometer
- Compass
- Hip chain
- 50 m tape
- Meter stick
- VHF radio
- Garmin handheld GPS unit

- First aid kit
- Water quality kit (hand held pH and conductivity meters)
- Thermometer
- Canon waterproof camera and print film
- Voucher specimen container
- MELP Site cards
- MELP Fish collection forms
- MELP Individual fish data cards
- Field maps

Fish sampling within stream reaches was conducted using three primary sampling techniques: electrofishing, minnow trapping, and visual observation. Electrofishing is the most efficient method of sampling shallow stream habitats and was the preferred sampling method for all habitat types in small streams. In these habitats and where using an additional sampling method would not provide additional information (i.e. species, relative abundance), it was the only fish sampling technique employed. In a few cases, minnow traps baited with salmon roe were employed in streams of greater depth and in ponded habitats. Visual observation was also used when other methods failed to catch fish or fish sampling was not practical (spawning fish). A combination of techniques was employed where the use of only one method would not have effectively sampled all habitats and in areas that were not suited to electroshocking (deep pools, wetlands, etc.). Where appropriate, and where return visits were practical, minnow traps baited with salmon roe were set and allowed to soak for a 24-hour period.

3.2 Field Data Compilation

Following each field day, field crews met to compile field notes, review field data and summarize the field findings onto hard copy maps. This system ensured that all information was thoroughly documented, allowing for preliminary stream classifications and changes to the sampling plan. Field crews were in constant contact with Paul Giroux (Fisheries Inventory Specialist) when the originally proposed plan needed modifications. In most cases sites downstream of known fish bearing reaches were moved to reduce sampling redundancy, address potential barriers, identify species composition, establish fish distribution and provide additional sampling data.

3.2.1 Site Cards

Site Cards and Reach forms were entered into MELP's FDIS database following the completion of the Phase 4 field inventory. Hard copy versions of the Reach/Site Cards are presented in Appendix I.

3.2.2 Fish Collection Cards

The Fish Collection Cards were entered into MELP's FDIS database following the completion of the Phase 4 field inventory. Hard copies of the Fish Collection Forms are presented in Appendix I following the Reach/Site cards.

4.0 RESULTS AND DISCUSSION

4.1 Logistics

Weather conditions were variable over the field sampling dates. The number of dry intermittent streams was relatively low compared to past inventories (Triton, 1999, 2001) in this type of terrain and time of year. A total of 13 out of 126 sampled sites were classified as dry/intermittent. Poor driving conditions were encountered on secondary roads and crews often had to use winches to make it through muddy sections of road. The lack of a developed road network throughout the project area was the biggest obstacle for using vehicle access to reach sample sites. The majority of sample sites were accessed by helicopter. Helicopter access to sample sites was also difficult due to the lack of open areas suitable for landing. No sites were dropped from the sample plan due to lack of access.

4.2 Survey Information

Table 1 provides an overview of the survey information compiled for the South Fulton Study Area.

Table 1. Summary Survey Information for the Study Area.

Major Watershed Code:	480-000000-00000-00000-0000-0000-000-000-000-000-
Watershed Name:	Babine Lake Watershed
Drainage:	Babine Lake → Babine River → Skeena River → Chatham Sound
NTS Maps:	93L/16, 93L/09, 93L/02, 93K/12
TRIM Maps:	93K.061, 93K.071, 93L.069, 93L.070, 93L.079, 93L.080, 93L.090
Total Number of Lakes:	9
Total Number of Reaches:	820
Stream Field Sampling Dates:	July 31-October 6, 2001
Number of Random Sites Sampled:	22
Number of Bias Sites Sampled:	67
Number of Fish Sampling Sites:	37
Total Number of Sampling Sites:	126

4.3 Fish Age, Size and Life History

Fish were captured in 34 of 126 sample locations. Table 2 provides a summary of the reaches in which fish were captured. Rainbow trout, coho salmon, sockeye salmon, lake chub, and cutthroat trout were captured in the study area. Length frequency distributions are provided in the figures below for the sport species captured. A length frequency distribution for sockeye is not provided as all fish were visually observed and their lengths were estimated. Quantitative abundance figures were not generated for this study, as sampling methods to determine abundance were not utilized. The majority of fish captured were less than 100 mm and ageing structures such as fin rays, scale samples, or otoliths were not taken for this study.

Rainbow trout

Rainbow trout captured during this survey were found to utilize small (1-5 m) to moderately large streams (5-9 m), which have moderate flows (0.08-0.30 m/s), gravel substrates, and riffle pool morphology. The presence of fry and juveniles and a limited number of adults suggests that rainbow trout adults utilize these moderate size streams for spawning then return to the lake for rearing. The juveniles rear in these small to moderately sized streams until they are large enough to make a downstream migration to a larger stream or Babine Lake. Spawning for rainbow trout usually occurs from mid-April to late June with fry emergence occurring from mid-June to mid-August (Scott & Crossman 1985).

Although ageing data was not collected for the rainbow trout in the study area, we can extrapolate from known ageing data within the region. Triton (1999, 2000, 2001 & 2001a) rainbow trout ageing data for the region is summarized below:

- 0+, range 40-50 mm, mean 46 mm
- 1+, range 72-150 mm, mean 88 mm
- 2+, range 110-203 mm, mean 140 mm
- 3+, range 110-221 mm, mean 184 mm

The majority (71 of 92) of rainbow trout captured in the study area were 0+ and 1+. The high occurrence of juveniles supports the theory that very few adults are stream residents. Figure 2 provides a length frequency distribution for rainbow trout captured in the study area.

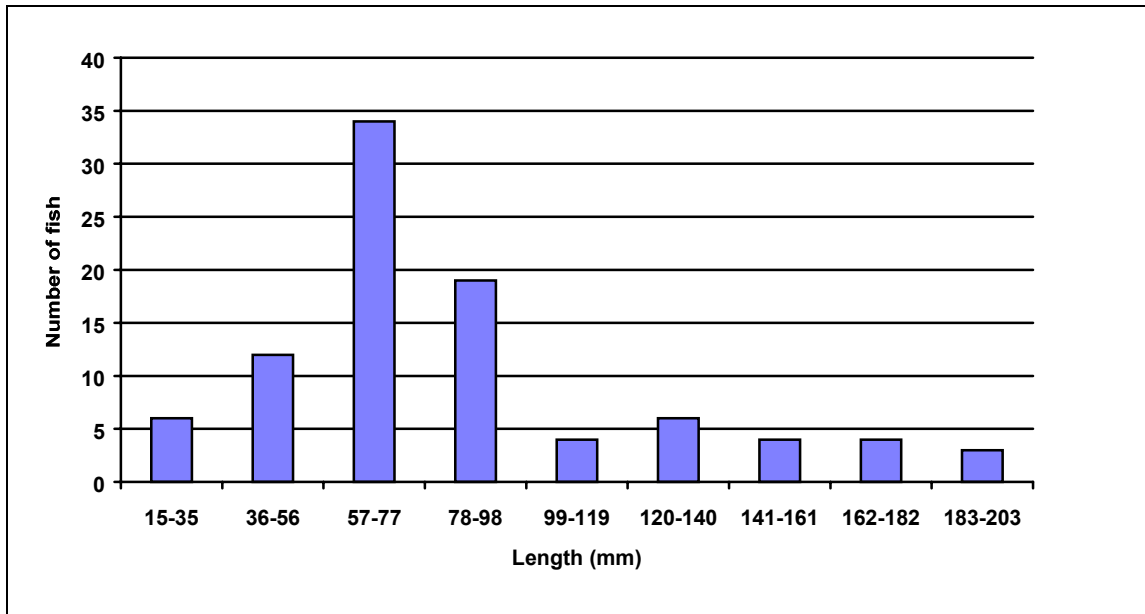


Figure 2. Length frequency distribution for rainbow trout captured in the study area (n=92).

Cutthroat trout

Cutthroat trout were captured in a variety of habitats throughout the study area. They were most often found in or adjacent to streams that provided overwintering habitat. The majority of the cutthroat captured were fry and juveniles, which indicates they are likely utilizing small stream (1-5 m) habitat for juvenile rearing and refuge. Adult cutthroat likely utilize these tributary streams for spawning during the spring. Cutthroat live to a maximum of 10 years and can reach sexual maturity in as little as 2 years. Spawning takes place in the spring (February to May) in streams with adequate gravel substrates. Redds are constructed and the eggs hatch within 6-7 weeks depending on water temperatures. Fry emerge from redds in 1-2 weeks (Scott & Crossman 1985).

Although ageing data was not collected for cutthroat captured in the study area, we can extrapolate from known ageing data within the region. Triton (2000, 2001a & 2001b) cutthroat ageing data for the region is summarized below:

- 1+, range 69-155 mm, mean 95 mm
- 2+, range 110-160 mm, mean 140 mm

No adult cutthroat were captured within the study area, supporting the conclusion that these streams are used for spawning and juvenile rearing.

Table 2. Fish capture locations within the study area

Site	Watershed Code/ILP	Reach	Order	Species	Stage	Number	Minimum Length (mm)	Maximum Length (mm)
12	480-723719	1	2	CO	J	12	50	65
12	480-723719	1	2	RB	J	5	60	90
13	480-742900	1	5	SK	A	200	450	650
14	480-723719	1	2	CO	J	4	45	60
14	480-723719	1	2	RB	J	6	50	85
35	480-776600	1	4	CO	J	15	50	65
35	480-776600	1	4	RB	J	6	55	80
35	480-776600	1	4	SK	A	10	250	350
37	480-770700	1	3	CO	J	12	50	70
37	480-770700	1	3	RB	J	9	55	85
40	480-768300	2	3	RB	A	3	140	180
44	480-760400-61400	3	2	RB	F	5	25	32
44	480-760400-61400	3	2	RB	J	2	65	70
47	480-760400	3	3	RB	J	3	75	98
51	480-718600-59500	8	2	RB	J	3	62	85
54	480-705800-57200	5	3	LKC	J	5	34	50
55	480-705800-57200	5	3	RB	A	7	125	180
57	480-705800-57200-68352-6090	1	3	RB	A	2	150	190
75	480-705800	29	4	RB	A	3	110	155
313	480-742900	2	5	SK	A	35	na	na
332	480-705800	33	3	LKC	J	2	45	60
355	480-705800	24	4	RB	F	3	35	51
355	480-705800	24	4	RB	J	2	90	110
362	480-705800	12	5	RB	J	5	80	117
362	480-705800	12	5	RB	J	1	82	82
363	480-705800-06200	2	2	CT	J	4	43	75
365	480-705800	4	5	CT	J	3	40	67
365	480-705800	4	5	RB	J	4	53	63
371	480-718600-59500	2	4	RB	J	4	60	124
513	480-705800-57200	1	4	RB	J	5	70	85
513	480-705800-57200	1	4	RB	F	3	45	55
513	480-705800-57200	1	4	RB	A	3	175	200
516	480-718600	2	3	CT	J	4	90	105
517	480-718600-21400	1	2	CT	J	3	90	115
520	480-718600	3	2	CT	J	3	110	115
535	480-764900	1	2	CO	F	2	30	40
537	480-760400-36400	1	3	CT	J	3	45	71
538	480-760400	2	3	CT	J	5	50	83
539	480-760400	1	4	CT	J	6	51	67
541	480-745100	1	2	CO	J	4	41	50
544	480-735600	1	3	CO	J	3	30	49
546	480-718600-59500	8	2	RB	J	3	60	70
871	480-718600-21400	2	Lake	LKC	J	33	40	90
875	30004	2	Lake	LKC	J	19	50	83
875	30004	2	Lake	RB	J	6	50	65

RB= rainbow trout J= juvenile
CO= coho A= adult
LKC= lake chub F= fry
CT= cutthroat trout
SK= sockeye

Figure 3 provides a length frequency distribution for cutthroat captured in the study area.

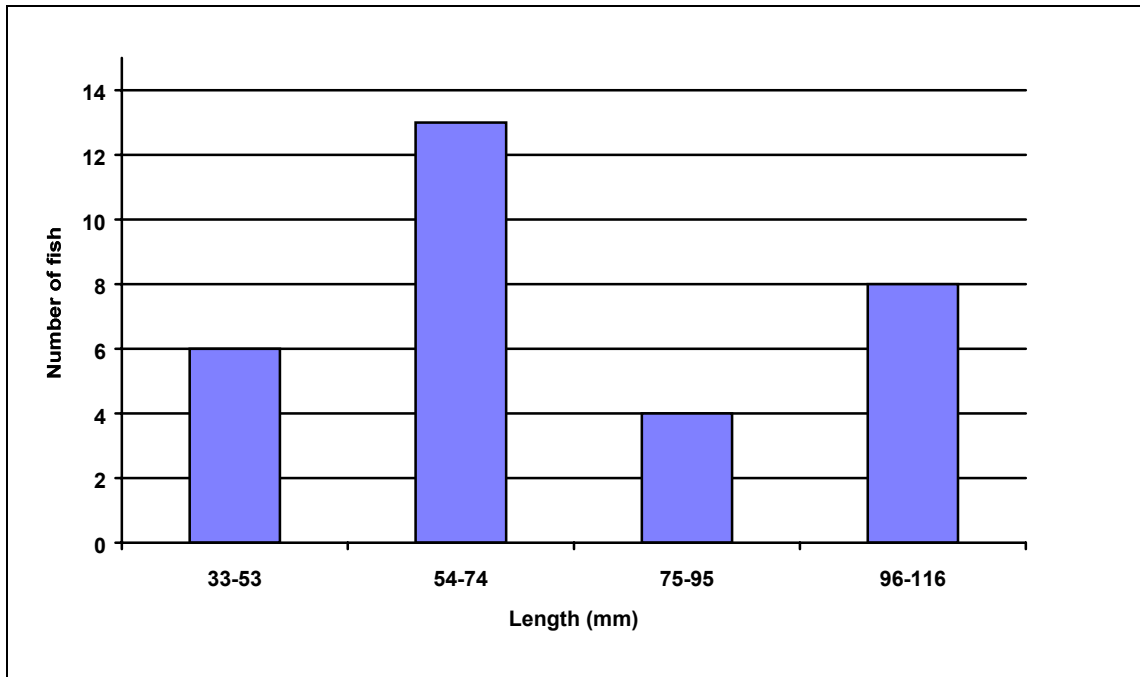


Figure 3. Length frequency distribution for cutthroat trout captured in the study area (n=31).

Coho

Coho juveniles were captured at several locations adjacent to Babine Lake. Historical information (FISS) identified coho adults within the Fulton River (WSC 480-697200), which lies to the north of the study area. The lack of adult spawning habitat identified within the capture locations indicates that adult coho are not utilizing these small streams for spawning. Adult coho are likely spawning in the Fulton River and other large tributaries to Babine Lake. The coho juveniles are most likely migrating (during spring) along the lakeshore and finding their way into lower reaches of the study area streams. They likely remain in the small study area streams for 1 year before reaching a suitable size (approx. 100 mm) for smolt migration in the spring (Scott & Crossman, 1985). The majority of the coho captured are thought to be 0+ based on their lengths. Coho fry emerge from the gravel in the spring and early summer (March to July) and juveniles usually remain in freshwater for 1-2 years before migrating (downstream) to the ocean where they reside for 1 to 3 years.

Figure 4 provides a length frequency distribution for coho captured in the study area.

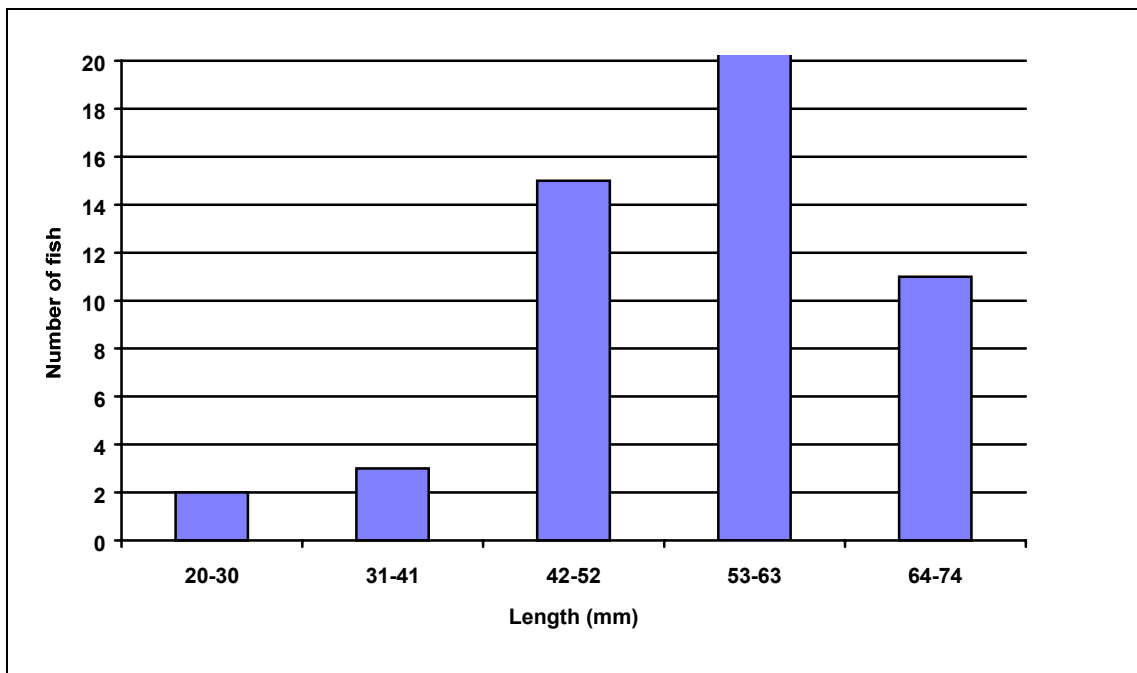


Figure 4. Length frequency distribution for coho captured in the study area (n=52).

4.4 Habitat and Fish Distribution

Fish were captured in 2nd to 5th order streams and fish distribution was generally associated with perennial fish habitat. Perennial habitat includes the presence of continually available overwintering, spawning, and rearing habitat. Instream overwintering habitat was identified as containing residual pool depths greater than 0.5 m. Other overwintering or perennial habitat included wetlands and lakes with depths greater than 0.5 m.

Spawning habitat was characterized by the presence of suitable spawning substrates, perennial flows, and adequate water velocity in order to incubate eggs. The quality of spawning habitat was a field observation and a judgment was made by the field crew on how well each of the parameters was satisfied. Low or poor quality spawning habitat was characterized by a lack of significant accumulations of spawning substrates, turbulent flows, low average water velocity (<1% gradient), or high average water velocity (>1 m/s). Medium or Moderate quality spawning habitat was characterized by occasional accumulations of spawning substrates (<10% of total habitat area) but limited by one or several of the following parameters: turbulent flows, high proportion of fines, low average water velocity (<1% gradient), or high average water velocity (>1 m/s). High quality spawning habitat was characterized by abundant accumulations of suitable spawning substrates (>10% of total habitat area) perennial flows, and moderate gradient (1 to 5% gradient).

Rearing habitat was characterized as habitat with adequate water (seasonal) to sustain growth. The quality of rearing habitat was a field observation and a judgment was made

by the field crew on how well each of the parameters was satisfied. Low or poor quality rearing habitat was characterized by a lack of channel development and limited by ephemeral flows, shallow average water depths (<10 cm), lack of significant pools (>10 cm), predominance of fine or organic substrates. Medium or moderate quality rearing habitat was characterized by the presence of perennial flows and limited by one or several of the following parameters: low gradient (<2%), high gradient (>10%), lack of cover, lack of significant pools (>20 cm), lack of coarse substrates, or large average substrate size (boulders). High quality rearing habitat was characterized by perennial flows, abundant cover, moderate gradient (1-5%), and frequent riffles and pools.

No fish were captured in 1st order streams. Habitat quality within these 1st order reaches was generally poor with small (<1.5 m) average channel widths and ephemeral water flows. Field observations indicated that the small channel widths and ephemeral nature of these streams likely limit or prevent their ability to sustain fish populations, particularly throughout the year. It is unlikely that fish use these reaches, unless they flow into a major system (i.e. 3rd to 5th order), due to the short duration of water flows and lack of suitable fish habitat.

Fisheries values within the project area are largely associated with the limited occurrence of spawning and rearing habitats. The prevalence of shallow stream habitat and low overall habitat complexity, appear to be the primary limiting factors for spawning and rearing habitats. The general lack of deep pool habitats and perennial flow in tributary streams limits the occurrence of suitable rearing and overwintering habitats for resident trout.

No fish were captured in reaches with an average channel width of less than 0.9 m, or with an average gradient greater than 14.5%. Figure 5 shows the relationship between fish capture locations and gradient vs channel width. Fish bearing 2nd order streams had an average channel width of 1.56 m. Fish bearing 3rd order streams had an average channel width of 2.42 m. Fish-bearing 4th and 5th order streams had average channel widths of 4.25 m and 7.59 m respectively.

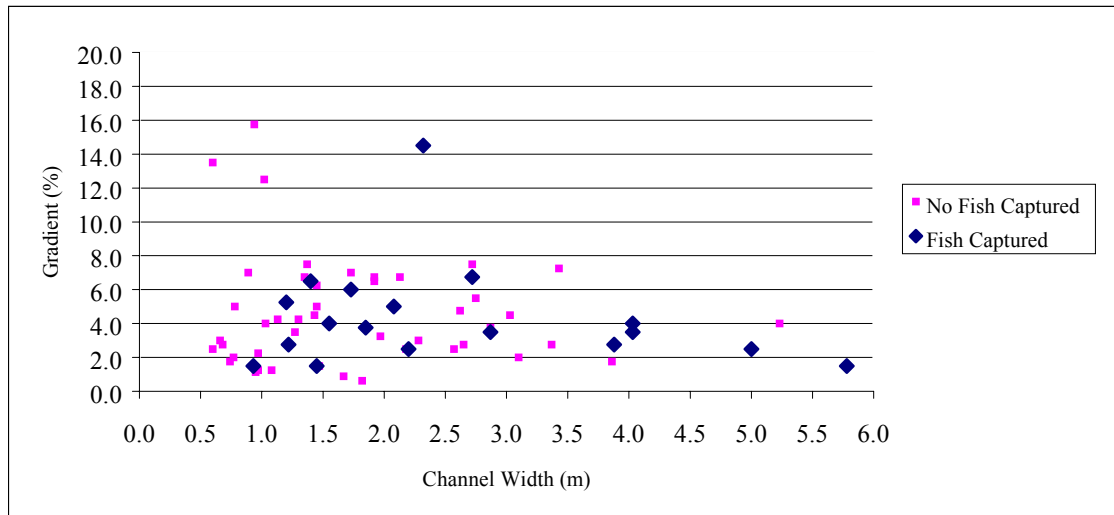


Figure 5. Gradient vs width relationship for sampled streams in the study area (n=67).

As is apparent from the above figure, no streams were sampled with channel widths less than 60 cm. A high percentage (17%) of Non Visible Channels (NVCs) are found within the study area and it appears that channel widths must be at least 60 cm or greater to develop a continuous definable channel at lower gradients. Fish were not found in streams < 0.9 m average channel width during the late summer early fall period in spite of considerable sampling effort. The analyzed results from this figure are fairly consistent with other results found throughout the region (non fish presence) in smaller channel width, high gradient streams.

4.4.1 Barriers to Fish Distribution

Permanent barriers prevent all fish species (including all age classes) from gaining access to the portion of stream above the barrier under all flows. Falls and cascades were the dominant types of permanent barriers to upstream fish migration in the study area. Temporary barriers such as culverts and beaver dams may prevent fish species from gaining access to the portion of stream above the barrier but they are not permanent features with the drainage as they can change from year to year.

Several signification barriers that define fish distribution were noted:

- 7 m falls in Reach 3 of “Sockeye” Creek (WSC 480-742900). The falls defines the “end of fish use” and the upper limit of sockeye spawning within this 4th order system.
- 4 m falls in Reach 1 of “unnamed” stream (WSC 480-776600). The falls defines the “end of fish use” and the upper limit of potential sockeye spawning within this 4th order system.
- 7 m falls in Reach 1 of “unnamed” stream (WSC 480-770700). The falls defines the “end of fish use” and the upper limit of potential sockeye spawning within this large 3rd order system.

Other barriers to fish migration are presented in Table 3 along with other features affecting fish habitat in the study area.

4.5 Significant Features and Fisheries Observations

4.5.1 Fish and Fish Habitat

Two sample sites identified significant sockeye spawning areas. Site 13 (Reach 1 WSC 480-742900) contained hundreds of spawning sockeye during the field sampling. Sockeye were noted within this stream up to an impassable 7 m falls in Reach 3. Several hundred sockeye were also noted staging at the mouth of this stream. Numerous sockeye carcasses and redds were noted in Reach 1 of WSC 480-776600 (Site 35). These systems should be addressed during forest development planning to develop and implement strategies to minimize and/or avoid impacts.

No special populations or rare and sensitive wild stocks were identified within the study area. No high value sport fishing opportunities were identified within the study area however sport fishing opportunities exist outside the study area as described in the Resource Information section.

4.5.2 Habitat Protection Concerns

4.5.2.1 Fisheries Sensitive Zones

No fisheries sensitive zones were identified in the study area.

4.5.2.2 Fish above 20% Gradients

No fish were identified above 20% gradient.

4.5.2.3 Restoration and Rehabilitation Opportunities

One culvert (Table 3) in Reach 1 of 480-721319 (Site 12) was identified as a partial barrier to upstream fish migration. In this case the culvert outlet was perched above the outlet pool creating a barrier for juveniles at low flows. Coho and rainbow trout were identified above the culvert indicating that it does pass fish at certain flows. Replacement or removal of this culvert would insure that fish passage is present at all flow regimes.

Spawning sockeye salmon were noted at Site 35, located immediately upstream of a disturbed portion of the channel. Debris jams and sediment wedges have caused this stream to fan out into a braided channel. At the time of sampling much of this fan was

Site	Watershed Code	Reach	Feature Type	Feature Height (m)	Feature Length (m)	Barrier Type (T or P)	Comments
6	480-742900	6	F	10	na	P	Located in R5 Barrier to fish
6	480-742900	6	F	15	1	P	Barrier to fish
9	480-742900	3	F	7	2	P	Barrier to upstream fish
11	480-729600	1	C	6	2	P	Barrier to fish
12	480-723719	1	CV	0.9	7	T	Partial barrier to fish
14	480-723719	1	F	1.7	na	P	Vertical Falls-no plunge pool
35	480-776600	1	F	4	0.5	P	Falls prevent upstream migration
37	480-770700	1	F	7	1	P	Falls 100 m upstream of the
37	480-770700	1	F	7	1.5	P	Falls prevent upstream fish
40	480-768300	2	F	1.8	na	P	Barrier to upstream fish
45	480-760400	6	C	1.2	1	P	Barrier to upstream fish
47	480-760400	3	F	3.5	1	P	Barrier to upstream fish
47	480-760400	3	F	4	1	P	None
54	480-705800-57200	5	C	3	3	P	Potential Barrier
371	480-718600-59500	2	BD	2	10	T	Located 80m upstream of road crossing
519	480-718600-21906-21838	1	BD	1	5	T	Beaver dam

F= Falls

C= Cascade

BD= Beaver Dam

CV = Culvert

T= Temporary

P= Permanent

dry and sockeye carcasses were littered through the multiple channels. Some small scale and focused channelization may provide better access to the section of channel that is not disturbed.

4.5.2.4 Unstable Slopes

No unstable slopes or landslides were identified within the study area.

4.6 Fish Bearing Status

4.6.1 Fish Bearing Reaches

Fish species were captured in 33 of the 56 reaches classified as fish bearing (Table 4). Twenty-three (23) reaches in the fish bearing classification table were classified as fish bearing by default. Twenty-one (21) of these reaches were identified as accessible from downstream fish bearing waters and could be utilized for a portion of the year. It was determined that fish can access these reaches (from downstream fish bearing waters) and further sampling is not recommended.

The fish bearing status of streams may be directly supported by sampling data or indirectly inferred based on fish captures in associated reaches, or habitat quality and the occurrence or lack of barriers to fish passage. For example, if the habitats within a given reach are suitable for rearing and/or spawning but no fish were captured and no barriers were observed, the reach would be classed as fish bearing. If the habitats were inadequate to provide suitable rearing habitat, or where barriers prevent fish from accessing and utilizing the reach, it would be classified as non-fish bearing.

Inferred fish bearing status was given to reaches not sampled with the following criteria:

- The average stream gradient was less than 20% (through map interpretation) and access to fish bearing water is present.
- Stream sections below a headwater lake.

Table 4. Fish bearing reaches within the study area

Site	Watershed Code/ILP	Reach	Width (m)	Gradient (%)	Species	Stream Class	Follow-up Sampling	Comments
11	480-729600	1	1.02	12.5	NFC	S4/S6	n	Fish bearing by default. Potential fish access downstream of 6 m cascade. Non fish bearing upstream of the cascade.
12	480-723719	1	2.20	2.5	CO,RB	S3	n	Moderate spawning and rearing habitat. No overwintering habitat observed.
13	480-742900	1	12.00	1.375	SK	S2	n	High quality spawning habitat. Moderate rearing habitat. Overwintering habitat present.
14	480-723719	1	1.85	3.75	CO,RB	S3/S6	n	Moderate rearing habitat, poor spawning habitat and poor overwintering habitat. Non fish bearing upstream of 1.7 m falls.
35	480-776600	1	8.72	2.5	CO,RB,SK	S2/S5	n	Moderate spawning and rearing habitat. Overwintering habitat present. Non fish bearing upstream of 4 m falls.
37	480-770700	1	3.88	2.75	CO,RB	S3/S6	n	Moderate spawning and rearing habitat. Overwintering habitat present. Non fish bearing upstream of 7 m falls.
40	480-768300	2	2.32	14.5	RB	S3/S6	n	Poor spawning and rearing habitat. No overwintering habitat. Non fish bearing upstream of 1.8 m falls.
44	480-760400-61400	3	1.45	1.5	RB	S4	n	Poor rearing and spawning habitat. No overwintering habitat.
47	480-760400	3	2.87	3.5	RB	S3/S6	n	Moderate spawning and rearing habitat. Overwintering habitat present. Non fish bearing upstream of 3.5 m falls.
49	480-735600	5	0.97	1.25	NFC	S4*	y	Poor rearing habitat. No spawning habitat. No overwintering habitat. No barriers to upstream fish migration were identified. Suggest resampling downstream.
51	480-718600-59500	8	1.22	2.75	RB	S4	n	Poor rearing and spawning habitat. No overwintering habitat.
52	480-718600-76300-95399-3509	2	1.13	4.25	NFC	S4*	n	Poor rearing and spawning habitat. No overwintering habitat. No barriers to upstream fish migration were identified.
53	480-718600-90300-98627-2578	1	1.47	1.5	NS	S4*	n	Poor rearing and spawning habitat. No overwintering habitat. Downstream wetlands may restrict upstream fish migration.
54	480-705800-57200	5	1.27	3.5	RB/LKC	S4	n	Poor rearing and spawning habitat. No overwintering habitat. No RB were captured upstream of a 3 m cascade (potential barrier).
55	480-705800-57200	5	na	na	RB	na	n	Fish sampling only.
56	480-705800-57200-68352-6090	2	1.45	5	NFC	S4*	n	Poor rearing and spawning habitat. No overwintering habitat. No barriers to upstream fish migration were identified.
57	480-705800-57200-68352-6090	1	1.40	6.5	RB	S4	n	Poor rearing and spawning habitat. No overwintering habitat.
59	480-705800-57200-81339	1	0.95	1.125	NFC	S4*	y	Poor rearing habitat. No spawning habitat. No overwintering habitat. A potential barrier was identified at Site 54. Suggest resampling.
60	480-705800-57200-58676	1	1.45	6.25	NFC	S4*	n	Poor rearing and spawning habitat. No overwintering habitat. A steep gradient (15%) section at confluence may restrict upstream fish migration.
62	480-705800	32	1.82	0.625	NFC	S3*	n	Moderate rearing habitat. Poor spawning habitat. Overwintering habitat present. Beaver complex downstream may prevent upstream fish migration.

Table 4. Fish bearing reaches within the study area

Site	Watershed Code/ILP	Reach	Width (m)	Gradient (%)	Species	Stream Class	Follow-up Sampling	Comments
75	480-705800	29	2.08	5	RB	S3	n	Moderate rearing habitat. Poor spawning habitat. No overwintering habitat observed.
313	480-742900	2	na	na	SK	na	n	Fish sampling only.
332	480-705800	33	na	na	LKC	na	n	Fish sampling only.
351	480-705800-57200-20805	1	0.77	2	NFC	S4*	n	Moderate rearing potential. Low spawning and overwintering potential. No barriers to upstream fish migration were identified.
355	480-705800	24	4.03	4	RB	S3	n	High spawning and rearing potential. Moderate overwintering potential.
356	480-705800	25	3.86	1.75	NFC	S3	n	High overwintering and rearing potential. Low spawning potential. Fish were captured upstream of this reach.
361	480-705800-35727-13169	1	0.78	5	NS	S4*	n	Moderate rearing potential. No spawning or overwintering potential. Stream was dry at the time of sampling.
362	480-705800	12	5.78	1.5	RB	S2	n	High rearing and overwintering potential. Moderate spawning potential.
363	480-705800-06200	2	0.93	1.5	CT	S4	n	Moderate rearing potential. Low spawning and overwintering potential.
364	480-705800-06200	1	0.74	1.75	NS	S4	n	Moderate rearing potential. Low spawning potential. No overwintering habitat. Fish were captured upstream of this reach.
365	480-705800	4	5.00	2.5	RB, CT	S2	n	High spawning and overwintering potential. Moderate spawning potential.
366	480-704490	3	1.30	4.25	NS	S4*	n	Moderate spawning potential. Low rearing and overwintering potential. No barriers to upstream fish migration were observed.
367	480-718600-18048	1	0.66	3	NFC	S4*	n	Moderate rearing potential. Low spawning and overwintering potential. No barriers to upstream fish migration were identified.
371	480-718600-59500	2	3.70	1.75	RB	S3	n	High overwintering potential. Moderate rearing potential. Low spawning potential.
513	480-705800-57200	1	2.72	6.75	RB	S3	n	Moderate spawning, rearing, and overwintering potential.
514	480-705800-70123-61560	1	2.28	3	NFC	S3*	n	Moderate rearing and overwintering potential. Low spawning potential. No barriers to upstream fish migration were identified.
516	480-718600	2	1.20	5.25	CT	S4	n	Moderate rearing and spawning potential. Poor overwintering potential.
517	480-718600-21400	1	1.73	6	CT	S3	n	Moderate rearing and spawning potential. Low overwintering potential.
518	480-718600-21906	1	0.89	7	NFC	S4*	n	Low rearing potential. No overwintering or spawning potential. Beaver dam downstream may prevent upstream fish migration.
519	480-718600-21906-21838	1	0.60	2.5	NFC	S4*	n	Limited rearing potential. No overwintering or spawning potential. Beaver dams and organic obstructions downstream may prevent upstream fish migration.
520	480-718600	3	na	na	CT	na	n	Fish sampling only.
535	480-764900	1	1.55	4	CO	S3	n	Low rearing and spawning potential. No overwintering potential.
536	480-760400-36400	2	1.92	6.5	NFC	S3*	n	Moderate spawning and rearing potential. Low overwintering potential. No barriers to upstream fish migration were identified.

Table 4. Fish bearing reaches within the study area

Site	Watershed Code/ILP	Reach	Width (m)	Gradient (%)	Species	Stream Class	Follow-up Sampling	Comments
537	480-760400-36400	1	na	na	CT	na	n	Fish sampling only.
538	480-760400	2	4.03	3.5	CT	S3	n	Moderate spawning and rearing potential. Low overwintering potential.
539	480-760400	1	na	na	CT	na	n	Fish sampling only.
541	480-745100	1	na	na	CO	na	n	Fish sampling only.
543	480-735600	2	1.92	6.75	NFC	S3*	n	Moderate rearing potential. Low overwintering and spawning potential. No barriers to upstream fish migration were identified.
544	480-735600	1	na	na	CO	na	n	Fish sampling only.
546	480-718600-59500	8	na	na	RB	na	n	Fish sampling only.
548	480-718600-76300	6	2.18	2.5	NFC	S3*	n	Moderate rearing potential. Low spawning and overwintering potential. Upstream fish migration may be blocked by braided sections and heavily vegetated areas.
791	480-705800-06200	4	0.97	2.25	NS	S4*	n	Low spawning and rearing potential. No overwintering potential. No barriers to upstream fish migration were identified.
792	480-705800-06200	5	1.03	4	NFC	S4*	n	Low spawning and rearing potential. No overwintering potential. No barriers to upstream fish migration were identified.
794	480-705800-57200-31118	2	0.60	13.5	NFC	S4*	n	Low spawning, rearing, and overwintering potential. Dewatered sections may restrict fish access.
871	480-718600-21400	2	na	na	LKC	na	n	Fish sampling only.
875	30004	2	na	na	LKC, RB	na	n	Fish sampling only.

RB= rainbow trout

CO= coho

LKC= lake chub

CT= cutthroat trout

SK= sockeye

NFC= no fish caught

NS= not sampled for fish

4.6.2 Additional Sampling Recommendations

Two (2) reaches were recommended for additional sampling (Table 5). Additional sampling will clarify fish presence/absence and establish if any barriers exist in downstream reaches. No sport fish were captured in reaches recommended for additional sampling and these reaches are considered fish bearing until further sampling is conducted. Reaches identified for additional sampling are included in Table 4 (fish bearing)

The reaches selected for additional sampling represent small tributaries with limited habitat values, and they exhibit ephemeral flows. Based on additional sampling efforts in the past, these reaches often provide limited values for salmonids, and even under optimal conditions, fish are often present at low densities and are not always captured. The reaches selected for additional sampling were required by default due to a lack of water, or negative sampling results.

The timing of additional sampling efforts is critical to ensuring optimal conditions and maximizing the potential for fish to occur. In particular, additional sampling should be conducted in the spring immediately following peak runoff, which usually occurs in the early part of May. Reaches classified as fish bearing and selected for additional sampling could also be deferred by accepting this default classification, however the reaches selected for additional sampling would contribute valuable information to aid in determining fish presence and distribution for future stream classification work.

Table 5. Additional sampling recommendations for the study area

Site	Watershed Code/ILP	Reach	Width (m)	Gradient (%)	Species	Stream Class	Comments	Additional Sampling Recommendations
49	480-735600	5	0.97	1.25	NFC	S4*	Coho were captured in Reach 1. Low water restricted sampling effectiveness.	Additional sampling in early summer may provide information on the end of fish use in Reach 2 or 3
59	480-705800-57200-81339	1	0.95	1.13	NFC	S4*	A potential barrier was identified downstream on the mainstem. LKC were captured upstream of the potential barrier.	Additional sampling upstream of the potential barrier may confirm a lack of sport species.

NFC= no fish caught

4.6.3 Non-Fish Bearing Status

Non-fish bearing status was assigned to 50 of the 89 sample sites within the study area (Table 6). A non-fish bearing classification has been assigned to all sampled reaches within the non-fish bearing table. Non-fish bearing classifications are associated with reaches that lack suitable habitat to sustain salmonids or are inaccessible to fish. Non-fish bearing status was assigned to reaches where:

- The stream was labeled a non-visible channel containing no potential fish habitat;
- The stream was deemed inaccessible from fish bearing waters and did not have perennial fish habitat;
- Gradient prevented upstream fish migration and the stream did not have perennial fish habitat upstream;
- Permanent barriers (cascades, falls, etc.) prevented upstream fish migration and the stream did not have perennial fish habitat upstream;
- No fish habitat was present;
- The stream gradient is >30% (through map interpretation) in the lower section of stream (i.e. reach 1) and all reaches upstream of that reach are >20%;
- The stream gradient is >30% (through map interpretation); Gradients were calculated during the pre field planning phases.
- The stream lacked a continuous definable channel bed;

Inferred non-fish bearing status was given to reaches with the following criteria:

- The average stream gradient was greater than or equal to 20% (through map interpretation) with no headwater lake present;
- Reaches above a stream section with an average gradient greater than or equal to 20% (through map interpretation) with no headwater lake present.

Often the non-fish bearing status of stream reaches with average gradients less than 20% is supported by evidence concerning the accessibility to potential fish bearing water. For example, obvious permanent barriers such as falls, cascades and high gradient sections are measured and adequate sampling is conducted above the potential barrier to confirm that the portion of stream above the barrier is non-fish bearing. Many of the headwater reaches and smaller streams reaches draw from such a small watershed area that they lack sufficient discharge volume required to develop significant channels and habitat complexity. These reaches are often ephemeral, containing shallow water depths, subsurface flows, lack of significant pools and have a predominance of organic and fine substrates.

Table 6. Non fish bearing reaches within the study area

Site	Watershed Code/ILP	Reach	Width (m)	Gradient (%)	Stream Class	Date	Electrofishing Specifications						Other Methods		Comments	Additional Rationale
							Dist. (m)	Time (s)	Cond. (uS)	Stage (vis)	Turb. (vis)	Temp. (°C)	Type	Method		
1	480-742900-49602	2	1.08	1.25	S6	2001/07/31	200	172	40	Low	C	8	na	na	A 7 m falls in Reach 3 of 480-742900 prevents upstream fish migration to this stream.	A total of 19 sample sites (4315 seconds of EF effort over 5110 m of habitat) upstream of the 7 m falls confirms that no resident species are present upstream of the falls.
2	480-742900-64310	1	3.03	4.5	S5	2001/07/31	400	369	40	Low	C	8	na	na	A 7 m falls in Reach 3 of 480-742900 prevents upstream fish migration to this stream.	A total of 19 sample sites (4315 seconds of EF effort over 5110 m of habitat) upstream of the 7 m falls confirms that no resident species are present upstream of the falls.
3	480-742900	8	5.23	4	S5	2001/07/31	400	416	40	Low	C	8	na	na	A 7 m falls in Reach 3 prevents upstream fish migration to this reach.	A total of 19 sample sites (4315 seconds of EF effort over 5110 m of habitat) upstream of the 7 m falls confirms that no resident species are present upstream of the falls.
4	480-742900-67600	1	3.43	7.25	S5	2001/07/31	300	192	40	Low	C	8	na	na	A 7 m falls in Reach 3 of 480-742900 prevents upstream fish migration to this stream.	A total of 19 sample sites (4315 seconds of EF effort over 5110 m of habitat) upstream of the 7 m falls confirms that no resident species are present upstream of the falls.
5	480-742900-55944	1	1.43	4.5	S6	2001/07/31	100	106	40	Low	C	8	na	na	A 7 m falls in Reach 3 of 480-742900 prevents upstream fish migration to this stream.	A total of 19 sample sites (4315 seconds of EF effort over 5110 m of habitat) upstream of the 7 m falls confirms that no resident species are present upstream of the falls.
6	480-742900	6	8.12	3	S5	2001/07/31	600	526	40	Low	C	8	na	na	A 7 m falls in Reach 3 prevents upstream fish migration to this reach.	A total of 19 sample sites (4315 seconds of EF effort over 5110 m of habitat) upstream of the 7 m falls confirms that no resident species are present upstream of the falls.
7	480-742900-48854	1	na	na	NVC	na	na	na	na	na	na	na	na	na	No visible channel.	A total of 19 sample sites (4315 seconds of EF effort over 5110 m of habitat) upstream of the 7 m falls confirms that no resident species are present upstream of the falls.
8	480-742900-47797	1	1.35	6.75	S6	2001/07/31	100	92	40	Low	C	8	na	na	A 7 m falls in Reach 3 of 480-742900 prevents upstream fish migration to this stream.	A total of 19 sample sites (4315 seconds of EF effort over 5110 m of habitat) upstream of the 7 m falls confirms that no resident species are present upstream of the falls.
9	480-742900	3	10.35	3.5	S5	2001/08/01	400	416	40	Low	C	8	na	na	A 7 m falls in prevents upstream fish migration to this reach.	A total of 19 sample sites (4315 seconds of EF effort over 5110 m of habitat) upstream of the 7 m falls confirms that no resident species are present upstream of the falls.
10	480-729600	3	na	na	NVC	na	na	na	na	na	na	na	na	na	No visible channel. No potential fish habitat. A fully vegetated wetland with no pockets of standing water. Downstream of the wetland is a vegetated seepage for 300 m.	A total of 8 sample sites (926 seconds of EF effort over 1150 m of habitat) upstream of the cascade including overnight minnow trap sets in 3 locations confirms that no resident species are present upstream of the cascade.
11	480-729600	1	1.02	12.5	S4/S6	2001/08/01	200	116	50	Low	C	8	MT	na	A 6 m (length 2 m) cascade prevents upstream fish migration.	A total of 8 sample sites (926 seconds of EF effort over 1150 m of habitat) upstream of the cascade including overnight minnow trap sets in 3 locations confirms that no resident species are present upstream of the cascade.
14	480-723719	1	1.85	3.75	S3/S6	2001/08/01	200	161	50	Mod	C	8	na	na	A 1.7 m falls prevents upstream fish migration.	Sampling (263 seconds of EF effort over 200 m) upstream of the falls confirms that no resident fish species are present upstream of the falls.
15	480-705800-06053-59559	1	na	na	NVC	na	na	na	na	na	na	na	na	na	No visible channel.	Fully vegetated linear depression. No signs of scour or alluvium. No fish habitat.

Table 6. Non fish bearing reaches within the study area

Site	Watershed Code/ILP	Reach	Width (m)	Gradient (%)	Stream Class	Date	Electrofishing Specifications						Other Methods		Comments	Additional Rationale
							Dist. (m)	Time (s)	Cond. (uS)	Stage (vis)	Turb. (vis)	Temp. (°C)	Type	Method		
16	480-705800-06053	2	na	na	NVC	na	na	na	na	na	na	na	na	na	No visible channel.	Fully vegetated linear depression. No signs of scour or alluvium. Some wet depressions of mud. No fish habitat.
35	480-776600	1	8.72	2.5	S2/S5	2001/08/15	100	161	50	Low	C	9	na	na	A 4 m falls prevents upstream fish migration.	A total of 6 sample sites (2534 seconds of EF effort over 1435 m of habitat) upstream of the falls confirms that no resident fish species are present upstream of the falls.
37	480-770700	1	3.88	2.75	S3/S6	2001/08/15	100	106	50	Low	C	9	na	na	A 7 m falls prevents upstream fish migration.	A total of 4 sample sites (1785 seconds of EF effort over 1426 m of habitat) upstream of the falls confirms that no resident fish are present upstream of the falls.
38	480-770700	9	2.62	4.75	S6	2001/08/15	300	356	30	Low	C	9	na	na	A 7 m falls in Reach 1 prevents upstream fish migration to this reach.	A total of 4 sample sites (1785 seconds of EF effort over 1426 m of habitat) upstream of the falls confirms that no resident fish are present upstream of the falls.
39	480-770700-73000	1	1.37	7.5	S6	2001/08/15	400	359	40	Low	C	10	na	na	A 7 m falls in Reach 1 of 480-770700 prevents upstream fish migration to this stream.	A total of 4 sample sites (1785 seconds of EF effort over 1426 m of habitat) upstream of the falls confirms that no resident fish are present upstream of the falls.
40	480-768300	2	2.32	14.5	S3/S6	2001/08/16	200	69	110	Low	C	10	na	na	A 1.8 m falls prevents upstream fish migration.	A total of 4 sample sites (1831 seconds of EF effort over 1400 m of habitat) upstream of the falls confirms that no resident fish are present upstream of the falls.
43	480-768300	6	1.67	0.875	S6	2001/08/16	250	219	120	Low	C	11	na	na	A 1.8 m falls in Reach 2 prevents upstream fish migration to this reach.	A total of 4 sample sites (1831 seconds of EF effort over 1400 m of habitat) upstream of the falls confirms that no resident fish are present upstream of the falls.
45	480-760400	6	1.73	7	S6	2001/08/16	400	460	50	Low	C	10	na	na	A 3.5 m falls in Reach 3 prevents upstream fish migration.	A total of 3 sample sites (1228 seconds of EF effort over 1200 m of habitat) upstream of the falls confirms that no resident fish are present.
46	480-760400	5	2.87	3.75	S6	2001/08/17	400	386	50	Low	C	8	na	na	A 3.5 m falls in Reach 3 prevents upstream fish migration.	A total of 3 sample sites (1228 seconds of EF effort over 1200 m of habitat) upstream of the falls confirms that no resident fish are present.
47	480-760400	3	2.87	3.5	S3/S6	2001/08/17	100	109	50	Low	C	8	na	na	A 3.5 m falls prevents upstream fish migration.	A total of 3 sample sites (1228 seconds of EF effort over 1200 m of habitat) upstream of the falls confirms that no resident fish are present.
50	480-735600-41622	3	na	na	NVC	na	na	na	na	na	na	na	na	na	No visible channel.	A vegetated seepage with no definable channel or fish habitat.
61	480-705800	35	na	na	NVC	na	na	na	na	na	na	na	na	na	No visible channel.	Short sections of channel less than 30 m in length. These sections are separated by vegetated forest floor. Vascular plants and moss throughout seepage. No connectivity between short sections of channel. Does not have a continuous definable channel over 100 m.
352	480-705800-57200-20805-1000	1	na	na	NVC	na	na	na	na	na	na	na	na	na	No visible channel.	No potential fish habitat. Alder swale.
353	480-705800-59106	1	na	na	NVC	na	na	na	na	na	na	na	na	na	No visible channel.	No potential fish habitat.
357	480-705800-66427	1	na	na	NVC	na	na	na	na	na	na	na	na	na	No visible channel.	No potential fish habitat. Vegetated depression.
358	480-705800-40598	1	na	na	NVC	na	na	na	na	na	na	na	na	na	No visible channel.	No potential fish habitat. Vegetated depression.

Table 6. Non fish bearing reaches within the study area

Site	Watershed Code/ILP	Reach	Width (m)	Gradient (%)	Stream Class	Date	Electrofishing Specifications						Other Methods		Comments	Additional Rationale
							Dist. (m)	Time (s)	Cond. (uS)	Stage (vis)	Turb. (vis)	Temp. (°C)	Type	Method		
359	480-705800-37531	2	na	na	NVC	na	na	na	na	na	na	na	na	na	No visible channel.	No potential fish habitat. Vegetated depression.
360	480-705800-37531-26016	1	na	na	NVC	na	na	na	na	na	na	na	na	na	No visible channel.	No potential fish habitat. Vegetated depression /alder swale.
368	480-719689	1	na	na	NVC	na	na	na	na	na	na	na	na	na	No visible channel.	No potential fish habitat. Vegetated depression /alder swale.
369	480-722721	1	na	na	NVC	na	na	na	na	na	na	na	na	na	No visible channel.	No potential fish habitat. Vegetated depression.
370	480-725288	1	na	na	NVC	na	na	na	na	na	na	na	na	na	No visible channel.	No potential fish habitat. Vegetated depression.
501	480-742900-26000-72510	3	na	na	NVC	na	na	na	na	na	na	na	na	na	No visible channel. Wetland	A total of 19 sample sites (4315 seconds of EF effort over 5110 m of habitat) upstream of the 7 m falls confirms that no resident species are present upstream of the falls.
502	480-742900-26000-72510-4112	1	na	na	NVC	na	na	na	na	na	na	na	na	na	No visible channel.	No potential fish habitat.
503	480-742900-26000-72510	1	0.94	15.75	S6	2001/07/31	300	173	60	Low	C	6	na	na	A 7 m falls in Reach 3 of 480-742900 prevents upstream fish migration to this stream.	A total of 19 sample sites upstream of the 7 m falls confirms that no resident species are present upstream of the falls.
505	480-742900-26000	3	2.72	7.5	S6	2001/07/31	400	300	40	Mod	C	6	na	na	A 7 m falls in Reach 3 of 480-742900 prevents upstream fish migration to this stream.	A total of 19 sample sites upstream of the 7 m falls confirms that no resident species are present upstream of the falls.
506	480-742900-26000-49569	1	2.13	6.75	S6	2001/07/31	360	263	90	Mod	C	8	na	na	A 7 m falls in Reach 3 of 480-742900 prevents upstream fish migration to this stream.	A total of 19 sample sites upstream of the 7 m falls confirms that no resident species are present upstream of the falls.
509	480-742900	3	7.83	3.75	S6	2001/08/01	700	500	40	Mod	C	8	na	na	A 7 m falls prevents upstream fish migration.	A total of 19 sample sites upstream of the 7 m falls confirms that no resident species are present upstream of the falls.
510	480-729600	8	1.97	3.25	S6	2001/08/01	750	300	70	Low	C	9	MT	na	A 6 m (length 2 m) cascade in Reach 1 prevents upstream fish migration.	A total of 8 sample sites (926 seconds of EF effort over 1150 m of habitat) upstream of the cascade including overnight minnow trap sets in 3 locations confirms that no resident species are present upstream of the cascade.
527	480-776600-25000	1	2.65	2.75	S6	2001/08/15	300	810	40	Mod	C	7	na	na	A 4 m falls in Reach 1 of 480-776600 prevents upstream fish migration.	A total of 6 sample sites (2534 seconds of EF effort over 1435 m of habitat) upstream of the falls confirms that no resident fish species are present upstream of the falls.
530	480-776600-44246-52938	1	3.37	2.75	S5	2001/08/15	210	230	20	Mod	C	6	na	na	A 4 m falls in Reach 1 of 480-776600 prevents upstream fish migration.	A total of 6 sample sites (2534 seconds of EF effort over 1435 m of habitat) upstream of the falls confirms that no resident fish species are present upstream of the falls.
531	480-776600	8	3.10	2	S5	2001/08/15	350	600	40	Low	C	8	na	na	A 4 m falls in Reach 1 prevents upstream fish migration.	A total of 6 sample sites (2534 seconds of EF effort over 1435 m of habitat) upstream of the falls confirms that no resident fish species are present upstream of the falls.
532	480-770700	8	2.75	5.5	S6	2001/08/15	326	650	20	Mod	C	7	na	na	A 7 m falls prevents upstream fish migration.	A total of 4 sample sites (1785 seconds of EF effort over 1426 m of habitat) upstream of the falls confirms that no resident fish are present upstream of the falls.
533	480-768300	3	2.57	2.5	S6	2001/08/16	400	810	60	Low	C	6	na	na	A 1.8 m falls in Reach 2 prevents upstream fish migration.	A total of 4 sample sites (1831 seconds of EF effort over 1400 m of habitat) upstream of the falls confirms that no resident fish are present upstream of the falls.

Table 6. Non fish bearing reaches within the study area

Site	Watershed Code/ILP	Reach	Width (m)	Gradient (%)	Stream Class	Date	Electrofishing Specifications						Other Methods		Comments	Additional Rationale
							Dist. (m)	Time (s)	Cond. (uS)	Stage (vis)	Turb. (vis)	Temp. (°C)	Type	Method		
540	480-755241	4	0.68	2.75	S6	2001/08/16	110	298	140	Low	C	6	na	na	No overwintering habitat, low spawning and rearing potential. Discontinuous channel that is heavily vegetated.	Highly ephemeral stream. Reach 1 was classified as NVC. There is no potential fish access to this reach through Reach 1.
542	480-755241	1	na	na	NVC	na	na	na	na	na	na	na	na	na	No visible channel.	No potential fish habitat. Vegetated depression.
545	480-730049	1	na	na	NVC	na	na	na	na	na	na	na	na	na	No visible channel.	No potential fish habitat. Vegetated depression.
793	480-705800-06500-65000-9340-3429	1	na	na	NVC	na	na	na	na	na	na	na	na	na	No visible channel.	No potential fish habitat. Vegetated depression.

NFC= no fish caught NVC=no visible channel MT= minnow trap
 NS= not sampled for fish C=clear

Insufficient discharge often results in a lack of connectivity between the channelized portion of stream and downstream watercourses. Lack of connectivity can be described as the channelized portion of stream being isolated from downstream watercourses in which no surface connection or subsurface channel exists (joining the two at any time of the year). Evidence of no surface connection includes a lack of surface scour, no alluvial substrates and no evidence of surface ponding or seasonal flooding. Small streams with no connectivity to fish bearing waters were adequately sampled upstream of the loss of connectivity to verify fish presence or absence.

Reaches that have been assigned a non fish bearing status and are classified as Non Visible Channel (NVC) do not possess potential fish habitat and are not streams due to the fact that they do not possess the criteria necessary to classify them as such. Reaches classified as NVC are largely drainages that are mapped incorrectly and no stream channel exists where the map indicates. They may also be drainages that lack evidence of surface scour, contain no continuous definable channel bed, lack alluvial deposits, and exhibit no evidence of extensive ponding.

5.0 STREAM CLASSIFICATION SUMMARY

Table 7 Provides a summary of stream inventory information collected during the project and Riparian Management Area (RMA) classifications for each reach sampled.

Table 7. Stream sampling summary

Site	ILP/WSC	Reach	Map Number	Width (m)	Gradient (%)	Species	Stream Class	Comments
1	480-742900-49602	2	093L.070	1.08	1.25	NFC	S6	A 7 m falls in Reach 3 of 480-742900 prevents upstream fish migration to this stream.
2	480-742900-64310	1	093L.070	3.03	4.5	NFC	S5	A 7 m falls in Reach 3 of 480-742900 prevents upstream fish migration to this stream.
3	480-742900	8	093L.070	5.23	4	NFC	S5	A 7 m falls in Reach 3 prevents upstream fish migration to this reach.
4	742900-67600	1	093L.070	3.43	7.25	NFC	S5	742900 prevents upstream fish migration to this stream.
5	480-742900-55944	1	093L.070	1.43	4.5	NFC	S6	A 7 m falls in Reach 3 of 480-742900 prevents upstream fish migration to this stream.
6	480-742900	6	093L.070	8.12	3	NFC	S5	A 7 m falls in Reach 3 prevents upstream fish migration to this reach.
7	480-742900-	1	093L.070	na	na	na	NVC	No visible channel.
8	480-742900-47797	1	093L.070	1.35	6.75	NFC	S6	A 7 m falls in Reach 3 of 480-742900 prevents upstream fish migration to this stream.
9	480-742900	3	093L.080	10.35	3.5	NFC	S5	A 7 m falls in prevents upstream fish migration to this reach.
10	480-729600	3	093L.080	na	na	na	NVC	No visible channel. No potential fish habitat. A fully vegetated wetland with no pockets of standing water. Downstream of the wetland is a vegetated seepage for 300 m.
11	480-729600	1	093L.080	1.02	12.5	NFC	S4/S6	Fish bearing by default. Potential fish access downstream of 6 m cascade. Non fish bearing upstream of the cascade.
12	480-723719	1	093L.080	2.20	2.5	CO, RB	S3	Moderate spawning and rearing habitat. No overwintering habitat observed.
13	480-742900	1	093L.080	12.00	1.375	SK	S2	High quality spawning habitat. Moderate rearing habitat. Overwintering habitat present.
14	480-723719	1	093L.080	1.85	3.75	CO, RB	S3/S6	Moderate rearing habitat, poor spawning habitat and poor overwintering habitat. Non fish bearing upstream of 1.7 m falls.
15	480-705800-	1	093L.080	na	na	na	NVC	No visible channel.
16	480-705800-	2	093L.080	na	na	na	NVC	No visible channel.
35	480-776600	1	093K.061	8.72	2.5	CO, RB, SK	S2/S5	Moderate spawning and rearing habitat. Overwintering habitat present. Non fish bearing upstream of 4 m falls.
36	480-	1	093K.061	na	na	NFC	na	Fish sampling site only.
37	480-770700	1	093K.061	3.88	2.75	CO, RB	S3/S6	Moderate spawning and rearing habitat. Overwintering habitat present. Non fish bearing upstream of 7 m falls.
38	480-770700	9	093L.070	2.62	4.75	NFC	S6	A 7 m falls in Reach 1 prevents upstream fish migration to this reach.
39	480-770700-73000	1	093L.070	1.37	7.5	NFC	S6	A 7 m falls in Reach 1 of 480-770700 prevents upstream fish migration to this stream.

Table 7. Stream sampling summary

Site	ILP/WSC	Reach	Map Number	Width (m)	Gradient (%)	Species	Stream Class	Comments
40	480-768300	2	093K.061	2.32	14.5	RB	S3/S6	Poor spawning and rearing habitat. No overwintering habitat. Non fish bearing upstream of 1.8 m falls.
41	480-	2	093K.061	na	na	NFC	na	Fish sampling site only.
42	480-	1	093K.061	na	na	NFC	na	Fish sampling site only.
43	480-768300	6	093L.070	1.67	0.875	NFC	S6	A 1.8 m falls in Reach 2 prevents upstream fish migration to this reach.
44	480-760400-	3	093L.080	1.45	1.5	RB	S4	Poor rearing and spawning habitat. No overwintering
45	480-760400	6	093L.070	1.73	7	NFC	S6	A 3.5 m falls in Reach 3 prevents upstream fish migration.
46	480-760400	5	093L.070	2.87	3.75	NFC	S6	A 3.5 m falls in Reach 3 prevents upstream fish migration.
47	480-760400	3	093L.080	2.87	3.5	RB	S3/S6	Moderate spawning and rearing habitat. Overwintering habitat present. Non fish bearing upstream of 3.5 m falls.
48	480-	3	093L.070	na	na	NFC	na	Fish sampling site only.
49	480-735600	5	093L.080	0.97	1.25	NFC	S4*	Poor rearing habitat. No spawning habitat. No overwintering habitat. No barriers to upstream fish migration were identified. Suggest resampling downstream.
50	480-735600-	3	093L.080	na	na	na	NVC	No visible channel.
51	480-718600-	8	093L.080	1.22	2.75	RB	S4	Poor rearing and spawning habitat. No overwintering
52	480-718600-76300-95399-	2	093L.070	1.13	4.25	NFC	S4*	Poor rearing and spawning habitat. No overwintering habitat. No barriers to upstream fish migration were identified.
53	480-718600-90300-98627-	1	093L.069	1.47	1.5	NS	S4*	Poor rearing and spawning habitat. No overwintering habitat. Downstream wetlands may restrict upstream fish migration.
54	480-705800-57200	5	093L.070	1.27	3.5	RB/LKC	S4	Poor rearing and spawning habitat. No overwintering habitat. No RB were captured upstream of a 3 m cascade
55	480-705800-	5	093L.070	na	na	RB	na	Fish sampling site only.
56	480-705800-57200-68352-	2	093L.070	1.45	5	NFC	S4*	Poor rearing and spawning habitat. No overwintering habitat. No barriers to upstream fish migration were identified.
57	480-705800-57200-	1	093L.070	1.40	6.5	RB	S4	Poor rearing and spawning habitat. No overwintering habitat.
58	480-705800-	7	093L.070	na	na	NFC	na	Fish sampling site only.
59	480-705800-57200-81339	1	093L.070	0.95	1.125	NFC	S4*	Poor rearing habitat. No spawning habitat. No overwintering habitat. A potential barrier was identified at Site 54. Suggest resampling.
60	480-705800-57200-58676	1	093L.070	1.45	6.25	NFC	S4*	Poor rearing and spawning habitat. No overwintering habitat. A steep gradient (15%) section at confluence may restrict upstream fish migration.
61	480-	35	093L.069	na	na	na	NVC	No visible channel.

Table 7. Stream sampling summary

Site	ILP/WSC	Reach	Map Number	Width (m)	Gradient (%)	Species	Stream Class	Comments
62	480-705800	32	093L.069	1.82	0.625	NFC	S3*	Moderate rearing habitat. Poor spawning habitat. Overwintering habitat present. Beaver complex downstream may prevent upstream fish migration.
75	480-705800	29	093L.069	2.08	5	RB	S3	Moderate rearing habitat. Poor spawning habitat. No overwintering habitat observed.
313	480-	2	093L.080	na	na	SK	na	Fish sampling site only.
314	480-	1	093L.080	na	na	NFC	na	Fish sampling site only.
331	480-	31	093L.069	na	na	NFC	na	Fish sampling site only.
332	480-	33	093L.069	na	na	LKC	na	Fish sampling site only.
333	480-	6	093L.070	na	na	NFC	na	Fish sampling site only.
351	480-705800-57200-20805	1	093L.069	0.77	2	NFC	S4*	Moderate rearing potential. Low spawning and overwintering potential. No barriers to upstream fish migration were
352	480-705800-57200-	1	093L.069	na	na	na	NVC	No visible channel.
353	480-705800-	1	093L.069	na	na	na	NVC	No visible channel.
355	480-705800	24	093L.069	4.03	4	RB	S3	High spawning and rearing potential. Moderate overwintering potential.
356	480-705800	25	093L.069	3.86	1.75	NFC	S3	High overwintering and rearing potential. Low spawning potential. Fish were captured upstream of this reach.
357	480-705800-	1	093L.069	na	na	na	NVC	No visible channel.
358	480-705800-	1	093L.079	na	na	na	NVC	No visible channel.
359	480-705800-	2	093L.079	na	na	na	NVC	No visible channel.
360	480-705800-	1	093L.079	na	na	na	NVC	No visible channel.
361	480-705800-35727-13169	1	093L.079	0.78	5	NS	S4*	Moderate rearing potential. No spawning or overwintering potential. Stream was dry at the time of sampling.
362	480-705800	12	093L.079	5.78	1.5	RB	S2	High rearing and overwintering potential. Moderate spawning potential.
363	480-705800-06200	2	093L.080	0.93	1.5	CT	S4	Moderate rearing potential. Low spawning and overwintering potential.
364	480-705800-06200	1	093L.080	0.74	1.75	NS	S4*	Moderate rearing potential. Low spawning potential. No overwintering habitat. Fish were captured upstream of this reach.
365	480-705800	4	093L.080	5.00	2.5	RB, CT	S2	High spawning and overwintering potential. Moderate spawning potential.
366	480-704490	3	093L.080	1.30	4.25	NS	S4*	Moderate spawning potential. Low rearing and overwintering potential. No barriers to upstream fish migration were
367	480-718600-18048	1	093L.080	0.66	3	NFC	S4	Moderate rearing potential. Low spawning and overwintering potential. No barriers to upstream fish migration were
368	480-	1	093L.080	na	na	na	NVC	No visible channel.
369	480-	1	093L.080	na	na	na	NVC	No visible channel.
370	480-	1	093L.080	na	na	na	NVC	No visible channel.

Table 7. Stream sampling summary

Site	ILP/WSC	Reach	Map Number	Width (m)	Gradient (%)	Species	Stream Class	Comments
371	480-718600-59500	2	093L.080	3.70	1.75	RB	S3	High overwintering potential. Moderate rearing potential. Low spawning potential.
501	480-742900-	3	093L.080	na	na	na	NVC	No visible channel. Wetland
502	480-742900-26000-	1	093L.080	na	na	na	NVC	No visible channel.
503	480-742900-26000-	1	093L.080	0.94	15.75	NFC	S6	A 7 m falls in Reach 3 of 480-742900 prevents upstream fish migration to this stream.
504	480-742900-	4	093L.080	na	na	NFC	na	Fish sampling site only.
505	480-742900-26000	3	093L.080	2.72	7.5	NFC	S6	A 7 m falls in Reach 3 of 480-742900 prevents upstream fish migration to this stream.
506	480-742900-26000-	1	093L.080	2.13	6.75	NFC	S6	A 7 m falls in Reach 3 of 480-742900 prevents upstream fish migration to this stream.
507	480-742900-	2	093L.080	na	na	NFC	na	Fish sampling site only.
508	480-	4	093L.080	na	na	NFC	na	Fish sampling site only.
509	480-742900	3	093L.080	7.83	3.75	NFC	S6	A 7 m falls prevents upstream fish migration.
510	480-729600	8	093L.080	1.97	3.25	NFC	S6	A 6 m (length 2 m) cascade in Reach 1 prevents upstream fish migration.
511	480-729600-73466-	1	093L.080	na	na	NFC	na	Fish sampling site only.
512	480-729600-	2	093L.080	na	na	NFC	na	Fish sampling site only.
513	480-705800-	1	093L.069	2.72	6.75	RB	S3	Moderate spawning, rearing, and overwintering potential.
514	480-705800-70123-61560	1	093L.069	2.28	3	NFC	S3*	Moderate rearing and overwintering potential. Low spawning potential. No barriers to upstream fish migration were identified.
515	480-	7	093L.080	na	na	NFC	na	Fish sampling site only.
516	480-718600	2	093L.080	1.20	5.25	CT	S4	Moderate rearing and spawning potential. Poor overwintering potential.
517	480-718600-21400	1	093L.080	1.73	6	CT	S3	Moderate rearing and spawning potential. Low overwintering potential.
518	480-718600-21906	1	093L.080	0.89	7	NFC	S4*	Low rearing potential. No overwintering or spawning potential. Beaver dam downstream may prevent upstream fish migration.
519	480-718600-21906-21838	1	093L.080	0.60	2.5	NFC	S4*	Limited rearing potential. No overwintering or spawning potential. Beaver dams and organic obstructions downstream may prevent upstream fish migration.
520	480-	3	093L.080	na	na	CT	na	Fish sampling site only.
527	480-776600-25000	1	093K.061	2.65	2.75	NFC	S6	A 4 m falls in Reach 1 of 480-776600 prevents upstream fish migration.
528	480-	2	093K.061	na	na	NFC	na	Fish sampling site only.
529	480-	3	093K.061	na	na	NFC	na	Fish sampling site only.

Table 7. Stream sampling summary

Site	ILP/WSC	Reach	Map Number	Width (m)	Gradient (%)	Species	Stream Class	Comments
530	480-776600-44246-	1	093L.070	3.37	2.75	NFC	S5	A 4 m falls in Reach 1 of 480-776600 prevents upstream fish migration.
531	480-776600	8	093L.070	3.10	2	NFC	S5	A 4 m falls in Reach 1 prevents upstream fish migration.
532	480-770700	8	093L.070	2.75	5.5	NFC	S6	A 7 m falls prevents upstream fish migration.
533	480-768300	3	093K.061	2.57	2.5	NFC	S6	A 1.8 m falls in Reach 2 prevents upstream fish migration.
534	480-	2	093K.061	na	na	NFC	na	Fish sampling site only.
535	480-764900	1	093K.061	1.55	4	CO	S3	Low rearing and spawning potential. No overwintering potential.
536	480-760400-36400	2	093L.070	1.92	6.5	NFC	S3*	Moderate spawning and rearing potential. Low overwintering potential. No barriers to upstream fish migration were
537	480-760400-	1	093L.070	na	na	CT	na	Fish sampling site only.
538	480-760400	2	093K.071	4.03	3.5	CT	S3	Moderate spawning and rearing potential. Low overwintering potential.
539	480-	1	093K.071	na	na	CT	na	Fish sampling site only.
540	480-755241	4	093L.080	0.68	2.75	NFC	S6	No overwintering habitat, low spawning and rearing potential. Discontinuous channel that is heavily vegetated.
541	480-	1	093L.080	na	na	CO	na	Fish sampling site only.
542	480-	1	093K.071	na	na	na	NVC	No visible channel.
543	480-735600	2	093L.080	1.92	6.75	NFC	S3*	Moderate rearing potential. Low overwintering and spawning potential. No barriers to upstream fish migration were
544	480-	1	093L.080	na	na	CO	na	Fish sampling site only.
545	480-	1	093L.080	na	na	na	NVC	No visible channel.
546	480-718600-	8	093L.080	na	na	RB	na	Fish sampling site only.
547	10071	1	093L.080	na	na	NFC	na	Fish sampling site only.
548	480-718600-76300	6	093L.069	2.18	2.5	NFC	S3*	Moderate rearing potential. Low spawning and overwintering potential. Upstream fish migration may be blocked by braided sections and heavily vegetated areas.
549	480-705800-	2	093L.070	na	na	NFC	na	Fish sampling site only.
550	480-705800-	1	093L.070	na	na	NFC	na	Fish sampling site only.
791	480-705800-06200	4	093L.080	0.97	2.25	NS	S4*	Low spawning and rearing potential. No overwintering potential. No barriers to upstream fish migration were
792	480-705800-06200	5	093L.080	1.03	4	NFC	S4*	Low spawning and rearing potential. No overwintering potential. No barriers to upstream fish migration were
793	480-705800-06500-	1	093L.080	na	na	na	NVC	No visible channel.
794	480-705800-57200-31118	2	093L.069	0.60	13.5	NFC	S4*	Low spawning, rearing, and overwintering potential. Dewatered sections may restrict fish access.
870	480-729600-	5	093L.080	na	na	NFC	na	Fish sampling site only.

Table 7. Stream sampling summary

Site	ILP/WSC	Reach	Map Number	Width (m)	Gradient (%)	Species	Stream Class	Comments
871	480-718600-	2	093L.080	na	na	LKC	na	Fish sampling site only.
872	480-	6	093L.080	na	na	NFC	na	Fish sampling site only.
872	480-	6	093L.080	na	na	NFC	na	Fish sampling site only.
873	480-729600-	9	093L.080	na	na	NFC	na	Fish sampling site only.
874	480-	11	093L.080	na	na	NFC	na	Fish sampling site only.
875	30004	2	093L.080	na	na	LKC,RB	na	Fish sampling site only.
953	480-742900-	2	093L.080	na	na	NFC	na	Fish sampling site only.

RB= rainbow trout NFC= no fish caught
CO= coho NS= not sampled for fish
LKC= lake chub NVC= no visible channel
CT= cutthroat trout
SK= sockeye

6.0 REFERENCES

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APPENDIX I

Reach Cards/Site Cards/Fish Collection Forms and Photographs

APPENDIX II

Phase Completion Reports

APPENDIX III

Quality Assurance Forms and Correspondence

APPENDIX IV

Phase I-III Project Plan (with attachments)

APPENDIX V

Project/Interpretive Maps

FDIS Reach/Site Summary

South Fulton Study Area

Watershed Code: 480-742900-49602-00000-0000-0000-000-000-000-000-000

Reach # ILP Map # ILP #
2.0 093L.070 10239

STREAM REFERENCING									
Gazetted Name:					Local Name:				
Watershed Code: 480-742900-49602-00000-0000-0000-000-000-000-000-000					ILP Map #: 093L.070		ILP #: 10239		
REACH									
Reach #: 2.0		UTM (Zone/East/North): 9.685286.6064399				Sample Type: Biased			
Length (km): 1.03		Coupling: Coupled		Magnitude: 1		BGC Zone: ESSF			
Gradient (%): 7.2		Confinement: Frequently Confin		Order: 1		Open water: Absent			
US Elev (m): 1184		Islands: NONE		Riparian Vegetation: Coniferous					
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified									
SITE									
Site #: 1		Field UTM ..		Agency: C172		Crew: EL/JD		Date: 2001/07/31	
Site Length (m): 200		GIS UTM 9.685998.6064566		Agency Name: Triton Environmental Consultants (Terrace)					
CHANNEL									
No Vis.Ch.: ☐		Intermittent: ☐		Avg		Min		Max	
Dewatered: ☐		Tribes: ☐		Channel Width (m): 1.08		0.9		1.3	
Stage: Low ☒				Wetted Width (m): 0.62		0.5		0.800	
Med ☐				Bankfull Depth (m): 0.30		0.3		0.3	
High ☐									
Temp (C): 8		pH: 7.6		Conductivity: 40		Turbidity: Turbid ☐		Low ☐	
						Moderate ☐		Clear ☒	
MORPHOLOGY									
Bed Material: Dominant: Gravels		D95 (cm): 5.00		Bars: Non ☒		Side ☐		Diagonal ☐	
Subdominant: Fines		D (cm): 2.00						Mid-channel ☐	
Channel Pattern: Sinuous		Islands: None		DISTURBANCE INDICATORS		O1		B1 B2 B3 D1 D2 D3	
Coupling: Decoupled									
Confinement: Unconfined									
Morphology: RP Riffle Pool									
COVER									
Total Cover: Abundant		Type: SWD LWD B U DP OV IV							
LWD: Few		Amount: T T N T N D S							
LWD Dist: Evenly Distributed		Location: P/S/O: ☒		☒		☒		☒	
Right Bank: Shape: Overhang		Texture: Fines ☒		Gravel ☐		Cobble ☐		Boulder ☐	
Left Bank: Shape: Overhang		Texture: Fines ☒		Gravel ☐		Cobble ☐		Boulder ☐	
Right Bank: Rip.Veg: Deciduous		Stage: Pole-sapling stage		Instream Veg: None ☐		Algae ☐		Moss ☒	
Left Bank: Rip.Veg:		Stage: Pole-sapling stage						Vascular ☒	
FISH									
Site Number	Capture Method	Number of Events	Length fished (m)	Total Time	Voltage	Species	Total Fish	Minimum Length (mm)	Maximum Length (mm)
1	EF	1	200	172 sec	600	NFC	0		

FDIS Site Card

South Fulton Study Area

Watershed Code: 480-742900-49602-00000-0000-0000-000-000-000-000-000

Reach # 2.0 ILP Map # 093L.070 ILP # 10239 Site 1

PROJECT

Project Name: Smithers Landing Fish Inventory - 2000
Stream Name (gaz.): BABINE RIVER Project Code: 3496
Project Watershed Code: 480-000000-00000-00000-0000-000-000-000-000-000-000

WATERSHED

Gazetted Name: Watershed Code: 480-742900-49602-00000-0000-000-000-000-000-000-000
ILP Map#: 093L.070 ILP #: 10239 NID Map #: 093L.070 NID #: 10001 Reach #: 2.0 Site #: 1
Field UTM (Z.E.N): .. Method: Site Lg: 200 Method: HC Access: H
GIS UTM (Z.E.N): 9.685998.6064566 Ref. Name:
Date: 2001/07/31 Time: 08:40 Agency: C172 Crew: EL/JD Fish Crd?: ☒ Incomplete: ☐

CHANNEL

	Mtd	width	width	width	width	width	width	width	width	width	width	Avg		Gadient %		Mtd	Avg
Channel Width (m):	MS	1.10	1.00	1.20	1.00	1.30	0.90					1.08	Method I:	1.0	2.0	C	1.25
Wetted Width (m):	MS	0.60	0.50	0.70	0.80	0.60	0.50					0.62	Method II:	1.0	1.0	C	
Pool Depth (m):	MS	0.10	0.05	0.10	0.10	0.05	0.10					0.08					

Wb Depth: .3 .3 .3 Avg: 0.30 Method: MS Stage: L ☒ M ☐ H ☐ No Vis.Ch.: ☐ Intermittent: ☐ Dw: ☐ Trib.: ☐

COVER Total: A

Type:	SWD	LWD	B	U	DP	OV	IV
Amount:	T	T	N	T	N	D	S
Loc: P/S/O:	☒	☒	☐	☒	☐	☒	☒

CROWN CLOSURE

1 1-20%

INSTREAM VEG: N ☐ A ☐ M ☒ V ☒

LWD: F DIST: E

LB SHP: O

Texture: F ☒ G ☐ C ☐ B ☐ R ☐ A ☐

RIP: D

STG: PS

RB SHP: O

Texture: F ☒ G ☐ C ☐ B ☐ R ☐ A ☐

RIP: D

STG: PS

WATER

EMS: Temp: 8 Method: T4 Req #: Cond.: 40 Method: S3
pH: 7.6 Method: P2 Turb.: T ☐ M ☐ L ☐ C ☒ Method: GE
Flood Signs: None Method: GE

MORPHOLOGY

Bed Material: Dominant: G Subdom: F O1 B1 B2 B3 D1 D2 D3
D95: 5.00 D (cm): 2.00 Morph: RP DISTURBANCE INDICATORS
Pattern: SI C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
Islands: N
Coupling: DC
Confinement: UN
FSZ: ☐ Bars: N ☒ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR ☐

HABITAT QUALITY

Name	Comments
OverWinter Habitat	No overwintering habitat
Spawning Habitat	Poor spawning habitat-low flows, suitable gravel, shallow depths
Rearing Habitat	Poor rearing habitat-shallow, ephemeral stream, stagnant pools

PHOTOS

Photo	Foc Lg	Dir	Comments
R: 01 F: 01	STD	U	upstream photo of overstream vegetation
R: 01 F: 02	STD	D	downstream photo of pool habitat

FDIS Site Card

South Fulton Study Area

	Reach #	ILP Map #	ILP #	Site
Watershed Code: 480-742900-49602-00000-0000-0000-000-000-000-000-000	2.0	093L.070	10239	1

COMMENTS	
Section	Comments
CHANNEL	Falls are located downstream on mainstem. Non fish bearing upstream of the falls.
CHANNEL	S6 Stream

South Fulton Study Area

WATERBODY

Fish Permit #: 145085K Date: 2001/07/31 To: 2001/07/31 Agency: C172 Crew: EL/JD Resample:

Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO	Temp	Cond	Turbid	Comment	
1	093L.080	10001			GPU	EF	1	8	40	C	

Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment
1	EF	1	2001/07/31	08:40	2001/07/31	09:30	

Site#	MTD/NO		H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model
1	EF	1	1	O	172	200.0	1.0	600	60	6	SMITH ROOT	12B

Site#	MTD/NO		H/P	Species	Stage	Age	Total #	Lgth (Min/Max)		FishAct	Comment
1	EF	1	1	NFC			0				



Site #1, upstream photo of overstream vegetation.
Roll #1, Frame #01, Date: 2001/07/31



Site #1, downstream photo of pool habitat.
Roll #1, Frame #02, Date: 2001/07/31

FDIS Reach/Site Summary

South Fulton Study Area

Watershed Code: 480-742900-64310-00000-0000-0000-000-000-000-000-000

Reach # ILP Map # ILP #
1.0 093L.070 10244

STREAM REFERENCING									
Gazetted Name:					Local Name:				
Watershed Code: 480-742900-64310-00000-0000-0000-000-000-000-000-000					ILP Map #: 093L.070		ILP #: 10244		
REACH									
Reach #: 1.0		UTM(Zone/East/North): 9.684408.6063452				Sample Type: Biased			
Length (km): .81		Coupling: Partially Couple		Magnitude: 11		BGC Zone: ESSF			
Gradient (%): 6.9		Confinement: Confined		Order: 2		Open water: Absent			
US Elev (m): 1226		Islands: NONE		Riparian Vegetation: Coniferous					
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified									
SITE									
Site #: 2		Field UTM ..		Agency: C172		Crew: EL/JD		Date: 2001/07/31	
Site Length (m): 400		GIS UTM 9.684994.6063353		Agency Name: Triton Environmental Consultants (Terrace)					
CHANNEL									
No Vis.Ch.: ☐		Intermittent: ☐		Avg		Min		Max	
Dewatered: ☐		Tribes.: ☐		Channel Width (m): 3.03		2.6		3.400	
Stage: Low ☒				Wetted Width (m): 1.70		1.3		2	
Med ☐				Bankfull Depth (m): 0.47		0.4		0.5	
High ☐									
Temp (C): 8		pH: 7.6		Conductivity: 40		Turbidity: Turbid ☐		Low ☐	
						Moderate ☐		Clear ☒	
MORPHOLOGY									
Bed Material: Dominant: Cobble		D95 (cm): 65.00		Bars: Non ☒		Side ☐		Diagonal ☐	
Subdominant: Boulders		D (cm): 10.00				Mid-channel ☐		Span ☐	
Channel Pattern: Sinuous		Islands: None		DISTURBANCE		O1		B1	
Coupling: Coupled				INDICATORS		B2		B3	
Confinement: Confined						D1		D2	
Morphology: CP Cascade Pool						D3			
				C1		C2		C3	
				C4		C5		S1	
				S2		S3		S4	
				S5					
COVER									
Total Cover: Abundant		Type: SWD		LWD		B		U	
LWD: Few		Amount: T		S		D		T	
LWD Dist: Evenly Distributed		Location: P/S/O: ☒		☒		☒		☒	
		☒		☒		☒		☒	
Right Bank: Shape: Overhang		Texture: Fines ☒		Gravel ☐		Cobble ☐		Boulder ☐	
Left Bank: Shape: Overhang		Texture: Fines ☒		Gravel ☐		Cobble ☐		Boulder ☐	
Right Bank: Rip.Veg: Coniferous		Stage: Mature forest		Instream Veg: None ☐		Algae ☐		Moss ☐	
Left Bank: Rip.Veg:		Stage: Mature forest				Vascular ☒			
FISH									
Site Number	Capture Method	Number of Events	Length fished (m)	Total Time	Voltage	Species	Total Fish	Minimum Length (mm)	Maximum Length (mm)
2	EF	1	400	369 sec	600	NFC	0		

FDIS Site Card

South Fulton Study Area

Watershed Code: 480-742900-64310-00000-0000-0000-000-000-000-000

Reach # 1.0 ILP Map # 093L.070 ILP # 10244 Site 2

PROJECT

Project Name: Smithers Landing Fish Inventory - 2000
Stream Name (gaz.): BABINE RIVER Project Code: 3496
Project Watershed Code: 480-000000-00000-00000-0000-000-000-000-000-000

WATERSHED

Gazetted Name: Local Name: None
Watershed Code: 480-742900-64310-00000-0000-0000-000-000-000-000-000
ILP Map #: 093L.070 ILP #: 10244 NID Map #: 093L.070 NID #: 10002 Reach #: 1.0 Site #: 2
Field UTM (Z.E.N): .. Method: Site Lg: 400 Method: HC Access: H
GIS UTM (Z.E.N): 9.684994.6063353 Ref. Name:
Date: 2001/07/31 Time: 11:00 Agency: C172 Crew: EL/JD Fish Crd?: ☒ Incomplete: ☐

CHANNEL

	Mtd	width	width	width	width	width	width	width	width	width	width	Avg
Channel Width (m):	MS	3.10	3.40	3.00	2.70	2.60	3.40					3.03
Wetted Width (m):	MS	1.60	2.00	1.90	2.00	1.40	1.30					1.70
Pool Depth (m):	MS	0.20	0.30	0.20	0.30	0.20	0.30					0.25

	Gadient %	Mtd	Avg
Method I:	5.0 4.0	C	4.50
Method II:	6.0 3.0	C	

Wb Depth: .5 .5 .4 Avg: 0.47 Method: MS Stage: L ☒ M ☐ H ☐

No Vis.Ch.: ☐ Intermittent: ☐
Dw: ☐ Tribs.: ☐

COVER Total: A

Type:	SWD	LWD	B	U	DP	OV	IV
Amount:	T	S	D	T	T	T	T
Loc: P/S/O:	☒	☒	☒	☒	☒	☒	☒

CROWN CLOSURE
1 1-20%

INSTREAM VEG: N ☐ A ☐ M ☐ V ☒

LWD: F DIST: E

LB SHP: O

Texture: F ☒ G ☐ C ☐ B ☐ R ☐ A ☐

RIP: C

STG: MF

RB SHP: O

Texture: F ☒ G ☐ C ☐ B ☐ R ☐ A ☐

RIP: C

STG: MF

WATER

EMS: Req #: Cond.: 40 Method: S3
Temp: 8 Method: T4
pH: 7.6 Method: P2
Flood Signs: None Method: GE
Turb.: T ☐ M ☐ L ☐ C ☒ Method: GE

MORPHOLOGY

Bed Material: Dominant: C Subdom: B O1 B1 B2 B3 D1 D2 D3
D95: 65.0 D (cm): 10.00 Morph: CP
Pattern: SI DISTURBANCE INDICATORS C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
Islands: N
Coupling: CO
Confinement: CO
FSZ: ☐ Bars: N ☒ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR ☐

HABITAT QUALITY

Name	Comments
Overwinter Habitat	No overwintering habitat identified
Spawning Habitat	Moderate spawning habitat-pockets of suitable gravel throughout sample site
Rearing Habitat	Moderate rearing habitat-abundant cover, cascade pool habitat

PHOTOS

Photo	Foc Lg	Dir	Comments
R: 01 F: 03	STD	U	upstream photo of cascade pool habitat
R: 01 F: 04	STD	D	downstream photo of representative habitat

FDIS Site Card

South Fulton Study Area

Watershed Code: 480-742900-64310-00000-0000-0000-000-000-000-000-000

Reach #	ILP Map #	ILP #	Site
1.0	093L.070	10244	2

COMMENTS	
Section	Comments
CHANNEL	Falls located downstream on mainstem prevent upstream fish migration.
CHANNEL	S5 Stream

FDIS Fish Card

South Fulton Study Area

Watershed Code: 480-742900-64310-00000-0000-0000-000-000-000-000-000 Reach # 1.0 ILP Map # 093L.070 ILP # 10244

WATERBODY													
Gazetted Name:										Local: None			
Project Code: 480-000000-00000-00000-0000-000-000-000-000-0													
WS Code: 480-742900-64310-00000-0000-0000-000-000-000-000-000													
Waterbody ID:					ILP Map #: 093L.070			ILP #: 10244		Reach #: 1 -			
Project ID: 3496					Lake/Stream: S			Lake From Date:					
Fish Permit #: 145085K			Date: 2001/07/31			To: 2001/07/31			Agency: C172		Crew: EL/JD		Resample: ☐
SITE / METHOD													
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO	Temp	Cond	Turbid	Comment			
2	093L.070	10002				GPU EF 1	8	40	C				
A. GEAR SETTINGS													
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment						
2	EF	1	2001/07/31	11:00	2001/07/31	12:00							
C. ELECTROFISHER SPECIFICATIONS													
Site#	MTD/NO	H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model		
2	EF	1	1	O	369	400.0	2.2	600	60	6	SMITH ROOT	12B	
FISH SUMMARY													
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	FishAct	Comment				
2	EF	1	1	NFC		0							



Site #2, upstream photo of cascade pool habitat.
Roll #1, Frame #03, Date: 2001/07/31



Site #2, downstream photo of representative habitat.
Roll #1, Frame #04, Date: 2001/07/31

FDIS Site Card

South Fulton Study Area

Watershed Code: 480-742900-00000-00000-0000-0000-000-000-000-000-000

Reach # 8.0 ILP Map # ILP # Site 3

PROJECT																																																																														
Project Name: Smithers Landing Fish Inventory - 2000										Project Code: 3496																																																																				
Stream Name (gaz.): BABINE RIVER																																																																														
Project Watershed Code: 480-000000-00000-00000-0000-0000-000-000-000-000-000																																																																														
WATERSHED																																																																														
Gazetted Name:										Local Name: Sockeye Creek																																																																				
Watershed Code: 480-742900-00000-00000-0000-0000-000-000-000-000-000																																																																														
ILP Map#:		ILP #:		NID Map #: 093L.070			NID #: 10003		Reach #: 8.0		Site #: 3																																																																			
Field UTM (Z.E.N.): ..				Method:			Site Lg: 400		Method: HC		Access: H																																																																			
GIS UTM (Z.E.N.): 9.685306.6062554																																																																														
Date: 2001/07/31		Time: 12:15		Agency: C172		Crew: EL/JD		Fish Crd?: ☒		Incomplete: ☐																																																																				
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D95: 60.0 D (cm): 20.00					Morph: CP					<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td> </tr> </table>					☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐																																																			
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HABITAT QUALITY																																																																														
Name					Comments																																																																									
Overwinter Habitat					Overwintering habitat present.																																																																									
Spawning Habitat					Moderate spawning habitat-pockets of suitable gravel, adequate flow																																																																									
Rearing Habitat					Moderate rearing habitat-abundant cover and deep pools																																																																									
PHOTOS																																																																														
Photo		Foc Lg		Dir		Comments																																																																								
R:	01	F:	05	STD		U		upstream photo of cascade/pool habitat																																																																						
R:	01	F:	06	STD		D		downstream photo of crew member shocking habitat																																																																						

FDIS Site Card

South Fulton Study Area

Watershed Code: 480-742900-00000-00000-0000-0000-000-000-000-000-000

Reach #	ILP Map #	ILP #	Site
8.0			3

COMMENTS	
Section	Comments
CHANNEL	Falls located in Reach 2. No fish above falls.
CHANNEL	S5 Stream

FDIS Fish Card

South Fulton Study Area

Watershed Code: 480-742900-00000-00000-0000-000-000-000-000-000-000

Reach # 8.0
ILP Map #
ILP #

WATERBODY													
Gazetted Name:										Local: Sockeye Creek			
Project Code: 480-000000-00000-00000-0000-000-000-000-000-000-0													
WS Code: 480-742900-00000-00000-0000-000-000-000-000-000-000													
Waterbody ID:				ILP Map #:				ILP #:		Reach #: 8 -			
Project ID: 3496				Lake/Stream: S				Lake From Date:					
Fish Permit #: 145085K			Date: 2001/07/31			To: 2001/07/31			Agency: C172		Crew: EL/JD		Resample: ☐
SITE / METHOD													
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO	Temp	Cond	Turbid	Comment			
3	093L.070	10003				GPU EF 1	8	40	C				
A. GEAR SETTINGS													
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment						
3	EF	1	2001/07/31	12:15	2001/07/31	13:30							
C. ELECTROFISHER SPECIFICATIONS													
Site#	MTD/NO	H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model		
3	EF	1	1	O	416	400.0	3.0	600	60	6	SMITH	12B	
										ROOT			
FISH SUMMARY													
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	FishAct	Comment				
3	EF	1	1	NFC		0							



Site #3, upstream photo of cascade/pool habitat.
Roll #1, Frame #05, Date: 2001/07/31



Site #3, downstream photo of crew member shocking habitat.
Roll #1, Frame #06, Date: 2001/07/31

South Fulton Study Area

Watershed Code: 480-742900-67600-00000-0000-0000-000-000-000-000-000

Reach #	ILP Map #	ILP #
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1.0

STREAM REFERENCING									
Gazetted Name:					Local Name:				
Watershed Code: 480-742900-67600-00000-0000-0000-000-000-000-000-000-000					ILP Map #:		ILP #:		
REACH									
Reach #: 1.0	UTM(Zone/East/North): 9.684794.6062298				Sample Type: Random				
Length (km): .65	Coupling: Coupled		Magnitude: 7		BGC Zone: ESSF				
Gradient (%): 1.7	Confinement: Entrenched			Order: 3		Open water: Absent			
US Elev (m): 1258	Islands: NONE		Riparian Vegetation: Coniferous						
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified									
SITE									
Site #: 4		Field UTM ..		Agency: C172		Crew: ELJD		Date: 2001/07/31	
Site Length (m): 300		GIS UTM 9.684978.6062713		Agency Name: Trilon Environmental Consultants (Terrace)					
CHANNEL									
No Vis.Ch.: Intermittent: ☐				Avg	Min	Max	#		
Dewatered: Tribs.: ☐								Avg	Min
									Max
									#
Stage: Low ☒				Channel Width (m): 3.43		2.8		9	
Med ☐				Wetted Width (m): 1.87		1.4		6	
High ☐				Bankfull Depth (m): 0.53		0.5		6	
								Pool Depth (m): 0.30	
								0.26	
								0.35	
								6	
								Turbidity: Turbid ☐ Low ☐	
								Moderate ☐ Clear ☒	
		Temp (C): 8		pH: 7.9		Conductivity: 40			
MORPHOLOGY									
Bed Material: Dominant: Cobble		D95 (cm): 50.00		Bars: Non ☒		Side ☐		Diagonal ☐	
Subdominant: Boulders		D (cm): 20.00				Mid-channel ☐		Span ☐	
						Braid ☐			
Channel Pattern: Sinuous		Islands: None		DISTURBANCE INDICATORS		O1 B1 B2 B3 D1 D2 D3 ☐ ☐ ☐ ☐ ☐ ☐ ☐			
Coupling: Coupled						C1 C2 C3 C4 C5 S1 S2 S3 S4 S5			
Confinement: Confined						☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐			
Morphology: CP Cascade Pool						☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐			
COVER									
Total Cover: Abundant				Type: SWD LWD B U DP OV IV					
LWD: Few				Amount: T S D T T T N					
LWD Dist: Clumped				Location: P/S/O: ☒ ☒ ☒ ☒ ☒ ☒ ☒		FSZ: ☐			
Right Bank: Shape: Sloping (g)		Texture: Fines ☐		Gravel ☒ Cobble ☒ Boulder ☐ Rock ☐ Manmade ☐		Crown Closure			
Left Bank: Shape: Sloping (g)		Texture: Fines ☐		Gravel ☒ Cobble ☒ Boulder ☐ Rock ☐ Manmade ☐		1-20%			
Right Bank: Rip.Veg: Coniferous				Stage: Mature forest					
Left Bank: Rip.Veg:				Stage: Mature forest		Instream Veg: None ☒ Algae ☐ Moss ☐ Vascular ☐			
FISH									
Site Number	Capture Method	Number of Events	Length fished (m)	Total Time	Voltage	Species	Total Fish	Minimum Length (mm)	Maximum Length (mm)
4	EF	1	300	192 sec	600	NFC	0		

FDIS Site Card

South Fulton Study Area

Watershed Code: 480-742900-67600-00000-0000-000-000-000-000-000

Reach # 1.0 ILP Map # ILP # Site 4

PROJECT																																																																													
Project Name: Smithers Landing Fish Inventory - 2000																																																																													
Stream Name (gaz.): BABINE RIVER										Project Code: 3496																																																																			
Project Watershed Code: 480-000000-00000-00000-0000-000-000-000-000-000																																																																													
WATERSHED																																																																													
Gazetted Name:										Local Name: None																																																																			
Watershed Code: 480-742900-67600-00000-0000-000-000-000-000-000																																																																													
ILP Map#:		ILP #:		NID Map #: 093L.070		NID #: 10004		Reach #: 1.0		Site #: 4																																																																			
Field UTM (Z.E.N): ..				Method:		Site Lg: 300		Method: HC		Access: H																																																																			
GIS UTM (Z.E.N): 9.684978.6062713				Ref. Name:																																																																									
Date: 2001/07/31		Time: 13:30		Agency: C172		Crew: ELJD		Fish Crd?: ☒		Incomplete: ☐																																																																			
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Confinement: CO								☐		☐		☐		☐		☐		☐																																																											
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FDIS Site Card

South Fulton Study Area

Watershed Code: 480-742900-67600-00000-0000-0000-000-000-000-000-000	Reach #	ILP Map #	ILP #	Site
	1.0			4

COMMENTS	
Section	Comments
CHANNEL	Falls located on mainstem prevent fish access to this reach
CHANNEL	S5 Stream

FDIS Fish Card

South Fulton Study Area

Reach # ILP Map # ILP #

Watershed Code: 480-742900-67600-00000-00000-000-000-000-000-000

1.0

WATERBODY												
Gazetted Name:										Local: None		
Project Code: 480-000000-00000-00000-00000-000-000-000-000-0												
WS Code: 480-742900-67600-00000-00000-000-000-000-000-000												
Waterbody ID:					ILP Map #:			ILP #:		Reach #: 1 -		
Project ID: 3496					Lake/Stream: S			Lake From Date:				
Fish Permit #:		145085K		Date:		2001/07/31		To:		2001/07/31		Agency: C172
										Crew: EL/JD		Resample: ☐
SITE / METHOD												
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO		Temp	Cond	Turbid	Comment	
4	93L.070	10004				GPU	EF 1	8	40	C		
A. GEAR SETTINGS												
Site#	MTD/NO		H/P	Date In	Time In	Date Out	Time Out	Comment				
4	EF	1	1	2001/07/31	13:30	2001/07/31	14:00					
C. ELECTROFISHER SPECIFICATIONS												
Site#	MTD/NO		H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model
4	EF	1	1	O	192	300.0	2.0	600	60	6	SMITH ROOT	12B
FISH SUMMARY												
Site#	MTD/NO		H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	FishAct	Comment		
4	EF	1	1	NFC			0					



Site #4, upstream photo of cascade/pool habitat.
Roll #1, Frame #07, Date: 2001/07/31



Site #4, downstream photo of typical habitat.
Roll #1, Frame #08, Date: 2001/07/31

FDIS Reach/Site Summary

South Fulton Study Area

Watershed Code: 480-742900-55944-00000-00000-0000-000-000-000-000-000

Reach # 1.0 ILP Map # 093L.070 ILP # 10241

STREAM REFERENCING									
Gazetted Name:					Local Name:				
Watershed Code: 480-742900-55944-00000-00000-0000-000-000-000-000-000					ILP Map #: 093L.070		ILP #: 10241		
REACH									
Reach #: 1.0		UTM(Zone/East/North): 9.686499.6063668			Sample Type: Biased				
Length (km): .34		Coupling: Coupled		Magnitude: 3		BGC Zone: ESSF			
Gradient (%): 7.1		Confinement: Occasionally Conf			Order: 2		Open water: Absent		
US Elev (m): 1146		Islands: NONE		Riparian Vegetation: Coniferous					
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified									
SITE									
Site #: 5		Field UTM ..		Agency: C172		Crew: JD/EL		Date: 2001/07/31	
Site Length (m): 100		GIS UTM 9.686444.6063829		Agency Name: Triton Environmental Consultants (Terrace)					
CHANNEL									
No Vis.Ch.: ☐		Intermittent: ☐		Avg		Min		Max	
Dewatered: ☐		Tribes.: ☐		Channel Width (m): 1.43		1.3		1.600	
Stage: Low ☒				Wetted Width (m): 0.75		0.5		1	
Med ☐				Bankfull Depth (m): 0.43		0.4		0.5	
High ☐									
Temp (C): 8		pH: 7.9		Conductivity: 40		Turbidity: Turbid ☐		Low ☐	
						Moderate ☐		Clear ☒	
MORPHOLOGY									
Bed Material: Dominant: Gravels		D95 (cm): 35.00		Bars: Non ☒		Side ☐		Diagonal ☐	
Subdominant: Cobble		D (cm): 5.00						Mid-channel ☐	
Channel Pattern: Sinuous		Islands: None		DISTURBANCE		O1		B1	
Coupling: Partially Coupled				INDICATORS		B2		B3	
Confinement: Frequently Confined						D1		D2	
Morphology: CP Cascade Pool						D3			
				C1		C2		C3	
				C4		C5		S1	
				S2		S3		S4	
				S5					
COVER									
Total Cover: Abundant		Type: SWD		LWD		B		U	
LWD: Few		Amount: T		S		T		D	
LWD Dist: Clumped		Location: P/S/O: ☒		☒		☒		☒	
		☒		☒		☒		☒	
Right Bank: Shape: Overhang		Texture: Fines ☒		Gravel ☐		Cobble ☐		Boulder ☐	
Left Bank: Shape: Overhang		Texture: Fines ☒		Gravel ☐		Cobble ☐		Boulder ☐	
Right Bank: Rip.Veg: Coniferous		Stage: Mature forest		Instream Veg: None ☐		Algae ☐		Moss ☒	
Left Bank: Rip.Veg:		Stage: Mature forest		Vascular ☒					
FISH									
Site Number	Capture Method	Number of Events	Length fished (m)	Total Time	Voltage	Species	Total Fish	Minimum Length (mm)	Maximum Length (mm)
5	EF	1	100	106 sec	600	NFC	0		

FDIS Site Card

South Fulton Study Area

Watershed Code: 480-742900-55944-00000-00000-0000-000-000-000-000-000

Reach # 1.0 ILP Map # 093L.070 ILP # 10241 Site # 5

PROJECT

Project Name: Smithers Landing Fish Inventory - 2000
Stream Name (gaz.): BABINE RIVER Project Code: 3496
Project Watershed Code: 480-000000-00000-00000-0000-000-000-000-000-000-000

WATERSHED

Gazetted Name: Local Name: None
Watershed Code: 480-742900-55944-00000-00000-0000-000-000-000-000-000-000
ILP Map #: 093L.070 ILP #: 10241 NID Map #: 093L.070 NID #: 10005 Reach #: 1.0 Site #: 5
Field UTM (Z.E.N): .. Method: Site Lg: 100 Method: HC Access: H
GIS UTM (Z.E.N): 9.686444.6063829 Ref. Name:
Date: 2001/07/31 Time: 14:00 Agency: C172 Crew: JD/EL Fish Crd?: ☒ Incomplete: ☐

CHANNEL

	Mtd	width	width	width	width	width	width	width	width	width	width	Avg
Channel Width (m):	MS	1.50	1.60	1.30	1.40	1.50	1.30					1.43
Wetted Width (m):	MS	0.90	0.60	0.80	0.70	1.00	0.50					0.75
Pool Depth (m):	MS	0.10	0.15	0.20	0.16	0.15	0.15					0.15

	Gadient %	Mtd	Avg
Method I:	4.0	5.0	C
Method II:	5.0	4.0	C

Wb Depth: .5 .4 .4 Avg: 0.43 Method: MS Stage: L ☒ M ☐ H ☐

No Vis.Ch: ☐ Intermittent: ☐
Dw: ☐ Tribs.: ☐

COVER Total: A

Type:	SWD	LWD	B	U	DP	OV	IV
Amount:	T	S	T	D	T	T	T
Loc: P/S/O:	☒	☒	☒	☒	☒	☒	☒

CROWN CLOSURE
2 21-40%

INSTREAM VEG: N ☐ A ☐ M ☒ V ☒

LWD: F DIST: C

LB SHP: O

Texture: F ☒ G ☐ C ☐ B ☐ R ☐ A ☐

RIP: C

STG: MF

RB SHP: O

Texture: F ☒ G ☐ C ☐ B ☐ R ☐ A ☐

RIP: C

STG: MF

WATER

EMS: Req #: 40
Temp: 8 Method: T4 Cond.: 40 Method: S3
pH: 7.9 Method: P2
Flood Signs: None Method: GE
Turb.: T ☐ M ☐ L ☐ C ☒

MORPHOLOGY

Bed Material: Dominant: G Subdom: C O1 B1 B2 B3 D1 D2 D3
D95: 35.0 D (cm): 5.00 Morph: CP
Pattern: SI DISTURBANCE INDICATORS
Islands: N C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
Coupling: PC
Confinement: FC
FSZ: ☐ Bars: N ☒ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR ☐

HABITAT QUALITY

Name	Comments
Overwinter Habitat	No overwintering habitat observed
Spawning Habitat	Poor spawning habitat-substrates compacted, cascade/pool morphology
Rearing Habitat	Moderate rearing habitat-abundant pools, abundant cover, adequate flow

PHOTOS

Photo	Foc Lg	Dir	Comments
R: 01 F: 09	STD	U	upstream photo of representative habitat
R: 01 F: 10	STD	D	downstream photo of cascade/pool habitat

FDIS Site Card

South Fulton Study Area

Watershed Code: 480-742900-55944-00000-0000-0000-000-000-000-000-000

Reach #	ILP Map #	ILP #	Site
1.0	093L.070	10241	5

COMMENTS	
Section	Comments
CHANNEL	Falls located on downstream mainstem prevent fish access to this reach
CHANNEL	S6 Stream

South Fulton Study Area

ILP #
10241

Triton Environmental Consultants Ltd.



Site #5, upstream photo of representative habitat.
Roll #1, Frame #09, Date: 2001/07/31



Site #5, downstream photo of cascade/pool habitat.
Roll #1, Frame #10, Date: 2001/07/31

FDIS Reach/Site Summary

South Fulton Study Area

Watershed Code: 480-742900-00000-00000-0000-000-000-000-000-000

Reach # ILP Map # ILP #

6.0

STREAM REFERENCING									
Gazetted Name:					Local Name:				
Watershed Code: 480-742900-00000-00000-0000-000-000-000-000-000					ILP Map #:		ILP #:		
REACH									
Reach #: 6.0		UTM(Zone/East/North): 9.685990.6063680				Sample Type: Biased			
Length (km): 2.10		Coupling: Coupled		Magnitude: 6		BGC Zone: ESSF			
Gradient (%): 4.3		Confinement: Frequently Confin			Order: 4		Open water: Absent		
US Elev (m): 1149		Islands: NONE		Riparian Vegetation: Coniferous					
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified									
SITE									
Site #: 6		Field UTM ..		Agency: C172		Crew: EL/JD		Date: 2001/07/31	
Site Length (m): 600		GIS UTM 9.686598.6064803		Agency Name: Triton Environmental Consultants (Terrace)					
CHANNEL									
No Vis.Ch.: ☐		Intermittent: ☐		Avg		Min		Max	
Dewatered: ☐		Tribes: ☐		Channel Width (m): 8.12		6.300		9.5	
Stage: Low ☒				Wetted Width (m): 3.60		2.400		4.6	
Med ☐				Bankfull Depth (m): 0.67		0.5		0.8	
High ☐				pH: 7.8		Conductivity: 40		Turbidity: Turbid ☐ Low ☐	
								Moderate ☐ Clear ☒	
MORPHOLOGY									
Bed Material: Dominant: Gravels		D95 (cm): 60.00		Bars: Non ☒		Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐		Braid ☐	
Subdominant: Cobble		D (cm): 20.00							
Channel Pattern: Sinuous		Islands: None		DISTURBANCE INDICATORS					
Coupling: Coupled				O1 B1 B2 B3 D1 D2 D3					
Confinement: Confined				C1 C2 C3 C4 C5 S1 S2 S3 S4 S5					
Morphology: RP Riffle Pool									
COVER									
Total Cover: Abundant		Type: SWD		LWD		B		U	
LWD: Few		Amount: T		S		D		T	
LWD Dist: Clumped		Location: P/S/O: ☒		☒		☒		☒	
Right Bank: Shape: Sloping (g)		Texture: Fines ☐ Gravel ☒ Cobble ☒ Boulder ☐ Rock ☐ Manmade ☐		Crown Closure		1-20%			
Left Bank: Shape: Sloping (g)		Texture: Fines ☐ Gravel ☒ Cobble ☒ Boulder ☐ Rock ☐ Manmade ☐							
Right Bank: Rip.Veg: Coniferous		Stage: Mature forest		Instream Veg: None ☒ Algae ☐ Moss ☐ Vascular ☐					
Left Bank: Rip.Veg:		Stage: Mature forest							
FEATURES									
NID Map	NID	Type	Hgt	Method	Lg	Method	Photo	AirPhoto	UTM (Z/E/N)
093L.080	88002	F	10.0	GE			R: 1 F: 18 L: #:		9.686983.6065
Comments: Located in R5 Barrier to fish									
NID Map	NID	Type	Hgt	Method	Lg	Method	Photo	AirPhoto	UTM (Z/E/N)
093L.070	88001	F	15.0	GE	1	GE	R: 1 F: 11 L: #:		9.686518.6064
Comments: Barrier to fish									
FISH									
Site Number	Capture Method	Number of Events	Length fished (m)	Total Time	Voltage	Species	Total Fish	Minimum Length (mm)	Maximum Length (mm)
6	EF	1	600	526 sec	600	NFC	0		

FDIS Site Card

South Fulton Study Area

Watershed Code: 480-742900-00000-00000-0000-000-000-000-000-000-000

Reach # 6.0 ILP Map # 093L.080 ILP # 10043 Site 6

PROJECT

Project Name: Smithers Landing Fish Inventory - 2000
Stream Name (gaz.): BABINE RIVER
Project Watershed Code: 480-000000-00000-00000-0000-000-000-000-000-000-000

Project Code: 3496

WATERSHED

Gazetted Name: Local Name: Sockeye Creek
Watershed Code: 480-742900-00000-00000-0000-000-000-000-000-000-000
ILP Map#: 093L.080 ILP #: 10043 NID Map #: 093L.070 NID #: 10006 Reach #: 6.0 Site #: 6
Field UTM (Z.E.N): .. Method: Site Lg: 600 Method: HC Access: H
GIS UTM (Z.E.N): 9.686598.6064803 Ref. Name:
Date: 2001/07/31 Time: 14:40 Agency: C172 Crew: EL/JD Fish Crd?: ☒ Incomplete: ☐

CHANNEL

	Mtd	width	width	width	width	width	width	width	width	width	width	Avg		Gadient %	Mtd	Avg	
Channel Width (m):	MS	6.30	6.80	8.90	9.50	8.20	9.00					8.12	Method I:	3.0	2.0	C	3.00
Wetted Width (m):	MS	4.10	4.00	2.90	3.60	4.60	2.40					3.60	Method II:	4.0	3.0	C	
Pool Depth (m):	MS	0.65	0.70	0.60	0.50	0.41	0.35					0.53					

Wb Depth: .8 .7 .5 Avg: 0.67 Method: MS Stage: L ☒ M ☐ H ☐ Dw: ☐ Tribs.: ☐

COVER Total: A

Type:	SWD	LWD	B	U	DP	OV	IV
Amount:	T	S	D	T	S	T	N
Loc: P/S/O:	☒	☒	☒	☒	☒	☒	☐

LWD: F DIST: C

LB SHP: S

Texture: F ☐ G ☒ C ☒ B ☐ R ☐ A ☐

RIP: C

STG: MF

CROWN CLOSURE

1 1-20%

INSTREAM VEG: N ☒ A ☐ M ☐ V ☐

RB SHP: S

Texture: F ☐ G ☒ C ☒ B ☐ R ☐ A ☐

RIP: C

STG: MF

WATER

EMS: Temp: 8 Method: T4 Req #: Cond.: 40 Method: S3
pH: 7.8 Method: P2 Turb.: T ☐ M ☐ L ☐ C ☒ Method: GE
Flood Signs: None Method: GE

MORPHOLOGY

Bed Material: Dominant: G Subdom: C O1 B1 B2 B3 D1 D2 D3
D95: 60.0 D (cm): 20.00 Morph: RP DISTURBANCE INDICATORS
Pattern: SI C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
Islands: N
Coupling: CO
Confinement: CO
FSZ: ☐ Bars: N ☒ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR ☐

FEATURES

NID Map	NID	Type	Hgt	Method	Lg	Method	Photo	AirPhoto	UTM (Z/E/N)	Method
093L.080	88002	F	10.0	GE			R: 1 F: 18 L:	#:	9.686983.6065779	GIS
Comments: Located in R5 Barrier to fish										
NID Map	NID	Type	Hgt	Method	Lg	Method	Photo	AirPhoto	UTM (Z/E/N)	Method
093L.070	88001	F	15.0	GE	1	GE	R: 1 F: 11 L:	#:	9.686518.6064195	GIS
Comments: Barrier to fish										

HABITAT QUALITY

Name Comments

FDIS Site Card

South Fulton Study Area

Watershed Code: 480-742900-00000-00000-0000-000-000-000-000-000

Reach #	ILP Map #	ILP #	Site
6.0	093L.080	10043	6

HABITAT QUALITY				
Name				Comments
OverWinter Habitat				Overwintering habitat present
Spawning Habitat				Moderate spawning habitat-abundant gravel, adequate flows
Rearing Habitat				Moderate rearing habitat-abundant cover, adequate flows, deep pools
PHOTOS				
Photo				Comments
R:	01	F:	11	STD U upstream photo of a 15 m falls
R:	01	F:	12	STD U upstream photo of representative habitat
R:	01	F:	13	STD D downstream photo of riffle/pool habitat
R:	01	F:	18	STD U upstream photo of a 10 m falls (poor photo)
COMMENTS				
Section				Comments
CHANNEL				Falls located in Reach 2 prevent upstream fish migration
CHANNEL				S5 Stream

FDIS Fish Card

South Fulton Study Area

Watershed Code: 480-742900-00000-00000-0000-0000-000-000-000-000-000-000 Reach # 6.0 ILP Map # 093L.080 ILP # 10043

WATERBODY												
Gazetted Name:						Local: Sockeye Creek						
Project Code: 480-000000-00000-00000-0000-0000-000-000-000-000-0												
WS Code: 480-742900-00000-00000-0000-0000-000-000-000-000-000												
Waterbody ID:				ILP Map #: 093L.080				ILP #: 10043		Reach #: 6 -		
Project ID: 3496				Lake/Stream: S				Lake From Date:				
Fish Permit #: 145085K			Date: 2001/07/31		To: 2001/07/31		Agency: C172		Crew: EL/JD		Resample: ☐	
SITE / METHOD												
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO	Temp	Cond	Turbid	Comment		
6	093L.070	10006				GPU EF 1	8	40	C			
A. GEAR SETTINGS												
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment					
6	EF 1	1	2001/07/31	14:40	2001/07/31	15:29						
C. ELECTROFISHER SPECIFICATIONS												
Site#	MTD/NO	H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model	
6	EF 1	1	O	526	600.0	4.0	600	60	6	SMITH ROOT	12B	
FISH SUMMARY												
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	FishAct	Comment			
6	EF 1	1	NFC			0						



Site #6, upstream photo of a 15 m falls.
Roll #1, Frame #11, Date: 2001/07/31



Site #6, upstream photo of representative habitat.
Roll #1, Frame #12, Date: 2001/07/31



Site #6, downstream photo of riffle/pool habitat.
Roll #1, Frame #13, Date: 2001/07/31



Site #6, upstream photo of a 10 m falls (poor photo).
Roll #1, Frame #18, Date: 2001/07/31

FDIS Reach/Site Summary

South Fulton Study Area

Watershed Code: 480-742900-48854-00000-00000-00000-00000-00000-000

Reach # ILP Map # ILP #

1.0 093L.070 10238

STREAM REFERENCING									
Gazetted Name:					Local Name:				
Watershed Code: 480-742900-48854-00000-00000-00000-00000-00000-000					ILP Map #: 093L.070		ILP #: 10238		
REACH									
Reach #: 1.0		UTM (Zone/East/North): 9.685409.6065185				Sample Type: Biased			
Length (km): 1.02		Coupling: Coupled		Magnitude: 1		BGC Zone: ESSF			
Gradient (%): 5.6		Confinement: Occasionally Conf		Order: 1		Open water: Absent			
US Elev (m): 1111		Islands: NONE		Riparian Vegetation: Coniferous					
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified									
SITE									
Site #: 7		Field UTM ..		Agency: C172		Crew: EL/JD		Date: 2001/07/31	
Site Length (m): 200		GIS UTM 9.686256.6065031		Agency Name: Triton Environmental Consultants (Terrace)					
CHANNEL									
No Vis.Ch.: ☒ Intermittent: ☐									
Dewatered: ☐ Tribs.: ☐									
Stage: Low ☐									
Med ☐									
High ☐									
Temp (C):		pH:		Conductivity:		Turbidity: Turbid ☐ Low ☐			
						Moderate ☐ Clear ☐			
MORPHOLOGY									
Bed Material: Dominant:		D95 (cm):		Bars: Non ☐ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐					
Subdominant:		D (cm):				Braid ☐			
Channel Pattern:		Islands:		DISTURBANCE INDICATORS					
Coupling:				O1 B1 B2 B3 D1 D2 D3					
Confinement:				C1 C2 C3 C4 C5 S1 S2 S3 S4 S5					
Morphology:									
COVER									
Total Cover:		Type: SWD LWD B U DP OV IV							
LWD:		Amount:							
LWD Dist:		Location: P/S/O:							
Right Bank: Shape:		Texture: Fines ☐ Gravel ☐ Cobble ☐ Boulder ☐ Rock ☐ Manmade ☐		Crown Closure					
Left Bank: Shape:		Texture: Fines ☐ Gravel ☐ Cobble ☐ Boulder ☐ Rock ☐ Manmade ☐							
Right Bank: Rip.Veg:		Stage:		Instream Veg: None ☐ Algae ☐ Moss ☐ Vascular ☐					
Left Bank: Rip.Veg:		Stage:							

South Fulton Study Area

Reach #	ILP Map #	ILP #	Site
1.0	093L.070	10238	7

Triton Environmental Consultants Ltd.

FDIS Site Card

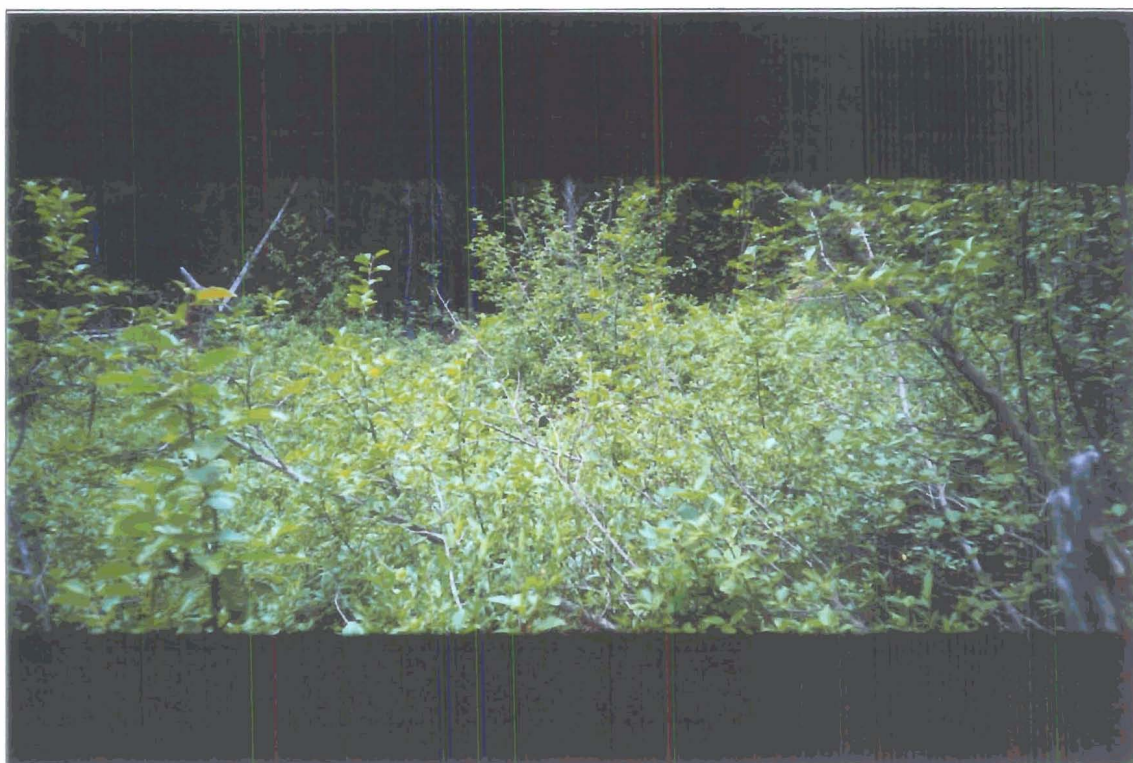
South Fulton Study Area

Watershed Code: 480-742900-48854-00000-0000-0000-000-000-000-000-000	Reach #	ILP Map #	ILP #	Site
	1.0	093L.070	10238	7

COMMENTS	
Section	Comments
CHANNEL	No Visible Channel



Site #7, downslope photo of a vegetated seepage.
Roll #1, Frame #14, Date: 2001/07/31



Site #7, upslope photo of a vegetated seepage.
Roll #1, Frame #15, Date: 2001/07/31

FDIS Reach/Site Summary

South Fulton Study Area

Watershed Code: 480-742900-47797-00000-0000-0000-000-000-000-000

Reach # 1.0 ILP Map # 093L.070 ILP # 10237

STREAM REFERENCING									
Gazetted Name:					Local Name:				
Watershed Code: 480-742900-47797-00000-0000-0000-000-000-000-000					ILP Map #: 093L.070		ILP #: 10237		
REACH									
Reach #: 1.0		UTM(Zone/East/North): 9.685406.6065529			Sample Type: Biased				
Length (km): 1.11		Coupling: Coupled		Magnitude: 1		BGC Zone: SBS			
Gradient (%): 4.6		Confinement: Occasionally Conf			Order: 1		Open water: Absent		
US Elev (m): 1100		Islands: NONE			Riparian Vegetation: Coniferous				
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified ☐									
SITE									
Site #: 8		Field UTM ..		Agency: C172		Crew: JD/EL		Date: 2001/07/31	
Site Length (m): 100		GIS UTM 9.686285.6065216		Agency Name: Triton Environmental Consultants (Terrace)					
CHANNEL									
No Vis.Ch.: ☐ Intermittent: ☐				Avg		Min		Max	
Dewatered: ☐ Tribes.: ☐									
Stage: Low ☒		Channel Width (m):		1.35		1.200		1.5	
Med ☐		Wetted Width (m):		0.63		0.400		1	
High ☐		Bankfull Depth (m):		0.43		0.4		0.5	
Temp (C): 8		pH: 7.6		Conductivity: 40		Turbidity: Turbid ☐		Low ☐	
						Moderate ☐		Clear ☒	
MORPHOLOGY									
Bed Material: Dominant: Cobble		D95 (cm): 25.00		Bars: Non ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐					
Subdominant: Gravels		D (cm): 8.00				Braid ☐			
Channel Pattern: Sinuous		Islands: None		DISTURBANCE INDICATORS		O1 B1 B2 B3 D1 D2 D3			
Coupling: Coupled									
Confinement: Confined						C1 C2 C3 C4 C5 S1 S2 S3 S4 S5			
Morphology: CP Cascade Pool									
COVER									
Total Cover: Abundant		Type: SWD LWD B U DP OV IV							
LWD: Few		Amount: T T T D N S T							
LWD Dist: Evenly Distributed		Location: P/S/O: ☒ ☒ ☒ ☒ ☐ ☒ ☒		FSZ: ☐					
Right Bank: Shape: Overhang		Texture: Fines ☒ Gravel ☐ Cobble ☐ Boulder ☐ Rock ☐ Manmade ☐		Crown Closure					
Left Bank: Shape: Overhang		Texture: Fines ☒ Gravel ☐ Cobble ☐ Boulder ☐ Rock ☐ Manmade ☐		21-40%					
Right Bank: Rip.Veg: Coniferous		Stage: Mature forest		Instream Veg: None ☐ Algae ☐ Moss ☒ Vascular ☒					
Left Bank: Rip.Veg:		Stage: Mature forest							
FISH									
Site Number	Capture Method	Number of Events	Length fished (m)	Total Time	Voltage	Species	Total Fish	Minimum Length (mm)	Maximum Length (mm)
8	EF	1	100	92 sec	800	NFC	0		

FDIS Site Card

South Fulton Study Area

Watershed Code: 480-742900-47797-00000-0000-0000-000-000-000-000-000

Reach # 1.0 ILP Map # 093L.070 ILP # 10237 Site # 8

PROJECT

Project Name: Smithers Landing Fish Inventory - 2000
Stream Name (gaz.): BABINE RIVER
Project Watershed Code: 480-000000-00000-00000-0000-000-000-000-000-000-000

Project Code: 3496

WATERSHED

Gazetted Name: Watershed Code: 480-742900-47797-00000-0000-000-000-000-000-000-000
ILP Map #: 093L.070 ILP #: 10237 NID Map #: 093L.070 NID #: 10008 Reach #: 1.0 Site #: 8
Field UTM (Z.E.N): .. Method: Site Lg: 100 Method: HC Access: H
GIS UTM (Z.E.N): 9.686285.6065216 Ref. Name:
Date: 2001/07/31 Time: 16:10 Agency: C172 Crew: JD/EL Fish Crd?: ☒ Incomplete: ☐

CHANNEL

	Mtd	width	width	width	width	width	width	width	width	width	width	Avg
Channel Width (m):	MS	1.20	1.40	1.50	1.30	1.20	1.50					1.35
Wetted Width (m):	MS	1.00	0.60	0.50	0.40	0.80	0.50					0.63
Pool Depth (m):	MS	0.10	0.10	0.05	0.10	0.05	0.10					0.08

	Gadient %	Mtd	Avg
Method I:	6.0 8.0	C	6.75
Method II:	7.0 6.0	C	

Wb Depth: .5 .4 .4 Avg: 0.43 Method: MS Stage: L ☒ M ☐ H ☐

No Vis.Ch.: ☐ Intermittent: ☐
Dw: ☐ Tribs.: ☐

COVER Total: A

Type:	SWD	LWD	B	U	DP	OV	IV
Amount:	T	T	T	D	N	S	T
Loc: P/S/O:	☒	☒	☒	☒	☐	☒	☒

CROWN CLOSURE
2 21-40%

INSTREAM VEG: N ☐ A ☐ M ☒ V ☒

LWD: F DIST: E

LB SHP: O

Texture: F ☒ G ☐ C ☐ B ☐ R ☐ A ☐

RIP: C

STG: MF

RB SHP: O

Texture: F ☒ G ☐ C ☐ B ☐ R ☐ A ☐

RIP: C

STG: MF

WATER

EMS:
Temp: 8
pH: 7.6
Flood Signs: None

Method: T4
Method: P2
Method: GE

Req #: Cond.: 40 Method: S3
Turb.: T ☐ M ☐ L ☐ C ☒ Method: GE

MORPHOLOGY

Bed Material: Dominant: C
D95: 25.0 D (cm): 8.00

Subdom: G
Morph: CP

Pattern: SI
Islands: N
Coupling: CO
Confinement: CO
FSZ: ☐

DISTURBANCE
INDICATORS

O1	B1	B2	B3	D1	D2	D3				
☐	☐	☐	☐	☐	☐	☐				
C1	C2	C3	C4	C5	S1	S2	S3	S4	S5	
☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	

Bars: N ☒ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR ☐

HABITAT QUALITY

Name	Comments
OverWinter Habitat	No overwintering habitat
Spawning Habitat	Poor spawning habitat-substrates too large for resident trout
Rearing Habitat	Poor rearing habitat-small shallow stream, subject to low flows

PHOTOS

Photo	Foc Lg	Dir	Comments
R: 01 F: 16	STD	U	upstream photo of representative habitat
R: 01 F: 17	STD	D	downstream photo of representative habitat

FDIS Site Card

South Fulton Study Area

	Reach #	ILP Map #	ILP #	Site
Watershed Code: 480-742900-47797-00000-0000-0000-000-000-000-000-000	1.0	093L.070	10237	8

COMMENTS	
Section	Comments
CHANNEL	Falls on downstream mainstem prevent upstream fish migration
CHANNEL	S6 Stream

South Fulton Study Area

Watershed Code: 480-742900-47797-00000-0000-0000-000-000-000-000-000-000

1.0	093L.070	10237
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WATERBODY													
Gazetted Name:										Local: None			
Project Code: 480-000000-00000-00000-0000-000-000-000-000-0													
WS Code: 480-742900-47797-00000-0000-0000-000-000-000-000-000													
Waterbody ID:				ILP Map #: 093L070				ILP #:		10237		Reach #: 1 -	
Project ID: 3496				Lake/Stream: S				Lake From Date:					
Fish Permit #: 145085K				Date: 2001/07/31		To: 2001/07/31		Agency: C172		Crew: JD/EL		Resample: ☐	
SITE / METHOD													
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO		Temp	Cond	Turbid	Comment		
8	093L070	10008				GPU	EF	1	8	40	C		
A. GEAR SETTINGS													
Site#	MTD/NO		H/P	Date In	Time In	Date Out	Time Out	Comment					
8	EF	1	1	2001/07/31	16:10	2001/07/31	16:25						
C. ELECTROFISHER SPECIFICATIONS													
Site#	MTD/NO		H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model	
8	EF	1	1	O	92	100.0	0.6	800	60	6	SMITH ROOT	12B	
FISH SUMMARY													
Site#	MTD/NO		H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	FishAct	Comment			
8	EF	1	1	NFC			0						



Site #8, upstream photo of representative habitat.
Roll #1, Frame #16, Date: 2001/07/31



Site #8, downstream photo of representative habitat.
Roll #1, Frame #17, Date: 2001/07/31

FDIS Reach/Site Summary

South Fulton Study Area

Watershed Code: 480-742900-00000-00000-0000-000-000-000-000-000

Reach # ILP Map # ILP #

3.0

STREAM REFERENCING												
Gazetted Name:						Local Name:						
Watershed Code: 480-742900-00000-00000-0000-000-000-000-000-000						ILP Map #:			ILP #:			
REACH												
Reach #: 3.0		UTM(Zone/East/North): 9.688614.6067651				Sample Type: Random						
Length (km): 2.45		Coupling: Partially Couple		Magnitude: 72		BGC Zone: SBS						
Gradient (%): 2.9		Confinement: Confined		Order: 5		Open water: Absent						
US Elev (m): 893		Islands: NONE		Riparian Vegetation: Mixed C/D								
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified												
SITE												
Site #: 9		Field UTM ..		Agency: C172		Crew: EL/JD		Date: 2001/08/01				
Site Length (m): 400		GIS UTM 9.690286.6068424		Agency Name: Triton Environmental Consultants (Terrace)								
CHANNEL												
No Vis.Ch.: ☐		Intermittent: ☐										
Dewatered: ☐		Tribes.: ☐										
Stage: Low ☒												
Med ☐												
High ☐												
Temp (C): 8		pH: 7.8		Conductivity: 40		Turbidity: Turbid ☐		Low ☐		Clear ☒		
						Moderate ☐						
MORPHOLOGY												
Bed Material: Dominant: Cobble		D95 (cm): 65.00		Bars: Non ☒		Side ☐		Diagonal ☐		Mid-channel ☐ Span ☐		
Subdominant: Boulders		D (cm): 15.00								Braid ☐		
Channel Pattern: Sinuous		Islands: None		DISTURBANCE		O1 B1 B2 B3 D1 D2 D3						
Coupling: Coupled				INDICATORS								
Confinement: Confined				C1 C2 C3 C4 C5 S1 S2 S3 S4 S5								
Morphology: RP Riffle Pool												
COVER												
Total Cover: Abundant		Type: SWD LWD B U DP OV IV										
LWD: Abundant		Amount: T D S N S T N										
LWD Dist: Clumped		Location: P/S/O: ☒ ☒ ☒ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐										FSZ: ☐
Right Bank: Shape: Sloping (g)		Texture: Fines ☐ Gravel ☒ Cobble ☒ Boulder ☐ Rock ☐ Manmade ☐										Crown Closure
Left Bank: Shape: Sloping (g)		Texture: Fines ☐ Gravel ☒ Cobble ☒ Boulder ☐ Rock ☐ Manmade ☐										1-20%
Right Bank: Rip.Veg: Coniferous		Stage: Mature forest										
Left Bank: Rip.Veg:		Stage: Mature forest										
		Instream Veg: None ☒ Algae ☐ Moss ☐ Vascular ☐										
FEATURES												
NID Map	NID	Type	Hgt	Method	Lg	Method	Photo	AirPhoto		UTM (Z/E/N)		
093L.080	88003	F	7.0	GE	2	GE	R: 1 F: 22 L:	#:		9.690318.6068		
Comments:		Barrier to upstream fish migration										

3.0

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South Fulton Study Area

Reach #	ILP Map #	ILP #	Site
3.0	0931.080	10043	9

Triton Environmental Consultants Ltd.

FDIS Site Card

South Fulton Study Area

Watershed Code: 480-742900-00000-00000-0000-000-000-000-000-000-000	Reach #	ILP Map #	ILP #	Site
	3.0	093L.080	10043	9

PHOTOS						
Photo		Foc Lg		Dir	Comments	
R:	01	F:	20	STD	U	upstream photo of typical habitat
R:	01	F:	21	STD	D	downstream photo of representative habitat
R:	01	F:	22	STD	NS	photo of lower falls
COMMENTS						
Section		Comments				
CHANNEL		Falls prevent upstream fish migration				
CHANNEL		S5 Stream				

FDIS Fish Card

South Fulton Study Area

Reach # ILP Map # ILP #

Watershed Code: 480-742900-00000-00000-0000-0000-000-000-000-000-000

3.0

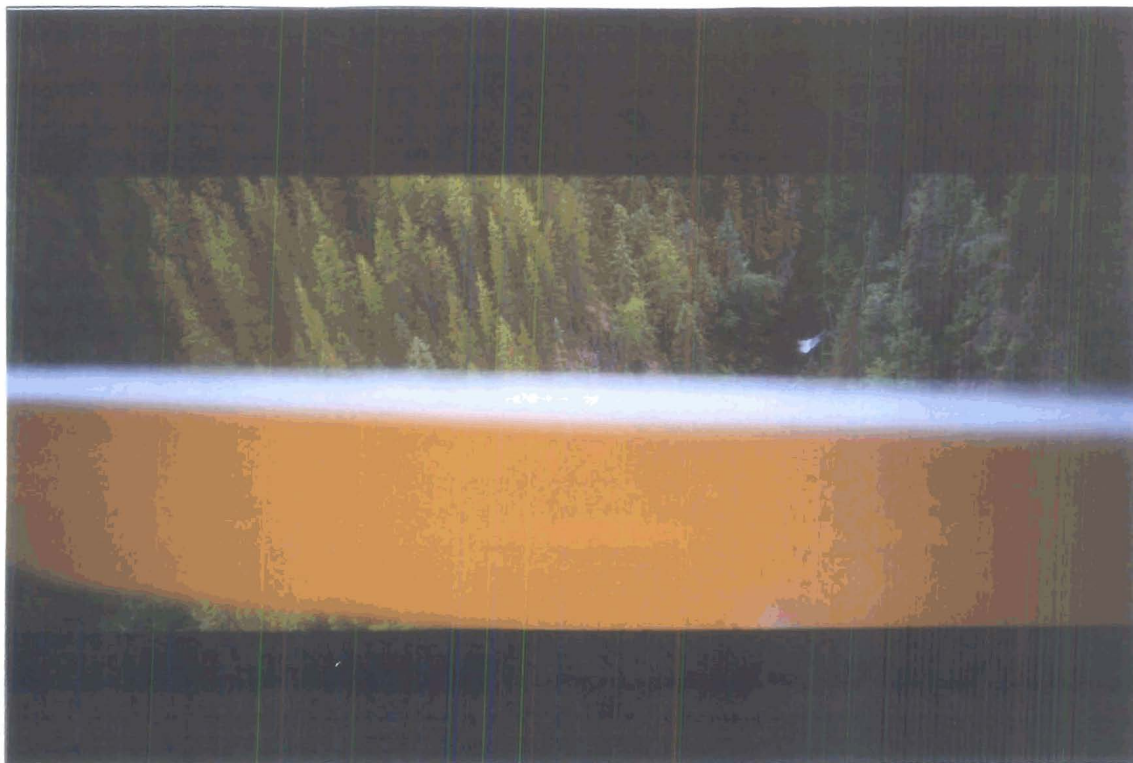
WATERBODY												
Gazetted Name:								Local: Sockeye Creek				
Project Code: 480-000000-00000-00000-0000-0000-000-000-000-000-0												
WS Code: 480-742900-00000-00000-0000-0000-000-000-000-000-000												
Waterbody ID:				ILP Map #:				ILP #:		Reach #: 3 -		
Project ID: 3496				Lake/Stream: S				Lake From Date:				
Fish Permit #:		145085K		Date: 2001/08/01		To: 2001/08/01		Agency: C172		Crew: JA/JH EL/J		Resample: ☐
SITE / METHOD												
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO	Temp	Cond	Turbid	Comment		
509	093L.080	50009				GPU EF 1	8	40	C			
9	093L.080	10009				GPU EF 1	8	40	C			
A. GEAR SETTINGS												
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment					
9	EF	1	2001/08/01	08:30	2001/08/01	09:45						
509	EF	1	2001/08/01	09:30	2001/08/01	11:50						
C. ELECTROFISHER SPECIFICATIONS												
Site#	MTD/NO	H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model	
9	EF	1	1	O	416	400.0	4.0	800	60	6	SMITH ROOT	12B
509	EF	1	1	O	500	700.0	8.0	700	1	5	SMITH ROOT	12B
FISH SUMMARY												
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	FishAct	Comment			
9	EF	1	NFC			0						
509	EF	1	NFC			0						



Site #9, upstream photo of typical habitat.
Roll #1, Frame #20, Date: 2001/08/01



Site #9, downstream photo of representative habitat.
Roll #1, Frame #21, Date: 2001/08/01



Site #9, photo of lower falls.
Roll #1, Frame #22, Date: 2001/08

FDIS Reach/Site Summary

South Fulton Study Area

Watershed Code: 480-729600-00000-00000-0000-000-000-000-000-000

Reach # 3.0 ILP Map # 093L.080 ILP # 10220

STREAM REFERENCING									
Gazetted Name: DEASY CREEK					Local Name:				
Watershed Code: 480-729600-00000-00000-0000-000-000-000-000-000					ILP Map #: 093L.080		ILP #: 10220		
REACH									
Reach #: 3.0		UTM(Zone/East/North): 9.686549.6070747				Sample Type: Random			
Length (km): 1.12		Coupling: Partially Couple		Magnitude: 17		BGC Zone: SBS			
Gradient (%): 2.1		Confinement: Occasionally Conf		Order: 3		Open water: Absent			
US Elev (m): 849		Islands: NONE		Riparian Vegetation: Mixed C/D					
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified									
SITE									
Site #: 10		Field UTM ..		Agency: C172		Crew: EL/JD		Date: 2001/08/01	
Site Length (m): 300		GIS UTM 9.687330.6070813		Agency Name: Triton Environmental Consultants (Terrace)					
CHANNEL									
No Vis.Ch.: ☒		Intermittent: ☐							
Dewatered: ☐		Tribes: ☐							
Stage: Low ☐									
Med ☐									
High ☐									
Temp (C):		pH:		Conductivity:		Turbidity: Turbid ☐ Low ☐			
						Moderate ☐ Clear ☐			
MORPHOLOGY									
Bed Material: Dominant:		D95 (cm):		Bars: Non ☐		Side ☐		Diagonal ☐	
Subdominant:		D (cm):				Mid-channel ☐		Span ☐	
Channel Pattern:		Islands:		DISTURBANCE		O1		B1	
Coupling:				INDICATORS		B2		B3	
Confinement:				C1		C2		C3	
Morphology:				C4		C5		S1	
				C6		S2		S3	
				C7		S4		S5	
				C8		S6		S7	
				C9		S8		S9	
				C10		S10		S11	
				C11		S12		S13	
				C12		S14		S15	
				C13		S16		S17	
				C14		S18		S19	
				C15		S20		S21	
				C16		S22		S23	
				C17		S24		S25	
				C18		S26		S27	
				C19		S28		S29	
				C20		S30		S31	
				C21		S32		S33	
				C22		S34		S35	
				C23		S36		S37	
				C24		S38		S39	
				C25		S40		S41	
				C26		S42		S43	
				C27		S44		S45	
				C28		S46		S47	
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FDIS Site Card

South Fulton Study Area

Watershed Code: 480-729600-00000-00000-0000-000-000-000-000-000-000

Reach # 3.0 ILP Map # 093L.080 ILP # 10220 Site 10

PROJECT																																																																	
Project Name: Smithers Landing Fish Inventory - 2000																																																																	
Stream Name (gaz.): BABINE RIVER										Project Code: 3496																																																							
Project Watershed Code: 480-000000-00000-00000-0000-000-000-000-000-000-000																																																																	
WATERSHED																																																																	
Gazetted Name: DEASY CREEK										Local Name: None																																																							
Watershed Code: 480-729600-00000-00000-0000-000-000-000-000-000-000																																																																	
ILP Map#: 093L.080				ILP #: 10220		NID Map #: 093L.080				NID #: 10010		Reach #: 3.0		Site #: 10																																																			
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GIS UTM (Z.E.N): 9.687330.6070813								Ref. Name:																																																									
Date: 2001/08/01				Time: 12:00		Agency: C172		Crew: EL/JD		Fish Crd?: ☐		Incomplete: ☐																																																					
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FDIS Site Card

South Fulton Study Area

	Reach #	ILP Map #	ILP #	Site
Watershed Code: 480-729600-00000-00000-0000-000-000-000-000-000-000	3.0	093L.080	10220	10

COMMENTS	
Section	Comments
CHANNEL	No visible channel



Site #10, upstream photo of a vegetated wetland.
Roll #1, Frame #23, Date: 2001/08/01

FDIS Reach/Site Summary

South Fulton Study Area

Watershed Code: 480-729600-00000-00000-0000-000-000-000-000-000-000

Reach # ILP Map # ILP #

1.0 093L.080 10220

STREAM REFERENCING									
Gazetted Name: DEASY CREEK					Local Name:				
Watershed Code: 480-729600-00000-00000-0000-000-000-000-000-000-000					ILP Map #: 093L.080		ILP #: 10220		
REACH									
Reach #: 1.0		UTM(Zone/East/North): 9.688798.6071187				Sample Type: Biased			
Length (km): .29		Coupling: Coupled		Magnitude: 17		BGC Zone: SBS			
Gradient (%): 17.2		Confinement: Confined		Order: 3		Open water: Absent			
US Elev (m): 772		Islands: NONE		Riparian Vegetation: Mixed C/D					
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified									
SITE									
Site #: 11		Field UTM ..		Agency: C172		Crew: EL/JD		Date: 2001/08/01	
Site Length (m): 200		GIS UTM 9.688846.6071199		Agency Name: Triton Environmental Consultants (Terrace)					
CHANNEL									
No Vis.Ch.: ☐		Intermittent: ☒							
Dewatered: ☐		Tribes.: ☐							
Stage: Low ☒									
Med ☐									
High ☐									
Temp (C): 8		pH: 7.8		Conductivity: 50		Turbidity: Turbid ☐		Low ☐	
						Moderate ☐		Clear ☒	
MORPHOLOGY									
Bed Material: Dominant: Cobble		D95 (cm): 50.00		Bars: Non ☒		Side ☐		Diagonal ☐	
Subdominant: Gravels		D (cm): 5.00				Mid-channel ☐		Span ☐	
Channel Pattern: Sinuous		Islands: None		DISTURBANCE		O1 B1 B2 B3 D1 D2 D3			
Coupling: Coupled				INDICATORS					
Confinement: Confined				C1 C2 C3 C4 C5 S1 S2 S3 S4 S5					
Morphology: CP Cascade Pool									
COVER									
Total Cover: Abundant		Type: SWD LWD B U DP OV IV							
LWD: Few		Amount: T D T N N S T							
LWD Dist: Evenly Distributed		Location: P/S/O: ☒ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐							
Right Bank: Shape: V - shape		Texture: Fines ☒ Gravel ☒ Cobble ☐ Boulder ☐ Rock ☐ Manmade ☐						Crown Closure	
Left Bank: Shape: V - shape		Texture: Fines ☒ Gravel ☒ Cobble ☐ Boulder ☐ Rock ☐ Manmade ☐						21-40%	
Right Bank: Rip.Veg: Mixed C/D		Stage: Mature forest							
Left Bank: Rip.Veg:		Stage: Mature forest		Instream Veg: None ☐ Algae ☐ Moss ☒ Vascular ☒					
FEATURES									
NID Map	NID	Type	Hgt	Method	Lg	Method	Photo	AirPhoto	UTM (Z/E/N)
093L.080	88004	C	6.0	GE	2	GE	R: 1 F: 24 L:	#:	9.688985.6071
Comments: Barrier to fish									
FISH									
Site Number	Capture Method	Number of Events	Length fished (m)	Total Time	Voltage	Species	Total Fish	Minimum Length (mm)	Maximum Length (mm)
11	EF	1	200	116 sec	700	NFC	0		

FDIS Site Card

South Fulton Study Area

Watershed Code: 480-729600-00000-00000-0000-000-000-000-000-000

Reach # 1.0 ILP Map # 093L.080 ILP # 10220 Site 11

PROJECT																																																																														
Project Name: Smithers Landing Fish Inventory - 2000										Project Code: 3496																																																																				
Stream Name (gaz.): BABINE RIVER																																																																														
Project Watershed Code: 480-000000-00000-00000-0000-000-000-000-000-000																																																																														
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Watershed Code: 480-729600-00000-00000-0000-000-000-000-000-000																																																																														
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Field UTM (Z.E.N): ..					Method:					Site Lg: 200		Method: HC		Access: H																																																																
GIS UTM (Z.E.N): 9.688846.6071199					Ref. Name:																																																																									
Date: 2001/08/01			Time: 13:10			Agency: C172			Crew: EL/JD		Fish Crd?: ☒		Incomplete: ☐																																																																	
CHANNEL																																																																														
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LB SHP: V				Texture: F ☒ G ☒ C ☐ B ☐ R ☐ A ☐				Texture: F ☒ G ☒ C ☐ B ☐ R ☐ A ☐																																																																						
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WATER																																																																														
EMS:					Method: T4					Req #:																																																																				
Temp: 8					Method: P2					Cond.: 50																																																																				
pH: 7.8					Method: GE					Turb.: T ☐ M ☐ L ☐ C ☒																																																																				
Flood Signs: None										Method: S3																																																																				
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Comments: Barrier to fish																																																																														
HABITAT QUALITY																																																																														
Name		Comments																																																																												
OverWinter Habitat		No overwintering habitat																																																																												
Spawning Habitat		No spawning habitat was observed-substrates angular and too large																																																																												
Rearing Habitat		Poor rearing habitat-vegetated channel, sections of intermittent channel																																																																												

FDIS Site Card

South Fulton Study Area

Watershed Code: 480-729600-00000-00000-0000-000-000-000-000-000-000

Reach #	ILP Map #	ILP #	Site
1.0	093L.080	10220	11

PHOTOS						
Photo		Foc Lg	Dir	Comments		
R:	01	F:	24	STD	U	upstream photo of a 6 m cascade
R:	01	F:	25	STD	D	downstream photo of representative habitat
COMMENTS						
Section		Comments				
CHANNEL		Inferred fish bearing downstream of the cascade. Non fish bearing upstream of the cascade				
CHANNEL		S4/S6 Stream				

South Fulton Study Area

ILP #
10220

WATERBODY												
Gazetted Name: DEASY CREEK						Local:						
Project Code: 480-000000-00000-00000-0000-000-000-000-000-0												
WS Code: 480-729600-00000-00000-0000-000-000-000-000-000-0												
Waterbody ID:			ILP Map #: 093L.080			ILP #:		10220		Reach #:		1 -
Project ID: 3496						Lake/Stream: S		Lake From Date:				
Fish Permit #:		145085K		Date: 2001/08/01		To: 2001/08/01		Agency: C172		Crew: EL/JD		Resample: ☐
SITE / METHOD												
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO	Temp	Cond	Turbid	Comment		
11	093L.080	10011			GPU	EF 1	8	50	C			
A. GEAR SETTINGS												
Site#	MTD/NO		H/P	Date In	Time In	Date Out	Time Out	Comment				
11	EF	1	1	2001/08/01	13:10	2001/08/01	13:40					
C. ELECTROFISHER SPECIFICATIONS												
Site#	MTD/NO		H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model
11	EF	1	1	O	116	200.0	0.5	700	60	6	SMITH ROOT	12B
FISH SUMMARY												
Site#	MTD/NO		H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	FishAct	Comment		
11	EF	1	1	NFC			0					



Site #11, upstream photo of a 6 m cascade.
Roll #1, Frame #24, Date: 2001/08/01



Site #11, downstream photo of representative habitat.
Roll #1, Frame #25, Date: 2001/08/01

FDIS Reach/Site Summary

South Fulton Study Area

Watershed Code: 480-723719-00000-00000-0000-000-000-000-000-000-000

Reach # 1.0 ILP Map # 093L.080 ILP # 10107

STREAM REFERENCING											
Gazetted Name:						Local Name:					
Watershed Code: 480-723719-00000-00000-0000-000-000-000-000-000						ILP Map #: 093L.080		ILP #: 10107			
REACH											
Reach #: 1.0		UTM(Zone/East/North): 9.687144.6071885				Sample Type: Biased					
Length (km): 1.15		Coupling: Coupled		Magnitude: 3		BGC Zone: SBS					
Gradient (%): 6.7		Confinement: Confined		Order: 2		Open water: Absent					
US Elev (m): 790		Islands: NONE		Riparian Vegetation: Mixed C/D							
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified											
SITE											
Site #: 12		Field UTM ..		Agency: C172		Crew: EL/JD		Date: 2001/08/01			
Site Length (m): 100		GIS UTM 9.687998.6072209		Agency Name: Triton Environmental Consultants (Terrace)							
CHANNEL											
No Vis.Ch.: ☐		Intermittent: ☐		Avg		Min		Max		#	
Dewatered: ☐		Tribes.: ☐		Channel Width (m): 2.20		1.8		2.6		6	
Stage: Low ☒				Wetted Width (m): 1.33		1.100		1.600		6	
Med ☐				Bankfull Depth (m): 0.47		0.4		0.5		3	
High ☐		Temp (C): 8		pH: 7.8		Conductivity: 50					
										Turbidity.: Turbid ☐ Low ☐	
										Moderate ☐ Clear ☒	
MORPHOLOGY											
Bed Material: Dominant: Gravels		D95 (cm): 40.00		Bars: Non ☒		Side ☐		Diagonal ☐		Mid-channel ☐ Span ☐	
Subdominant: Cobble		D (cm): 10.00								Braid ☐	
Channel Pattern: Sinuous		Islands: None		DISTURBANCE		O1		B1		B2 B3 D1 D2 D3	
Coupling: Partially Coupled				INDICATORS							
Confinement: Frequently Confined				C1 C2 C3 C4 C5 S1 S2 S3 S4 S5							
Morphology: RP Riffle Pool											
COVER											
Total Cover: Abundant		Type: SWD		LWD		B		U		DP OV IV	
LWD: Few		Amount: T		D		N		S		T S T	
LWD Dist: Evenly Distributed		Location: P/S/D: ☒		☒		☐		☒		☒	
Right Bank: Shape: Overhang		Texture: Fines ☒		Gravel ☐		Cobble ☐		Boulder ☐		Rock ☐ Manmade ☐ Crown Closure	
Left Bank: Shape: Overhang		Texture: Fines ☒		Gravel ☐		Cobble ☐		Boulder ☐		Rock ☐ Manmade ☐ 21-40%	
Right Bank: Rip.Veg: Coniferous		Stage: Mature forest								Instream Veg: None ☐ Algae ☐ Moss ☒ Vascular ☒	
Left Bank: Rip.Veg:		Stage: Mature forest									
FEATURES											
NID Map	NID	Type	Hgt	Method	Lg	Method	Photo		AirPhoto		UTM (Z/E/N)
093L.080	88005	CV	.9	GE	7	GE	R: 2	F: 3	L:	#:	9.688048.6072
Comments: Partial barrier to fish											

FDIS Reach/Site Summary

South Fulton Study Area

Watershed Code: 480-723719-00000-00000-0000-000-000-000-000-000

Reach # ILP Map # ILP #

1.0 093L.080 10107

SITE									
Site #: 14		Field UTM 9.687560.6072000		Agency: C172		Crew: EL/JD		Date: 2001/08/01	
Site Length (m): 600		GIS UTM 9.687720.6072128		Agency Name: Triton Environmental Consultants (Terrace)					
CHANNEL									
No Vis.Ch.: ☐	Intermittent: ☐			Avg	Min	Max	#		
Dewatered: ☐	Tribs.: ☐								
Stage: Low ☐		Channel Width (m):		1.85	1.600	2.1	6		
Med ☒		Wetted Width (m):		1.32	0.9	1.600	6		
High ☐		Bankfull Depth (m):		0.33	0.3	0.4	3		
				Avg		Min	Max	#	
				Gradient %:		3.75	3	5	4
				Pool Depth (m):		0.17	0.100	0.300	6
				Turbidity: Turbid ☐		Low ☐			
				Moderate ☐		Clear ☒			
Temp (C): 8				pH: 7.8		Conductivity: 50			
MORPHOLOGY									
Bed Material: Dominant: Boulders		D95 (cm): 132.00		Bars: Non ☒		Side ☐		Diagonal ☐	
Subdominant: Cobble		D (cm): 7.00				Mid-channel ☐		Span ☐	
Channel Pattern: Sinuous		Islands: None		DISTURBANCE		O1	B1	B2	B3
Coupling: Coupled				INDICATORS					
Confinement: Confined				C1	C2	C3	C4	C5	S1
Morphology: RP Riffle Pool				S2	S3	S4	S5		
COVER									
Total Cover: Abundant		Type: SWD		LWD	B	U	DP	OV	IV
LWD: Few		Amount: T		T	S	N	T	D	N
LWD Dist: Evenly Distributed		Location: P/S/O:		☒	☒	☒	☒	☒	☐
Right Bank: Shape: Sloping (g)		Texture: Fines ☐		Gravel ☒	Cobble ☒	Boulder ☐	Rock ☐	Manmade ☐	Crown Closure
Left Bank: Shape: Sloping (g)		Texture: Fines ☐		Gravel ☒	Cobble ☒	Boulder ☐	Rock ☐	Manmade ☐	41-70%
Right Bank: Rip.Veg: Mixed C/D		Stage: Mature forest							
Left Bank: Rip.Veg:		Stage: Mature forest				Instream Veg: None ☐		Algae ☐	Moss ☒
								Vascular ☐	
FEATURES									
NID Map	NID	Type	Hgt	Method	Lg	Method	Photo		AirPhoto
093L.080	88006	F	1.7	MS			R: 2	F: 08	L: #:
Comments: Vertical Falls-no plunge pool		UTM (Z/E/N) 9.687544.6071							
FISH									
Site Number	Capture Method	Number of Events	Length fished (m)	Total Time	Voltage	Species	Total Fish	Minimum Length (mm)	Maximum Length (mm)
12	EF	1	100	86 sec	600	RB	5	60	90
12	EF	1	100	86 sec	600	CO	12	50	71
14	EF	1	200	161 sec	600	RB	6	50	85
14	EF	1	200	161 sec	600	CO	4	45	60
314	EF	1	200	263 sec	600	NFC	0		

FDIS Site Card

South Fulton Study Area

Watershed Code: 480-723719-00000-00000-0000-000-000-000-000-000-000

Reach # 1.0 ILP Map # 093L.080 ILP # 10107 Site 12

PROJECT

Project Name: Smithers Landing Fish Inventory - 2000
Stream Name (gaz.): BABINE RIVER Project Code: 3496
Project Watershed Code: 480-000000-00000-00000-0000-000-000-000-000-000-000

WATERSHED

Gazetted Name: Local Name: None
Watershed Code: 480-723719-00000-00000-0000-000-000-000-000-000-000
ILP Map #: 093L.080 ILP #: 10107 NID Map #: 093L.080 NID #: 10012 Reach #: 1.0 Site #: 12
Field UTM (Z.E.N): .. Method: Site Lg: 100 Method: HC Access: H
GIS UTM (Z.E.N): 9.687998.6072209 Ref. Name:
Date: 2001/08/01 Time: 14:30 Agency: C172 Crew: EL/JD Fish Crd?: ☒ Incomplete: ☐

CHANNEL

	Mtd	width	width	width	width	width	width	width	width	width	width	Avg
Channel Width (m):	MS	2.20	2.40	2.60	1.90	1.80	2.30					2.20
Wetted Width (m):	MS	1.60	1.40	1.10	1.20	1.40	1.30					1.33
Pool Depth (m):	MS	0.20	0.15	0.30	0.10	0.15	0.20					0.18

	Gadient %		Mtd	Avg
Method I:	3.0	2.0	C	2.50
Method II:	2.0	3.0	C	

Wb Depth: .5 .5 .4 Avg: 0.47 Method: MS Stage: L ☒ M ☐ H ☐ No Vis.Ch.: ☐ Intermittent: ☐ Dw: ☐ Tribs.: ☐

COVER Total: A

Type:	SWD	LWD	B	U	DP	OV	IV
Amount:	T	D	N	S	T	S	T
Loc: P/S/O:	☒	☒	☐	☒	☒	☒	☒

CROWN CLOSURE

2 21-40%

INSTREAM VEG: N ☐ A ☐ M ☒ V ☒

LWD: F DIST: E

LB SHP: O

Texture: F ☒ G ☐ C ☐ B ☐ R ☐ A ☐

RIP: C

STG: MF

RB SHP: O

Texture: F ☒ G ☐ C ☐ B ☐ R ☐ A ☐

RIP: C

STG: MF

WATER

EMS: Temp: 8 Method: T4 Req #: Cond.: 50 Method: S3
pH: 7.8 Method: P2 Turb.: T ☐ M ☐ L ☐ C ☒ Method: GE
Flood Signs: None Method: GE

MORPHOLOGY

Bed Material: Dominant: G Subdom: C O1 B1 B2 B3 D1 D2 D3
D95: 40.0 D (cm): 10.00 Morph: RP DISTURBANCE INDICATORS C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
Pattern: SI Islands: N Coupling: PC Confinement: FC FSZ: ☐
Bars: N ☒ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR ☐

FEATURES

NID Map	NID	Type	Hgt	Method	Lg	Method	Photo	AirPhoto	UTM (Z/E/N)	Method
093L.080	88005	CV	.9	GE	7	GE	R: 2 F: 3 L:	#:	9.688048.6072203	GIS

Comments: Partial barrier to fish

HABITAT QUALITY

Name	Comments
OverWinter Habitat	No overwintering habitat observed
Spawning Habitat	Moderate spawning habitat-gravels suitable for spawning are present, adequate flows
Rearing Habitat	Moderate rearing habitat-abundant cover, high habitat complexity, limited by low flows

FDIS Site Card

South Fulton Study Area

Watershed Code: 480-723719-00000-00000-0000-000-000-000-000-000-000

Reach #	ILP Map #	ILP #	Site
1.0	093L.080	10107	12

PHOTOS						
Photo				Foc Lg	Dir	Comments
R:	02	F:	01	STD	U	upstream photo of riffle/pool habitat
R:	02	F:	02	STD	D	downstream photo of representative habitat
R:	02	F:	03	STD	U	upstream photo of a 900 mm culvert
COMMENTS						
Section				Comments		
CHANNEL				Co and Rb present		
CHANNEL				S3 Stream		

South Fulton Study Area

10107

Resample: ☐

[illegible]

FDIS Fish Card

South Fulton Study Area

Watershed Code:480-723719-00000-00000-0000-0000-000-000-000-000-000-000

Reach #1.0

ILP Map #093L.080

ILP #10107

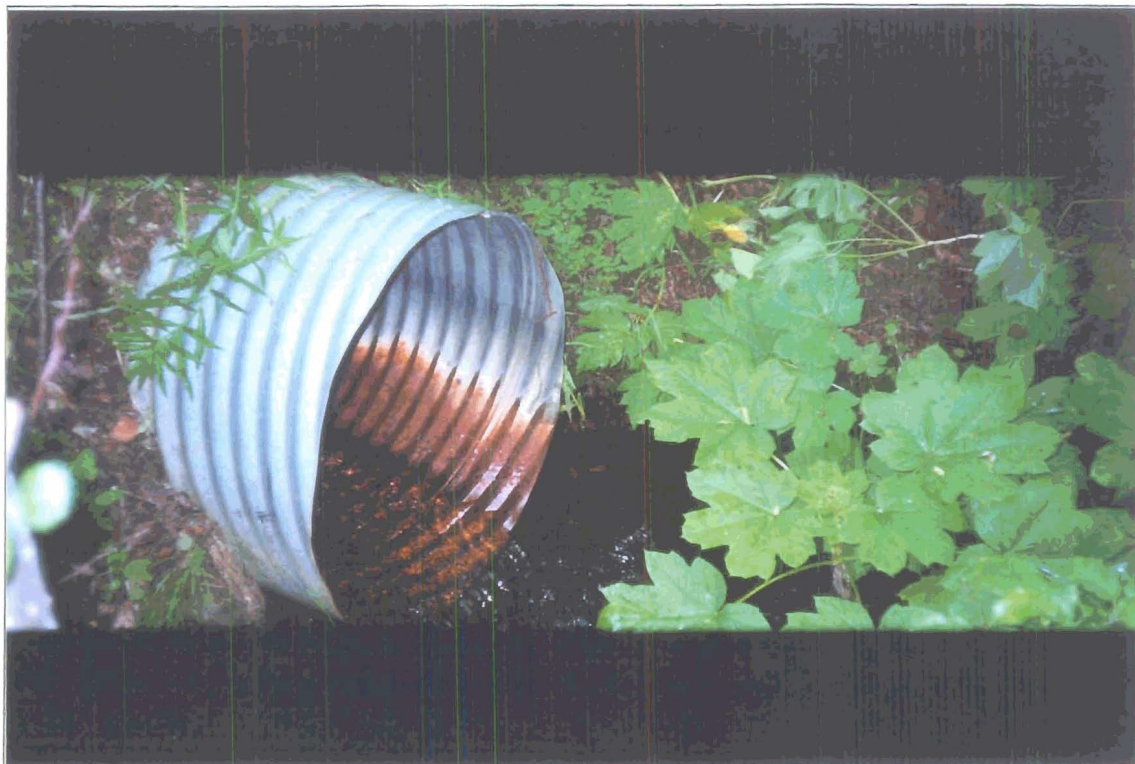
INDIVIDUAL FISH DATA																	
Site#	MTD/NO		H/P	Species	Length	Weight	Sex	Mat	Age			Vch#	Genetic		Roll #	Frame#	Comment
									Str/Smpl#/Age				Str/Smpl#				
14	EF	2	1	RB	60		U	U									
14	EF	2	1	RB	85		U	U									
14	EF	2	1	RB	70		U	U									
14	EF	2	1	RB	50		U	U									
14	EF	2	1	RB	65		U	U									



Site #12, upstream photo of riffle/pool habitat.
Roll #2, Frame #01, Date: 2001/08/01



Site #12, downstream photo of representative habitat.
Roll #2, Frame #02, Date: 2001/08/01



Site #12, upstream photo of a 900 mm culvert.
Roll #2, Frame #03, Date: 2001/08/01

FDIS Reach/Site Summary

South Fulton Study Area

Reach # ILP Map # ILP #

Watershed Code: 480-742900-00000-00000-0000-000-000-000-000-000-000

1.0

STREAM REFERENCING									
Gazetted Name:					Local Name: Sockeye Creek				
Watershed Code: 480-742900-00000-00000-0000-000-000-000-000-000-000					ILP Map #:		ILP #:		
REACH									
Reach #: 1.0		UTM(Zone/East/North): 9.691804.6068975			Sample Type: Biased				
Length (km): .77		Coupling: Decoupled		Magnitude: 77		BGC Zone: SBS			
Gradient (%): 2.3		Confinement: Occasionally Conf		Order: 5		Open water: Absent			
US Elev (m): 731		Islands: NONE		Riparian Vegetation: Mixed C/D					
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: None/natural									
SITE									
Site #: 13		Field UTM ..		Agency: C172		Crew: EL/JD		Date: 2001/08/01	
Site Length (m): 300		GIS UTM 9.692012.6069260		Agency Name: Triton Environmental Consultants (Terrace)					
CHANNEL									
No Vis.Ch.: ☐		Intermittent: ☐		Avg		Min		Max	
Dewatered: ☐		Tribes.: ☐		Channel Width (m): 12.00		8.600		15.10	
Stage: Low ☒				Wetted Width (m): 5.25		4		6.2	
Med ☐				Bankfull Depth (m): 0.70		0.6		0.8	
High ☐				Temp (C): 8		pH: 7.8		Conductivity: 50	
						Turbidity: Turbid ☐		Low ☐	
								Moderate ☐ Clear ☒	
MORPHOLOGY									
Bed Material: Dominant: Gravels		D95 (cm): 35.00		Bars: Non ☐		Side ☒		Diagonal ☐	
Subdominant: Cobble		D (cm): 25.00						Mid-channel ☒	
Channel Pattern: Sinuous		Islands: None		DISTURBANCE		O1		B1	
Coupling: Decoupled				INDICATORS		B2		B3	
Confinement: Unconfined						D1		D2	
Morphology: RP Riffle Pool						D3			
				C1		C2		C3	
				C4		C5		S1	
				S2		S3		S4	
				S5					
COVER									
Total Cover: Abundant		Type: SWD		LWD		B		U	
LWD: Few		Amount: T		D		N		S	
LWD Dist: Evenly Distributed		Location: P/S/O:		☒		☒		☒	
				☒		☒		☒	
Right Bank: Shape: Sloping (g)		Texture: Fines ☐		Gravel ☒		Cobble ☒		Boulder ☐	
Left Bank: Shape: Sloping (g)		Texture: Fines ☐		Gravel ☒		Cobble ☒		Boulder ☐	
Right Bank: Rip.Veg: Mixed C/D		Stage: Mature forest		Instream Veg: None ☐		Algae ☒		Moss ☐	
Left Bank: Rip.Veg:		Stage: Mature forest						Vascular ☐	
FISH									
Site Number	Capture Method	Number of Events	Length fished (m)	Total Time	Voltage	Species	Total Fish	Minimum Length (mm)	Maximum Length (mm)
13	VO	1		40 min		SK	200	450	650

FDIS Site Card

South Fulton Study Area

Watershed Code: 480-742900-00000-00000-0000-000-000-000-000-000-000-000

Reach # 1.0 ILP Map # 093L.080 ILP # 10043 Site 13

PROJECT

Project Name: Smithers Landing Fish Inventory - 2000
Stream Name (gaz.): BABINE RIVER
Project Watershed Code: 480-000000-00000-00000-0000-000-000-000-000-000-000-000

Project Code: 3496

WATERSHED

Gazetted Name: Watershed Code: 480-742900-00000-00000-0000-000-000-000-000-000-000-000
Local Name: Sockeye Creek
ILP Map#: 093L.080 ILP #: 10043 NID Map #: 093L.080 NID #: 10013 Reach #: 1.0 Site #: 13
Field UTM (Z.E.N): .. Method: Site Lg: 300 Method: HC Access: H
GIS UTM (Z.E.N): 9.692012.6069260 Ref. Name:
Date: 2001/08/01 Time: 16:40 Agency: C172 Crew: EL/JD Fish Crd?: ☒ Incomplete: ☐

CHANNEL

	Mtd	width	width	width	width	width	width	width	width	width	width	Avg		Gadient %	Mtd	Avg	
Channel Width (m):	T	14.50	10.20	8.60	12.40	11.20	15.10					12.00	Method I:	1.0	1.5	C	1.38
Wetted Width (m):	MS	6.20	5.10	4.80	5.40	4.00	6.00					5.25	Method II:	2.0	1.0	C	
Pool Depth (m):	MS	0.45	0.51	0.62	0.50	0.63	0.56					0.54					

Wb Depth: .8 .6 .7 Avg: 0.70 Method: GE Stage: L ☒ M ☐ H ☐ No Vis.Ch.: ☐ Intermittent: ☐ Dw: ☐ Tribs.: ☐

COVER Total: A

Type:	SWD	LWD	B	U	DP	OV	IV
Amount:	T	D	N	S	S	S	N
Loc: P/S/O:	☒	☒	☐	☒	☒	☒	☐

CROWN CLOSURE

1 1-20%

INSTREAM VEG: N ☐ A ☒ M ☐ V ☐

LWD: F DIST: E

LB SHP: S

Texture: F ☐ G ☒ C ☒ B ☐ R ☐ A ☐

RIP: M

STG: MF

RB SHP: S

Texture: F ☐ G ☒ C ☒ B ☐ R ☐ A ☐

RIP: M

STG: MF

WATER

EMS: Temp: 8 Method: T4 Req #: Cond.: 50 Method: S3
pH: 7.8 Method: P2 Turb.: T ☐ M ☐ L ☐ C ☒ Method: GE
Flood Signs: None Method: GE

MORPHOLOGY

Bed Material: Dominant: G Subdom: C O1 B1 B2 B3 D1 D2 D3
D95: 35.0 D (cm): 25.00 Morph: RP DISTURBANCE INDICATORS C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
Pattern: SI Islands: N Coupling: DC Confinement: UN FSZ: ☐
Bars: N ☐ SIDE ☒ DIAG ☐ MID ☒ SPAN ☐ BR ☐

HABITAT QUALITY

Name	Comments
Overwinter Habitat	Overwintering habitat present
Rearing Habitat	Moderate rearing habitat-LWD and cover present, limited deep pools
Spawning Habitat	High quality spawning habitat-hundreds of sockeye staging. Gravels suitable for spawning throughout reach

PHOTOS

Photo	Foc Lg	Dir	Comments
R: 02 F: 04	STD	U	upstream photo of channel
R: 02 F: 05	STD	U	upstream photo of sockeye filled run
R: 02 F: 06	STD	NS	underwater shot of sockeye

FDIS Site Card

South Fulton Study Area

Watershed Code: 480-742900-00000-00000-0000-000-000-000-000-000

Reach #	ILP Map #	ILP #	Site
1.0	093L.080	10043	13

PHOTOS						
Photo				Foc Lg	Dir	Comments
R:	02	F:	07	STD	NS	underwater shot of sockeye
R:	21	F:	20	STD	NS	picture of sockeye
R:	21	F:	21	STD	NS	picture of sockeye
R:	21	F:	22	STD	NS	picture of sockeye
R:	21	F:	23	STD	NS	picture of sockeye
R:	21	F:	24	STD	NS	picture of dead sockeye
R:	21	F:	25	STD	NS	view of sockeye run
COMMENTS						
Section				Comments		
CHANNEL				Adult sockeye are abundant to the end of fish use		
CHANNEL				S2 Stream		

South Fulton Study Area

WATERBODY				
Gazetted Name:	Local: Sockeye Creek			
Project Code:	480-000000-00000-00000-0000-000-000-000-000-0			
WS Code:	480-742900-00000-00000-0000-000-000-000-000-000-000			
Waterbody ID:	ILP Map #:	093L.080	ILP #:	10043
Project ID:	3496	Lake/Stream:	S	Reach #:
				1 -
			Lake From Date:	

Fish Permit #: 145085K Date: 2001/08/01 To: 2001/08/01 Agency: C172 Crew: JD/EL Resample:

Site#	NID Map	NID #	UTM:Zone/East/North/Mthd		MTD/NO		Temp	Cond	Turbid	Comment
13	093L.080	10013		GPU	VO	1	8	50	C	

Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment
13	VO	1	1	2001/08/01	16:40	2001/08/01	17:20

Site#	MTD/NO		H/P	Species	Stage	Age	Total #	Lgth (Min/Max)		FishAct	Comment
13	VO	1	1	SK	A		200	450	650	S	



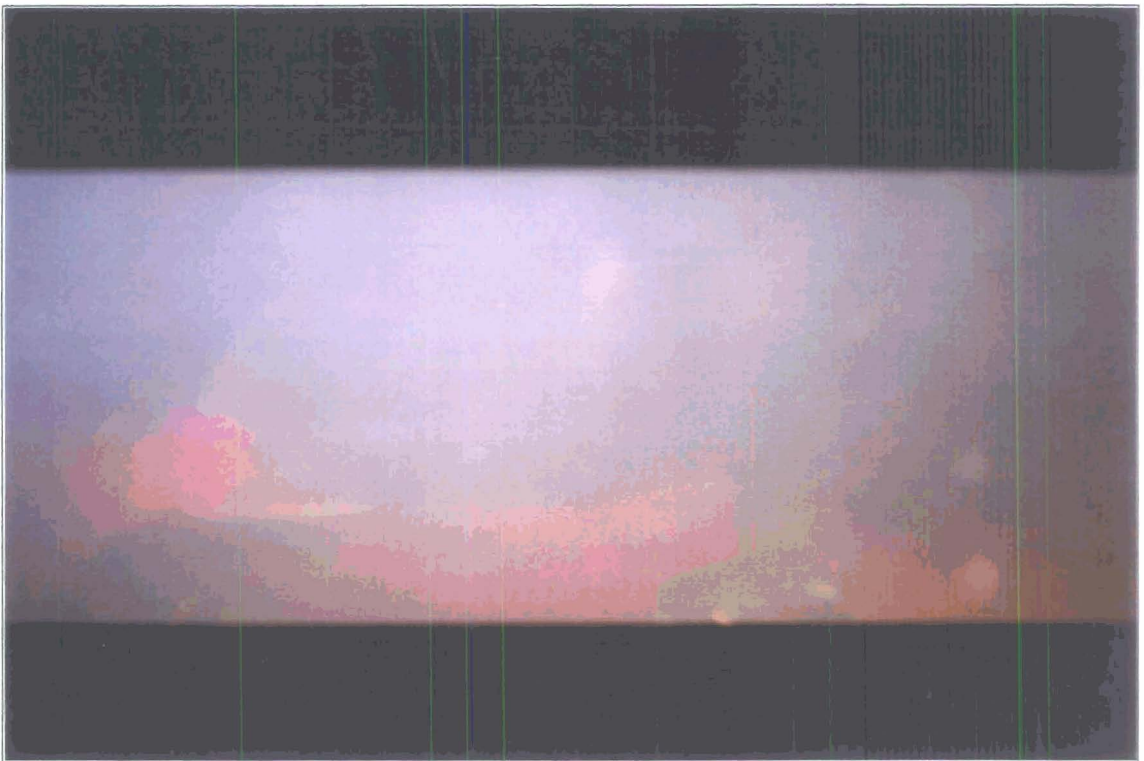
Site #13, upstream photo of channel.
Roll #2, Frame #04, Date: 2001/08/01



Site #13, upstream photo of sockeye filled run.
Roll #2, Frame #05, Date: 2001/08/01



Site #13, underwater shot of sockeye.
Roll #2, Frame #06, Date: 2001/08/01



Site #13, underwater shot of sockeye.
Roll #2, Frame #07, Date: 2001/08/01



Site #13, picture of sockeye.
Roll #21, Frame #20, Date: 2001/08/01



Site #13, picture of sockeye.
Roll #21, Frame #21, Date: 2001/08/01



Site #13, picture of sockeye.
Roll #21, Frame #22, Date: 2001/08/01



Site #13, picture of sockeye.
Roll #21, Frame #23, Date: 2001/08/01



Site #13, picture of dead sockeye.
Roll #21, Frame #24, Date: 2001/08/01



Site #13, view of sockeye run.
Roll #21, Frame #25, Date: 2001/08/01

1.0 093L.080 10107

Triton Environmental Consultants Ltd.

FDIS Reach/Site Summary

South Fulton Study Area

Watershed Code: 480-723719-00000-00000-0000-000-000-000-000-000-000

Reach # 1.0 ILP Map # 093L.080 ILP # 10107

SITE									
Site #: 14		Field UTM 9.687560.6072000		Agency: C172		Crew: EL/JD		Date: 2001/08/01	
Site Length (m): 600		GIS UTM 9.687720.6072128		Agency Name: Triton Environmental Consultants (Terrace)					
CHANNEL									
No Vis. Ch.: ☐	Intermittent: ☐			Avg	Min	Max	#		
Dewatered: ☐	Tribs.: ☐							Avg	Min
Stage: Low ☐								Max	#
Med ☒									
High ☐									
Temp (C): 8		pH: 7.8		Conductivity: 50		Turbidity: Turbid ☐		Low ☐	
						Moderate ☐		Clear ☒	
MORPHOLOGY									
Bed Material: Dominant: Boulders		D95 (cm): 132.00		Bars: Non ☒		Side ☐		Diagonal ☐	
Subdominant: Cobble		D (cm): 7.00				Mid-channel ☐		Span ☐	
Channel Pattern: Sinuous		Islands: None		DISTURBANCE INDICATORS		O1		B1 B2 B3 D1 D2 D3	
Coupling: Coupled									
Confinement: Confined									
Morphology: RP Riffle Pool									
COVER									
Total Cover: Abundant		Type: SWD LWD B U DP OV IV							
LWD: Few		Amount: T T S N T D N							
LWD Dist: Evenly Distributed		Location: P/S/O: ☒ ☒ ☒ ☐ ☐ ☐ ☐						FSZ: ☐	
Right Bank: Shape: Sloping (g)		Texture: Fines ☐ Gravel ☒ Cobble ☒ Boulder ☐ Rock ☐ Manmade ☐						Crown Closure	
Left Bank: Shape: Sloping (g)		Texture: Fines ☐ Gravel ☒ Cobble ☒ Boulder ☐ Rock ☐ Manmade ☐						41-70%	
Right Bank: Rip.Veg: Mixed C/D		Stage: Mature forest							
Left Bank: Rip.Veg:		Stage: Mature forest		Instream Veg: None ☐ Algae ☐ Moss ☒ Vascular ☐					
FEATURES									
NID Map	NID	Type	Hgt	Method	Lg	Method	Photo	AirPhoto	UTM (Z/E/N)
093L.080	88006	F	1.7	MS			R: 2 F: 08 L:	#:	9.687544.6071
Comments: Vertical Falls-no plunge pool									
FISH									
Site Number	Capture Method	Number of Events	Length fished (m)	Total Time	Voltage	Species	Total Fish	Minimum Length (mm)	Maximum Length (mm)
12	EF	1	100	86 sec	600	RB	5	60	90
12	EF	1	100	86 sec	600	CO	12	50	71
14	EF	1	200	161 sec	600	RB	6	50	85
14	EF	1	200	161 sec	600	CO	4	45	60
314	EF	1	200	263 sec	600	NFC	0		

South Fulton Study Area

Reach #	ILP Map #	ILP #	Site
1.0	093L.080	10107	14

PROJECT

Project Code: 3496

WATERSHED

Date: 2001/08/01 Time: 13:30 Agency: C172 Crew: EL/JD Fish Crd?: ☒ Incomplete: ☐

CHANNEL

Avg: 0.33

Method: MS

Stage: L ☐ M ☒ H ☐

No Vis.Ch.: ☐ Intermittent: ☐
Dw: ☐ Tribs.: ☐

COVER

Total: A

CROWN CLOSURE

3 41-70%

INSTREAM VEG: N ☐ A ☐ M ☒ V ☐

LWD: F

DIST: E

LB SHP: S

Texture: F ☐ G ☒ C ☒ B ☐ R ☐ A ☐

RIP: M

STG: MF

RB SHP: S

Texture: F ☐ G ☒ C ☒ B ☐ R ☐ A ☐

RIP: M

STG: MF

WATER

Req #:
 Cond.: 50 Method: S3
 Turb.: T ☐ M ☐ L ☐ C ☒ Method: GE

MORPHOLOGY

Pattern: SI

Islands: N

Coupling: CO

Confinement: CO

FSZ: 11

Bars: N ☒ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR ☐

FEATURES

Comments: Vertical Falls-no plunge pool

[illegible]

Name	Comments
Cover	good-majority of stream covered by devils club and lots of boulder cover
Rearing Habitat	Moderate-riffle pool with boulders
OverWinter Habitat	Poor-no deep pools within the surveyed section but wetland upstream

FDIS Site Card

South Fulton Study Area

Watershed Code: 480-723719-00000-00000-0000-0000-000-000-000-000-000

Reach #	ILP Map #	ILP #	Site
1.0	093L.080	10107	14

HABITAT QUALITY				
Name			Comments	
Spawning Habitat			Poor-angular gravels	
PHOTOS				
Photo		Foc Lg	Dir	Comments
R:	02 F: 08	STD	U	upstream photo of falls, 1.7 m in height.
R:	02 F: 09	STD	U	upstream photo of stream with devils club cover in confined section
R:	02 F: 10	STD	D	downstream photo of stream with devils club cover in confined section
COMMENTS				
Section		Comments		
CHANNEL		stream was walked from road downstream		
CHANNEL		Co and Rb were captured under falls and no fish were caught above the barrier		
CHANNEL		S3/S6 Stream		

FDIS Fish Card

South Fulton Study Area

Watershed Code:

480-723719-00000-00000-0000-0000-000-000-000-000-000

Reach #

1.0

ILP Map #

093L.080

ILP #

10107

INDIVIDUAL FISH DATA																	
Site#	MTD/NO		H/P	Species	Length	Weight	Sex	Mat	Age			Vch#	Genetic		Roll #	Frame#	Comment
									Str/Smp#/#Age				Str/Smpt#				
14	EF	2	1	RB	60		U	U									
14	EF	2	1	RB	85		U	U									
14	EF	2	1	RB	70		U	U									
14	EF	2	1	RB	50		U	U									
14	EF	2	1	RB	65		U	U									

FDIS Fish Card

South Fulton Study Area

Watershed Code: 480-723719-00000-00000-0000-0000-000-000-000-000-000

Reach # 1.0 ILP Map # 093L.080 ILP # 10107

WATERBODY

Gazetted Name: Local: None

Project Code: 480-000000-00000-00000-0000-000-000-000-000-000-0

WS Code: 480-723719-00000-00000-0000-000-000-000-000-000-000

Waterbody ID: ILP Map #: 093L.080 ILP #: 10107 Reach #: 1 -

Project ID: 3496 Lake/Stream: S Lake From Date:

Fish Permit #: 145085K Date: 2001/08/01 To: 2001/08/02 Agency: C172 Crew: JD/EL Resample: ☐

SITE / METHOD

Site#	NID Map	NID #	UTM:Zone/East/North/Mthd	MTD/NO	Temp	Cond	Turbid	Comment
314	093L.080	10314		GPU EF 3	8	50	C	Above Falls
14	093L.080	10014		GPU EF 2	8	50	C	
12	093L.080	10012		GPU EF 1	8	50	C	

A. GEAR SETTINGS

Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment
12	EF 1	1	2001/08/01	14:30	2001/08/01	15:00	
14	EF 2	1	2001/08/02	13:30	2001/08/02	14:30	
314	EF 3	1	2001/08/02	14:30	2001/08/02	15:00	

C. ELECTROFISHER SPECIFICATIONS

Site#	MTD/NO	H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model
12	EF	1	1	O	86	100.0	1.2	600	60	6	SMITH ROOT 12B
14	EF	2	1	O	161	200.0	1.0	600	60	6	SMITH ROOT 12B
314	EF	3	1	O	263	200.0	1.0	600	60	6	SMITH ROOT 12B

FISH SUMMARY

Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	FishAct	Comment
12	EF	1	1	CO	J	12	50 71	R	
12	EF	1	1	RB	J	5	60 90	R	
14	EF	2	1	CO	J	4	45 60	R	
14	EF	2	1	RB	J	6	50 85	R	
314	EF	3	1	NFC		0			

INDIVIDUAL FISH DATA

Site#	MTD/NO	H/P	Species	Length	Weight	Sex	Mat	Age	Vch#	Genetic	Roll #	Frame#	Comment
								Str/Smpl#		Str/Smpl#			
12	EF	1	1	RB	85		U	U					
12	EF	1	1	RB	90		U	U					
12	EF	1	1	RB	72		U	U					
12	EF	1	1	RB	60		U	U					
12	EF	1	1	RB	68		U	U					
12	EF	1	1	CO	60		U	U					
12	EF	1	1	CO	55		U	U					
12	EF	1	1	CO	71		U	U	7				
12	EF	1	1	CO	50		U	U					
12	EF	1	1	CO	62		U	U					
12	EF	1	1	CO	58		U	U					
12	EF	1	1	CO	65		U	U					
12	EF	1	1	CO	55		U	U					
12	EF	1	1	CO	60		U	U					
12	EF	1	1	CO	50		U	U					
12	EF	1	1	CO	54		U	U					
12	EF	1	1	CO	56		U	U					
14	EF	2	1	CO	50		U	U					
14	EF	2	1	CO	60		U	U					
14	EF	2	1	CO	50		U	U					
14	EF	2	1	CO	45		U	U					
14	EF	2	1	RB	80		U	U					

FDIS Fish Card

South Fulton Study Area

Watershed Code:

480-723719-00000-00000-0000-0000-000-000-000-000-000

Reach #

1.0

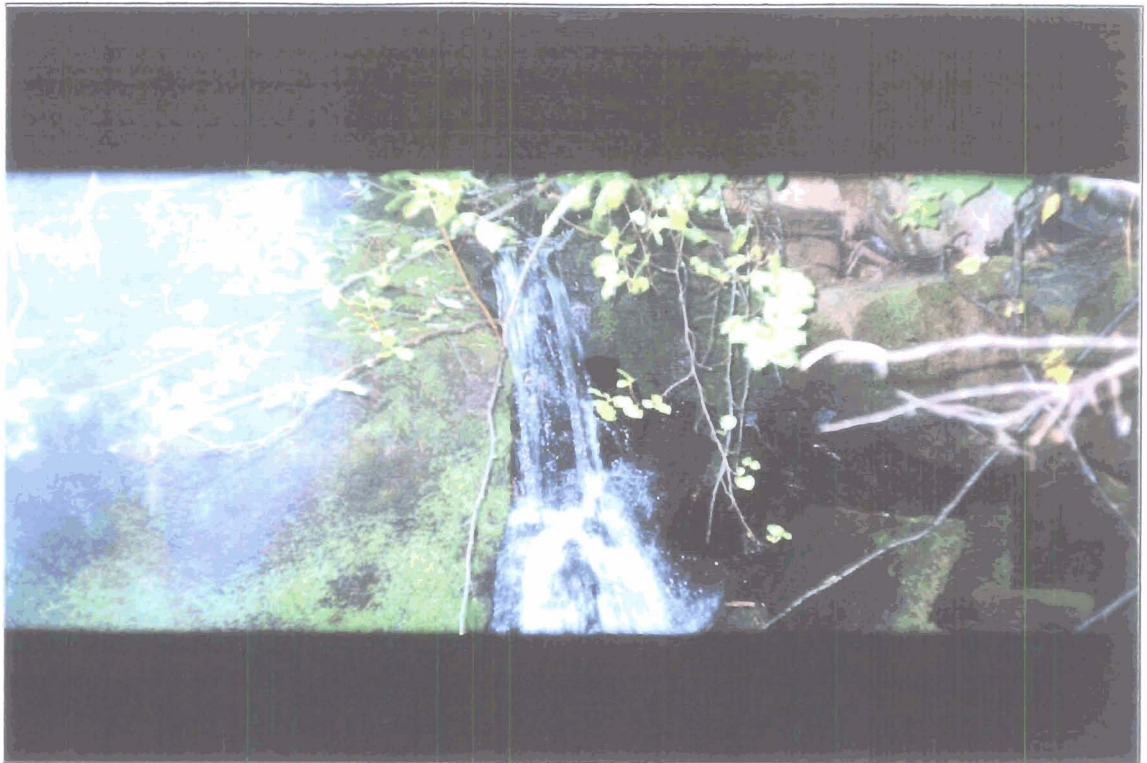
ILP Map #

093L.080

ILP #

10107

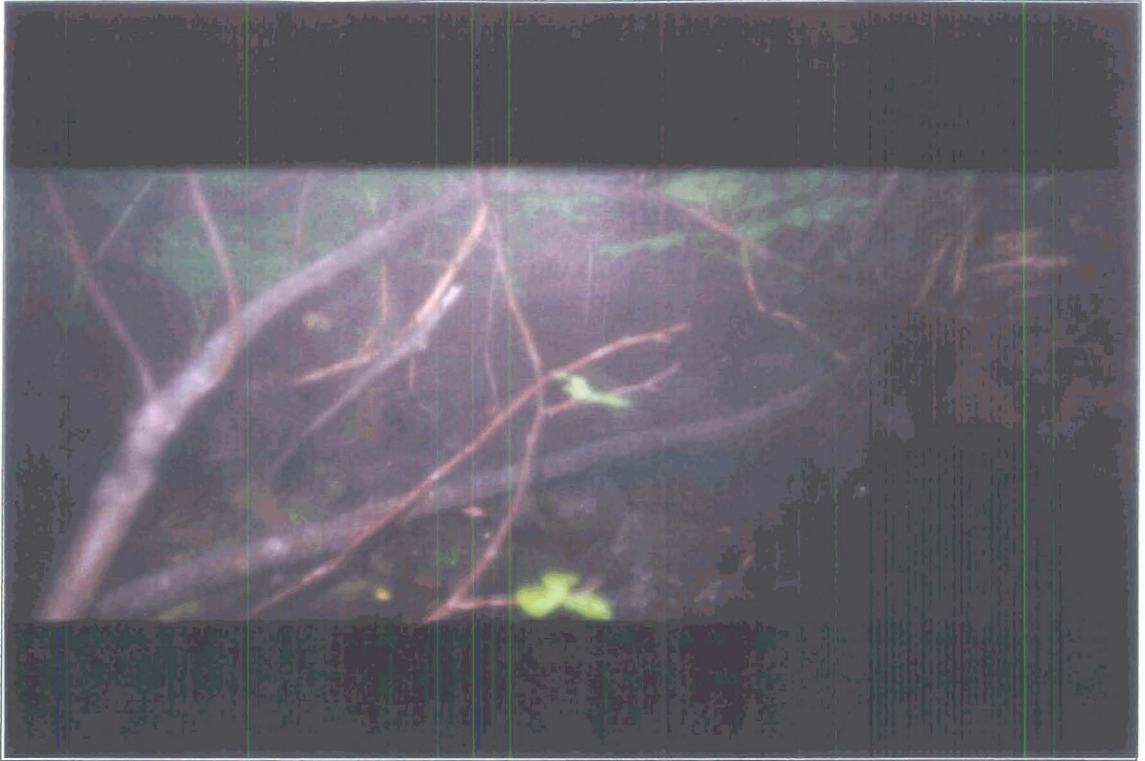
INDIVIDUAL FISH DATA																	
Site#	MTD/NO		H/P	Species	Length	Weight	Sex	Mat	Age			Vch#	Genetic		Roll #	Frame#	Comment
									Str/Smpl#/Age				Str/Smpl#				
14	EF	2	1	RB	60		U	U									
14	EF	2	1	RB	85		U	U									
14	EF	2	1	RB	70		U	U									
14	EF	2	1	RB	50		U	U									
14	EF	2	1	RB	65		U	U									



Site #14, upstream photo of falls, 1.7 m in height..
Roll #2, Frame #08, Date: 2001/08/01



Site #14, upstream photo of stream with devils club cover in confined section.
Roll #2, Frame #09, Date: 2001/08/01



Site #14, downstream photo of stream with devils club cover in confined section.
Roll #2, Frame #10, Date: 2001/08/01

FDIS Reach/Site Summary

South Fulton Study Area

Watershed Code: 480-705800-06053-59559-0000-0000-000-000-000-000-000

Reach # 1.0 ILP Map # 093L.080 ILP # 10129

STREAM REFERENCING									
Gazetted Name:					Local Name:				
Watershed Code: 480-705800-06053-59559-0000-0000-000-000-000-000					ILP Map #: 093L.080		ILP #: 10129		
REACH									
Reach #: 1.0		UTM(Zone/East/North): 9.682723.6074388				Sample Type: Random			
Length (km): .83		Coupling: Decoupled		Magnitude: 1		BGC Zone: SBS			
Gradient (%): 5.5		Confinement: Occasionally Conf		Order: 1		Open water: Absent			
US Elev (m): 821		Islands: NONE		Riparian Vegetation: Mixed C/D					
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified									
SITE									
Site #: 15		Field UTM 9.683220.6074850		Agency: C172		Crew: EL/JD		Date: 2001/08/02	
Site Length (m): 100		GIS UTM 9.683194.6074833		Agency Name: Triton Environmental Consultants (Terrace)					
CHANNEL									
No Vis.Ch.: ☒		Intermittent: ☐							
Dewatered: ☐		Tribes.: ☐							
Stage: Low ☐									
Med ☐									
High ☐									
Temp (C):		pH:		Conductivity:		Turbidity: Turbid ☐		Low ☐	
						Moderate ☐		Clear ☐	
MORPHOLOGY									
Bed Material: Dominant:		D95 (cm):		Bars: Non ☐		Side ☐		Diagonal ☐	
Subdominant:		D (cm):						Mid-channel ☐	
Channel Pattern:		Islands:		DISTURBANCE INDICATORS		O1 B1 B2 B3 D1 D2 D3		Span ☐	
Coupling:								Braid ☐	
Confinement:									
Morphology:									
COVER									
Total Cover:		Type:		SWD		LWD		B U DP OV IV	
LWD:		Amount:							
LWD Dist:		Location: P/S/O:						FSZ: ☐	
Right Bank: Shape:		Texture: Fines ☐		Gravel ☐		Cobble ☐		Boulder ☐	
Left Bank: Shape:		Texture: Fines ☐		Gravel ☐		Cobble ☐		Boulder ☐	
Right Bank: Rip.Veg:		Stage:						Rock ☐	
Left Bank: Rip.Veg:		Stage:						Manmade ☐	
								Crown Closure	
								Instream Veg: None ☐	
								Algae ☐	
								Moss ☐	
								Vascular ☐	

FDIS Site Card

South Fulton Study Area

Watershed Code: 480-705800-06053-59559-0000-0000-000-000-000-000-000

Reach # 1.0 ILP Map # 093L.080 ILP # 10129 Site 15

PROJECT

Project Name: Smithers Landing Fish Inventory - 2000
Stream Name (gaz.): BABINE RIVER Project Code: 3496
Project Watershed Code: 480-000000-00000-00000-0000-000-000-000-000-000-000

WATERSHED

Gazetted Name: Watershed Code: 480-705800-06053-59559-0000-0000-000-000-000-000-000
ILP Map#: 093L.080 ILP #: 10129 NID Map #: 093L.080 NID #: 10015 Reach #: 1.0 Site #: 15
Field UTM (Z.E.N): 9.683220.6074850 Method: MAP Site Lg: 100 Method: GE Access: V2
GIS UTM (Z.E.N): 9.683194.6074833 Ref. Name:
Date: 2001/08/02 Time: 15:55 Agency: C172 Crew: EL/JD Fish Crd?: ☐ Incomplete: ☐

CHANNEL

	Mtd	width	width	width	width	width	width	width	width	width	width	Avg	Gadient %	Mtd	Avg
Channel Width (m):	MS											0.00	Method I:	C	0.00
Wetted Width (m):	MS											0.00	Method II:	C	
Pool Depth (m):	MS											0.00			

Wb Depth: Avg: 0.00 Method: MS Stage: L ☐ M ☐ H ☐ No Vis.Ch.: ☒ Intermittent: ☐
Dw: ☐ Tribs.: ☐

COVER Total:

Type:	SWD	LWD	B	U	DP	OV	IV
Amount:							
Loc: P/S/O:							

CROWN CLOSURE

INSTREAM VEG: N ☐ A ☐ M ☐ V ☐

LWD: DIST:
LB SHP:
Texture: F ☐ G ☐ C ☐ B ☐ R ☐ A ☐
RIP:
STG:

RB SHP:
Texture: F ☐ G ☐ C ☐ B ☐ R ☐ A ☐
RIP:
STG:

WATER

EMS: Temp: Method: T4 Reg #: Cond.: Method: S3
pH: Method: P2 Turb.: T ☐ M ☐ L ☐ C ☐ Method: GE
Flood Signs: Method: GE

MORPHOLOGY

Bed Material: Dominant: Subdom: O1 B1 B2 B3 D1 D2 D3
D95: D (cm): Morph: DISTURBANCE INDICATORS
Pattern: C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
Islands:
Coupling:
Confinement: Bars: N ☐ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR ☐
FSZ: ☐

HABITAT QUALITY

Name Comments
Other No fish habitat

PHOTOS

Photo	Foc Lg	Dir	Comments
R: 02 F: 11 STD U			upslope photo of a wet depression
R: 02 F: 12 STD D			downslope photo of a wet depression

COMMENTS

Section Comments

FDIS Site Card

South Fulton Study Area

Watershed Code: 480-705800-06053-59559-0000-0000-000-000-000-000-000	Reach #	ILP Map #	ILP #	Site
	1.0	093L.080	10129	15

COMMENTS	
Section	Comments
CHANNEL	Fully vegetated linear depression. Shrub vegetation in a valley of conifers. No signs of scour or alluvium.
CHANNEL	No Visible Channel



Site #15, upslope photo of a wet depression.
Roll #2, Frame #11, Date: 2001/08/02



Site #15, downslope photo of a wet depression.
Roll #2, Frame #12, Date: 2001/08/02

FDIS Reach/Site Summary

South Fulton Study Area

Watershed Code: 480-705800-06053-00000-0000-0000-000-000-000-000

Reach # 2.0 ILP Map # 093L.080 ILP # 10128

STREAM REFERENCING									
Gazetted Name:					Local Name:				
Watershed Code: 480-705800-06053-00000-0000-000-000-000-000-000					ILP Map #: 093L.080		ILP #: 10128		
REACH									
Reach #: 2.0		UTM(Zone/East/North): 9.683278.6074945				Sample Type: Random			
Length (km): 1.13		Coupling: Decoupled		Magnitude: 3		BGC Zone: SBS			
Gradient (%): 3.3		Confinement: Occasionally Conf		Order: 2		Open water: Absent			
US Elev (m): 776		Islands: NONE		Riparian Vegetation: Mixed C/D					
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified									
SITE									
Site #: 16		Field UTM 9.683400.6075000		Agency: C172		Crew: EL/JD		Date: 2001/08/02	
Site Length (m): 100		GIS UTM 9.683494.6075055		Agency Name: Triton Environmental Consultants (Terrace)					
CHANNEL									
No Vis.Ch.: ☒		Intermittent: ☐		Avg		Min		Max	
Dewatered: ☐		Tribes.: ☐		Channel Width (m): 0.00		0		0	
Stage: Low ☐				Wetted Width (m): 0.00		0		0	
Med ☐				Bankfull Depth (m): 0.00		0		0	
High ☐									
Temp (C):		pH:		Conductivity:		Turbidity: Turbid ☐		Low ☐	
						Moderate ☐		Clear ☐	
MORPHOLOGY									
Bed Material: Dominant:		D95 (cm):		Bars: Non ☐		Side ☐		Diagonal ☐	
Subdominant:		D (cm):				Mid-channel ☐		Span ☐	
Channel Pattern:		Islands:		DISTURBANCE		O1		B1	
Coupling:				INDICATORS		B2		B3	
Confinement:				C1		C2		C3	
Morphology:				C4		C5		S1	
				S2		S3		S4	
				S5					
COVER									
Total Cover:		Type:		SWD		LWD		B	
LWD:		Amount:		U		DP		OV	
LWD Dist:		Location: P/S/O:		IV					
Right Bank: Shape:		Texture: Fines ☐		Gravel ☐		Cobble ☐		Boulder ☐	
Left Bank: Shape:		Texture: Fines ☐		Gravel ☐		Cobble ☐		Boulder ☐	
Right Bank: Rip.Veg:		Stage:		Rock ☐		Manmade ☐		Crown Closure	
Left Bank: Rip.Veg:		Stage:		Instream Veg: None ☐		Algae ☐		Moss ☐	
				Vascular ☐					

FDIS Site Card

South Fulton Study Area

Watershed Code: 480-705800-06053-00000-0000-0000-000-000-000-000-000

Reach # 2.0 ILP Map # 093L.080 ILP # 10128 Site 16

PROJECT

Project Name: Smithers Landing Fish Inventory - 2000
Stream Name (gaz.): BABINE RIVER Project Code: 3496
Project Watershed Code: 480-000000-00000-00000-0000-000-000-000-000-000-000

WATERSHED

Gazetted Name: Local Name: None
Watershed Code: 480-705800-06053-00000-0000-000-000-000-000-000-000
ILP Map#: 093L.080 ILP #: 10128 NID Map #: 093L.080 NID #: 10016 Reach #: 2.0 Site #: 16
Field UTM (Z.E.N): 9.683400.6075000 Method: MAP Site Lg: 100 Method: GE Access: V2
GIS UTM (Z.E.N): 9.683494.6075055 Ref. Name:
Date: 2001/08/02 Time: 16:20 Agency: C172 Crew: ELJD Fish Crd?: Incomplete:

CHANNEL

	Mtd	width	width	width	width	width	width	width	width	width	width	Avg		Gadient %	Mtd	Avg
Channel Width (m):	MS											0.00	Method I:		C	0.00
Wetted Width (m):	MS											0.00	Method II:		C	
Pool Depth (m):	MS											0.00				

Wb Depth: Avg: 0.00 Method: MS Stage: L M H Dw: No Vis.Ch: ☒ Intermittent: ☐ Tribs.: ☐

COVER Total:

Type:	SWD	LWD	B	U	DP	OV	IV
Amount:							
Loc: P/S/O:							

CROWN CLOSURE

INSTREAM VEG: N A M V

LWD: DIST:
LB SHP:
Texture: F G C B R A
RIP:
STG:

RB SHP:
Texture: F G C B R A
RIP:
STG:

WATER

EMS: Req #: Temp: Method: T4 Cond.: Method: S3
pH: Method: P2 Turb.: T M L C Method: GE
Flood Signs: Method: GE

MORPHOLOGY

Bed Material: Dominant: Subdom: O1 B1 B2 B3 D1 D2 D3
D95: D (cm): Morph: DISTURBANCE INDICATORS C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
Pattern: Islands: Coupling: Confinement: FSZ: Bars: N SIDE DIAG MID SPAN BR

HABITAT QUALITY

Name Comments
Other No fish habitat

PHOTOS

Photo	Foc Lg	Dir	Comments
R: 02 F: 13 STD U			upslope photo of a fully vegetated depression
R: 02 F: 14 STD D			downslope photo of a fully vegetated depression

COMMENTS

Section Comments

FDIS Site Card

South Fulton Study Area

Watershed Code: 480-705800-06053-00000-0000-0000-000-000-000-000-000		Reach #	ILP Map #	ILP #	Site
		2.0	093L.080	10128	16
COMMENTS					
Section		Comments			
CHANNEL		No Visible Channel			
CHANNEL		Fully vegetated linear depression. No flow at road crossing. Culvert dry with no signs of scour or alluvium. Some wet depressions of mud			



Site #16, upslope photo of a fully vegetated depression.
Roll #2, Frame #13, Date: 2001/08/02



Site #16, downslope photo of a fully vegetated depression.
Roll #2, Frame #14, Date: 2001/08/02

FDIS Reach/Site Summary

South Fulton Study Area

Watershed Code: 480-776600-00000-00000-0000-000-000-000-000-000-000

Reach # ILP Map # ILP #

1.0

STREAM REFERENCING											
Gazetted Name:						Local Name:					
Watershed Code: 480-776600-00000-00000-0000-000-000-000-000-000-000						ILP Map #:			ILP #:		
REACH											
Reach #: 1.0		UTM(Zone/East/North): 9.696911.6061965				Sample Type: Biased					
Length (km): 1.57		Coupling: Coupled		Magnitude: 42		BGC Zone: SBS					
Gradient (%): 6.3		Confinement: Confined		Order: 4		Open water: Absent					
US Elev (m): 813		Islands: NONE		Riparian Vegetation: Mixed C/D							
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified											
SITE											
Site #: 35		Field UTM ..		Agency: C172		Crew: JD/DT		Date: 2001/08/15			
Site Length (m): 600		GIS UTM9.697500.6062299		Agency Name: Triton Environmental Consultants (Terrace)							
CHANNEL											
No Vis. Ch.: ☐		Intermittent: ☐		Avg		Min		Max		#	
Dewatered: ☐		Tribes.: ☐		Channel Width (m):		8.72		6.5		10.30	
Stage: Low ☒				Wetted Width (m):		3.43		2.400		4.1	
Med ☐				Bankfull Depth (m):		0.80		0.7		0.9	
High ☐				Temp (C): 9		pH: 8.2		Conductivity: 50			
								Turbidity: Turbid ☐		Low ☐	
								Moderate ☐		Clear ☒	
MORPHOLOGY											
Bed Material: Dominant: Gravels		D95 (cm): 45.00		Bars: Non ☐		Side ☒		Diagonal ☐		Mid-channel ☐	
Subdominant: Cobble		D (cm): 15.00								Span ☐	
Channel Pattern: Irregular, Wandering		Islands: None		DISTURBANCE INDICATORS		O1		B1		B2	
Coupling: Coupled						B3		D1		D2	
Confinement: Confined						D3					
Morphology: RP Rifle Pool						C1		C2		C3	
						C4		C5		S1	
						S2		S3		S4	
						S5					
COVER											
Total Cover: Abundant		Type: SWD		LWD		B		U		DP	
LWD: Abundant		Amount: S		D		T		T		S	
LWD Dist: Clumped		Location: P/S/O:		☒		☒		☒		☒	
				☒		☒		☒		☒	
Right Bank: Shape: Sloping (g)		Texture: Fines ☐		Gravel ☒		Cobble ☒		Boulder ☐		Rock ☐	
Left Bank: Shape: Sloping (g)		Texture: Fines ☐		Gravel ☒		Cobble ☒		Boulder ☐		Rock ☐	
Right Bank: Rip. Veg: Mixed C/D		Stage: Mature forest								Crown Closure	
Left Bank: Rip. Veg:		Stage: Mature forest								21-40%	
								Instream Veg: None ☐		Algae ☐	
										Moss ☒	
										Vascular ☐	
FEATURES											
NID Map	NID	Type	Hgt	Method	Lg	Method	Photo		AirPhoto		UTM (Z/E/N)
093K.061	88020	F	4.0	GE	1	GE	R: 62	F: 12	L:	#:	9.697447.6061
Comments: Falls prevent upstream migration											
FISH											
Site Number	Capture Method	Number of Events	Length fished (m)	Total Time	Voltage	Species	Total Fish	Minimum Length (mm)	Maximum Length (mm)		
35	EF	1	100	161 sec	600	RB	6	55	80		
35	EF	1	100	161 sec	600	CO	15	50	65		
35	VO	1		60 min		SK	10	250	350		
36	EF	1	400	633 sec	700	NFC	0				

FDIS Site Card

South Fulton Study Area

Watershed Code: 480-776600-00000-00000-0000-000-000-000-000-000-000

Reach # 1.0 ILP Map # ILP # Site 35

PROJECT																																																																														
Project Name: Smithers Landing Fish Inventory - 2000										Project Code: 3496																																																																				
Stream Name (gaz.): BABINE RIVER																																																																														
Project Watershed Code: 480-000000-00000-00000-0000-000-000-000-000-000-000																																																																														
WATERSHED																																																																														
Gazetted Name:										Local Name: None																																																																				
Watershed Code: 480-776600-00000-00000-0000-000-000-000-000-000-000																																																																														
ILP Map#:		ILP #:		NID Map #: 093K.061		NID #: 10035		Reach #: 1.0		Site #: 35																																																																				
Field UTM (Z.E.N): ..				Method:		Site Lg: 600		Method: MAP		Access: H																																																																				
GIS UTM (Z.E.N): 9.697500.6062299						Ref. Name:																																																																								
Date: 2001/08/15			Time: 08:45		Agency: C172		Crew: JD/DT		Fish Crd?: ☒		Incomplete: ☐																																																																			
CHANNEL																																																																														
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>Mtd</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>Avg</th> </tr> </thead> <tbody> <tr> <td>Channel Width (m):</td> <td>T</td> <td>10.20</td> <td>8.60</td> <td>9.10</td> <td>6.50</td> <td>10.30</td> <td>7.60</td> <td></td> <td></td> <td></td> <td></td> <td>8.72</td> </tr> <tr> <td>Wetted Width (m):</td> <td>T</td> <td>4.10</td> <td>3.60</td> <td>2.90</td> <td>2.40</td> <td>3.50</td> <td>4.10</td> <td></td> <td></td> <td></td> <td></td> <td>3.43</td> </tr> <tr> <td>Pool Depth (m):</td> <td>MS</td> <td>0.40</td> <td>0.50</td> <td>0.40</td> <td>0.30</td> <td>0.40</td> <td>0.30</td> <td></td> <td></td> <td></td> <td></td> <td>0.38</td> </tr> </tbody> </table>													Mtd	width	width	width	width	width	width	width	width	width	width	Avg	Channel Width (m):	T	10.20	8.60	9.10	6.50	10.30	7.60					8.72	Wetted Width (m):	T	4.10	3.60	2.90	2.40	3.50	4.10					3.43	Pool Depth (m):	MS	0.40	0.50	0.40	0.30	0.40	0.30					0.38	<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>Gadient %</th> <th>Mtd</th> <th>Avg</th> </tr> </thead> <tbody> <tr> <td>Method I:</td> <td>2.0</td> <td>3.0</td> <td>C</td> </tr> <tr> <td>Method II:</td> <td>3.0</td> <td>2.0</td> <td>C</td> </tr> </tbody> </table>				Gadient %	Mtd	Avg	Method I:	2.0	3.0	C	Method II:	3.0	2.0	C
	Mtd	width	width	width	width	width	width	width	width	width	width	Avg																																																																		
Channel Width (m):	T	10.20	8.60	9.10	6.50	10.30	7.60					8.72																																																																		
Wetted Width (m):	T	4.10	3.60	2.90	2.40	3.50	4.10					3.43																																																																		
Pool Depth (m):	MS	0.40	0.50	0.40	0.30	0.40	0.30					0.38																																																																		
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Method I:	2.0	3.0	C																																																																											
Method II:	3.0	2.0	C																																																																											
Wb Depth:		.8	.7	.9	Avg: 0.80		Method: MS		Stage: L ☒ M ☐ H ☐		No Vis.Ch.: ☐ Intermittent: ☐ Dw: ☐ Tribs.: ☐																																																																			
COVER				Total: A																																																																										
Type:		SWD	LWD	B	U	DP	OV	IV	CROWN CLOSURE																																																																					
Amount:		S	D	T	T	S	S	T	2 21-40%																																																																					
Loc: P/S/O:		☒	☒	☒	☒	☒	☒	☒	INSTREAM VEG: N ☐ A ☐ M ☒ V ☐																																																																					
LWD: A				DIST: C																																																																										
LB SHP: S								RB SHP: S																																																																						
Texture: F ☐ G ☒ C ☒ B ☐ R ☐ A ☐								Texture: F ☐ G ☒ C ☒ B ☐ R ☐ A ☐																																																																						
RIP: M								RIP: M																																																																						
STG: MF								STG: MF																																																																						
WATER																																																																														
EMS:					Method: T4					Req #:																																																																				
Temp: 9					Method: P2					Cond.: 50																																																																				
pH: 8.2					Method: GE					Turb.: T ☐ M ☐ L ☐ C ☒																																																																				
Flood Signs: Rafted debris										Method: S3																																																																				
										Method: GE																																																																				
MORPHOLOGY																																																																														
Bed Material:		Dominant: G		Subdom: C				O1		B1	B2	B3	D1	D2	D3																																																															
D95: 45.0		D (cm): 15.00		Morph: RP		DISTURBANCE INDICATORS		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td> </tr> </table>							☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐																																																
☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐																																																															
Pattern: IR								C1		C2	C3	C4	C5	S1	S2	S3	S4	S5																																																												
Islands: N								<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td> </tr> </table>							☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐																																														
☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐																																																													
Coupling: CO																																																																														
Confinement: CO																																																																														
FSZ: ☐								Bars: N ☐ SIDE ☒ DIAG ☐ MID ☐ SPAN ☐ BR ☐																																																																						
FEATURES																																																																														
NID Map	NID	Type	Hgt	Method	Lg	Method	Photo			AirPhoto			UTM (Z/E/N)		Method																																																															
093K.061	88020	F	4.0	GE	1	GE	R: 62	F: 12	L:	#:			9.697447.6061916		GIS																																																															
Comments: Falls prevent upstream migration																																																																														
HABITAT QUALITY																																																																														
Name		Comments																																																																												
OverWinter Habitat		Overwintering habitat present (deep pools)																																																																												
Rearing Habitat		Moderate rearing habitat-low flows limit potential																																																																												
Spawning Habitat		Moderate spawning habitat-limited by low flows. Sockeye carcasses are abundant throughout the lower 200 m.																																																																												

FDIS Site Card

South Fulton Study Area

	Reach #	ILP Map #	ILP #	Site
Watershed Code: 480-776600-00000-00000-0000-000-000-000-000-000	1.0			35

PHOTOS						
Photo			Foc Lg	Dir	Comments	
R:	62	F:	12	STD	U	photo of a 4 m falls. Barrier to fish
R:	62	F:	13	STD	U	upstream photo of main channel
R:	62	F:	14	STD	D	downstream photo of gravel substrates
COMMENTS						
Section			Comments			
CHANNEL			Falls prevent upstream fish migration. Sockeye carcasses litter the lower 200 m. Channel fans out in the lower end. Sockeye spawned in a braid which is now dry. Potential enhancement opportunity			
CHANNEL			S2 Stream			

FDIS Fish Card

South Fulton Study Area

Watershed Code: 480-776600-00000-00000-0000-000-000-000-000-000

Reach # ILP Map # ILP #
1.0

WATERBODY															
Gazetted Name:										Local: None					
Project Code: 480-000000-00000-00000-0000-000-000-000-000-0															
WS Code: 480-776600-00000-00000-0000-000-000-000-000-000															
Waterbody ID:				ILP Map #:				ILP #:		Reach #: 1 -					
Project ID: 3496				Lake/Stream: S				Lake From Date:							
Fish Permit #:		145085K		Date: 2001/08/15		To: 2001/08/15		Agency: C172		Crew: DT/JD		Resample: ☐			
SITE / METHOD															
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO	Temp	Cond	Turbid	Comment					
35	093K.061	10035				GPU VO 1	9	50	C						
36	093K.061	10036				GPU EF 1	9	50	C						
35	093K.061	10035				GPU EF 1	9	50	C						
A. GEAR SETTINGS															
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment								
35	EF	1	1	2001/08/15	08:40	2001/08/15	09:40								
35	VO	1	1	2001/08/15	08:40	2001/08/15	09:40								
36	EF	1	1	2001/08/15	10:00	2001/08/15	11:00								
C. ELECTROFISHER SPECIFICATIONS															
Site#	MTD/NO	H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model				
35	EF	1	1	O	161	100.0	3.0	600	60	6	SMITH ROOT	12B			
36	EF	1	1	O	633	400.0	2.0	700	60	6	SMITH ROOT	12B			
FISH SUMMARY															
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	FishAct	Comment						
35	EF	1	1	RB	J	6	55 80	R							
35	EF	1	1	CO	J	15	50 65	R							
35	VO	1	1	SK	A	10	250 350	S	Sockeye jacks						
36	EF	1	1	NFC		0									
INDIVIDUAL FISH DATA															
Site#	MTD/NO	H/P	Species	Length	Weight	Sex	Mat	Age		Vch#	Genetic		Roil #	Frame#	Comment
								Str/Smpl#	Age		Str/Smpl#				
35	EF	1	1	CO	50		U	U							
35	EF	1	1	CO	55		U	U							
35	EF	1	1	CO	60		U	U							
35	EF	1	1	CO	50		U	U							
35	EF	1	1	CO	65		U	U							
35	EF	1	1	CO	65		U	U							
35	EF	1	1	CO	55		U	U							
35	EF	1	1	CO	60		U	U							
35	EF	1	1	CO	65		U	U							
35	EF	1	1	CO	55		U	U							
35	EF	1	1	CO	50		U	U							
35	EF	1	1	CO	60		U	U							
35	EF	1	1	CO	65		U	U							
35	EF	1	1	CO	60		U	U							
35	EF	1	1	CO	50		U	U							
35	EF	1	1	RB	72		U	U							
35	EF	1	1	RB	55		U	U							
35	EF	1	1	RB	70		U	U							
35	EF	1	1	RB	80		U	U							
35	EF	1	1	RB	65		U	U							
35	EF	1	1	RB	70		U	U							
35	VO	1	1	SK	300		U	U							
35	VO	1	1	SK	280		U	U							
35	VO	1	1	SK	295		U	U							
35	VO	1	1	SK	250		U	U							

FDIS Fish Card

South Fulton Study Area

Watershed Code: 480-776600-00000-00000-0000-0000-000-000-000-000-000-000

Reach # ILP Map # ILP #

1.0

INDIVIDUAL FISH DATA																	
Site#	MTD/NO		H/P	Species	Length	Weight	Sex	Mat	Age			Vch#	Genetic		Roll #	Frame#	Comment
									Str/Smpl#/Age				Str/Smpl#				
35	VO	1	1	SK	315		U	U									
35	VO	1	1	SK	330		U	U									
35	VO	1	1	SK	340		U	U									
35	VO	1	1	SK	350		U	U									
35	VO	1	1	SK	330		U	U									
35	VO	1	1	SK	260		U	U									



Site #35, photo of a 4 m falls. Barrier to fish.
Roll #62, Frame #12, Date: 2001/08/15



Site #35, upstream photo of main channel.
Roll #62, Frame #13, Date: 2001/08/15



Site #35, downstream photo of gravel substrates.
Roll #62, Frame #14, Date: 2001/08/15

FDIS Reach/Site Summary

South Fulton Study Area

Watershed Code: 480-776600-00000-00000-0000-000-000-000-000-000-000

Reach # ILP Map # ILP #

1.0

STREAM REFERENCING									
Gazetted Name:					Local Name:				
Watershed Code: 480-776600-00000-00000-0000-000-000-000-000-000					ILP Map #:		ILP #:		
REACH									
Reach #: 1.0		UTM(Zone/East/North): 9.696911.6061965				Sample Type: Biased			
Length (km): 1.57		Coupling: Coupled		Magnitude: 42		BGC Zone: SBS			
Gradient (%): 6.3		Confinement: Confined		Order: 4		Open water: Absent			
US Elev (m): 813		Islands: NONE		Riparian Vegetation: Mixed C/D					
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified									
SITE									
Site #: 35		Field UTM ..		Agency: C172		Crew: JD/DT		Date: 2001/08/15	
Site Length (m): 600		GIS UTM 9.697500.6062299		Agency Name: Triton Environmental Consultants (Terrace)					
CHANNEL									
No Vis.Ch.: ☐		Intermittent: ☐		Avg		Min		Max	
Dewatered: ☐		Tribes: ☐		Channel Width (m):		8.72		6.5	
Stage: Low ☒				Wetted Width (m):		3.43		2.400	
Med ☐				Bankfull Depth (m):		0.80		0.7	
High ☐		Temp (C): 9		pH: 8.2		Conductivity: 50			
						Gradient %:		2.50	
						Pool Depth (m):		0.38	
						Turbidity: Turbid ☐		Low ☐	
						Moderate ☐		Clear ☒	
MORPHOLOGY									
Bed Material: Dominant: Gravels		D95 (cm): 45.00		Bars: Non ☐		Side ☒		Diagonal ☐	
Subdominant: Cobble		D (cm): 15.00				Mid-channel ☐		Span ☐	
Channel Pattern: Irregular, Wandering		Islands: None		DISTURBANCE		O1		B1	
Coupling: Coupled				INDICATORS		B2		B3	
Confinement: Confined						D1		D2	
Morphology: RP		Riffle Pool				S1		S2	
						S3		S4	
						S5			
COVER									
Total Cover: Abundant		Type		SWD		LWD		B	
LWD: Abundant		Amount		S		D		T	
LWD Dist: Clumped		Location: P/S/O		☒		☒		☒	
				☒		☒		☒	
Right Bank: Shape: Sloping (g)		Texture: Fines ☐		Gravel ☒		Cobble ☒		Boulder ☐	
Left Bank: Shape: Sloping (g)		Texture: Fines ☐		Gravel ☒		Cobble ☒		Boulder ☐	
Right Bank: Rip.Veg: Mixed C/D		Stage: Mature forest		Instream Veg: None ☐		Algae ☐		Moss ☒	
Left Bank: Rip.Veg:		Stage: Mature forest						Vascular ☐	
FEATURES									
NID Map	NID	Type	Hgt	Method	Lq	Method	Photo		AirPhoto
093K.061	88020	F	4.0	GE	1	GE	R: 62	E: 12	L: #:
Comments: Falls prevent upstream migration									UTM (Z/E/N)
									9.697447.6061
FISH									
Site Number	Capture Method	Number of Events	Length fished (m)	Total Time	Voltage	Species	Total Fish	Minimum Length (mm)	Maximum Length (mm)
35	EF	1	100	161 sec	600	RB	6	55	80
35	EF	1	100	161 sec	600	CO	15	50	65
35	VO	1		60 min		SK	10	250	350
36	EF	1	400	633 sec	700	NFC	0		

FDIS Fish Card

South Fulton Study Area

Watershed Code: 480-776600-00000-00000-0000-000-000-000-000-000

Reach # ILP Map # ILP #
1.0

WATERBODY															
Gazetted Name:										Local: None					
Project Code: 480-000000-00000-00000-0000-000-000-000-000-0															
WS Code: 480-776600-00000-00000-0000-000-000-000-000-000															
Waterbody ID:					ILP Map #:			ILP #:		Reach #: 1 -					
Project ID: 3496					Lake/Stream: S			Lake From Date:							
Fish Permit #:		145085K		Date: 2001/08/15		To: 2001/08/15		Agency: C172		Crew: DT/JD		Resample: ☐			
SITE / METHOD															
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO	Temp	Cond	Turbid	Comment					
35	093K.061	10035				GPU VO 1	9	50	C						
36	093K.061	10036				GPU EF 1	9	50	C						
35	093K.061	10035				GPU EF 1	9	50	C						
A. GEAR SETTINGS															
Site#	MTD/NO	H/P	Date in	Time In	Date Out	Time Out	Comment								
35	EF 1	1	2001/08/15	08:40	2001/08/15	09:40									
35	VO 1	1	2001/08/15	08:40	2001/08/15	09:40									
36	EF 1	1	2001/08/15	10:00	2001/08/15	11:00									
C. ELECTROFISHER SPECIFICATIONS															
Site#	MTD/NO	H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model				
35	EF	1	1	O	161	100.0	3.0	600	60	6	SMITH ROOT				
36	EF	1	1	O	633	400.0	2.0	700	60	6	SMITH ROOT				
FISH SUMMARY															
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	FishAct	Comment						
35	EF	1	1	RB	J	6	55 80	R							
35	EF	1	1	CO	J	15	50 65	R							
35	VO	1	1	SK	A	10	250 350	S	Sockeye jacks						
36	EF	1	1	NFC		0									
INDIVIDUAL FISH DATA															
Site#	MTD/NO	H/P	Species	Length	Weight	Sex	Mat	Age		Vch#	Genetic		Roll #	Frame#	Comment
								Str/Smpl#	Age		Str/Smpl#				
35	EF	1	1	CO	50		U	U							
35	EF	1	1	CO	55		U	U							
35	EF	1	1	CO	60		U	U							
35	EF	1	1	CO	50		U	U							
35	EF	1	1	CO	65		U	U							
35	EF	1	1	CO	65		U	U							
35	EF	1	1	CO	55		U	U							
35	EF	1	1	CO	60		U	U							
35	EF	1	1	CO	65		U	U							
35	EF	1	1	CO	55		U	U							
35	EF	1	1	CO	50		U	U							
35	EF	1	1	CO	60		U	U							
35	EF	1	1	CO	65		U	U							
35	EF	1	1	CO	60		U	U							
35	EF	1	1	CO	50		U	U							
35	EF	1	1	RB	72		U	U							
35	EF	1	1	RB	55		U	U							
35	EF	1	1	RB	70		U	U							
35	EF	1	1	RB	80		U	U							
35	EF	1	1	RB	65		U	U							
35	EF	1	1	RB	70		U	U							
35	VO	1	1	SK	300		U	U							
35	VO	1	1	SK	280		U	U							
35	VO	1	1	SK	295		U	U							
35	VO	1	1	SK	250		U	U							

FDIS Fish Card

South Fulton Study Area

Reach # ILP Map # ILP #

Watershed Code: 480-776600-00000-00000-0000-0000-000-000-000-000-000-000

1.0

INDIVIDUAL FISH DATA																	
Site#	MTD/NO		H/P	Species	Length	Weight	Sex	Mat	Age		Vch#	Genetic		Roll #	Frame#	Comment	
									Str/Smpl#/Age			Str/Smpl#					
35	VO	1	1	SK	315		U	U									
35	VO	1	1	SK	330		U	U									
35	VO	1	1	SK	340		U	U									
35	VO	1	1	SK	350		U	U									
35	VO	1	1	SK	330		U	U									
35	VO	1	1	SK	260		U	U									

FDIS Reach/Site Summary

South Fulton Study Area

Watershed Code: 480-770700-00000-00000-0000-000-000-000-000-000-000

Reach # ILP Map # ILP #

1.0

STREAM REFERENCING									
Gazetted Name:					Local Name:				
Watershed Code: 480-770700-00000-00000-0000-000-000-000-000-000					ILP Map #:		ILP #:		
REACH									
Reach #: 1.0		UTM(Zone/East/North): 9.695805.6063727				Sample Type: Biased			
Length (km): .71		Coupling: Coupled		Magnitude: 23		BGC Zone: SBS			
Gradient (%): 8.0		Confinement: Frequently Confin		Order: 3		Open water: Absent			
US Elev (m): 771		Islands: NONE		Riparian Vegetation: Mixed C/D					
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified									
SITE									
Site #: 37		Field UTM ..		Agency: C172		Crew: DT/JD		Date: 2001/08/15	
Site Length (m): 500		GIS UTM 9.696263.6063904		Agency Name: Triton Environmental Consultants (Terrace)					
CHANNEL									
No Vis. Ch.: ☐		Intermittent: ☐		Avg		Min		Max	
Dewatered: ☐		Tribes: ☐		Channel Width (m): 3.88		3.1		4.5	
Stage: Low ☒				Wetted Width (m): 1.68		1.4		2	
Med ☐				Bankfull Depth (m): 0.63		0.6		0.7	
High ☐		Temp (C): 9		pH: 8.1		Conductivity: 50		Turbidity: Turbid ☐ Low ☐	
								Moderate ☐ Clear ☒	
MORPHOLOGY									
Bed Material: Dominant: Gravels		D95 (cm): 40.00		Bars: Non ☒		Side ☐		Diagonal ☐	
Subdominant: Cobble		D (cm): 10.00				Mid-channel ☐		Span ☐	
Channel Pattern: Sinuous		Islands: None		DISTURBANCE		O1		B1	
Coupling: Coupled				INDICATORS		B2		B3	
Confinement: Confined				C1		C2		C3	
Morphology: RP		Riffle Pool		C4		C5		S1	
				S2		S3		S4	
				S5					
COVER									
Total Cover: Abundant		Type: SWD		LWD		B		U	
LWD: Abundant		Amount: T		D		T		T	
LWD Dist: Clumped		Location: P/S/O:		☒		☒		☒	
Right Bank: Shape: Sloping (g)		Texture: Fines ☒		Gravel ☒		Cobble ☐		Boulder ☐	
Left Bank: Shape: Sloping (g)		Texture: Fines ☒		Gravel ☒		Cobble ☐		Boulder ☐	
Right Bank: Rip.Veg: Mixed C/D		Stage: Mature forest		Instream Veg: None ☐		Algae ☐		Moss ☒	
Left Bank: Rip.Veg:		Stage: Mature forest						Vascular ☐	
FEATURES									
NID Map	NID	Type	Hgt	Method	Lg	Method	Photo		AirPhoto
093K.061	88022	F	7.0	GE	1	GE	R: 62	F: 18	UTM (Z/E/N)
Comments: Falls 100 m upstream of the first set									
NID Map	NID	Type	Hgt	Method	Lg	Method	Photo		AirPhoto
093K.061	88021	F	7.0	GE	2	GE	R: 62	F: 17	UTM (Z/E/N)
Comments: Falls prevent upstream fish migration									
FISH									
Site Number	Capture Method	Number of Events	Length fished (m)	Total Time	Voltage	Species	Total Fish	Minimum Length (mm)	Maximum Length (mm)
37	EF	1	100	106 sec	800	RB	9	55	85
37	EF	1	100	106 sec	800	CO	12	50	70
42	EF	1	400	420 sec	800	NFC	0		

FDIS Site Card

South Fulton Study Area

Watershed Code: 480-770700-00000-00000-0000-000-000-000-000-000

Reach # 1.0 ILP Map # ILP # Site 37

PROJECT

Project Name: Smithers Landing Fish Inventory - 2000
Stream Name (gaz.): BABINE RIVER Project Code: 3496
Project Watershed Code: 480-000000-00000-00000-0000-000-000-000-000-000

WATERSHED

Gazetted Name: Local Name: None
Watershed Code: 480-770700-00000-00000-0000-000-000-000-000-000
ILP Map#: ILP #: NID Map #: 093K.061 NID #: 10037 Reach #: 1.0 Site #: 37
Field UTM (Z.E.N): .. Method: Site Lg: 500 Method: MAP Access: H
GIS UTM (Z.E.N): 9.696263.6063904 Ref. Name:
Date: 2001/08/15 Time: 13:00 Agency: C172 Crew: DT/JD Fish Crd?: ☒ Incomplete: ☐

CHANNEL

	Mtd	width	width	width	width	width	width	width	width	width	width	Avg		Gadient %		Mtd	Avg
Channel Width (m):	T	3.50	4.00	4.20	3.10	4.50	4.00					3.88	Method I:	3.0	2.0	C	2.75
Wetted Width (m):	T	1.60	1.70	1.40	1.90	2.00	1.50					1.68	Method II:	4.0	2.0	C	
Pool Depth (m):	MS	0.41	0.50	0.36	0.49	0.52	0.51					0.46					

Wb Depth: .6 .6 .7 Avg: 0.63 Method: MS Stage: L ☒ M ☐ H ☐ No Vis.Ch.: ☐ Intermittent: ☐
Dw: ☐ Tribs.: ☐

COVER Total: A

Type:	SWD	LWD	B	U	DP	OV	IV
Amount:	T	D	T	T	S	T	T
Loc: P/S/O:	☒	☒	☒	☒	☒	☒	☒

CROWN CLOSURE

1 1-20%

INSTREAM VEG: N ☐ A ☐ M ☒ V ☐

LWD: A DIST: C

LB SHP: S

Texture: F ☒ G ☒ C ☐ B ☐ R ☐ A ☐

RIP: M

STG: MF

RB SHP: S

Texture: F ☒ G ☒ C ☐ B ☐ R ☐ A ☐

RIP: M

STG: MF

WATER

EMS: Temp: 9 Method: T4 Req #: Cond.: 50 Method: S3
pH: 8.1 Method: P2 Turb.: T ☐ M ☐ L ☐ C ☒ Method: GE
Flood Signs: None Method: GE

MORPHOLOGY

Bed Material: Dominant: G Subdom: C O1 B1 B2 B3 D1 D2 D3
D95: 40.0 D (cm): 10.00 Morph: RP DISTURBANCE INDICATORS
Pattern: SI C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
Islands: N
Coupling: CO
Confinement: CO
FSZ: ☐ Bars: N ☒ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR ☐

FEATURES

NID Map	NID	Type	Hgt	Method	Lg	Method	Photo	AirPhoto	UTM (Z/E/N)	Method
093K.061	88022	F	7.0	GE	1	GE	R: 62 F: 18 L:	#:	9.695929.6063768	GIS
Comments: Falls 100 m upstream of the first set										
NID Map	NID	Type	Hgt	Method	Lg	Method	Photo	AirPhoto	UTM (Z/E/N)	Method
093K.061	88021	F	7.0	GE	2	GE	R: 62 F: 17 L:	#:	9.695985.6063814	GIS
Comments: Falls prevent upstream fish migration										

HABITAT QUALITY

Name Comments

South Fulton Study Area

Reach #	ILP Map #	ILP #	Site
1.0			37

Triton Environmental Consultants Ltd.

FDIS Fish Card

South Fulton Study Area

Watershed Code: 480-770700-00000-00000-0000-000-000-000-000-000-000

Reach # ILP Map # ILP #
1.0

WATERBODY									
Gazetted Name:					Local: None				
Project Code: 480-000000-00000-00000-0000-000-000-000-000-000-0									
WS Code: 480-770700-00000-00000-0000-000-000-000-000-000-000									
Waterbody ID:			ILP Map #:		ILP #:		Reach #: 1 -		
Project ID: 3496			Lake/Stream: S		Lake From Date:				
Fish Permit #: 145085K		Date: 2001/08/15		To: 2001/08/15		Agency: C172		Crew: DT/JD	Resample: ☐

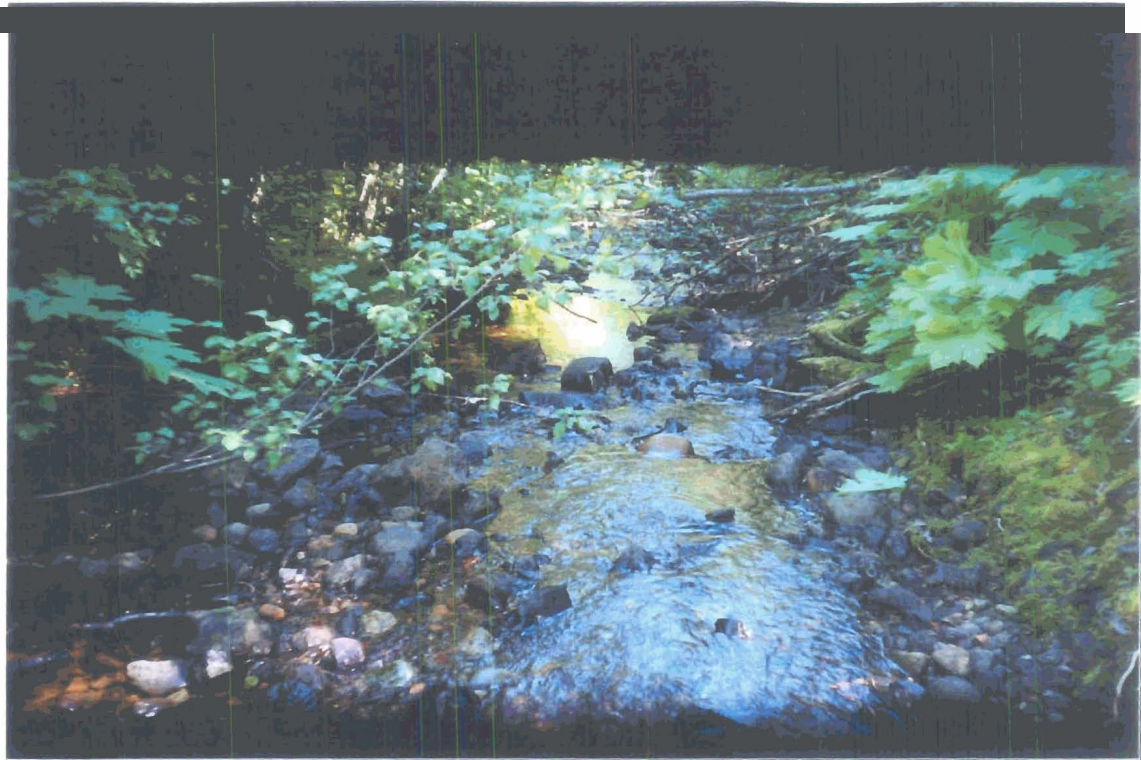
SITE / METHOD											
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO		Temp	Cond	Turbid	Comment
42	093K.061	10042				GPU	EF 1	9	50	C	
37	093K.061	10037				GPU	EF 1	9	50	C	

A. GEAR SETTINGS							
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment
37	EF 1	1	2001/08/15	13:00	2001/08/15	13:30	
42	EF 1	1	2001/08/15	13:40	2001/08/15	14:50	

C. ELECTROFISHER SPECIFICATIONS											
Site#	MTD/NO	H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model
37	EF	1	1	O	106	100.0	2.0	800	60	6	SMITH ROOT 12B
42	EF	1	1	O	420	400.0	2.0	800	60	6	SMITH ROOT 12B

FISH SUMMARY										
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)		FishAct	Comment
37	EF	1	1	CO	J	12	50	70	R	
37	EF	1	1	RB	J	9	55	85	R	
42	EF	1	1	NFC		0				

INDIVIDUAL FISH DATA																	
Site#	MTD/NO		H/P	Species	Length	Weight	Sex	Mat	Age			Vch#	Genetic		Roll #	Frame#	Comment
									Str/Smpl#	Age			Str/Smpl#				
37	EF	1	1	RB	75		U	U									
37	EF	1	1	RB	55		U	U									
37	EF	1	1	RB	70		U	U									
37	EF	1	1	RB	85		U	U									
37	EF	1	1	RB	60		U	U									
37	EF	1	1	RB	55		U	U									
37	EF	1	1	RB	65		U	U									
37	EF	1	1	RB	85		U	U									
37	EF	1	1	RB	80		U	U									
37	EF	1	1	CO	50		U	U									
37	EF	1	1	CO	55		U	U									
37	EF	1	1	CO	50		U	U									
37	EF	1	1	CO	65		U	U									
37	EF	1	1	CO	70		U	U									
37	EF	1	1	CO	70		U	U									
37	EF	1	1	CO	60		U	U									
37	EF	1	1	CO	60		U	U									
37	EF	1	1	CO	70		U	U									
37	EF	1	1	CO	70		U	U									
37	EF	1	1	CO	55		U	U									
37	EF	1	1	CO	60		U	U									



Site #37, downstream photo of riffle pool habitat.
Roll #62, Frame #15, Date: 2001/08/15



Site #37, upstream photo of habitat.
Roll #62, Frame #16, Date: 2001/08/15



Site #37, upstream photo of 7 m falls.
Roll #62, Frame #17, Date: 2001/08/15



Site #37, upstream photo of 2nd 7 m falls.
Roll #62, Frame #18, Date: 2001/08/15

FDIS Reach/Site Summary

South Fulton Study Area

Watershed Code: 480-770700-00000-00000-0000-000-000-000-000-000

Reach # ILP Map # ILP #

9.0

STREAM REFERENCING									
Gazetted Name:					Local Name:				
Watershed Code: 480-770700-00000-00000-0000-000-000-000-000-000					ILP Map #:		ILP #:		
REACH									
Reach #: 9.0		UTM(Zone/East/North): 9.689206.6059465				Sample Type: Biased			
Length (km): 1.00		Coupling: Partially Couple		Magnitude: 6		BGC Zone: ESSF			
Gradient (%): 6.0		Confinement: Confined		Order: 3		Open water: Absent			
US Elev (m): 1289		Islands: NONE		Riparian Vegetation: Coniferous					
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified									
SITE									
Site #: 38		Field UTM ..		Agency: C172		Crew: DT/JD		Date: 2001/08/15	
Site Length (m): 300		GIS UTM 9.689773.6059781		Agency Name: Triton Environmental Consultants (Terrace)					
CHANNEL									
No Vis.Ch.: ☐		Intermittent: ☐		Avg		Min		Max	
Dewatered: ☐		Tribes: ☐		Channel Width (m): 2.62		2.1		3.200	
Stage: Low ☒				Wetted Width (m): 1.30		1.100		1.600	
Med ☐				Bankfull Depth (m): 0.60		0.5		0.7	
High ☐				Temp (C): 9		pH: 8.1		Conductivity: 30	
								Turbidity: Turbid ☐ Low ☐	
								Moderate ☐ Clear ☒	
MORPHOLOGY									
Bed Material: Dominant: Cobble		D95 (cm): 100.00		Bars: Non ☒		Side ☐		Diagonal ☐	
Subdominant: Gravels		D (cm): 10.00						Mid-channel ☐	
Channel Pattern: Sinuous		Islands: None		DISTURBANCE		O1		B1 B2 B3 D1 D2 D3	
Coupling: Partially Coupled				INDICATORS					
Confinement: Frequently Confined				C1 C2 C3 C4 C5 S1 S2 S3 S4 S5					
Morphology: CP Cascade Pool									
COVER									
Total Cover: Abundant		Type: SWD LWD B U DP OV IV							
LWD: Few		Amount: T D S S T T T							
LWD Dist: Clumped		Location: P/S/O: ☒ ☒ ☒ ☒ ☒ ☒ ☒						FSZ: ☐	
Right Bank: Shape: Overhang		Texture: Fines ☒ Gravel ☐ Cobble ☐ Boulder ☐ Rock ☐ Manmade ☐						Crown Closure	
Left Bank: Shape: Overhang		Texture: Fines ☒ Gravel ☐ Cobble ☐ Boulder ☐ Rock ☐ Manmade ☐						21-40%	
Right Bank: Rip.Veg: Coniferous		Stage: Mature forest							
Left Bank: Rip.Veg:		Stage: Mature forest		Instream Veg: None ☐ Algae ☐ Moss ☒ Vascular ☐					
FISH									
Site Number	Capture Method	Number of Events	Length fished (m)	Total Time	Voltage	Species	Total Fish	Minimum Length (mm)	Maximum Length (mm)
38	EF	1	300	356 sec	900	NFC	0		

FDIS Site Card

South Fulton Study Area

Watershed Code: 480-770700-00000-00000-0000-000-000-000-000-000-000

Reach # 9.0 ILP Map # ILP # Site 38

PROJECT																																																																															
Project Name: Smithers Landing Fish Inventory - 2000										Project Code: 3496																																																																					
Stream Name (gaz.): BABINE RIVER																																																																															
Project Watershed Code: 480-000000-00000-00000-0000-000-000-000-000-000-000																																																																															
WATERSHED																																																																															
Gazetted Name:										Local Name: None																																																																					
Watershed Code: 480-770700-00000-00000-0000-000-000-000-000-000-000																																																																															
ILP Map#:		ILP #:		NID Map #: 093L.070		NID #: 10038		Reach #: 9.0		Site #: 38																																																																					
Field UTM (Z.E.N): ..				Method:		Site Lg: 300		Method: MAP		Access: H																																																																					
GIS UTM (Z.E.N): 9.689773.6059781						Ref. Name:																																																																									
Date: 2001/08/15		Time: 15:00		Agency: C172		Crew: DT/JD		Fish Crd?: ☒		Incomplete: ☐																																																																					
CHANNEL																																																																															
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>Mtd</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>Avg</th> </tr> </thead> <tbody> <tr> <td>Channel Width (m):</td> <td>T</td> <td>2.80</td> <td>2.90</td> <td>3.20</td> <td>2.10</td> <td>2.50</td> <td>2.20</td> <td></td> <td></td> <td></td> <td></td> <td>2.62</td> </tr> <tr> <td>Wetted Width (m):</td> <td>MS</td> <td>1.10</td> <td>1.20</td> <td>1.30</td> <td>1.10</td> <td>1.50</td> <td>1.60</td> <td></td> <td></td> <td></td> <td></td> <td>1.30</td> </tr> <tr> <td>Pool Depth (m):</td> <td>MS</td> <td>0.35</td> <td>0.40</td> <td>0.26</td> <td>0.51</td> <td>0.29</td> <td>0.30</td> <td></td> <td></td> <td></td> <td></td> <td>0.35</td> </tr> </tbody> </table>													Mtd	width	width	width	width	width	width	width	width	width	width	Avg	Channel Width (m):	T	2.80	2.90	3.20	2.10	2.50	2.20					2.62	Wetted Width (m):	MS	1.10	1.20	1.30	1.10	1.50	1.60					1.30	Pool Depth (m):	MS	0.35	0.40	0.26	0.51	0.29	0.30					0.35	<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>Gadient %</th> <th>Mtd</th> <th>Avg</th> </tr> </thead> <tbody> <tr> <td>Method I:</td> <td>4.0</td> <td>5.0</td> <td>C</td> <td>4.75</td> </tr> <tr> <td>Method II:</td> <td>6.0</td> <td>4.0</td> <td>C</td> <td></td> </tr> </tbody> </table>			Gadient %	Mtd	Avg	Method I:	4.0	5.0	C	4.75	Method II:	6.0	4.0	C	
	Mtd	width	width	width	width	width	width	width	width	width	width	Avg																																																																			
Channel Width (m):	T	2.80	2.90	3.20	2.10	2.50	2.20					2.62																																																																			
Wetted Width (m):	MS	1.10	1.20	1.30	1.10	1.50	1.60					1.30																																																																			
Pool Depth (m):	MS	0.35	0.40	0.26	0.51	0.29	0.30					0.35																																																																			
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Method I:	4.0	5.0	C	4.75																																																																											
Method II:	6.0	4.0	C																																																																												
Wb Depth: .6 .5 .7		Avg: 0.60		Method: MS		Stage: L ☒ M ☐ H ☐		No Vis.Ch.: ☐ Intermittent: ☐		Dw: ☐ Tribs.: ☐																																																																					
COVER Total: A <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Type:</th> <th>SWD</th> <th>LWD</th> <th>B</th> <th>U</th> <th>DP</th> <th>OV</th> <th>IV</th> </tr> </thead> <tbody> <tr> <td>Amount:</td> <td>T</td> <td>D</td> <td>S</td> <td>S</td> <td>T</td> <td>T</td> <td>T</td> </tr> <tr> <td>Loc: P/S/O:</td> <td>☒</td> <td>☒</td> <td>☒</td> <td>☒</td> <td>☒</td> <td>☒</td> <td>☒</td> </tr> </tbody> </table> LWD: F DIST: C LB SHP: O Texture: F ☒ G ☐ C ☐ B ☐ R ☐ A ☐ RIP: C STG: MF CROWN CLOSURE 2 21-40% INSTREAM VEG: N ☐ A ☐ M ☒ V ☐ RB SHP: O Texture: F ☒ G ☐ C ☐ B ☐ R ☐ A ☐ RIP: C STG: MF														Type:	SWD	LWD	B	U	DP	OV	IV	Amount:	T	D	S	S	T	T	T	Loc: P/S/O:	☒	☒	☒	☒	☒	☒	☒																																										
Type:	SWD	LWD	B	U	DP	OV	IV																																																																								
Amount:	T	D	S	S	T	T	T																																																																								
Loc: P/S/O:	☒	☒	☒	☒	☒	☒	☒																																																																								
WATER																																																																															
EMS:				Method: T4				Req #:				Method: S3																																																																			
Temp: 9				Method: P2				Cond.: 30				Method: GE																																																																			
pH: 8.1				Method: GE				Turb.: T ☐ M ☐ L ☐ C ☒																																																																							
Flood Signs: None																																																																															
MORPHOLOGY																																																																															
Bed Material:		Dominant: C		Subdom: G		O1 B1 B2 B3 D1 D2 D3																																																																									
D95: 100.0		D (cm): 10.00		Morph: CP		DISTURBANCE INDICATORS																																																																									
Pattern: SI						C1 C2 C3 C4 C5 S1 S2 S3 S4 S5																																																																									
Islands: N																																																																															
Coupling: PC																																																																															
Confinement: FC																																																																															
FSZ: ☐						Bars: N ☒ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR ☐																																																																									
HABITAT QUALITY																																																																															
Name		Comments																																																																													
Overwinter Habitat		Overwintering habitat present																																																																													
Spawning Habitat		Poor spawning habitat-substrates too large for resident trout																																																																													
Rearing Habitat		Moderate rearing habitat-abundant cover and pools, adequate flows																																																																													
PHOTOS																																																																															
Photo		Foc Lg		Dir		Comments																																																																									
R: 62	F: 19	STD		D		downstream photo of substrates																																																																									
R: 62	F: 20	STD		U		upstream photo of cascade/pool habitat																																																																									
R: 62	F: 21	STD		U		upstream photo of substrates																																																																									

FDIS Site Card

South Fulton Study Area

Watershed Code: 480-770700-00000-00000-0000-0000-000-000-000-000-000

Reach #

ILP Map #

ILP #

Site

9.0

38

COMMENTS	
Section	Comments
CHANNEL	Falls downstream prevent upstream fish migration
CHANNEL	S6 Stream

FDIS Fish Card

South Fulton Study Area

Watershed Code: 480-770700-00000-00000-0000-000-000-000-000-000-000

Reach # ILP Map # ILP #
9.0

WATERBODY													
Gazetted Name:										Local: None			
Project Code: 480-000000-00000-00000-0000-000-000-000-000-000-0													
WS Code: 480-770700-00000-00000-0000-000-000-000-000-000-000													
Waterbody ID:				ILP Map #:				ILP #:		Reach #: 9 -			
Project ID: 3496				Lake/Stream: S				Lake From Date:					
Fish Permit #: 145085K			Date: 2001/08/15			To: 2001/08/15			Agency: C172		Crew: DT/JD		Resample: ☐
SITE / METHOD													
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO	Temp	Cond	Turbid	Comment			
38	93K.061	10038				GPU EF 1	9	30	C				
A. GEAR SETTINGS													
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment						
38	EF	1	1	2001/08/15	15:00	2001/08/15	16:00						
C. ELECTROFISHER SPECIFICATIONS													
Site#	MTD/NO	H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model		
38	EF	1	1	O	356	300.0	1.5	900	60	6	SMITH ROOT	12B	
FISH SUMMARY													
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	FishAct	Comment				
38	EF	1	1	NFC		0							



Site #38, downstream photo of substrates.
Roll #62, Frame #19, Date: 2001/08/15



Site #38, upstream photo of cascade/pool habitat.
Roll #62, Frame #20, Date: 2001/08/15



Site #38, upstream photo of substrates.
Roll #62, Frame #21, Date: 2001/08/15

FDIS Site Card

South Fulton Study Area

Watershed Code: 480-770700-73000-00000-00000-00000-00000-00000-000

Reach # 1.0 ILP Map # 093L.070 ILP # 10318 Site 39

PROJECT																																																																														
Project Name: Smithers Landing Fish Inventory - 2000										Project Code: 3496																																																																				
Stream Name (gaz.): BABINE RIVER																																																																														
Project Watershed Code: 480-000000-00000-00000-00000-00000-00000-00000-00000-000																																																																														
WATERSHED																																																																														
Gazetted Name:										Local Name: None																																																																				
Watershed Code: 480-770700-73000-00000-00000-00000-00000-00000-00000-000																																																																														
ILP Map#: 093L.070			ILP #: 10318			NID Map #: 093L.070			NID #: 10039			Reach #: 1.0		Site #: 39																																																																
Field UTM (Z.E.N): ..					Method:					Site Lg: 200		Method: MAP		Access: H																																																																
GIS UTM (Z.E.N): 9.689979.6059596										Ref. Name:																																																																				
Date: 2001/08/15			Time: 16:40			Agency: C172			Crew: JD/DT			Fish Crd?: ☒		Incomplete: ☐																																																																
CHANNEL																																																																														
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>Mtd</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>Avg</th> </tr> </thead> <tbody> <tr> <td>Channel Width (m):</td> <td>MS</td> <td>1.60</td> <td>1.20</td> <td>1.40</td> <td>1.30</td> <td>1.60</td> <td>1.10</td> <td></td> <td></td> <td></td> <td></td> <td>1.37</td> </tr> <tr> <td>Wetted Width (m):</td> <td>MS</td> <td>0.70</td> <td>0.60</td> <td>0.70</td> <td>0.80</td> <td>0.50</td> <td>0.60</td> <td></td> <td></td> <td></td> <td></td> <td>0.65</td> </tr> <tr> <td>Pool Depth (m):</td> <td>MS</td> <td>0.20</td> <td>0.15</td> <td>0.15</td> <td>0.20</td> <td>0.10</td> <td>0.20</td> <td></td> <td></td> <td></td> <td></td> <td>0.17</td> </tr> </tbody> </table>													Mtd	width	width	width	width	width	width	width	width	width	width	Avg	Channel Width (m):	MS	1.60	1.20	1.40	1.30	1.60	1.10					1.37	Wetted Width (m):	MS	0.70	0.60	0.70	0.80	0.50	0.60					0.65	Pool Depth (m):	MS	0.20	0.15	0.15	0.20	0.10	0.20					0.17	<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>Gadient %</th> <th>Mtd</th> <th>Avg</th> </tr> </thead> <tbody> <tr> <td>Method I:</td> <td>6.0</td> <td>8.0</td> <td>C</td> </tr> <tr> <td>Method II:</td> <td>10.0</td> <td>6.0</td> <td>C</td> </tr> </tbody> </table>				Gadient %	Mtd	Avg	Method I:	6.0	8.0	C	Method II:	10.0	6.0	C
	Mtd	width	width	width	width	width	width	width	width	width	width	Avg																																																																		
Channel Width (m):	MS	1.60	1.20	1.40	1.30	1.60	1.10					1.37																																																																		
Wetted Width (m):	MS	0.70	0.60	0.70	0.80	0.50	0.60					0.65																																																																		
Pool Depth (m):	MS	0.20	0.15	0.15	0.20	0.10	0.20					0.17																																																																		
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Method I:	6.0	8.0	C																																																																											
Method II:	10.0	6.0	C																																																																											
Wb Depth: .4 .4 .4			Avg: 0.40			Method: MS			Stage: L ☒ M ☐ H ☐			No Vis.Ch.: ☐ Intermittent: ☐ Dw: ☐ Tribs.: ☐																																																																		
COVER Total: A <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Type:</th> <th>SWD</th> <th>LWD</th> <th>B</th> <th>U</th> <th>DP</th> <th>OV</th> <th>IV</th> </tr> </thead> <tbody> <tr> <td>Amount:</td> <td>T</td> <td>T</td> <td>T</td> <td>D</td> <td>N</td> <td>S</td> <td>T</td> </tr> <tr> <td>Loc: P/S/O:</td> <td>☒</td> <td>☒</td> <td>☒</td> <td>☒</td> <td>☐</td> <td>☒</td> <td>☒</td> </tr> </tbody> </table> LWD: F DIST: C LB SHP: O Texture: F ☒ G ☐ C ☐ B ☐ R ☐ A ☐ RIP: C STG: MF CROWN CLOSURE 2 21-40% INSTREAM VEG: N ☐ A ☐ M ☒ V ☒ RB SHP: O Texture: F ☒ G ☐ C ☐ B ☐ R ☐ A ☐ RIP: C STG: MF															Type:	SWD	LWD	B	U	DP	OV	IV	Amount:	T	T	T	D	N	S	T	Loc: P/S/O:	☒	☒	☒	☒	☐	☒	☒																																								
Type:	SWD	LWD	B	U	DP	OV	IV																																																																							
Amount:	T	T	T	D	N	S	T																																																																							
Loc: P/S/O:	☒	☒	☒	☒	☐	☒	☒																																																																							
WATER																																																																														
EMS:					Method: T4					Req #:																																																																				
Temp: 10					Method: P2					Cond.: 40																																																																				
pH: 8.1					Method: GE					Turb.: T ☐ M ☐ L ☐ C ☒																																																																				
Flood Signs: None										Method: S3																																																																				
										Method: GE																																																																				
MORPHOLOGY																																																																														
Bed Material: Dominant: C					Subdom: B					O1 B1 B2 B3 D1 D2 D3																																																																				
D95: 45.0 D (cm): 5.00					Morph: CP					<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> </tr> </table>					☐	☐	☐	☐	☐	☐	☐	☐																																																								
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Pattern: SI					DISTURBANCE INDICATORS					C1 C2 C3 C4 C5 S1 S2 S3 S4 S5																																																																				
Islands: N										<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> </tr> </table>					☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐																																																				
☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐																																																																			
Coupling: PC																																																																														
Confinement: FC																																																																														
FSZ: ☐					Bars: N ☒					SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR ☐																																																																				
HABITAT QUALITY																																																																														
Name					Comments																																																																									
OverWinter Habitat					No overwintering habitat																																																																									
Spawning Habitat					Poor spawning habitat-substrates too large, flows limited																																																																									
Rearing Habitat					Poor rearing habitat-low flows, shallow depth																																																																									
PHOTOS																																																																														
Photo			Foc Lg			Dir			Comments																																																																					
R:	62	F:	22	STD			U			upstream photo of cascade pool habitat																																																																				
R:	62	F:	23	STD			D			downstream photo of pool habitat																																																																				

FDIS Site Card

South Fulton Study Area

Watershed Code: 480-770700-73000-00000-0000-0000-000-000-000-000

Reach #	ILP Map #	ILP #	Site
1.0	093L.070	10318	39

COMMENTS	
Section	Comments
CHANNEL	Falls located on downstream mainstem prevent upstream fish migration
CHANNEL	S6 Stream

South Fulton Study Area

Watershed Code:

480-770700-73000-00000-0000-0000-000-000-000-000-000-000

Reach #	ILP Map #	ILP #
1.0	093L.070	10318

WATERBODY													
Gazetted Name:										Local: None			
Project Code: 480-000000-00000-00000-0000-000-000-000-000-0													
WS Code: 480-770700-73000-00000-0000-0000-000-000-000-000													
Waterbody ID:				ILP Map #: 093L070				ILP #:		10318		Reach #: 1 -	
Project ID: 3496				Lake/Stream: S				Lake From Date:					
Fish Permit #: 145085K				Date: 2001/08/15		To: 2001/08/15		Agency: C172		Crew: DT/JD		Resample: ☐	
SITE / METHOD													
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO	Temp	Cond	Turbid	Comment			
39	093L.070	10039				GPU EF 1	10	40	C				
A. GEAR SETTINGS													
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment						
39	EF	1	1	2001/08/15	16:50	2001/08/15	17:20						
C. ELECTROFISHER SPECIFICATIONS													
Site#	MTD/NO	H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model		
39	EF	1	1	O	359	400.0	1.0	700	60	6	SMITH ROOT	12B	
FISH SUMMARY													
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	FishAct	Comment				
39	EF	1	1	NFC		0							



Site #39, upstream photo of cascade pool habitat.
Roll #62, Frame #22, Date: 2001/08/15



Site #39, downstream photo of pool habitat.
Roll #62, Frame #23, Date: 2001/08/15

FDIS Reach/Site Summary

South Fulton Study Area

Watershed Code: 480-768300-00000-00000-00000-000-000-000-000-000

Reach # ILP Map # ILP #

2.0

STREAM REFERENCING									
Gazetted Name:					Local Name:				
Watershed Code: 480-768300-00000-00000-00000-000-000-000-000-000					ILP Map #:		ILP #:		
REACH									
Reach #: 2.0		UTM(Zone/East/North): 9.695350.6063743				Sample Type: Biased			
Length (km): .57		Coupling: Coupled		Magnitude: 16		BGC Zone: SBS			
Gradient (%): 11.8		Confinement: Confined		Order: 3		Open water: Absent			
US Elev (m): 806		Islands: NONE		Riparian Vegetation: Mixed C/D					
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified									
SITE									
Site #: 40		Field UTM ..		Agency: C172		Crew: JD/DT		Date: 2001/08/16	
Site Length (m): 400		GIS UTM 9.695640.6064090		Agency Name: Triton Environmental Consultants (Terrace)					
CHANNEL									
No Vis.Ch.: ☐		Intermittent: ☒							
Dewatered: ☐		Tribes: ☐							
Stage: Low ☒									
Med ☐									
High ☐									
Temp (C): 10		pH: 8.0		Conductivity: 110					
						Turbidity: Turbid ☐ Low ☐			
						Moderate ☐ Clear ☒			
MORPHOLOGY									
Bed Material: Dominant: Cobble		D95 (cm): 75.00		Bars: Non ☒		Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐			
Subdominant: Boulders		D (cm): 10.00				Braid ☐			
Channel Pattern: Sinuous		Islands: None		DISTURBANCE		O1 B1 B2 B3 D1 D2 D3			
Coupling: Coupled				INDICATORS					
Confinement: Confined				C1 C2 C3 C4 C5 S1 S2 S3 S4 S5					
Morphology: CP Cascade Pool									
COVER									
Total Cover: Abundant									
LWD: Few									
LWD Dist: Clumped									
		Type: SWD LWD B U DP OV IV							
		Amount: T T S T T D T							
		Location: P/S/O: ☒ ☒ ☒ ☒ ☒ ☒ ☒						FSZ: ☐	
Right Bank: Shape: Overhang		Texture: Fines ☒ Gravel ☐ Cobble ☐ Boulder ☐ Rock ☐ Manmade ☐						Crown Closure	
Left Bank: Shape: Overhang		Texture: Fines ☒ Gravel ☐ Cobble ☐ Boulder ☐ Rock ☐ Manmade ☐						21-40%	
Right Bank: Rip.Veg: Mixed C/D		Stage: Mature forest							
Left Bank: Rip.Veg:		Stage: Mature forest				Instream Veg: None ☐ Algae ☐ Moss ☒ Vascular ☐			
FEATURES									
NID Map	NID	Type	Hgt	Method	Lg	Method	Photo	AirPhoto	UTM (Z/E/N)
093K.061	88023	F	1.8	MS			R: 62 F: 24 L:	#:	9.695604.6063
Comments: Barrier to upstream fish migration									
FISH									
Site Number	Capture Method	Number of Events	Length fished (m)	Total Time	Voltage	Species	Total Fish	Minimum Length (mm)	Maximum Length (mm)
40	EF	1	200	69 sec	600	RB	3	140	180
41	EF	1	300	402 sec	600	NFC	0		
534	EF	1	450	400 sec	600	NFC	0		

FDIS Site Card

South Fulton Study Area

Watershed Code: 480-768300-00000-00000-0000-000-000-000-000-000-000

Reach # 2.0 ILP Map # ILP # Site 40

PROJECT

Project Name: Smithers Landing Fish Inventory - 2000
Stream Name (gaz.): BABINE RIVER
Project Watershed Code: 480-000000-00000-00000-0000-000-000-000-000-000-000

Project Code: 3496

WATERSHED

Gazetted Name: Watershed Code: 480-768300-00000-00000-0000-000-000-000-000-000-000
ILP Map#: ILP #: NID Map #: 093K.061 NID #: 10040 Reach #: 2.0 Site #: 40
Field UTM (Z.E.N): .. Method: Site Lg: 400 Method: MAP Access: H
GIS UTM (Z.E.N): 9.695640.6064090 Ref. Name:
Date: 2001/08/16 Time: 09:00 Agency: C172 Crew: JD/DT Fish Crd?: ☒ Incomplete: ☐

CHANNEL

	Mtd	width	width	width	width	width	width	width	width	width	width	Avg		Gadient %	Mtd	Avg	
Channel Width (m):	T	2.60	1.90	2.40	3.00	1.80	2.20					2.32	Method I:	12.0	15.0	C	14.50
Wetted Width (m):	T	0.39	0.45	0.60								0.48	Method II:	14.0	17.0	C	
Pool Depth (m):	MS	0.36	0.29	0.35								0.33					

Wb Depth: .5 .5 .4 Avg: 0.47 Method: MS Stage: L ☒ M ☐ H ☐

No Vis.Ch.: ☐ Intermittent: ☒
Dw: ☐ Tribs.: ☐

COVER Total: A

Type:	SWD	LWD	B	U	DP	OV	IV
Amount:	T	T	S	T	T	D	T
Loc: P/S/O:	☒	☒	☒	☒	☒	☒	☒

CROWN CLOSURE
2 21-40%

INSTREAM VEG: N ☐ A ☐ M ☒ V ☐

LWD: F DIST: C
LB SHP: O
Texture: F ☒ G ☐ C ☐ B ☐ R ☐ A ☐
RIP: M
STG: MF

RB SHP: O
Texture: F ☒ G ☐ C ☐ B ☐ R ☐ A ☐
RIP: M
STG: MF

WATER

EMS: Temp: 10 Method: T4 Req #: Cond.: 110 Method: S3
pH: 8.0 Method: P2 Turb.: T ☐ M ☐ L ☐ C ☒ Method: GE
Flood Signs: None Method: GE

MORPHOLOGY

Bed Material: Dominant: C Subdom: B O1 B1 B2 B3 D1 D2 D3
D95: 75.0 D (cm): 10.0 Morph: CP DISTURBANCE INDICATORS
Pattern: SI C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
Islands: N
Coupling: CO
Confinement: CO
FSZ: ☐ Bars: N ☒ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR ☐

FEATURES

NID Map	NID	Type	Hgt	Method	Lg	Method	Photo	AirPhoto	UTM (Z/E/N)	Method
093K.061	88023	F	1.8	MS			R: 62 F: 24 L: ☐	#: ☐	9.695604.6063981	GIS

Comments: Barrier to upstream fish migration

HABITAT QUALITY

Name	Comments
OverWinter Habitat	No overwintering habitat
Spawning Habitat	Poor spawning habitat-substrates too large, low flows
Rearing Habitat	Poor rearing habitat-subject to low flows, lower part of reach is dewatered

FDIS Site Card

South Fulton Study Area

Watershed Code: 480-768300-00000-00000-0000-000-000-000-000-000-000

Reach # ILP Map # ILP # Site
2.0 40

PHOTOS						
Photo		Foc Lg		Dir	Comments	
R:	06	F:	01	STD	D	downstream photo of cascade/pool habitat
R:	06	F:	02	STD	U	upstream photo of habitat
R:	62	F:	24	STD	U	photo of 1.8 m falls

COMMENTS	
Section	Comments
CHANNEL	Falls prevent upstream fish migration
CHANNEL	S3/S6 Stream

FDIS Fish Card

South Fulton Study Area

Watershed Code: 480-768300-00000-00000-0000-000-000-000-000-000-000

Reach # ILP Map # ILP #

2.0

WATERBODY															
Gazetted Name:										Local: None					
Project Code: 480-000000-00000-00000-0000-000-000-000-000-000-0															
WS Code: 480-768300-00000-00000-0000-000-000-000-000-000-000															
Waterbody ID:						ILP Map #:		ILP #:		Reach #:		2 -			
Project ID: 3496						Lake/Stream: S		Lake From Date:							
Fish Permit #: 145085K				Date: 2001/08/16		To: 2001/08/16		Agency: C172		Crew: JD/DT		Resample: ☐			
SITE / METHOD															
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO	Temp	Cond	Turbid	Comment					
534	093K.061	50034				GPU EF 1	5	40	C						
41	093K.061	10041				GPU EF 1	10	110	C						
40	093K.061	10040				GPU EF 1	10	110	C						
A. GEAR SETTINGS															
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment								
40	EF 1	1	2001/08/16	09:00	2001/08/16	09:30									
41	EF 1	1	2001/08/16	09:40	2001/08/16	10:30									
534	EF 1	1	2001/08/16	10:30	2001/08/16	11:10									
C. ELECTROFISHER SPECIFICATIONS															
Site#	MTD/NO	H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model				
40	EF	1	1	O	69	200.0	0.5	600	60	6	SMITH ROOT				
41	EF	1	1	O	402	300.0	0.5	600	60	6	SMITH ROOT				
534	EF	1	1	O	400	450.0	2.6	600	1	5	SMITH ROOT				
FISH SUMMARY															
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	FishAct	Comment						
40	EF	1	1	RB	A	3	140 180	R							
41	EF	1	1	NFC		0									
534	EF	1	1	NFC		0									
INDIVIDUAL FISH DATA															
Site#	MTD/NO	H/P	Species	Length	Weight	Sex	Mat	Age		Vch#	Genetic		Roll #	Frame#	Comment
								Str/Smpl#	Age		Str/Smpl#				
40	EF	1	1	RB	180		U	U							
40	EF	1	1	RB	140		U	U							
40	EF	1	1	RB	160		U	U							
COMMENTS															
Section								Comments							
WATERBODY								Channel De-watered in lower reach							



Site #40, photo of 1.8 m falls.
Roll #62, Frame #24, Date: 2001/08/16



Site #40, downstream photo of cascade/pool habitat.
Roll #6, Frame #01, Date: 2001/08/16



Site #40, upstream photo of habitat.
Roll #6, Frame #02, Date: 2001/08/16

FDIS Reach/Site Summary

South Fulton Study Area

Watershed Code: 480-768300-00000-00000-0000-000-000-000-000-000-000

Reach # ILP Map # ILP #

2.0

STREAM REFERENCING									
Gazetted Name:					Local Name:				
Watershed Code: 480-768300-00000-00000-0000-000-000-000-000-000-000					ILP Map #:		ILP #:		
REACH									
Reach #: 2.0		UTM(Zone/East/North): 9.695350.6063743				Sample Type: Biased			
Length (km): .57		Coupling: Coupled		Magnitude: 16		BGC Zone: SBS			
Gradient (%): 11.8		Confinement: Confined		Order: 3		Open water: Absent			
US Elev (m): 806		Islands: NONE		Riparian Vegetation: Mixed C/D					
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified									
SITE									
Site #: 40		Field UTM		Agency: C172		Crew: JD/DT		Date: 2001/08/16	
Site Length (m): 400		GIS UTM 9.695640.6064090		Agency Name: Triton Environmental Consultants (Terrace)					
CHANNEL									
No Vis.Ch.: ☐		Intermittent: ☒		Avg		Min		Max	
Dewatered: ☐		Tribes: ☐		Channel Width (m): 2.32		1.8		3	
Stage: Low ☒				Wetted Width (m): 0.48		0.39		0.600	
Med ☐				Bankfull Depth (m): 0.47		0.4		0.5	
High ☐									
Temp (C): 10		pH: 8.0		Conductivity: 110					
						Avg		Min	
						Gradient %: 14.50		12	
						Pool Depth (m): 0.33		0.29	
								Max	
								17	
								4	
								Turbidity: Turbid ☐	
								Low ☐	
								Moderate ☐	
								Clear ☒	
MORPHOLOGY									
Bed Material: Dominant: Cobble		D95 (cm): 75.00		Bars: Non ☒		Side ☐		Diagonal ☐	
Subdominant: Boulders		D (cm): 10.00						Mid-channel ☐	
Channel Pattern: Sinuous		Islands: None		DISTURBANCE INDICATORS		O1		B1	
Coupling: Coupled						B2		B3	
Confinement: Confined						D1		D2	
Morphology: CP Cascade Pool						D3			
						C1		C2	
						C3		C4	
						C5		S1	
						S2		S3	
						S4		S5	
COVER									
Total Cover: Abundant		Type: SWD		LWD		B		U	
LWD: Few		Amount: T		T		S		T	
LWD Dist: Clumped		Location: P/S/O: ☒		☒		☒		☒	
Right Bank: Shape: Overhang		Texture: Fines ☒		Gravel ☐		Cobble ☐		Boulder ☐	
Left Bank: Shape: Overhang		Texture: Fines ☒		Gravel ☐		Cobble ☐		Boulder ☐	
Right Bank: Rip.Veg: Mixed C/D		Stage: Mature forest		Stage: Mature forest		Instream Veg: None ☐		Algae ☐	
Left Bank: Rip.Veg:						Moss ☒		Vascular ☐	
FEATURES									
NID Map	NID	Type	Hgt	Method	Lg	Method	Photo	AirPhoto	UTM (Z/E/N)
093K.061	88023	F	1.8	MS			R: 62 F: 24 L:	#:	9.695604.6063
Comments: Barrier to upstream fish migration									
FISH									
Site Number	Capture Method	Number of Events	Length fished (m)	Total Time	Voltage	Species	Total Fish	Minimum Length (mm)	Maximum Length (mm)
40	EF	1	200	69 sec	600	RB	3	140	180
41	EF	1	300	402 sec	600	NFC	0		
534	EF	1	450	400 sec	600	NFC	0		

FDIS Fish Card

South Fulton Study Area

Reach # ILP Map # ILP #

Watershed Code: 480-768300-00000-00000-0000-000-000-000-000-000

2.0

WATERBODY																
Gazetted Name:										Local: None						
Project Code: 480-000000-00000-00000-0000-000-000-000-000-0																
WS Code: 480-768300-00000-00000-0000-000-000-000-000-000																
Waterbody ID:				ILP Map #:				ILP #:		Reach #:		2 -				
Project ID: 3496				Lake/Stream: S				Lake From Date:								
Fish Permit #:		145085K		Date:		2001/08/16		To:		2001/08/16		Agency: C172				
								Crew: JD/DT				Resample: ☐				
SITE / METHOD																
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO	Temp	Cond	Turbid	Comment						
534	093K.061	50034				GPU EF 1	5	40	C							
41	093K.061	10041				GPU EF 1	10	110	C							
40	093K.061	10040				GPU EF 1	10	110	C							
A GEAR SETTINGS																
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment									
40	EF 1	1	2001/08/16	09:00	2001/08/16	09:30										
41	EF 1	1	2001/08/16	09:40	2001/08/16	10:30										
534	EF 1	1	2001/08/16	10:30	2001/08/16	11:10										
C ELECTROFISHER SPECIFICATIONS																
Site#	MTD/NO	H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model					
40	EF	1	1	O	69	200.0	0.5	600	60	6	SMITH ROOT 12B					
41	EF	1	1	O	402	300.0	0.5	600	60	6	SMITH ROOT 12B					
534	EF	1	1	O	400	450.0	2.6	600	1	5	SMITH ROOT 12B					
FISH SUMMARY																
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	FishAct	Comment							
40	EF	1	1	RB	A	3	140 180	R								
41	EF	1	1	NFC		0										
534	EF	1	1	NFC		0										
INDIVIDUAL FISH DATA																
Site#	MTD/NO	H/P	Species	Length	Weight	Sex	Mat	Age		Vch#	Genetic		Roll #	Frame#	Comment	
								Str/Smpl#	Age		Str/Smpl#					
40	EF	1	1	RB	180		U	U								
40	EF	1	1	RB	140		U	U								
40	EF	1	1	RB	160		U	U								
COMMENTS																
Section				Comments												
WATERBODY				Channel De-watered in lower reach												

1.0

Triton Environmental Consultants Ltd.

FDIS Fish Card

South Fulton Study Area

Watershed Code: 480-770700-00000-00000-0000-000-000-000-000-000-000

Reach # 1.0
ILP Map #
ILP #

WATERBODY															
Gazetted Name:										Local: None					
Project Code: 480-000000-00000-00000-0000-000-000-000-000-000-0															
WS Code: 480-770700-00000-00000-0000-000-000-000-000-000-000															
Waterbody ID:				ILP Map #:				ILP #:		Reach #:		1 -			
Project ID: 3496				Lake/Stream: S				Lake From Date:							
Fish Permit #:		145085K		Date: 2001/08/15		To: 2001/08/15		Agency: C172		Crew: DT/JD		Resample: ☐			
SITE / METHOD															
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO	Temp	Cond	Turbid	Comment					
42	093K.061	10042				GPU EF 1	9	50	C						
37	093K.061	10037				GPU EF 1	9	50	C						
A. GEAR SETTINGS															
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment								
37	EF 1	1	2001/08/15	13:00	2001/08/15	13:30									
42	EF 1	1	2001/08/15	13:40	2001/08/15	14:50									
C. ELECTROFISHER SPECIFICATIONS															
Site#	MTD/NO	H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model				
37	EF	1	1	O	106	100.0	2.0	800	60	6	SMITH ROOT	12B			
42	EF	1	1	O	420	400.0	2.0	800	60	6	SMITH ROOT	12B			
FISH SUMMARY															
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	FishAct	Comment						
37	EF	1	1	CO	J	12	50 70	R							
37	EF	1	1	RB	J	9	55 85	R							
42	EF	1	1	NFC		0									
INDIVIDUAL FISH DATA															
Site#	MTD/NO	H/P	Species	Length	Weight	Sex	Mat	Age		Vch#	Genetic		Roll #	Frame#	Comment
								Str/Smpl#	Age		Str/Smpl#				
37	EF	1	1	RB	75		U	U							
37	EF	1	1	RB	55		U	U							
37	EF	1	1	RB	70		U	U							
37	EF	1	1	RB	85		U	U							
37	EF	1	1	RB	60		U	U							
37	EF	1	1	RB	55		U	U							
37	EF	1	1	RB	65		U	U							
37	EF	1	1	RB	85		U	U							
37	EF	1	1	RB	80		U	U							
37	EF	1	1	CO	50		U	U							
37	EF	1	1	CO	55		U	U							
37	EF	1	1	CO	50		U	U							
37	EF	1	1	CO	65		U	U							
37	EF	1	1	CO	70		U	U							
37	EF	1	1	CO	70		U	U							
37	EF	1	1	CO	60		U	U							
37	EF	1	1	CO	60		U	U							
37	EF	1	1	CO	70		U	U							
37	EF	1	1	CO	70		U	U							
37	EF	1	1	CO	55		U	U							
37	EF	1	1	CO	60		U	U							

FDIS Reach/Site Summary

South Fulton Study Area

Reach # ILP Map # ILP #

Watershed Code: 480-768300-00000-00000-0000-0000-000-000-000-000-000

6.0

STREAM REFERENCING									
Gazetted Name:					Local Name:				
Watershed Code: 480-768300-00000-00000-0000-0000-000-000-000-000					ILP Map #:		ILP #:		
REACH									
Reach #: 6.0		UTM(Zone/East/North): 9.692409.6063098				Sample Type: Biased			
Length (km): .67		Coupling: Decoupled		Magnitude: 8		BGC Zone: SBS			
Gradient (%): 1.8		Confinement: Occasionally Conf		Order: 2		Open water: Absent			
US Elev (m): 943		Islands: NONE		Riparian Vegetation: Deciduous					
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified									
SITE									
Site #: 43		Field UTM ..		Agency: C172		Crew: DT/JD		Date: 2001/08/16	
Site Length (m): 250		GIS UTM 9.692752.6063459		Agency Name: Triton Environmental Consultants (Terrace)					
CHANNEL									
No Vis.Ch.: ☐		Intermittent: ☐		Avg		Min		Max	
Dewatered: ☐		Tribes: ☐		Channel Width (m):		1.67		1.5	
Stage: Low ☒				Wetted Width (m):		1.05		0.800	
Med ☐				Bankfull Depth (m):		0.40		0.4	
High ☐		Temp (C): 11		pH: 8.1		Conductivity: 120		Turbidity: Turbid ☐ Low ☐	
								Moderate ☐ Clear ☒	
MORPHOLOGY									
Bed Material: Dominant: Fines		D95 (cm): 0.10		Bars: Non ☒		Side ☐		Diagonal ☐	
Subdominant: Not Applicable		D (cm): 0.10				Mid-channel ☐		Span ☐	
Channel Pattern: Regular Meanders		Islands: None		DISTURBANCE INDICATORS		O1 B1 B2 B3 D1 D2 D3			
Coupling: Decoupled									
Confinement: Unconfined									
Morphology: RP Riffle Pool									
COVER									
Total Cover: Abundant		Type: SWD LWD B U DP OV IV							
LWD: Few		Amount: D S N T S T T							
LWD Dist: Clumped		Location: P/S/O: ☒ ☒ ☐ ☐ ☒ ☒ ☒ ☒						FSZ: ☐	
Right Bank: Shape: Overhang		Texture: Fines ☒ Gravel ☐ Cobble ☐ Boulder ☐ Rock ☐ Manmade ☐						Crown Closure	
Left Bank: Shape: Overhang		Texture: Fines ☒ Gravel ☐ Cobble ☐ Boulder ☐ Rock ☐ Manmade ☐						1-20%	
Right Bank: Rip.Veg: Deciduous		Stage: Shrub/herb stage							
Left Bank: Rip.Veg:		Stage: Shrub/herb stage						Instream Veg: None ☐ Algae ☒ Moss ☐ Vascular ☒	
FISH									
Site Number	Capture Method	Number of Events	Length fished (m)	Total Time	Voltage	Species	Total Fish	Minimum Length (mm)	Maximum Length (mm)
43	EF	1	250	219 sec	500	NFC	0		

FDIS Site Card

South Fulton Study Area

Watershed Code: 480-768300-00000-00000-0000-000-000-000-000-000-000

Reach # 6.0 ILP Map # ILP # Site 43

PROJECT

Project Name: Smithers Landing Fish Inventory - 2000
Stream Name (gaz.): BABINE RIVER Project Code: 3496
Project Watershed Code: 480-000000-00000-00000-0000-000-000-000-000-000-000

WATERSHED

Gazetted Name: Local Name: None
Watershed Code: 480-768300-00000-00000-0000-000-000-000-000-000-000
ILP Map#: ILP #: NID Map #: 093L.070 NID #: 10043 Reach #: 6.0 Site #: 43
Field UTM (Z.E.N): .. Method: Site Lg: 250 Method: HC Access: H
GIS UTM (Z.E.N): 9.692752.6063459 Ref. Name:
Date: 2001/08/16 Time: 12:00 Agency: C172 Crew: DT/JD Fish Crd?: ☒ Incomplete: ☐

CHANNEL

	Mtd	width	width	width	width	width	width	width	width	width	width	Avg
Channel Width (m):	MS	1.60	1.50	1.80	2.00	1.50	1.60					1.67
Wetted Width (m):	MS	1.00	1.10	1.10	1.00	0.80	1.30					1.05
Pool Depth (m):	MS	0.32	0.29	0.41	0.26	0.30	0.20					0.30

	Gadient %		Mtd	Avg
Method I:	1.0	0.5	C	0.88
Method II:	1.0	1.0	C	

Wb Depth: .4 .4 .4 Avg: 0.40 Method: MS Stage: L ☒ M ☐ H ☐ No Vis.Ch.: ☐ Intermittent: ☐
Dw: ☐ Tribs.: ☐

COVER Total: A

Type:	SWD	LWD	B	U	DP	OV	IV
Amount:	D	S	N	T	S	T	T
Loc: P/S/O:	☒	☒	☐	☒	☒	☒	☒

CROWN CLOSURE

1 1-20%

INSTREAM VEG: N ☐ A ☒ M ☐ V ☒

LWD: F DIST: C

LB SHP: O

Texture: F ☒ G ☐ C ☐ B ☐ R ☐ A ☐

RIP: D

STG: SHR

RB SHP: O

Texture: F ☒ G ☐ C ☐ B ☐ R ☐ A ☐

RIP: D

STG: SHR

WATER

EMS: Temp: 11 Method: T4 Req #: Cond.: 120 Method: S3
pH: 8.1 Method: P2 Turb.: T ☐ M ☐ L ☐ C ☒ Method: GE
Flood Signs: None Method: GE

MORPHOLOGY

Bed Material: Dominant: F Subdom: NA O1 B1 B2 B3 D1 D2 D3
D95: 0.10 D (cm): 0.10 Morph: RP DISTURBANCE INDICATORS
Pattern: ME C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
Islands: N
Coupling: DC
Confinement: UN
FSZ: ☐ Bars: N ☒ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR ☐

HABITAT QUALITY

Name	Comments
Overwinter Habitat	No overwintering habitat observed
Spawning Habitat	No spawning habitat-100% fines, low flows
Rearing Habitat	Poor rearing habitat-100% fines, stagnant water, low flows

PHOTOS

Photo	Foc Lg	Dir	Comments
R: 06 F: 03	STD	D	downstream photo of instream vegetation
R: 06 F: 04	STD	U	upstream photo of channel substrates

FDIS Site Card

South Fulton Study Area

Watershed Code: 480-768300-00000-00000-0000-000-000-000-000-000

Reach #	ILP Map #	ILP #	Site
6.0			43

WILDLIFE	
Group	Observations
MAM	2 Lynx were observed
COMMENTS	
Section	Comments
CHANNEL	Falls downstream prevent upstream fish migration
CHANNEL	S6 Stream

FDIS Fish Card

South Fulton Study Area

Reach # ILP Map # ILP #

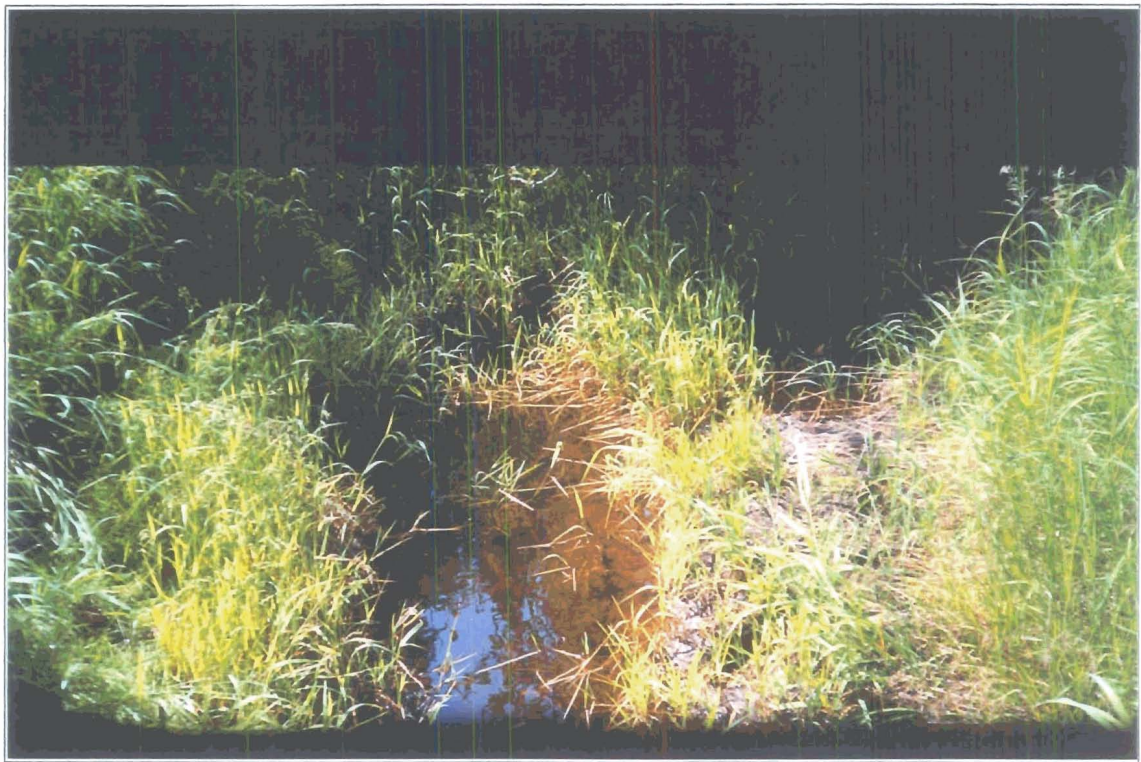
Watershed Code: 480-768300-00000-00000-0000-0000-000-000-000-000-000

6.0

WATERBODY												
Gazetted Name:										Local: None		
Project Code: 480-000000-00000-00000-0000-0000-000-000-000-000-0												
WS Code: 480-768300-00000-00000-0000-0000-000-000-000-000-000												
Waterbody ID:					ILP Map #:			ILP #:		Reach #: 6 -		
Project ID: 3496					Lake/Stream: S			Lake From Date:				
Fish Permit #:		145085K		Date: 2001/08/16		To: 2001/08/16		Agency: C172		Crew: JD/DT		Resample: ☐
SITE / METHOD												
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO	Temp	Cond	Turbid	Comment		
43	93L.070	10043				GPU EF 1	11	120	C			
A. GEAR SETTINGS												
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment					
43	EF 1	1	2001/08/16	12:00	2001/08/16	13:00						
C. ELECTROFISHER SPECIFICATIONS												
Site#	MTD/NO	H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model	
43	EF 1	1	O	219	250.0	1.1	500	60	6	SMITH ROOT	12B	
FISH SUMMARY												
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	FishAct	Comment			
43	EF 1	1	NFC			0						



Site #43, downstream photo of instream vegetation.
Roll #6, Frame #03, Date: 2001/08/16



Site #43, upstream photo of channel substrates.
Roll #6, Frame #04, Date: 2001/08/16

FDIS Reach/Site Summary

South Fulton Study Area

Watershed Code: 480-760400-61400-00000-0000-0000-000-000-000-000

Reach # ILP Map # ILP #

3.0 093L.080 10023

STREAM REFERENCING									
Gazetted Name:					Local Name:				
Watershed Code: 480-760400-61400-00000-0000-0000-000-000-000-000					ILP Map #: 093L.080		ILP #: 10023		
REACH									
Reach #: 3.0		UTM(Zone/East/North): 9.690449.6066599				Sample Type: Random			
Length (km): 1.21		Coupling: Decoupled		Magnitude: 3		BGC Zone: SBS			
Gradient (%): 5.3		Confinement: Occasionally Conf		Order: 2		Open water: Absent			
US Elev (m): 903		Islands: NONE		Riparian Vegetation: Coniferous					
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified									
SITE									
Site #: 44		Field UTM ..		Agency: C172		Crew: JD/DT		Date: 2001/08/16	
Site Length (m): 100		GIS UTM 9.691419.6066424		Agency Name: Triton Environmental Consultants (Terrace)					
CHANNEL									
No Vis.Ch.: ☐		Intermittent: ☐		Avg		Min		Max	
Dewatered: ☐		Tribes.: ☐		Channel Width (m): 1.45		1.3		1.600	
Stage: Low ☒				Wetted Width (m): 0.80		0.7		1	
Med ☐				Bankfull Depth (m): 0.43		0.4		0.5	
High ☐									
Temp (C): 10		pH: 8.2		Conductivity: 300					
						Turbidity: Turbid ☐		Low ☐	
						Moderate ☐		Clear ☒	
MORPHOLOGY									
Bed Material: Dominant: Fines		D95 (cm): 25.00		Bars: Non ☒		Side ☐		Diagonal ☐	
Subdominant: Gravels		D (cm): 2.00				Mid-channel ☐		Span ☐	
Channel Pattern: Sinuous		Islands: None		DISTURBANCE		O1		B1	
Coupling: Decoupled				INDICATORS		B2		B3	
Confinement: Occasionally Confine						D1		D2	
Morphology: RP Riffle Pool						D3			
				C1		C2		C3	
				C4		C5		S1	
				S2		S3		S4	
				S5					
COVER									
Total Cover: Abundant		Type: SWD		LWD		B		U	
LWD: Few		Amount: T		S		N		S	
LWD Dist: Evenly Distributed		Location: P/S/O:		☒		☒		☒	
				☒		☒		☒	
Right Bank: Shape: Overhang		Texture: Fines ☒		Gravel ☐		Cobble ☐		Boulder ☐	
Left Bank: Shape: Overhang		Texture: Fines ☒		Gravel ☐		Cobble ☐		Boulder ☐	
Right Bank: Rip.Veg: Coniferous		Stage: Mature forest							
Left Bank: Rip.Veg:		Stage: Mature forest		Instream Veg: None ☐		Algae ☐		Moss ☒	
								Vascular ☐	
FISH									
Site Number	Capture Method	Number of Events	Length fished (m)	Total Time	Voltage	Species	Total Fish	Minimum Length (mm)	Maximum Length (mm)
44	EF	1	100	116 sec	400	RB	7	25	70

FDIS Site Card

South Fulton Study Area

Watershed Code: 480-760400-61400-00000-00000-00000-00000-00000-000

Reach # 3.0 ILP Map # 093L.080 ILP # 10023 Site 44

PROJECT

Project Name: Smithers Landing Fish Inventory - 2000
Stream Name (gaz.): BABINE RIVER Project Code: 3496
Project Watershed Code: 480-000000-00000-00000-00000-00000-00000-00000-00000-000

WATERSHED

Gazetted Name: Local Name: None
Watershed Code: 480-760400-61400-00000-00000-00000-00000-00000-00000-000
ILP Map#: 093L.080 ILP #: 10023 NID Map #: 093L.080 NID #: 10044 Reach #: 3.0 Site #: 44
Field UTM (Z.E.N.): .. Method: Site Lg: 100 Method: HC Access: H
GIS UTM (Z.E.N.): 9.691419.6066424 Ref. Name:
Date: 2001/08/16 Time: 13:40 Agency: C172 Crew: JD/DT Fish Crd?: ☒ Incomplete: ☐

CHANNEL

	Mtd	width	width	width	width	width	width	width	width	width	width	Avg		Gadient %		Mtd	Avg
Channel Width (m):	MS	1.40	1.30	1.50	1.60	1.40	1.50					1.45	Method I:	1.0	2.0	C	1.50
Wetted Width (m):	MS	1.00	0.80	0.70	0.80	0.70	0.80					0.80	Method II:	2.0	1.0	C	
Pool Depth (m):	MS	0.10	0.15	0.20	0.10	0.15	0.10					0.13					

Wb Depth: .4 .4 .5 Avg: 0.43 Method: MS Stage: L ☒ M ☐ H ☐ No Vis.Ch.: ☐ Intermittent: ☐ Dw: ☐ Tribe: ☐

COVER Total: A

Type:	SWD	LWD	B	U	DP	OV	IV
Amount:	T	S	N	S	N	D	T
Loc: P/S/O:	☒	☒	☐	☒	☒	☒	☒

LWD: F DIST: E

LB SHP: O

Texture: F ☒ G ☐ C ☐ B ☐ R ☐ A ☐

RIP: C

STG: MF

CROWN CLOSURE

1 1-20%

INSTREAM VEG: N ☐ A ☐ M ☒ V ☐

RB SHP: O

Texture: F ☒ G ☐ C ☐ B ☐ R ☐ A ☐

RIP: C

STG: MF

WATER

EMS: Temp: 10 Method: T4 Req #: Cond.: 300 Method: S3
pH: 8.2 Method: P2 Turb.: T ☐ M ☐ L ☐ C ☒ Method: GE
Flood Signs: None Method: GE

MORPHOLOGY

Bed Material: Dominant: F Subdom: G O1 B1 B2 B3 D1 D2 D3
D95: 25.0 D (cm): 2.00 Morph: RP DISTURBANCE INDICATORS
Pattern: SI C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
Islands: N
Coupling: DC
Confinement: OC
FSZ: ☐ Bars: N ☒ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR ☐

HABITAT QUALITY

Name	Comments
OverWinter Habitat	No overwintering habitat
Spawning Habitat	Poor spawning habitat-low flows and abundant fines
Rearing Habitat	Poor rearing habitat-low flows and shallow pools

PHOTOS

Photo	Foc Lg	Dir	Comments
R: 06 F: 05	STD	U	upstream photo of LWD
R: 06 F: 06	STD	D	downstream photo of pool habitat

FDIS Site Card

South Fulton Study Area

Watershed Code: 480-760400-61400-00000-0000-0000-000-000-000-000-000

Reach #3.0

ILP Map #093L.080

ILP #10023

Site44

		COMMENTS	
Section	Comments		
CHANNEL	IS4 Stream		

South Fulton Study Area

480-760400-61400-00000-0000-0000-000-000-000-000-000-000

ILP #

3.0

093L.080

10023

Triton Environmental Consultants Ltd.



Site #44, upstream photo of LWD.
Roll #6, Frame #05, Date: 2001/08/16



Site #44, downstream photo of pool habitat.
Roll #6, Frame #06, Date: 2001/08/16

FDIS Reach/Site Summary

South Fulton Study Area

Watershed Code: 480-760400-00000-00000-0000-000-000-000-000-000-000

Reach # ILP Map # ILP #

6.0

STREAM REFERENCING									
Gazetted Name:					Local Name:				
Watershed Code: 480-760400-00000-00000-0000-000-000-000-000-000-000					ILP Map #:		ILP #:		
REACH									
Reach #: 6.0		UTM(Zone/East/North): 9.688588.6062044				Sample Type: Biased			
Length (km): .69		Coupling: Coupled		Magnitude: 4		BGC Zone: SBS			
Gradient (%): 5.9		Confinement: Confined		Order: 3		Open water: Absent			
US Elev (m): 1215		Islands: NONE		Riparian Vegetation: Coniferous					
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified									
SITE									
Site #: 45		Field UTM ..		Agency: C172		Crew: DT/JD		Date: 2001/08/16	
Site Length (m): 400		GIS UTM 9.688688.6062173		Agency Name: Triton Environmental Consultants (Terrace)					
CHANNEL									
No Vis.Ch.: ☐		Intermittent: ☐		Avg		Min		Max	
Dewatered: ☐		Tribes.: ☐		Channel Width (m):		1.73		1.5	
Stage: Low ☒				Wetted Width (m):		0.93		0.800	
Med ☐				Bankfull Depth (m):		0.43		0.4	
High ☐									
Temp (C): 10		pH: 8.0		Conductivity: 50					
						Turbidity: Turbid ☐		Low ☐	
								Moderate ☐	
								Clear ☒	
MORPHOLOGY									
Bed Material: Dominant: Cobble		D95 (cm): 40.00		Bars: Non ☒		Side ☐		Diagonal ☐	
Subdominant: Boulders		D (cm): 5.00				Mid-channel ☐		Span ☐	
Channel Pattern: Sinuous		Islands: None		DISTURBANCE		O1		B1	
Coupling: Coupled				INDICATORS		B2		B3	
Confinement: Confined						D1		D2	
Morphology: CP		Cascade Pool				D3			
				C1		C2		C3	
				C4		C5		S1	
				S2		S3		S4	
				S5					
COVER									
Total Cover: Abundant		Type: SWD		LWD		B		U	
LWD: Few		Amount: T		D		S		T	
LWD Dist: Evenly Distributed		Location: P/S/O:		☒		☒		☒	
				☒		☒		☒	
Right Bank: Shape: Sloping (g)		Texture: Fines ☐		Gravel ☒		Cobble ☒		Boulder ☐	
Left Bank: Shape: Sloping (g)		Texture: Fines ☐		Gravel ☒		Cobble ☒		Boulder ☐	
Right Bank: Rip.Veg: Coniferous		Stage: Mature forest		Instream Veg: None ☐		Algae ☐		Moss ☒	
Left Bank: Rip.Veg:		Stage: Mature forest				Vascular ☐			
FEATURES									
NID Map	NID	Type	Hgt	Method	Lg	Method	Photo		AirPhoto
093L.070	88024	C	1.2	GE	1	GE	R: 6	F: 9	L: #:
Comments: Barrier to upstream fish migration									
FISH									
Site Number	Capture Method	Number of Events	Length fished (m)	Total Time	Voltage	Species	Total Fish	Minimum Length (mm)	Maximum Length (mm)
45	EF	1	400	460 sec	800	NFC	0		

FDIS Site Card

South Fulton Study Area

Watershed Code: 480-760400-00000-00000-0000-000-000-000-000-000

Reach # 6.0 ILP Map # ILP # Site 45

PROJECT

Project Name: Smithers Landing Fish Inventory - 2000
Stream Name (gaz.): BABINE RIVER Project Code: 3496
Project Watershed Code: 480-000000-00000-00000-0000-000-000-000-000-000

WATERSHED

Gazetted Name: Local Name: None
Watershed Code: 480-760400-00000-00000-0000-000-000-000-000-000
ILP Map#: ILP #: NID Map #: 093L.070 NID #: 10045 Reach #: 6.0 Site #: 45
Field UTM (Z.E.N): .. Method: Site Lg: 400 Method: MAP Access: H
GIS UTM (Z.E.N): 9.688688.6062173 Ref. Name:
Date: 2001/08/16 Time: 16:00 Agency: C172 Crew: DT/JD Fish Crd?: ☒ Incomplete: ☐

CHANNEL

	Mtd	width	width	width	width	width	width	width	width	width	width	Avg
Channel Width (m):	MS	1.65	1.80	1.75	1.90	1.50	1.80					1.73
Wetted Width (m):	MS	1.00	0.90	0.80	0.90	1.00	1.00					0.93
Pool Depth (m):	MS	0.20	0.21	0.15	0.20	0.16	0.15					0.18

	Gadient %		Mtd	Avg
Method I:	6.0	8.0	C	7.00
Method II:	6.0	8.0	C	

Wb Depth: .4 .5 .4 Avg: 0.43 Method: MS Stage: L ☒ M ☐ H ☐

COVER

Total: A

Type:	SWD	LWD	B	U	DP	OV	IV
Amount:	T	D	S	T	T	T	T
Loc: P/S/O:	☒	☒	☒	☒	☒	☒	☒

CROWN CLOSURE

2 21-40%

INSTREAM VEG: N ☐ A ☐ M ☒ V ☐

LWD: F DIST: E

LB SHP: S

Texture: F ☐ G ☒ C ☒ B ☐ R ☐ A ☐

RIP: C

STG: MF

RB SHP: S

Texture: F ☐ G ☒ C ☒ B ☐ R ☐ A ☐

RIP: C

STG: MF

WATER

EMS: Req #: 50
Temp: 10 Method: T4 Cond.: 50 Method: S3
pH: 8.0 Method: P2 Method: GE
Flood Signs: None Method: GE
Turb.: T ☐ M ☐ L ☐ C ☒

MORPHOLOGY

Bed Material: Dominant: C Subdom: B O1 B1 B2 B3 D1 D2 D3
D95: 40.0 D (cm): 5.00 Morph: CP DISTURBANCE INDICATORS
Pattern: SI C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
Islands: N
Coupling: CO
Confinement: CO
FSZ: ☐
Bars: N ☒ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR ☐

FEATURES

NID Map	NID	Type	Hgt	Method	Lg	Method	Photo	AirPhoto	UTM (Z/E/N)	Method
093L.070	88024	C	1.2	GE	1	GE	R: 6 F: 9 L:	#:	9.688640.6062078	GIS

Comments: Barrier to upstream fish migration

HABITAT QUALITY

Name	Comments
OverWinter Habitat	No overwintering habitat
Spawning Habitat	Poor spawning habitat-gravels present, flows too low
Rearing Habitat	Poor rearing habitat-low flows, shallow pools

FDIS Site Card

South Fulton Study Area

Watershed Code: 480-760400-00000-00000-0000-0000-000-000-000-000-000

Reach #	ILP Map #	ILP #	Site
6.0			45

PHOTOS						
Photo			Foc Lg	Dir	Comments	
R:	06	F:	07	STD	U	upstream photo of representative habitat
R:	06	F:	08	STD	D	downstream photo of pool habitat
R:	06	F:	09	STD	U	upstream photo of 1.2 m cascade
COMMENTS						
Section			Comments			
CHANNEL			Falls downstream prevent upstream fish migration			
CHANNEL			S6 Stream			

FDIS Fish Card

South Fulton Study Area

Reach # ILP Map # ILP #

Watershed Code: 480-760400-00000-00000-0000-000-000-000-000-000-000

6.0

WATERBODY													
Gazetted Name:										Local: None			
Project Code: 480-000000-00000-00000-0000-000-000-000-000-000-0													
WS Code: 480-760400-00000-00000-0000-000-000-000-000-000-000													
Waterbody ID:				ILP Map #:				ILP #:		Reach #: 6 -			
Project ID: 3496				Lake/Stream: S				Lake From Date:					
Fish Permit #: 145085K			Date: 2001/08/16			To: 2001/08/16			Agency: C172		Crew: JD/DT		Resample: ☐
SITE / METHOD													
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO	Temp	Cond	Turbid	Comment			
45	093L.070	10045				GPU	EF	1	10	50	C		
A GEAR SETTINGS													
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment						
45	EF	1	1	2001/08/16	16:00	2001/08/16	17:10						
C ELECTROFISHER SPECIFICATIONS													
Site#	MTD/NO	H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model		
45	EF	1	1	O	460	400.0	1.0	800	60	6	SMITH ROOT	12B	
FISH SUMMARY													
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	FishAct	Comment				
45	EF	1	1	NFC		0							



Site #45, upstream photo of representative habitat.
Roll #6, Frame #07, Date: 2001/08/16



Site #45, downstream photo of pool habitat.
Roll #6, Frame #08, Date: 2001/08/16



Site #45, upstream photo of 1.2 m cascade.
Roll #6, Frame #09, Date: 2001/08/16

FDIS Reach/Site Summary

South Fulton Study Area

Watershed Code: 480-760400-00000-00000-0000-000-000-000-000-000

Reach # ILP Map # ILP #

5.0

STREAM REFERENCING									
Gazetted Name:					Local Name:				
Watershed Code: 480-760400-00000-00000-0000-000-000-000-000-000					ILP Map #:		ILP #:		
REACH									
Reach #: 5.0		UTM(Zone/East/North): 9.688509.6062627				Sample Type: Biased			
Length (km): 1.24		Coupling: Partially Couple		Magnitude: 5		BGC Zone: SBS			
Gradient (%): 6.9		Confinement: Entrenched		Order: 3		Open water: Absent			
US Elev (m): 1174		Islands: NONE		Riparian Vegetation: Coniferous					
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified									
SITE									
Site #: 46		Field UTM 9.688834.6063260		Agency: C172		Crew: JD/DT		Date: 2001/08/17	
Site Length (m): 400		GIS UTM 9.688804.6063221		Agency Name: Triton Environmental Consultants (Terrace)					
CHANNEL									
No Vis.Ch.: ☐		Intermittent: ☐		Avg		Min		Max	
Dewatered: ☐		Tribes.: ☐		Channel Width (m): 2.87		2.400		3.400	
Stage: Low ☒				Wetted Width (m): 1.62		1.200		2	
Med ☐				Bankfull Depth (m): 0.53		0.5		0.6	
High ☐									
Temp (C): 8		pH: 8.1		Conductivity: 50		Turbidity: Turbid ☐		Low ☐	
						Moderate ☐		Clear ☒	
MORPHOLOGY									
Bed Material: Dominant: Gravels		D95 (cm): 30.00		Bars: Non ☐		Side ☒		Diagonal ☐	
Subdominant: Cobble		D (cm): 10.00				Mid-channel ☐		Span ☐	
Channel Pattern: Sinuous		Islands: None		DISTURBANCE		O1		B1 B2 B3 D1 D2 D3	
Coupling: Partially Coupled				INDICATORS		☐		☐	
Confinement: Frequently Confined				C1 C2 C3 C4 C5 S1 S2 S3 S4 S5		☐		☐	
Morphology: RP Riffle Pool						☐		☐	
COVER									
Total Cover: Abundant		Type: SWD		LWD		B		U	
LWD: Few		Amount: T		D		T		S	
LWD Dist: Clumped		Location: P/S/O:		☒		☒		☒	
Right Bank: Shape: Overhang		Texture: Fines ☒		Gravel ☐		Cobble ☐		Boulder ☐	
Left Bank: Shape: Overhang		Texture: Fines ☒		Gravel ☐		Cobble ☐		Boulder ☐	
Right Bank: Rip.Veg: Coniferous		Stage: Mature forest		Instream Veg: None ☒		Algae ☐		Moss ☐	
Left Bank: Rip.Veg:		Stage: Mature forest				Vascular ☐			
FISH									
Site Number	Capture Method	Number of Events	Length fished (m)	Total Time	Voltage	Species	Total Fish	Minimum Length (mm)	Maximum Length (mm)
46	EF	1	400	386 sec	700	NFC	0		

FDIS Site Card

South Fulton Study Area

Watershed Code: 480-760400-00000-00000-0000-000-000-000-000-000-000

Reach # 5.0 ILP Map # ILP # Site 46

PROJECT																																																																																																																																				
Project Name: Smithers Landing Fish Inventory - 2000																																																																																																																																				
Stream Name (gaz.): BABINE RIVER										Project Code: 3496																																																																																																																										
Project Watershed Code: 480-000000-00000-00000-0000-000-000-000-000-000-000																																																																																																																																				
WATERSHED																																																																																																																																				
Gazetted Name:										Local Name: None																																																																																																																										
Watershed Code: 480-760400-00000-00000-0000-000-000-000-000-000-000																																																																																																																																				
ILP Map#:				ILP #:		NID Map #: 093L.070		NID #: 10046		Reach #: 5.0		Site #: 46																																																																																																																								
Field UTM (Z.E.N): 9.688834.6063260				Method: GPU				Site Lg: 400		Method: MAP		Access: H																																																																																																																								
GIS UTM (Z.E.N): 9.688804.6063221								Ref. Name:																																																																																																																												
Date: 2001/08/17				Time: 09:09		Agency: C172		Crew: JD/DT		Fish Crd?: ☒		Incomplete: ☐																																																																																																																								
CHANNEL																																																																																																																																				
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Wb Depth:	.5	.6	.5	Avg: 0.53	Method: MS	Stage: L ☒ M ☐ H ☐	No Vis.Ch.: ☐	Intermittent: ☐	Dw: ☐	Tribs.: ☐																																																																																																																										
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LB SHP: O	RB SHP: O																																																																																																																																			
Texture: F ☒ G ☐ C ☐ B ☐ R ☐ A ☐	Texture: F ☒ G ☐ C ☐ B ☐ R ☐ A ☐																																																																																																																																			
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STG: MF	STG: MF																																																																																																																																			
WATER																																																																																																																																				
EMS:				Method: T4				Req #:				Method: S3																																																																																																																								
Temp: 8				Method: P2				Cond.: 50				Method: GE																																																																																																																								
pH: 8.1				Method: GE				Turb.: T ☐ M ☐ L ☐ C ☒																																																																																																																												
Flood Signs: None																																																																																																																																				
MORPHOLOGY																																																																																																																																				
Bed Material: Dominant: G Subdom: C				Morph: RP				O1 B1 B2 B3 D1 D2 D3																																																																																																																												
D95: 30.0 D (cm): 10.00								<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td> </tr> </table>						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐																																																																																																											
☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐																																																																																																																									
Pattern: SI				DISTURBANCE INDICATORS				C1 C2 C3 C4 C5 S1 S2 S3 S4 S5																																																																																																																												
Islands: N								<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td> </tr> </table>						☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐																																																																																																											
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Coupling: PC								Bars: N ☐ SIDE ☒ DIAG ☐ MID ☐ SPAN ☐ BR ☐																																																																																																																												
Confinement: FC																																																																																																																																				
FSZ: ☐																																																																																																																																				
HABITAT QUALITY																																																																																																																																				
Name		Comments																																																																																																																																		
OverWinter Habitat		No overwintering habitat observed																																																																																																																																		
Spawning Habitat		Moderate spawning habitat-abundant gravels and suitable flows, limited by shallow depths																																																																																																																																		
Rearing Habitat		Moderate rearing habitat-lacks deep pools, adequate flows, abundant cover																																																																																																																																		
PHOTOS																																																																																																																																				
Photo		Foc Lg		Dir		Comments																																																																																																																														
R:	06	F:	10	STD		U		upstream photo of LWD plunge pool																																																																																																																												
R:	06	F:	11	STD		D		downstream photo of spanning LWD																																																																																																																												

FDIS Site Card

South Fulton Study Area

Watershed Code: 480-760400-00000-00000-0000-0000-000-000-000-000-000	Reach #	ILP Map #	ILP #	Site
	5.0			46

COMMENTS	
Section	Comments
CHANNEL	Falls located downstream prevents upstream fish migration
CHANNEL	S6 Stream

FDIS Fish Card

South Fulton Study Area

Watershed Code: 480-760400-00000-00000-0000-0000-000-000-000-000-000

Reach # ILP Map # ILP #
5.0

WATERBODY													
Gazetted Name:										Local: None			
Project Code: 480-000000-00000-00000-0000-0000-000-000-000-0													
WS Code: 480-760400-00000-00000-0000-0000-000-000-000-000													
Waterbody ID:					ILP Map #:			ILP #:		Reach #: 5 -			
Project ID: 3496					Lake/Stream: S			Lake From Date:					
Fish Permit #: 145085K			Date: 2001/08/17			To: 2001/08/17			Agency: C172		Crew: DT/JD		Resample: ☐
SITE / METHOD													
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd				MTD/NO	Temp	Cond	Turbid	Comment		
46	093L.070	10046	9	688834	6063260	GPU	EF 1	8	50	C			
A. GEAR SETTINGS													
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment						
46	EF	1	2001/08/17	09:00	2001/08/17	10:00							
C. ELECTROFISHER SPECIFICATIONS													
Site#	MTD/NO	H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model		
46	EF	1	1	O	386	400.0	1.6	700	60	6	SMITH ROOT	12B	
FISH SUMMARY													
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	FishAct	Comment				
46	EF	1	1	NFC		0							



Site #46, upstream photo of LWD plunge pool.
Roll #6, Frame #10, Date: 2001/08/17



Site #46, downstream photo of spanning LWD.
Roll #6, Frame #11, Date: 2001/08/17

FDIS Reach/Site Summary

South Fulton Study Area

Watershed Code: 480-760400-00000-00000-0000-000-000-000-000-000-000

Reach # ILP Map # ILP #

3.0

STREAM REFERENCING											
Gazetted Name:						Local Name:					
Watershed Code: 480-760400-00000-00000-0000-000-000-000-000-000-000						ILP Map #:			ILP #:		
REACH											
Reach #: 3.0		UTM(Zone/East/North): 9.690117.6065193				Sample Type: Biased					
Length (km): 2.72		Coupling: Coupled		Magnitude: 7		BGC Zone: SBS					
Gradient (%): 5.3		Confinement: Confined		Order: 3		Open water: Absent					
US Elev (m): 953		Islands: NONE		Riparian Vegetation: Mixed C/D							
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified											
SITE											
Site #: 47		Field UTM 9.690740.6065582		Agency: C172		Crew: JD/DT		Date: 2001/08/17			
Site Length (m): 200		GIS UTM 9.690773.6065556		Agency Name: Triton Environmental Consultants (Terrace)							
CHANNEL											
No Vis.Ch.: ☐		Intermittent: ☐		Avg		Min		Max		#	
Dewatered: ☐		Tribes.: ☐		Channel Width (m): 2.87		2.5		3.200		6	
Stage: Low ☒				Wetted Width (m): 1.57		1.200		1.8		6	
Med ☐				Bankfull Depth (m): 0.57		0.5		0.6		3	
High ☐				Temp (C): 8		pH: 8.1		Conductivity: 50			
								Turbidity: Turbid ☐		Low ☐	
								Moderate ☐		Clear ☒	
MORPHOLOGY											
Bed Material: Dominant: Gravels		D95 (cm): 30.00		Bars: Non ☐		Side ☒		Diagonal ☐		Mid-channel ☐	
Subdominant: Cobble		D (cm): 15.00								Span ☐	
Channel Pattern: Sinuous		Islands: None		DISTURBANCE		O1		B1		B2	
Coupling: Coupled				INDICATORS						D1	
Confinement: Confined										D2	
Morphology: RP		Riffle Pool								D3	
				C1		C2		C3		C4	
				C5		S1		S2		S3	
				S4		S5					
COVER											
Total Cover: Abundant		Type: SWD		LWD		B		U		DP	
LWD: Few		Amount: T		D		T		T		S	
LWD Dist: Evenly Distributed		Location: P/S/O: ☒		☒		☒		☒		☒	
Right Bank: Shape: Overhang		Texture: Fines ☒		Gravel ☐		Cobble ☐		Boulder ☐		Rock ☐	
Left Bank: Shape: Overhang		Texture: Fines ☒		Gravel ☐		Cobble ☐		Boulder ☐		Rock ☐	
Right Bank: Rip. Veg: Mixed C/D		Stage: Mature forest		Instream Veg: None ☒		Algae ☐		Moss ☐		Vascular ☐	
Left Bank: Rip. Veg:		Stage: Mature forest									
FEATURES											
NID Map	NID	Type	Hgt	Method	Lg	Method	Photo			AirPhoto	
093L.070	88027	F	4.0	GE	1	HC	R: 6	F: 15	L:	#:	9.690180.6065
Comments:											
NID Map	NID	Type	Hgt	Method	Lg	Method	Photo			AirPhoto	
093L.070	88026	F	3.5	GE	1	GE	R: 6	F: 14	L:	#:	9.690219.6065
Comments: Barrier to upstream fish migration											
FISH											
Site Number	Capture Method	Number of Events	Length fished (m)	Total Time	Voltage	Species	Total Fish	Minimum Length (mm)	Maximum Length (mm)		
47	EF	1	100	109 sec	700	RB	3	75	98		
48	EF	1	400	382 sec	700	NFC	0				

FDIS Site Card

South Fulton Study Area

Watershed Code: 480-760400-00000-00000-0000-000-000-000-000-000-000

Reach # 3.0 ILP Map # ILP # Site 47

PROJECT																																																																														
Project Name: Smithers Landing Fish Inventory - 2000										Project Code: 3496																																																																				
Stream Name (gaz.): BABINE RIVER																																																																														
Project Watershed Code: 480-000000-00000-00000-0000-000-000-000-000-000-000																																																																														
WATERSHED																																																																														
Gazetted Name:										Local Name: None																																																																				
Watershed Code: 480-760400-00000-00000-0000-000-000-000-000-000-000																																																																														
ILP Map#:		ILP #:		NID Map #: 093L.080		NID #: 10047		Reach #: 3.0		Site #: 47																																																																				
Field UTM (Z.E.N): 9.690740.6065582				Method: GPU		Site Lg: 200		Method: HC		Access: H																																																																				
GIS UTM (Z.E.N): 9.690773.6065556						Ref. Name:																																																																								
Date: 2001/08/17			Time: 10:15		Agency: C172		Crew: JD/DT		Fish Crd?: ☒		Incomplete: ☐																																																																			
CHANNEL																																																																														
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>Mtd</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>Avg</th> </tr> </thead> <tbody> <tr> <td>Channel Width (m):</td> <td>MS</td> <td>3.10</td> <td>3.20</td> <td>3.00</td> <td>2.60</td> <td>2.50</td> <td>2.80</td> <td></td> <td></td> <td></td> <td></td> <td>2.87</td> </tr> <tr> <td>Wetted Width (m):</td> <td>MS</td> <td>1.80</td> <td>1.80</td> <td>1.50</td> <td>1.20</td> <td>1.50</td> <td>1.60</td> <td></td> <td></td> <td></td> <td></td> <td>1.57</td> </tr> <tr> <td>Pool Depth (m):</td> <td>MS</td> <td>0.41</td> <td>0.52</td> <td>0.46</td> <td>0.40</td> <td>0.29</td> <td>0.30</td> <td></td> <td></td> <td></td> <td></td> <td>0.40</td> </tr> </tbody> </table>													Mtd	width	width	width	width	width	width	width	width	width	width	Avg	Channel Width (m):	MS	3.10	3.20	3.00	2.60	2.50	2.80					2.87	Wetted Width (m):	MS	1.80	1.80	1.50	1.20	1.50	1.60					1.57	Pool Depth (m):	MS	0.41	0.52	0.46	0.40	0.29	0.30					0.40	<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>Gadiant %</th> <th>Mtd</th> <th>Avg</th> </tr> </thead> <tbody> <tr> <td>Method I:</td> <td>4.0 3.0</td> <td>C</td> <td>3.50</td> </tr> <tr> <td>Method II:</td> <td>3.0 4.0</td> <td>C</td> <td></td> </tr> </tbody> </table>				Gadiant %	Mtd	Avg	Method I:	4.0 3.0	C	3.50	Method II:	3.0 4.0	C	
	Mtd	width	width	width	width	width	width	width	width	width	width	Avg																																																																		
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Wb Depth:		.6	.5	.6	Avg: 0.57		Method: MS		Stage: L ☒ M ☐ H ☐		No Vis.Ch.: ☐ Intermittent: ☐ Dw: ☐ Tribs.: ☐																																																																			
COVER Total: A																																																																														
Type:		SWD	LWD	B	U	DP	OV	IV	CROWN CLOSURE																																																																					
Amount:		T	D	T	T	T	S	N	2 21-40%																																																																					
Loc: P/S/O:		☒	☒	☒	☒	☒	☒	☐	INSTREAM VEG: N ☒ A ☐ M ☐ V ☐																																																																					
LWD: F				DIST: E																																																																										
LB SHP: O				RB SHP: O																																																																										
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MORPHOLOGY																																																																														
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☐	☐	☐	☐	☐	☐	☐																																																																								
D95: 30.0		D (cm): 15.00						<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>C1</th><th>C2</th><th>C3</th><th>C4</th><th>C5</th><th>S1</th><th>S2</th><th>S3</th><th>S4</th><th>S5</th> </tr> </thead> <tbody> <tr> <td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td> </tr> </tbody> </table>							C1	C2	C3	C4	C5	S1	S2	S3	S4	S5	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐																																												
C1	C2	C3	C4	C5	S1	S2	S3	S4	S5																																																																					
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NID Map	NID	Type	Hgt	Method	Lg	Method	Photo		AirPhoto		UTM (Z/E/N)		Method																																																																	
093L.070	88027	F	4.0	GE	1	HC	R: 6	F: 15	L:	#:	9.690180.6065285		GIS																																																																	
Comments:																																																																														
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093L.070	88026	F	3.5	GE	1	GE	R: 6	F: 14	L:	#:	9.690219.6065314		GIS																																																																	
Comments: Barrier to upstream fish migration																																																																														
HABITAT QUALITY																																																																														
Name		Comments																																																																												

South Fulton Study Area

Watershed Code: 480-760400-000000-000000-0000-0000-000-000-000-000-000-000

3.0

47

Triton Environmental Consultants Ltd.

FDIS Fish Card

South Fulton Study Area

Watershed Code: 480-760400-00000-00000-0000-000-000-000-000-000-000

Reach # 3.0
ILP Map #
ILP #

WATERBODY															
Gazetted Name:										Local: None					
Project Code: 480-000000-00000-00000-0000-000-000-000-000-000-0															
WS Code: 480-760400-00000-00000-0000-000-000-000-000-000-000															
Waterbody ID:										ILP Map #:		ILP #:		Reach #: 3 -	
Project ID: 3496										Lake/Stream: S		Lake From Date:			
Fish Permit #:		145085K		Date: 2001/08/17		To: 2001/08/17		Agency: C172		Crew: JD/DT		Resample: ☐			
SITE / METHOD															
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO	Temp	Cond	Turbid	Comment					
48	093L.070	10048				GPU EF 1	8	50	C	Upstream of falls					
47	093L.080	10047				GPU EF 1	8	50	C						
A. GEAR SETTINGS															
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment								
47	EF	1	1	2001/08/17	10:15	2001/08/17	10:30								
48	EF	1	1	2001/08/17	10:50	2001/08/17	12:00								
C. ELECTROFISHER SPECIFICATIONS															
Site#	MTD/NO	H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model				
47	EF	1	1	O	109	100.0	1.5	700	60	6	SMITH	12B			
48	EF	1	1	O	382	400.0	1.6	700	60	6	SMITH	12B			
											ROOT				
											ROOT				
FISH SUMMARY															
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	FishAct	Comment						
47	EF	1	1	RB	J	3	75 98	R							
48	EF	1	1	NFC		0									
INDIVIDUAL FISH DATA															
Site#	MTD/NO	H/P	Species	Length	Weight	Sex	Mat	Age		Vch#	Genetic		Roll #	Frame#	Comment
								Str/Smpl#	Age		Str/Smpl#				
47	EF	1	1	RB	98		U	U							
47	EF	1	1	RB	75		U	U							
47	EF	1	1	RB	86		U	U							



Site #47, upstream photo of pool habitat.
Roll #6, Frame #12, Date: 2001/08/17



Site #47, downstream photo of substrates.
Roll #6, Frame #13, Date: 2001/08/17



Site #47, upstream photo of 3.5 m falls.
Roll #6, Frame #14, Date: 2001/08/17



Site #47, photo of 4 m falls.
Roll #6, Frame #15, Date: 2001/08/17

3.0

Triton Environmental Consultants Ltd.

FDIS Fish Card

South Fulton Study Area

Watershed Code: 480-760400-00000-00000-0000-000-000-000-000-000

Reach # ILP Map # ILP #
3.0

WATERBODY																
Gazetted Name:										Local: None						
Project Code: 480-000000-00000-00000-0000-000-000-000-000-0																
WS Code: 480-760400-00000-00000-0000-000-000-000-000-000																
Waterbody ID:				ILP Map #:				ILP #:		Reach #:		3 -				
Project ID: 3496				Lake/Stream: S				Lake From Date:								
Fish Permit #:		145085K		Date: 2001/08/17		To: 2001/08/17		Agency: C172		Crew: JD/DT		Resample: ☐				
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Site#	NID Map	NID #	UTM Zone/East/North/Mtd	MTD/NO	Temp	Cond	Turbid	Comment								
48	093L.070	10048		GPU EF 1	8	50	C	Upstream of falls								
47	093L.080	10047		GPU EF 1	8	50	C									
A. GEAR SETTINGS																
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment									
47	EF 1	1	2001/08/17	10:15	2001/08/17	10:30										
48	EF 1	1	2001/08/17	10:50	2001/08/17	12:00										
C. ELECTROFISHER SPECIFICATIONS																
Site#	MTD/NO	H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model					
47	EF	1	1	O	109	100.0	1.5	700	60	6	SMITH ROOT	12B				
48	EF	1	1	O	382	400.0	1.6	700	60	6	SMITH ROOT	12B				
FISH SUMMARY																
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	FishAct	Comment							
47	EF	1	1	RB	J	3	75 98	R								
48	EF	1	1	NFC		0										
INDIVIDUAL FISH DATA																
Site#	MTD/NO	H/P	Species	Length	Weight	Sex	Mat	Age		Vch#	Genetic		Roll #	Frame#	Comment	
								Str/Smpl#	Age		Str/Smpl#					
47	EF	1	1	RB	98		U	U								
47	EF	1	1	RB	75		U	U								
47	EF	1	1	RB	86		U	U								

FDIS Reach/Site Summary

South Fulton Study Area

Watershed Code: 480-735600-00000-00000-0000-000-000-000-000-000-000

Reach # 5.0 ILP Map # 093L.080 ILP # 10152

STREAM REFERENCING									
Gazetted Name:					Local Name:				
Watershed Code: 480-735600-00000-00000-0000-000-000-000-000-000-000					ILP Map #: 093L.080		ILP #: 10152		
REACH									
Reach #: 5.0		UTM(Zone/East/North): 9.686835.6068615				Sample Type: Biased			
Length (km): 1.20		Coupling: Decoupled		Magnitude: 1		BGC Zone: SBS			
Gradient (%): 2.2		Confinement: Unconfined		Order: 1		Open water: Present			
US Elev (m): 934		Islands: NONE		Riparian Vegetation: Deciduous					
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified									
SITE									
Site #: 49		Field UTM ..		Agency: C172		Crew: DT/JD		Date: 2001/08/17	
Site Length (m): 200		GIS UTM 9.687021.6068662		Agency Name: Triton Environmental Consultants (Terrace)					
CHANNEL									
No Vis.Ch.: ☐		Intermittent: ☐		Avg		Min		Max	
Dewatered: ☐		Tribes.: ☐		Channel Width (m): 0.97		0.600		1.200	
Stage: Low ☒				Wetted Width (m): 0.47		0.400		0.600	
Med ☐				Bankfull Depth (m): 0.27		0.2		0.3	
High ☐									
Temp (C): 11		pH: 7.4		Conductivity: 60		Turbidity: Turbid ☐		Low ☐	
						Moderate ☐		Clear ☒	
MORPHOLOGY									
Bed Material: Dominant: Fines		D95 (cm): 0.10		Bars: Non ☒		Side ☐		Diagonal ☐	
Subdominant: Not Applicable		D (cm): 0.10						Mid-channel ☐	
Channel Pattern: Sinuous		Islands: None		DISTURBANCE INDICATORS		O1		B1	
Coupling: Decoupled						B2		B3	
Confinement: Unconfined						D1		D2	
Morphology: LC Large Channel						D3			
						C1		C2	
						C3		C4	
						C5		S1	
						S2		S3	
						S4		S5	
COVER									
Total Cover: Abundant		Type: SWD		LWD		B		U	
LWD: Few		Amount: T		T		N		T	
LWD Dist: Clumped		Location: P/S/O:		☒		☒		☒	
				☒		☒		☒	
Right Bank: Shape: Sloping (g)		Texture: Fines ☒		Gravel ☐		Cobble ☐		Boulder ☐	
Left Bank: Shape: Sloping (g)		Texture: Fines ☒		Gravel ☐		Cobble ☐		Boulder ☐	
Right Bank: Rip.Veg: Deciduous		Stage: Pole-sapling stage		Stage: Pole-sapling stage		Instream Veg: None ☐		Algae ☒	
Left Bank: Rip.Veg:						Moss ☒		Vascular ☒	
FISH									
Site Number	Capture Method	Number of Events	Length fished (m)	Total Time	Voltage	Species	Total Fish	Minimum Length (mm)	Maximum Length (mm)
49	EF	1	200	161 sec	600	NFC	0		

FDIS Site Card

South Fulton Study Area

Watershed Code: 480-735600-00000-00000-0000-000-000-000-000-000-000

Reach # 5.0 ILP Map # 093L.080 ILP # 10152 Site 49

PROJECT																																																																													
Project Name: Smithers Landing Fish Inventory - 2000										Project Code: 3496																																																																			
Stream Name (gaz.): BABINE RIVER																																																																													
Project Watershed Code: 480-000000-00000-00000-0000-000-000-000-000-000-000																																																																													
WATERSHED																																																																													
Gazetted Name:										Local Name: None																																																																			
Watershed Code: 480-735600-00000-00000-0000-000-000-000-000-000-000																																																																													
ILP Map#: 093L.080				ILP #: 10152		NID Map #: 093L.080		NID #: 10049		Reach #: 5.0		Site #: 49																																																																	
Field UTM (Z.E.N): ..				Method:		Site Lg: 200		Method: MAP		Access: H																																																																			
GIS UTM (Z.E.N): 9.687021.6068662						Ref. Name:																																																																							
Date: 2001/08/17				Time: 13:00		Agency: C172		Crew: DT/JD		Fish Crd?: ☒		Incomplete: ☐																																																																	
CHANNEL																																																																													
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>Mtd</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>Avg</th> </tr> </thead> <tbody> <tr> <td>Channel Width (m):</td> <td>MS</td> <td>1.20</td> <td>0.60</td> <td>0.80</td> <td>0.90</td> <td>1.10</td> <td>1.20</td> <td></td> <td></td> <td></td> <td></td> <td>0.97</td> </tr> <tr> <td>Wetted Width (m):</td> <td>MS</td> <td>0.40</td> <td>0.50</td> <td>0.40</td> <td>0.60</td> <td>0.40</td> <td>0.50</td> <td></td> <td></td> <td></td> <td></td> <td>0.47</td> </tr> <tr> <td>Pool Depth (m):</td> <td>MS</td> <td>0.10</td> <td>0.10</td> <td>0.15</td> <td>0.10</td> <td>0.15</td> <td>0.10</td> <td></td> <td></td> <td></td> <td></td> <td>0.12</td> </tr> </tbody> </table>													Mtd	width	width	width	width	width	width	width	width	width	width	Avg	Channel Width (m):	MS	1.20	0.60	0.80	0.90	1.10	1.20					0.97	Wetted Width (m):	MS	0.40	0.50	0.40	0.60	0.40	0.50					0.47	Pool Depth (m):	MS	0.10	0.10	0.15	0.10	0.15	0.10					0.12	<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>Gadiant %</th> <th>Mtd</th> <th>Avg</th> </tr> </thead> <tbody> <tr> <td>Method I:</td> <td>1.0</td> <td>2.0</td> <td>C</td> </tr> <tr> <td>Method II:</td> <td>1.0</td> <td>1.0</td> <td>C</td> </tr> </tbody> </table>			Gadiant %	Mtd	Avg	Method I:	1.0	2.0	C	Method II:	1.0	1.0	C
	Mtd	width	width	width	width	width	width	width	width	width	width	Avg																																																																	
Channel Width (m):	MS	1.20	0.60	0.80	0.90	1.10	1.20					0.97																																																																	
Wetted Width (m):	MS	0.40	0.50	0.40	0.60	0.40	0.50					0.47																																																																	
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Method II:	1.0	1.0	C																																																																										
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Type:	SWD	LWD	B	U	DP	OV	IV																																																																						
Amount:	T	T	N	T	N	D	S																																																																						
Loc: P/S/O:	☒	☒	☐	☒	☐	☒	☒																																																																						
LWD: F DIST: C LB SHP: S Texture: F ☒ G ☐ C ☐ B ☐ R ☐ A ☐ RIP: D STG: PS												RB SHP: S Texture: F ☒ G ☐ C ☐ B ☐ R ☐ A ☐ RIP: D STG: PS																																																																	
WATER																																																																													
EMS:						Req #:																																																																							
Temp: 11						Method: T4				Cond.: 60																																																																			
pH: 7.4						Method: P2				Method: S3																																																																			
Flood Signs: None						Method: GE				Turb.: T ☐ M ☐ L ☐ C ☒ Method: GE																																																																			
MORPHOLOGY																																																																													
Bed Material: Dominant: F Subdom: NA						O1 B1 B2 B3 D1 D2 D3																																																																							
D95: 0.10 D (cm): 0.10 Morph: LC						<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td> </tr> </table>								☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐																																																			
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Pattern: SI						DISTURBANCE INDICATORS																																																																							
Islands: N						C1 C2 C3 C4 C5 S1 S2 S3 S4 S5																																																																							
Coupling: DC						<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td> </tr> </table>								☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐																																																			
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Confinement: UN						Bars: N ☒ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR ☐																																																																							
FSZ: ☐																																																																													
HABITAT QUALITY																																																																													
Name						Comments																																																																							
OverWinter Habitat						No overwintering habitat																																																																							
Spawning Habitat						No spawning habitat-100% fines, stagnant water																																																																							
Rearing Habitat						Poor rearing habitat-stagnant pools, low dissolved oxygen, anaerobic conditions																																																																							
PHOTOS																																																																													
Photo		Foc Lg		Dir		Comments																																																																							
R: 06	F: 16	STD		U		upstream photo of stagnant pools																																																																							
R: 06	F: 17	STD		D		downstream photo showing red algae																																																																							

FDIS Site Card

South Fulton Study Area

Watershed Code: 480-735600-00000-00000-0000-000-000-000-000-000-000

Reach #	ILP Map #	ILP #	Site
5.0	093L.080	10152	49

COMMENTS	
Section	Comments
CHANNEL	No barriers to upstream fish migration were identified
CHANNEL	S4 Inferred



Site #49, upstream photo of stagnant pools.
Roll #6, Frame #16, Date: 2001/08/17



Site #49, downstream photo showing red algae.
Roll #6, Frame #17, Date: 2001/08/17

FDIS Reach/Site Summary

South Fulton Study Area

Watershed Code: 480-735600-41622-00000-0000-0000-000-000-000-000

Reach # 3.0 ILP Map # 093L.080 ILP # 10034

STREAM REFERENCING									
Gazetted Name:					Local Name:				
Watershed Code: 480-735600-41622-00000-0000-000-000-000-000-000					ILP Map #: 093L.080		ILP #: 10034		
REACH									
Reach #: 3.0		UTM(Zone/East/North): 9.687363.6070017				Sample Type: Biased			
Length (km): .75		Coupling: Partially Couple		Magnitude: 1		BGC Zone: SBS			
Gradient (%): 0.9		Confinement: Occasionally Conf		Order: 1		Open water: Absent			
US Elev (m): 877		Islands: NONE		Riparian Vegetation: Mixed C/D					
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified									
SITE									
Site #: 50		Field UTM ..		Agency: C172		Crew: JD/DT		Date: 2001/08/17	
Site Length (m): 300		GIS UTM 9.687662.6069821		Agency Name: Triton Environmental Consultants (Terrace)					
CHANNEL									
No Vis.Ch.: ☒		Intermittent: ☐		Avg		Min		Max	
Dewatered: ☐		Tribes.: ☐		Channel Width (m): 0.00		0		0	
Stage: Low ☐				Wetted Width (m): 0.00		0		0	
Med ☐				Bankfull Depth (m): 0.00		0		0	
High ☐									
Temp (C):		pH:		Conductivity:		Turbidity: Turbid ☐		Low ☐	
						Moderate ☐		Clear ☐	
MORPHOLOGY									
Bed Material: Dominant:		D95 (cm):		Bars: Non ☐		Side ☐		Diagonal ☐	
Subdominant:		D (cm):				Mid-channel ☐		Span ☐	
Channel Pattern:		Islands:		DISTURBANCE		O1		B1	
Coupling:				INDICATORS		B2		B3	
Confinement:				C1		C2		C3	
Morphology:				C4		C5		S1	
				C6		S2		S3	
				C7		S4		S5	
				C8		S6		S7	
				C9		S8		S9	
				C10		S10		S11	
				C11		S12		S13	
				C12		S14		S15	
				C13		S16		S17	
				C14		S18		S19	
				C15		S20		S21	
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				C17		S24		S25	
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				C24		S38		S39	
				C25		S40		S41	
				C26		S42		S43	
				C27		S44		S45	
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				C29		S48		S49	
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				C31		S52		S53	
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				C81		S152		S153	
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				C83		S156		S157	
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				C91		S172		S173	
				C92		S174		S175	
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				C94		S178		S179	
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				C135		S260		S261	
				C136		S262		S263	
				C137		S264		S265	
				C138		S266		S267	
				C139		S268		S269	
				C140		S270		S271	
				C141		S272		S273	
				C142		S274		S275	
				C143		S276		S277	
				C144		S278		S279	
				C145		S280		S281	
				C146		S282		S283	
				C147		S284		S285	
				C148		S286		S287	
				C149		S288		S289	
				C150		S290		S291	
				C151		S292		S293	
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				C164		S318		S319	
				C165		S320		S321	
				C166		S322		S323	
				C167		S324		S325	
				C168		S326		S327	
				C169		S328		S329	
				C170		S330		S331	
				C171		S332		S333	
				C172		S334		S335	
				C173		S336		S337	
				C174		S338		S339	
				C175		S340		S341	
				C176		S342		S343	
				C177		S344		S345	
				C178		S346		S347	
				C179		S348		S349	
				C180		S350		S351	
				C181		S352		S353	
				C182		S354		S355	
				C183		S356		S357	
				C184		S358		S359	
				C185		S360		S361	
				C186		S362		S363	
				C187		S364		S365	
				C188		S366		S367	
				C189		S368		S369	
				C190		S370		S371	
				C191		S372		S373	
				C192		S374		S375	
				C193		S376		S377	
				C194		S378		S379	
				C195		S380		S381	
				C196		S382		S383	
				C197		S384		S385	
				C198		S386		S387	
				C199		S388		S389	
				C200		S390		S391	
				C201		S392		S393	
				C202		S394		S395	
				C203		S396		S397	
				C204		S398		S399	
				C205		S399		S400	
				C206		S400		S401	
				C207					

FDIS Site Card

South Fulton Study Area

Watershed Code: 480-735600-41622-00000-0000-0000-000-000-000-000-000

Reach # 3.0 ILP Map # 093L.080 ILP # 10034 Site 50

PROJECT																							
Project Name: Smithers Landing Fish Inventory - 2000										Project Code: 3496													
Stream Name (gaz.): BABINE RIVER																							
Project Watershed Code: 480-000000-00000-00000-0000-000-000-000-000-000-000																							
WATERSHED																							
Gazetted Name:										Local Name: None													
Watershed Code: 480-735600-41622-00000-0000-0000-000-000-000-000-000-000																							
ILP Map#: 093L.080			ILP #: 10034			NID Map #: 093L.080			NID #: 10050			Reach #: 3.0		Site #: 50									
Field UTM (Z.E.N): ..					Method:					Site Lg: 300		Method: MAP		Access: H									
GIS UTM (Z.E.N): 9.687662.6069821										Ref. Name:													
Date: 2001/08/17			Time: 14:30			Agency: C172			Crew: JD/DT		Fish Crd?: ☐		Incomplete: ☐										
CHANNEL																							
										Gadient %		Mtd		Avg									
Channel Width (m):		Mtd	width	width	width	width	width	width	width	width	width	width	Avg	Method I: ☐									
Wetted Width (m):													0.00	Method II: ☐									
Pool Depth (m):													0.00										
Wb Depth:													Avg: 0.00	Method: MS									
COVER		Total:										Stage: L ☐ M ☐ H ☐											
Type:	SWD	LWD	B	U	DP	OV	IV	CROWN CLOSURE															
Amount:																							
Loc: P/S/O:	☐	☐	☐	☐	☐	☐	☐	INSTREAM VEG: N ☐ A ☐ M ☐ V ☐															
LWD:	DIST:																						
LB SHP:	RB SHP:																						
Texture: F ☐ G ☐ C ☐ B ☐ R ☐ A ☐	Texture: F ☐ G ☐ C ☐ B ☐ R ☐ A ☐																						
RIP:	RIP:																						
STG:	STG:																						
WATER																							
EMS:					Method:					Req #:													
Temp:					Method:					Cond.:													
pH:					Method:					Turb.: T ☐ M ☐ L ☐ C ☐													
Flood Signs:					Method:					Method: GE													
MORPHOLOGY																							
Bed Material:		Dominant:		Subdom:		Morph:		O1		B1		B2		B3		D1		D2		D3			
D95:		D (cm):						☐		☐		☐		☐		☐		☐		☐			
Pattern:								DISTURBANCE		C1		C2		C3		C4		C5		S1		S2	
Islands:								INDICATORS		☐		☐		☐		☐		☐		☐		☐	
Coupling:										☐		☐		☐		☐		☐		☐		☐	
Confinement:										☐		☐		☐		☐		☐		☐		☐	
FSZ: ☐										Bars: N ☐		SIDE ☐		DIAG ☐		MID ☐		SPAN ☐		BR ☐			
HABITAT QUALITY																							
Name					Comments																		
Other					No fish habitat present-vegetated seepage																		
PHOTOS																							
Photo		Foc Lg		Dir		Comments																	
R:	06	F:	18	STD		U		upslope photo of vegetated seepage															
R:	06	F:	19	STD		D		downslope photo of vegetated seepage															
COMMENTS																							
Section					Comments																		

FDIS Site Card

South Fulton Study Area

	Reach #	ILP Map #	ILP #	Site
Watershed Code: 480-735600-41622-00000-0000-0000-000-000-000-000-000	3.0	093L.080	10034	50

COMMENTS	
Section	Comments
CHANNEL	No visible channel



Site #50, upslope photo of vegetated seepage.
Roll #6, Frame #18, Date: 2001/08/17



Site #50, downslope photo of vegetated seepage.
Roll #6, Frame #19, Date: 2001/08/17

FDIS Reach/Site Summary

South Fulton Study Area

Watershed Code: 480-718600-59500-00000-0000-0000-000-000-000-000-000

Reach # 8.0 ILP Map # 093L.080 ILP # 10079

STREAM REFERENCING									
Gazetted Name:					Local Name:				
Watershed Code: 480-718600-59500-00000-0000-0000-000-000-000-000					ILP Map #: 093L.080		ILP #: 10079		
REACH									
Reach #: 8.0		UTM(Zone/East/North): 9.682610.6065589				Sample Type: Biased			
Length (km): 2.17		Coupling: Decoupled		Magnitude: 4		BGC Zone: ESSF			
Gradient (%): 2.2		Confinement: Occasionally Conf		Order: 2		Open water: Absent			
US Elev (m): 1076		Islands: NONE		Riparian Vegetation: Deciduous					
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified									
SITE									
Site #: 51		Field UTM ..		Agency: C172		Crew: JD/DT		Date: 2001/08/18	
Site Length (m): 100		GIS UTM 9.682523.6065556		Agency Name: Triton Environmental Consultants (Terrace)					
CHANNEL									
No Vis.Ch.: ☐		Intermittent: ☐		Avg		Min		Max	
Dewatered: ☐		Tribes.: ☐		Channel Width (m): 1.22		1		1.4	
Stage: Low ☒				Wetted Width (m): 0.53		0.400		0.600	
Med ☐				Bankfull Depth (m): 0.40		0.3		0.5	
High ☐		Temp (C): 10		pH: 8.0		Conductivity: 80		Turbidity: Turbid ☐ Low ☐	
								Moderate ☐ Clear ☒	
MORPHOLOGY									
Bed Material: Dominant: Fines		D95 (cm): 15.00		Bars: Non ☒		Side ☐		Diagonal ☐	
Subdominant: Gravels		D (cm): 2.00				Mid-channel ☐		Span ☐	
Channel Pattern: Sinuous		Islands: None		DISTURBANCE		O1		B1	
Coupling: Decoupled				INDICATORS		B2		B3	
Confinement: Occasionally Confine				C1		C2		C3	
Morphology: RP Riffle Pool				C4		C5		S1	
				S2		S3		S4	
				S5					
COVER									
Total Cover: Abundant		Type: SWD		LWD		B		U	
LWD: Few		Amount: T		T		N		S	
LWD Dist: Evenly Distributed		Location: P/S/O: ☒		☒		☐		☒	
		☐		☐		☐		☐	
Right Bank: Shape: Overhang		Texture: Fines ☒		Gravel ☐		Cobble ☐		Boulder ☐	
Left Bank: Shape: Overhang		Texture: Fines ☒		Gravel ☐		Cobble ☐		Boulder ☐	
Right Bank: Rip.Veg: Deciduous		Stage: Young forest		Instream Veg: None ☐		Algae ☐		Moss ☐	
Left Bank: Rip.Veg:		Stage: Young forest				Vascular ☒			
FISH									
Site Number	Capture Method	Number of Events	Length fished (m)	Total Time	Voltage	Species	Total Fish	Minimum Length (mm)	Maximum Length (mm)
51	EF	1	100	98 sec	700	RB	3	62	85
546	EF	1	100	110 sec	600	RB	3	60	70

South Fulton Study Area

Reach #	ILP Map #	ILP #	Site
8.0	093L.080	10079	51

Triton Environmental Consultants Ltd.

FDIS Site Card

South Fulton Study Area

Watershed Code: 480-718600-59500-00000-0000-0000-000-000-000-000-000

Reach #8.0

ILP Map #093L.080

ILP #10079

Site51

COMMENTS	
Section	Comments
CHANNEL	RB Captured
CHANNEL	S4 Stream

South Fulton Study Area

480-718600-59500-00000-0000-0000-000-000-000-000-000-000

Reach #	ILP Map #	ILP #
8.0	093L.080	10079

WATERBODY															
Gazetted Name:								Local: None							
Project Code: 480-000000-00000-00000-0000-000-000-000-000-0															
WS Code: 480-718600-59500-00000-0000-0000-000-000-000-000-000															
Waterbody ID:				ILP Map #: 093L080				ILP #:		10079		Reach #: 8 -			
Project ID: 3496				Lake/Stream: S				Lake From Date:							
Fish Permit #: 145085K				Date: 2001/08/18				To: 2001/08/18		Agency: C172		Crew: JD/DT		Resample: ☐	
SITE / METHOD															
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO	Temp	Cond	Turbid	Comment					
546	093L.080	50046				GPU EF 1	7	60	C						
51	093L.080	10051				GPU EF 1	10	80	C						
A. GEAR SETTINGS															
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment								
51	EF 1	1	2001/08/18	09:00	2001/08/18	09:35									
546	EF 1	1	2001/08/18	09:00	2001/08/18	09:30									
C. ELECTROFISHER SPECIFICATIONS															
Site#	MTD/NO	H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model				
51	EF	1	1	O	98	100.0	1.0	700	60	6	SMITH ROOT	12B			
546	EF	1	1	O	110	100.0	1.0	600	1	5	SMITH ROOT	12B			
FISH SUMMARY															
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	FishAct	Comment						
51	EF	1	1	RB	J		3	62	85	R					
546	EF	1	1	RB	J	1+	3	60	70	R					
INDIVIDUAL FISH DATA															
Site#	MTD/NO	H/P	Species	Length	Weight	Sex	Mat	Age		Vch#	Genetic		Roll #	Frame#	Comment
								Str/Smpl#	Age		Str/Smpl#				
51	EF	1	1	RB	85		U	U							
51	EF	1	1	RB	62		U	U							
51	EF	1	1	RB	70		U	U							
546	EF	1	1	RB	60		U	IM							
546	EF	1	1	RB	70		U	IM							
546	EF	1	1	RB	65		U	IM							
COMMENTS															
Section			Comments												
WATERBODY			Downstream of RB Lake @ ILP 10067 confluence WSC on map is not readable												



Site #51, upstream photo of pool habitat.
Roll #6, Frame #20, Date: 2001/08/18



Site #51, downstream photo of riffle habitat.
Roll #6, Frame #21, Date: 2001/08/18

FDIS Reach/Site Summary

South Fulton Study Area

Reach # ILP Map # ILP #

Watershed Code: 480-718600-76300-95399-3509-0000-000-000-000-000-000

2.0

STREAM REFERENCING									
Gazetted Name:					Local Name:				
Watershed Code: 480-718600-76300-95399-3509-0000-000-000-000-000-000					ILP Map #:		ILP #:		
REACH									
Reach #: 2.0		UTM(Zone/East/North): 9.680767.6064373				Sample Type: Random			
Length (km): .68		Coupling: Partially Couple		Magnitude: 5		BGC Zone: SBS			
Gradient (%): 2.5		Confinement: Occasionally Conf		Order: 3		Open water: Absent			
US Elev (m): 1084		Islands: NONE		Riparian Vegetation: Mixed C/D					
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified									
SITE									
Site #: 52		Field UTM ..		Agency: C172		Crew: JD/DT		Date: 2001/08/18	
Site Length (m): 200		GIS UTM 9.680900.6064691		Agency Name: Triton Environmental Consultants (Terrace)					
CHANNEL									
No Vis.Ch.: ☐		Intermittent: ☐		Avg		Min		Max	
Dewatered: ☐		Tribes.: ☐		Channel Width (m): 1.13		0.800		1.4	
Stage: Low ☒				Wetted Width (m): 0.62		0.400		0.9	
Med ☐				Bankfull Depth (m): 0.40		0.4		0.4	
High ☐									
Temp (C): 9		pH: 8.0		Conductivity: 90		Turbidity: Turbid ☐		Low ☐	
						Moderate ☐		Clear ☒	
MORPHOLOGY									
Bed Material: Dominant: Cobble		D95 (cm): 20.00		Bars: Non ☒		Side ☐		Diagonal ☐	
Subdominant: Fines		D (cm): 2.00				Mid-channel ☐		Span ☐	
Channel Pattern: Sinuous		Islands: None		DISTURBANCE		O1		B1	
Coupling: Partially Coupled				INDICATORS		B2		B3	
Confinement: Frequently Confined						D1		D2	
Morphology: CP Cascade Pool						D3			
				C1		C2		C3	
				C4		C5		S1	
				S2		S3		S4	
				S5					
COVER									
Total Cover: Abundant		Type: SWD		LWD		B		U	
LWD: Few		Amount: T		D		N		T	
LWD Dist: Clumped		Location: P/S/O: ☒		☒		☐		☒	
		☐		☐		☐		☐	
Right Bank: Shape: Overhang		Texture: Fines ☒		Gravel ☐		Cobble ☐		Boulder ☐	
Left Bank: Shape: Overhang		Texture: Fines ☒		Gravel ☐		Cobble ☐		Boulder ☐	
Right Bank: Rip.Veg: Mixed C/D		Stage: Young forest		Instream Veg: None ☐		Algae ☐		Moss ☐	
Left Bank: Rip.Veg:		Stage: Young forest				Vascular ☐			
FISH									
Site Number	Capture Method	Number of Events	Length fished (m)	Total Time	Voltage	Species	Total Fish	Minimum Length (mm)	Maximum Length (mm)
52	EF	1	200	203 sec	600	NFC	0		

FDIS Site Card

South Fulton Study Area

Watershed Code: 480-718600-76300-95399-3509-0000-000-000-000-000-000

Reach # 2.0 ILP Map # ILP # Site 52

PROJECT																																																																																																																													
Project Name: Smithers Landing Fish Inventory - 2000 Stream Name (gaz.): BABINE RIVER Project Watershed Code: 480-000000-00000-00000-0000-000-000-000-000-000-000																																																																																																																													
												Project Code: 3496																																																																																																																	
WATERSHED																																																																																																																													
Gazetted Name: _____ Local Name: None Watershed Code: 480-718600-76300-95399-3509-0000-000-000-000-000-000-000 ILP Map#: _____ ILP #: _____ NID Map #: 093L.070 NID #: 10052 Reach #: 2.0 Site #: 52 Field UTM (Z.E.N): .. Method: _____ Site Lg: 200 Method: HC Access: H GIS UTM (Z.E.N): 9.680900.6064691 Ref. Name: _____ Date: 2001/08/18 Time: 10:00 Agency: C172 Crew: JD/DT Fish Crd?: ☒ Incomplete: ☐																																																																																																																													
CHANNEL																																																																																																																													
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>Mtd</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>Avg</th> </tr> </thead> <tbody> <tr> <td>Channel Width (m):</td> <td>MS</td> <td>1.40</td> <td>1.20</td> <td>0.80</td> <td>0.90</td> <td>1.20</td> <td>1.30</td> <td></td> <td></td> <td></td> <td></td> <td>1.13</td> </tr> <tr> <td>Wetted Width (m):</td> <td>MS</td> <td>0.60</td> <td>0.60</td> <td>0.40</td> <td>0.40</td> <td>0.80</td> <td>0.90</td> <td></td> <td></td> <td></td> <td></td> <td>0.62</td> </tr> <tr> <td>Pool Depth (m):</td> <td>MS</td> <td>0.10</td> <td>0.15</td> <td>0.10</td> <td>0.20</td> <td>0.15</td> <td>0.10</td> <td></td> <td></td> <td></td> <td></td> <td>0.13</td> </tr> </tbody> </table> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>Gadient %</th> <th>Mtd</th> <th>Avg</th> </tr> </thead> <tbody> <tr> <td>Method I:</td> <td>4.0</td> <td>5.0</td> <td>C</td> </tr> <tr> <td>Method II:</td> <td>4.0</td> <td>4.0</td> <td>C</td> </tr> </tbody> </table> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Wb Depth:</th> <th></th> <th></th> <th></th> <th>Avg:</th> <th>Method:</th> <th>Stage:</th> <th></th> <th></th> <th></th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>.4</td> <td>.4</td> <td>.4</td> <td></td> <td>0.40</td> <td>MS</td> <td>L</td> <td>☒</td> <td>M</td> <td>☐</td> <td>H</td> <td>☐</td> </tr> </tbody> </table> COVER Total: A <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Type:</th> <th>SWD</th> <th>LWD</th> <th>B</th> <th>U</th> <th>DP</th> <th>OV</th> <th>IV</th> </tr> </thead> <tbody> <tr> <td>Amount:</td> <td>T</td> <td>D</td> <td>N</td> <td>T</td> <td>T</td> <td>S</td> <td>T</td> </tr> <tr> <td>Loc: P/S/O:</td> <td>☒</td> <td>☒</td> <td>☐</td> <td>☒</td> <td>☒</td> <td>☒</td> <td>☒</td> </tr> </tbody> </table> LWD: F DIST: C LB SHP: O Texture: F ☒ G ☐ C ☐ B ☐ R ☐ A ☐ RIP: M STG: YF CROWN CLOSURE 2 21-40% INSTREAM VEG: N ☐ A ☐ M ☐ V ☐ RB SHP: O Texture: F ☒ G ☐ C ☐ B ☐ R ☐ A ☐ RIP: M STG: YF															Mtd	width	width	width	width	width	width	width	width	width	width	Avg	Channel Width (m):	MS	1.40	1.20	0.80	0.90	1.20	1.30					1.13	Wetted Width (m):	MS	0.60	0.60	0.40	0.40	0.80	0.90					0.62	Pool Depth (m):	MS	0.10	0.15	0.10	0.20	0.15	0.10					0.13		Gadient %	Mtd	Avg	Method I:	4.0	5.0	C	Method II:	4.0	4.0	C	Wb Depth:				Avg:	Method:	Stage:						.4	.4	.4		0.40	MS	L	☒	M	☐	H	☐	Type:	SWD	LWD	B	U	DP	OV	IV	Amount:	T	D	N	T	T	S	T	Loc: P/S/O:	☒	☒	☐	☒	☒	☒	☒
	Mtd	width	width	width	width	width	width	width	width	width	width	Avg																																																																																																																	
Channel Width (m):	MS	1.40	1.20	0.80	0.90	1.20	1.30					1.13																																																																																																																	
Wetted Width (m):	MS	0.60	0.60	0.40	0.40	0.80	0.90					0.62																																																																																																																	
Pool Depth (m):	MS	0.10	0.15	0.10	0.20	0.15	0.10					0.13																																																																																																																	
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.4	.4	.4		0.40	MS	L	☒	M	☐	H	☐																																																																																																																		
Type:	SWD	LWD	B	U	DP	OV	IV																																																																																																																						
Amount:	T	D	N	T	T	S	T																																																																																																																						
Loc: P/S/O:	☒	☒	☐	☒	☒	☒	☒																																																																																																																						
WATER																																																																																																																													
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FDIS Site Card

South Fulton Study Area

Watershed Code: 480-718600-76300-95399-3509-0000-000-000-000-000-000	Reach #	ILP Map #	ILP #	Site
	2.0			52

COMMENTS	
Section	Comments
CHANNEL	No barriers to upstream fish migration were identified
CHANNEL	S4 Inferred

FDIS Fish Card

South Fulton Study Area

Reach # ILP Map # ILP #

Watershed Code: 480-718600-76300-95399-3509-0000-000-000-000-000-000

2.0

WATERBODY													
Gazetted Name:										Local: None			
Project Code: 480-000000-00000-00000-0000-000-000-000-000-0													
WS Code: 480-718600-76300-95399-3509-0000-000-000-000-000-000													
Waterbody ID:					ILP Map #:			ILP #:		Reach #: 2 -			
Project ID: 3496					Lake/Stream: S			Lake From Date:					
Fish Permit #: 145085K			Date: 2001/08/18			To: 2001/08/18			Agency: C172		Crew: JD/DT		Resample: ☐
SITE / METHOD													
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO	Temp	Cond	Turbid	Comment			
52	093L.070	10052				GPU EF 1	9	90	C				
A. GEAR SETTINGS													
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment						
52	EF	1	1	2001/08/18	10:00	2001/08/18	10:45						
C. ELECTROFISHER SPECIFICATIONS													
Site#	MTD/NO	H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model		
52	EF	1	1	O	203	200.0	0.8	600	60	6	SMITH ROOT	12B	
FISH SUMMARY													
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	FishAct	Comment				
52	EF	1	1	NFC		0							



Site #52, upstream photo of cobble substrates.
Roll #6, Frame #22, Date: 2001/08/18



Site #52, downstream photo of fine substrates.
Roll #6, Frame #23, Date: 2001/08/18

FDIS Reach/Site Summary

South Fulton Study Area

Watershed Code: 480-718600-90300-98627-2578-0000-000-000-000-000-000

Reach # ILP Map # ILP #

1.0 093L.069 10206

STREAM REFERENCING									
Gazetted Name:					Local Name:				
Watershed Code: 480-718600-90300-98627-2578-0000-000-000-000-000-000					ILP Map #: 093L.069		ILP #: 10206		
REACH									
Reach #: 1.0		UTM(Zone/East/North): 9.678671.6063366				Sample Type: Biased			
Length (km): .51		Coupling: Decoupled		Magnitude: 1		BGC Zone: ESSF			
Gradient (%): 3.9		Confinement: Occasionally Conf		Order: 1		Open water: Absent			
US Elev (m): 1067		Islands: NONE		Riparian Vegetation: Shrubs					
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified									
SITE									
Site #: 53		Field UTM ..		Agency: C172		Crew: DT/JD		Date: 2001/08/18	
Site Length (m): 200		GIS UTM 9.678629.6063615		Agency Name: Triton Environmental Consultants (Terrace)					
CHANNEL									
No Vis.Ch: ☐		Intermittent: ☒							
Dewatered: ☐		Tribes.: ☐							
Stage: Low ☒									
Med ☐									
High ☐									
Temp (C):		pH:		Conductivity:		Turbidity: Turbid ☐		Low ☐	
						Moderate ☐		Clear ☐	
MORPHOLOGY									
Bed Material: Dominant: Cobble		D95 (cm): 20.00		Bars: Non ☒		Side ☐		Diagonal ☐	
Subdominant: Fines		D (cm): 1.00				Mid-channel ☐		Span ☐	
Channel Pattern: Sinuous		Islands: None		DISTURBANCE		O1		B1	
Coupling: Decoupled				INDICATORS		B2		B3	
Confinement: Occasionally Confine						D1		D2	
Morphology: RP Riffle Pool						D3			
						C1		C2	
						C3		C4	
						C5		S1	
						S2		S3	
						S4		S5	
COVER									
Total Cover: Abundant		Type: SWD		LWD		B		U	
LWD: Few		Amount: T		T		T		S	
LWD Dist: Evenly Distributed		Location: P/S/O:		☒		☒		☒	
				☒		☒		☒	
Right Bank: Shape: Overhang		Texture: Fines ☒		Gravel ☐		Cobble ☐		Boulder ☐	
Left Bank: Shape: Overhang		Texture: Fines ☒		Gravel ☐		Cobble ☐		Boulder ☐	
Right Bank: Rip.Veg: Mixed C/D		Stage: Young forest		Instream Veg: None ☐		Algae ☐		Moss ☐	
Left Bank: Rip.Veg:		Stage: Young forest				Vascular ☒			

FDIS Site Card

South Fulton Study Area

Watershed Code: 480-718600-90300-98627-2578-0000-000-000-000-000-000

Reach # 1.0 ILP Map # 093L.069 ILP # 10206 Site 53

PROJECT

Project Name: Smithers Landing Fish Inventory - 2000
Stream Name (gaz.): BABINE RIVER Project Code: 3496
Project Watershed Code: 480-000000-00000-00000-0000-000-000-000-000-000-000

WATERSHED

Gazetted Name: Watershed Code: 480-718600-90300-98627-2578-0000-000-000-000-000-000
ILP Map#: 093L.069 ILP #: 10206 NID Map #: 093L.069 NID #: 10053 Reach #: 1.0 Site #: 53
Field UTM (Z.E.N): .. Method: Site Lg: 200 Method: MAP Access: H
GIS UTM (Z.E.N): 9.678629.6063615 Ref. Name:
Date: 2001/08/18 Time: 11:15 Agency: C172 Crew: DT/JD Fish Crd?: ☐ Incomplete: ☐

CHANNEL

	Mtd	width	width	width	width	width	width	width	width	width	width	Avg
Channel Width (m):	MS	1.40	1.60	1.70	1.40	1.40	1.30					1.47
Wetted Width (m):	MS											0.00
Pool Depth (m):	MS											0.00

	Gadient %	Mtd	Avg	
Method I:	1.0	2.0	C	1.50
Method II:	1.0	2.0	C	

Wb Depth: .3 .3 .4 Avg: 0.33 Method: MS Stage: L ☒ M ☐ H ☐

COVER Total: A

Type:	SWD	LWD	B	U	DP	OV	IV
Amount:	T	T	T	S	N	D	T
Loc: P/S/O:	☒	☒	☒	☒	☐	☒	☒

CROWN CLOSURE

1 1-20%

INSTREAM VEG: N ☐ A ☐ M ☐ V ☒

LWD: F DIST: E

LB SHP: O

Texture: F ☒ G ☐ C ☐ B ☐ R ☐ A ☐

RIP: M

STG: YF

RB SHP: O

Texture: F ☒ G ☐ C ☐ B ☐ R ☐ A ☐

RIP: M

STG: YF

WATER

EMS: Temp: Method: T4 Req #: Cond.: Method: S3
pH: Method: P2 Turb.: T ☐ M ☐ L ☐ C ☐ Method: GE
Flood Signs: None Method: GE

MORPHOLOGY

Bed Material: Dominant: C Subdom: F O1 B1 B2 B3 D1 D2 D3
D95: 20.0 D (cm): 1.00 Morph: RP DISTURBANCE INDICATORS
Pattern: SI C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
Islands: N
Coupling: DC
Confinement: OC
FSZ: ☐ Bars: N ☒ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR ☐

HABITAT QUALITY

Name	Comments
OverWinter Habitat	No overwintering habitat
Spawning Habitat	Poor spawning habitat-ephemeral stream, substrates too large for resident trout, pockets of gravel found
Rearing Habitat	Poor rearing habitat-dry ephemeral stream

PHOTOS

Photo	Foc Lg	Dir	Comments
R: 06 F: 24	STD	U	upstream photo of a dry channel
R: 06 F: 25	STD	D	downstream photo of substrates

FDIS Site Card

South Fulton Study Area

Watershed Code: 480-718600-90300-98627-2578-0000-000-000-000-000-000

Reach #1.0

ILP Map #093L.069

ILP #10206

Site53

COMMENTS	
Section	Comments
CHANNEL	No barriers to upstream fish migration were identified
CHANNEL	S4 Inferred



Site #53, upstream photo of a dry channel.
Roll #6, Frame #24, Date: 2001/08/18



Site #53, downstream photo of substrates.
Roll #6, Frame #25, Date: 2001/08/18

FDIS Reach/Site Summary

South Fulton Study Area

Reach # ILP Map # ILP #

Watershed Code: 480-705800-57200-00000-0000-0000-000-000-000-000

5.0

STREAM REFERENCING									
Gazetted Name: STRIMBOLDH CREEK					Local Name:				
Watershed Code: 480-705800-57200-00000-0000-0000-000-000-000-000					ILP Map #:		ILP #:		
REACH									
Reach #: 5.0		UTM (Zone/East/North): 9.681201.6057573				Sample Type: Biased			
Length (km): .68		Coupling: Decoupled		Magnitude: 6		BGC Zone: ESSF			
Gradient (%): 5.6		Confinement: Occasionally Conf		Order: 3		Open water: Present			
US Elev (m): 1350		Islands: NONE		Riparian Vegetation: Shrubs					
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified									
SITE									
Site #: 54		Field UTM ..		Agency: C172		Crew: DT/JD/JH		Date: 2001/08/18	
Site Length (m): 400		GIS UTM 9.681164.6057634		Agency Name: Triton Environmental Consultants (Terrace)					
CHANNEL									
No Vis.Ch.: ☐		Intermittent: ☐		Avg		Min		Max	
Dewatered: ☐		Tribes: ☐		Channel Width (m): 1.27		1		1.600	
Stage: Low ☒				Wetted Width (m): 0.68		0.5		0.800	
Med ☐				Bankfull Depth (m): 0.47		0.4		0.5	
High ☐									
Temp (C): 10		pH: 8.0		Conductivity: 40		Turbidity: Turbid ☐		Low ☐	
						Moderate ☐		Clear ☒	
MORPHOLOGY									
Bed Material: Dominant: Cobble		D95 (cm): 35.00		Bars: Non ☒		Side ☐		Diagonal ☐	
Subdominant: Fines		D (cm): 2.00						Mid-channel ☐	
Channel Pattern: Sinuous		Islands: None		DISTURBANCE		O1		B1	
Coupling: Decoupled				INDICATORS		B2		B3	
Confinement: Unconfined						D1		D2	
Morphology: CP Cascade Pool						D3			
				C1		C2		C3	
				C4		C5		S1	
				S2		S3		S4	
				S5					
COVER									
Total Cover: Abundant		Type: SWD		LWD		B		U	
LWD: None		Amount: N		N		T		S	
LWD Dist: Not Applicable		Location: P/S/O:		☒		☒		☒	
Right Bank: Shape: Overhang		Texture: Fines ☒		Gravel ☐		Cobble ☐		Boulder ☐	
Left Bank: Shape: Overhang		Texture: Fines ☒		Gravel ☐		Cobble ☐		Boulder ☐	
Right Bank: Rip.Veg: Shrubs		Stage: Shrub/herb stage		None ☐		Algae ☐		Moss ☐	
Left Bank: Rip.Veg:		Stage: Shrub/herb stage		None ☐		Algae ☐		Moss ☐	
				Vascular ☒					
FEATURES									
NID Map	NID	Type	Hgt	Method	Lg	Method	Photo	AirPhoto	UTM (Z/E/N)
093L.070	88028	C	3.0	GE	3	GE	R: 7 F: 1 L:	#:	9.681163.6057
Comments: Potential Barrier									
FISH									
Site Number	Capture Method	Number of Events	Length fished (m)	Total Time	Voltage	Species	Total Fish	Minimum Length (mm)	Maximum Length (mm)
54	EF	1	100	132 sec	700	LKC	5	34	50
54	EF	1	100	161 sec	600	LKC	5	34	50
55	EF	1	100	96 sec	700	RB	7	125	180
55	EF	1	100	100 sec	600	RB	7	125	180

FDIS Site Card

South Fulton Study Area

Watershed Code: 480-705800-57200-00000-0000-0000-000-000-000-000

Reach # 5.0 ILP Map # ILP # Site 54

PROJECT

Project Name: Smithers Landing Fish Inventory - 2000
Stream Name (gaz.): BABINE RIVER Project Code: 3496
Project Watershed Code: 480-000000-00000-00000-0000-000-000-000-000-000-000

WATERSHED

Gazetted Name: STRIMBOLDH CREEK Local Name: None
Watershed Code: 480-705800-57200-00000-0000-000-000-000-000-000-000
ILP Map#: ILP #: NID Map #: 093L.070 NID #: 10054 Reach #: 5.0 Site #: 54
Field UTM (Z.E.N): .. Method: Site Lg: 400 Method: MAP Access: H
GIS UTM (Z.E.N): 9.681164.6057634 Ref. Name:
Date: 2001/08/18 Time: 13:10 Agency: C172 Crew: DT/JD/JH Fish Crd?: ☒ Incomplete: ☐

CHANNEL

	Mtd	width	width	width	width	width	width	width	width	width	width	Avg
Channel Width (m):	MS	1.40	1.10	1.00	1.60	1.30	1.20					1.27
Wetted Width (m):	MS	0.80	0.60	0.80	0.60	0.80	0.50					0.68
Pool Depth (m):	MS	0.20	0.15	0.26	0.15	0.20	0.30					0.21

	Gadient %		Mtd	Avg
Method I:	3.0	2.0	C	3.50
Method II:	4.0	5.0	C	

Wb Depth: .5 .5 .4 Avg: 0.47 Method: MS Stage: L ☒ M ☐ H ☐ No Vis.Ch.: ☐ Intermittent: ☐
Dw: ☐ Tribs.: ☐

COVER Total: A

Type:	SWD	LWD	B	U	DP	OV	IV
Amount:	N	N	T	S	T	D	T
Loc: P/S/O:	☐	☐	☒	☒	☒	☒	☒

CROWN CLOSURE

1 1-20%

INSTREAM VEG: N ☐ A ☐ M ☐ V ☒

LWD: N DIST: NA

LB SHP: O

Texture: F ☒ G ☐ C ☐ B ☐ R ☐ A ☐

RIP: S

STG: SHR

RB SHP: O

Texture: F ☒ G ☐ C ☐ B ☐ R ☐ A ☐

RIP: S

STG: SHR

WATER

EMS: Temp: 10 Method: T4 Req #: Cond.: 40 Method: S3
pH: 8.0 Method: P2 Method: GE
Flood Signs: None Method: GE Turb.: T ☐ M ☐ L ☐ C ☒ Method: GE

MORPHOLOGY

Bed Material: Dominant: C Subdom: F O1 B1 B2 B3 D1 D2 D3
D95: 35.0 D (cm): 2.00 Morph: CP DISTURBANCE INDICATORS
Pattern: SI C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
Islands: N
Coupling: DC
Confinement: UN
FSZ: ☐ Bars: N ☒ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR ☐

FEATURES

NID Map	NID	Type	Hgt	Method	Lg	Method	Photo	AirPhoto	UTM (Z/E/N)	Method
093L.070	88028	C	3.0	GE	3	GE	R: 7 F: 1 L:	#:	9.681163.6057696	GIS

Comments: Potential Barrier

HABITAT QUALITY

Name	Comments
OverWinter Habitat	No overwintering habitat
Spawning Habitat	Poor spawning habitat-substrates too large, low flows, pockets of gravel.
Rearing Habitat	Poor rearing habitat-low flows, cobbles showing, fines fill interstitial spaces

FDIS Site Card

South Fulton Study Area

Watershed Code: 480-705800-57200-00000-00000-00000-00000-00000-00000

Reach # ILP Map # ILP # Site
5.0 54

PHOTOS				
Photo		Foc Lg	Dir	Comments
R: 07	F: 01	STD	U	photo of 3 m cascade
R: 07	F: 02	STD	U	upstream photo of cobble substrates
R: 07	F: 03	STD	D	downstream photo of overstream vegetation
COMMENTS				
Section		Comments		
CHANNEL		RB, LKC captured		
CHANNEL		S4 Stream		

FDIS Fish Card

South Fulton Study Area

Watershed Code: 480-705800-57200-00000-0000-0000-000-000-000-000-000

Reach # ILP Map # ILP #

5.0

WATERBODY															
Gazetted Name: STRIMBOLDH CREEK										Local: None					
Project Code: 480-000000-00000-00000-0000-000-000-000-000-0															
WS Code: 480-705800-57200-00000-0000-0000-000-000-000-000-000															
Waterbody ID:				ILP Map #:				ILP #:		Reach #: 5 -					
Project ID: 3496				Lake/Stream: S				Lake From Date:							
Fish Permit #:		145085K		Date: 2001/08/18		To: 2001/08/18		Agency: C172		Crew: DT/JD/JH		Resample: ☐			
SITE / METHOD															
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO	Temp	Cond	Turbid	Comment					
55	093L.070	10055				GPU EF 2	10	40	C						
55	093L.070	10055				GPU EF 1	10	40	C						
54	093L.070	10054				GPU EF 2	10	40	C						
54	093L.070	10054				GPU EF 1	10	40	C						
A. GEAR SETTINGS															
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment								
54	EF 1	1	2001/08/18	13:10	2001/08/18	13:30									
54	EF 2	1	2001/08/18	13:10	2001/08/18	13:30									
55	EF 1	1	2001/08/18	13:40	2001/08/18	14:00									
55	EF 2	1	2001/08/18	13:40	2001/08/18	14:00									
C. ELECTROFISHER SPECIFICATIONS															
Site#	MTD/NO	H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model				
54	EF	1	1	O	161	100.0	1.0	600	70	6	SMITH ROOT				
54	EF	2	1	O	132	100.0	1.0	700	60	6	SMITH ROOT				
55	EF	1	1	O	100	100.0	1.0	600	70	6	SMITH ROOT				
55	EF	2	1	O	96	100.0	1.0	700	60	6	SMITH ROOT				
FISH SUMMARY															
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)		FishAct	Comment					
54	EF	1	LKC	J		3	34	45	R						
54	EF	2	LKC	J		2	35	50	R						
55	EF	1	RB	A		3	140	180	R						
55	EF	2	RB	A		4	125	168	R						
INDIVIDUAL FISH DATA															
Site#	MTD/NO	H/P	Species	Length	Weight	Sex	Mat	Age		Vch#	Genetic		Roll #	Frame#	Comment
								Str/Smpl#	Age		Str/Smpl#				
54	EF	1	LKC	35		U	U								
54	EF	1	LKC	45		U	U								
54	EF	1	LKC	50		U	U								
54	EF	2	LKC	35		U	U								
54	EF	2	LKC	40		U	U								
55	EF	1	RB	140		U	U								
55	EF	1	RB	180		U	U								
55	EF	1	RB	130		U	U								
55	EF	2	RB	140		U	U								
55	EF	2	RB	125		U	U								
55	EF	2	RB	168		U	U								
55	EF	2	RB	150		U	U								



Site #54, photo of 3 m cascade.
Roll #7, Frame #01, Date: 2001/08/18



Site #54, upstream photo of cobble substrates.
Roll #7, Frame #02, Date: 2001/08/18



Site #54, downstream photo of overstream vegetation.
Roll #7, Frame #03, Date: 2001/08/18

FDIS Reach/Site Summary

South Fulton Study Area

Watershed Code: 480-705800-57200-00000-00000-00000-00000-00000-000

Reach # ILP Map # ILP #

5.0

STREAM REFERENCING									
Gazetted Name: STRIMBOLDH CREEK					Local Name:				
Watershed Code: 480-705800-57200-00000-00000-00000-00000-00000-000					ILP Map #:		ILP #:		
REACH									
Reach #: 5.0		UTM (Zone/East/North): 9.681201.6057573				Sample Type: Biased			
Length (km): .68		Coupling: Decoupled		Magnitude: 6		BGC Zone: ESSF			
Gradient (%): 5.6		Confinement: Occasionally Conf		Order: 3		Open water: Present			
US Elev (m): 1350		Islands: NONE		Riparian Vegetation: Shrubs					
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified									
SITE									
Site #: 54		Field UTM ..		Agency: C172		Crew: DT/JD/JH		Date: 2001/08/18	
Site Length (m): 400		GIS UTM 9.681164.6057634		Agency Name: Triton Environmental Consultants (Terrace)					
CHANNEL									
No Vis. Ch.: ☐		Intermittent: ☐		Avg		Min		Max	
Dewatered: ☐		Tribes.: ☐		Channel Width (m): 1.27		1		1.600	
Stage: Low ☒				Wetted Width (m): 0.68		0.5		0.800	
Med ☐				Bankfull Depth (m): 0.47		0.4		0.5	
High ☐									
Temp (C): 10		pH: 8.0		Conductivity: 40					
						Avg		Min	
						Max		#	
				Gradient %: 3.50		2		5	
				Pool Depth (m): 0.21		0.150		0.300	
				Turbidity: Turbid ☐		Low ☐			
				Moderate ☐		Clear ☒			
MORPHOLOGY									
Bed Material: Dominant: Cobble		D95 (cm): 35.00		Bars: Non ☒		Side ☐		Diagonal ☐	
Subdominant: Fines		D (cm): 2.00						Span ☐	
Channel Pattern: Sinuous		Islands: None		DISTURBANCE		O1		B1	
Coupling: Decoupled				INDICATORS		B2		B3	
Confinement: Unconfined						D1		D2	
Morphology: CP Cascade Pool						D3			
				C1		C2		C3	
				C4		C5		S1	
				S2		S3		S4	
				S5					
COVER									
Total Cover: Abundant		Type: SWD		LWD		B		U	
LWD: None		Amount: N		N		T		S	
LWD Dist: Not Applicable		Location: P/S/O:		☒		☒		☒	
				☒		☒		☒	
Right Bank: Shape: Overhang		Texture: Fines ☒		Gravel ☐		Cobble ☐		Boulder ☐	
Left Bank: Shape: Overhang		Texture: Fines ☒		Gravel ☐		Cobble ☐		Boulder ☐	
Right Bank: Rip.Veg: Shrubs		Stage: Shrub/herb stage		Instream Veg: None ☐		Algae ☐		Moss ☐	
Left Bank: Rip.Veg:		Stage: Shrub/herb stage		Vascular ☒					
FEATURES									
NID Map	NID	Type	Hgt	Method	Lg	Method	Photo		AirPhoto
093L.070	88028	C	3.0	GE	3	GE	R: 7	F: 1	L: #:
Comments: Potential Barrier		UTM (Z/E/N) 9.681163.6057							
FISH									
Site Number	Capture Method	Number of Events	Length fished (m)	Total Time	Voltage	Species	Total Fish	Minimum Length (mm)	Maximum Length (mm)
54	EF	1	100	132 sec	700	LKC	5	34	50
54	EF	1	100	161 sec	600	LKC	5	34	50
55	EF	1	100	96 sec	700	RB	7	125	180
55	EF	1	100	100 sec	600	RB	7	125	180

FDIS Fish Card

South Fulton Study Area

Watershed Code: 480-705800-57200-00000-0000-0000-000-000-000-000-000

Reach # 5.0
ILP Map #
ILP #

WATERBODY													
Gazetted Name: STRIMBOLDH CREEK										Local: None			
Project Code: 480-000000-00000-00000-0000-000-000-000-000-0													
WS Code: 480-705800-57200-00000-0000-000-000-000-000-000													
Waterbody ID:				ILP Map #:				ILP #:		Reach #:		5	
Project ID: 3496				Lake/Stream: S				Lake From Date:					
Fish Permit #:		145085K		Date: 2001/08/18		To: 2001/08/18		Agency: C172		Crew: DT/JD/JH		Resample: ☐	
SITE / METHOD													
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO	Temp	Cond	Turbid	Comment			
55	093L.070	10055				GPU EF 2	10	40	C				
55	093L.070	10055				GPU EF 1	10	40	C				
54	093L.070	10054				GPU EF 2	10	40	C				
54	093L.070	10054				GPU EF 1	10	40	C				
A. GEAR SETTINGS													
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment						
54	EF 1	1	2001/08/18	13:10	2001/08/18	13:30							
54	EF 2	1	2001/08/18	13:10	2001/08/18	13:30							
55	EF 1	1	2001/08/18	13:40	2001/08/18	14:00							
55	EF 2	1	2001/08/18	13:40	2001/08/18	14:00							
C. ELECTROFISHER SPECIFICATIONS													
Site#	MTD/NO	H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model		
54	EF 1	1	O	161	100.0	1.0	600	70	6	SMITH ROOT	12B		
54	EF 2	1	O	132	100.0	1.0	700	60	6	SMITH ROOT	12B		
55	EF 1	1	O	100	100.0	1.0	600	70	6	SMITH ROOT	12B		
55	EF 2	1	O	96	100.0	1.0	700	60	6	SMITH ROOT	12B		
FISH SUMMARY													
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	FishAct	Comment				
54	EF 1	1	LKC	J		3	34 45	R					
54	EF 2	1	LKC	J		2	35 50	R					
55	EF 1	1	RB	A		3	140 180	R					
55	EF 2	1	RB	A		4	125 168	R					
INDIVIDUAL FISH DATA													
Site#	MTD/NO	H/P	Species	Length	Weight	Sex	Mat	Age	Vch#	Genetic	Roll #	Frame#	Comment
								Str/Smpl#		Str/Smpl#			
54	EF 1	1	LKC	35		U	U						
54	EF 1	1	LKC	45		U	U						
54	EF 1	1	LKC	50		U	U						
54	EF 2	1	LKC	35		U	U						
54	EF 2	1	LKC	40		U	U						
55	EF 1	1	RB	140		U	U						
55	EF 1	1	RB	180		U	U						
55	EF 1	1	RB	130		U	U						
55	EF 2	1	RB	140		U	U						
55	EF 2	1	RB	125		U	U						
55	EF 2	1	RB	168		U	U						
55	EF 2	1	RB	150		U	U						

FDIS Reach/Site Summary

South Fulton Study Area

Watershed Code: 480-705800-57200-68352-6090-0000-000-000-000-000-000

Reach # ILP Map # ILP #

2.0 093L.070 10351

STREAM REFERENCING									
Gazetted Name:					Local Name:				
Watershed Code: 480-705800-57200-68352-6090-0000-000-000-000-000-000					ILP Map #: 093L.070		ILP #: 10351		
REACH									
Reach #: 2.0		UTM(Zone/East/North): 9.682635.6057832				Sample Type: Random			
Length (km): .81		Coupling: Decoupled		Magnitude: 4		BGC Zone: ESSF			
Gradient (%): 4.9		Confinement: Occasionally Conf		Order: 3		Open water: Absent			
US Elev (m): 1425		Islands: NONE		Riparian Vegetation: Shrubs					
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified									
SITE									
Site #: 56		Field UTM ..		Agency: C172		Crew: JD/DT		Date: 2001/08/18	
Site Length (m): 300		GIS UTM 9.682461.6057771		Agency Name: Triton Environmental Consultants (Terrace)					
CHANNEL									
No Vis.Ch.: ☐		Intermittent: ☐		Avg		Min		Max	
Dewatered: ☐		Tribes.: ☐		Channel Width (m): 1.45		1.3		1.600	
Stage: Low ☒				Wetted Width (m): 0.55		0.5		0.600	
Med ☐				Bankfull Depth (m): 0.37		0.3		0.4	
High ☐									
Temp (C): 9		pH: 8.0		Conductivity: 40					
						Turbidity: Turbid ☐		Low ☐	
						Moderate ☐		Clear ☒	
MORPHOLOGY									
Bed Material: Dominant: Cobble		D95 (cm): 20.00		Bars: Non ☒		Side ☐		Diagonal ☐	
Subdominant: Gravels		D (cm): 3.00						Mid-channel ☐	
Channel Pattern: Sinuous		Islands: None		DISTURBANCE		O1		B1	
Coupling: Decoupled				INDICATORS		B2		B3	
Confinement: Occasionally Confine						D1		D2	
Morphology: CP Cascade Pool						D3			
				C1		C2		C3	
				C4		C5		S1	
				S2		S3		S4	
				S5					
COVER									
Total Cover: Abundant		Type: SWD		LWD		B		U	
LWD: None		Amount: N		N		T		S	
LWD Dist: Not Applicable		Location: P/S/O: ☐		☐		☒		☒	
		☐		☐		☒		☒	
Right Bank: Shape: Overhang		Texture: Fines ☒		Gravel ☐		Cobble ☐		Boulder ☐	
Left Bank: Shape: Overhang		Texture: Fines ☒		Gravel ☐		Cobble ☐		Boulder ☐	
Right Bank: Rip.Veg: Shrubs		Stage: Shrub/herb stage		Stage: Shrub/herb stage		Instream Veg: None ☐		Algae ☐	
Left Bank: Rip.Veg:						Moss ☒		Vascular ☐	
FISH									
Site Number	Capture Method	Number of Events	Length fished (m)	Total Time	Voltage	Species	Total Fish	Minimum Length (mm)	Maximum Length (mm)
56	EF	1	300	165 sec	800	NFC	0		

South Fulton Study Area

Reach #	ILP Map #	ILP #	Site
2.0	093L.070	10351	56

Project Name: Smithers Landing Fish Inventory - 2000
Stream Name (gaz.): BABINE RIVER
Project Watershed Code: 480-000000-00000-00000-0000-0000-000-000-000-000-000-000

Gazetted Name:			Local Name: None			
Watershed Code: 480-705800-57200-68352-6090-0000-000-000-000-000-000						
ILP Map#: 093L.070	ILP #: 10351	NID Map #: 093L.070	NID #: 10056	Reach #: 2.0	Site #: 56	
Field UTM (Z.E.N): ..	Method:	Site Lg: 300	Method: MAP	Access: H		
SIS UTM (Z.E.N): 9.682461.6057771			Ref. Name:			
Date: 2001/08/18	Time: 14:15	Agency: C172	Crew: JD/DT	Fish Crd?: ☒	Incomplete	

	Mtd	width	width	width	width	width	width	width	width	width	Avg
Channel Width (m):	MS	1.40	1.50	1.60	1.30	1.40	1.50				1.45
Wetted Width (m):	MS	0.60	0.60	0.50	0.60	0.50	0.50				0.55
Pool Depth (m):	MS	0.20	0.15	0.20	0.15	0.10	0.20				0.17

	Gadient %	Mtd	Avg
Method I:	5.0	6.0	C
Method II:	5.0	4.0	C

Wb Depth:

.4	.4	.3
----	----	----

 Avg: 0.37
 Method: MS
 Stage: L ☒ M ☐ H ☐

No Vis.Ch.: ☐ Intermittent: ☐
 Dw: ☐ Tribs.: ☐

COVER Total: A

Type:	SWD	LWD	B	U	DP	OV	IV
Amount:	N	N	T	S	T	D	T
Loc: P/S/O:	☐	☐	☒	☒	☒	☒	☒

CROWN CLOSURE
 1 1-20%

INSTREAM VEG: N ☐ A ☐ M ☒ V ☐

LWD: N DIST: NA

LB SHP: O RB SHP: O

Texture: F ☒ G ☐ C ☐ B ☐ R ☐ A ☐
Texture: F ☒ G ☐ C ☐ B ☐ R ☐ A ☐

RIP: S RIP: S

STG: SHR STG: SHR

EMS:		Req #:	
Temp: 9	Method: T4	Cond.: 40	Method: S3
pH: 8.0	Method: P2	Turb.: T ☐ M ☐ L ☐ C ☒	Method: GE
Flood Signs: None	Method: GE		

Bed Material:	Dominant: C	Subdom: G													
D95: 20.0	D (cm): 3.00	Morph: CP													
Pattern: SI			DISTURBANCE INDICATORS	O1	B1	B2	B3	D1	D2	D3					
Islands: N				☐	☐	☐	☐	☐	☐	☐					
Coupling: DC				C1	C2	C3	C4	C5	S1	S2	S3	S4	S5		
Confinement: OC				☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		
FSZ: ☐			Bars:	N ☒	SIDE ☐	DIAG ☐	MID ☐	SPAN ☐	BR ☐						

Name	Comments
Overwinter Habitat	No overwintering habitat
Spawning Habitat	Poor spawning habitat-low flows, moss covered channel
Rearing Habitat	Poor rearing habitat-low flows, shallow pools

Photo			Foc Lg	Dir	Comments
R:	07	F: 04	STD	U	upstream photo obscured by overstream vegetation
R:	07	F: 05	STD	D	downstream photo obscured by overstream vegetation

FDIS Site Card

South Fulton Study Area

Watershed Code: 480-705800-57200-68352-6090-0000-000-000-000-000-000	Reach #	ILP Map #	ILP #	Site
	2.0	093L.070	10351	56

COMMENTS	
Section	Comments
CHANNEL	No barriers to upstream fish migration were identified
CHANNEL	S4 Inferred

South Fulton Study Area

480-705800-57200-68352-6090-0000-000-000-000-000-000-000

ILP Map #

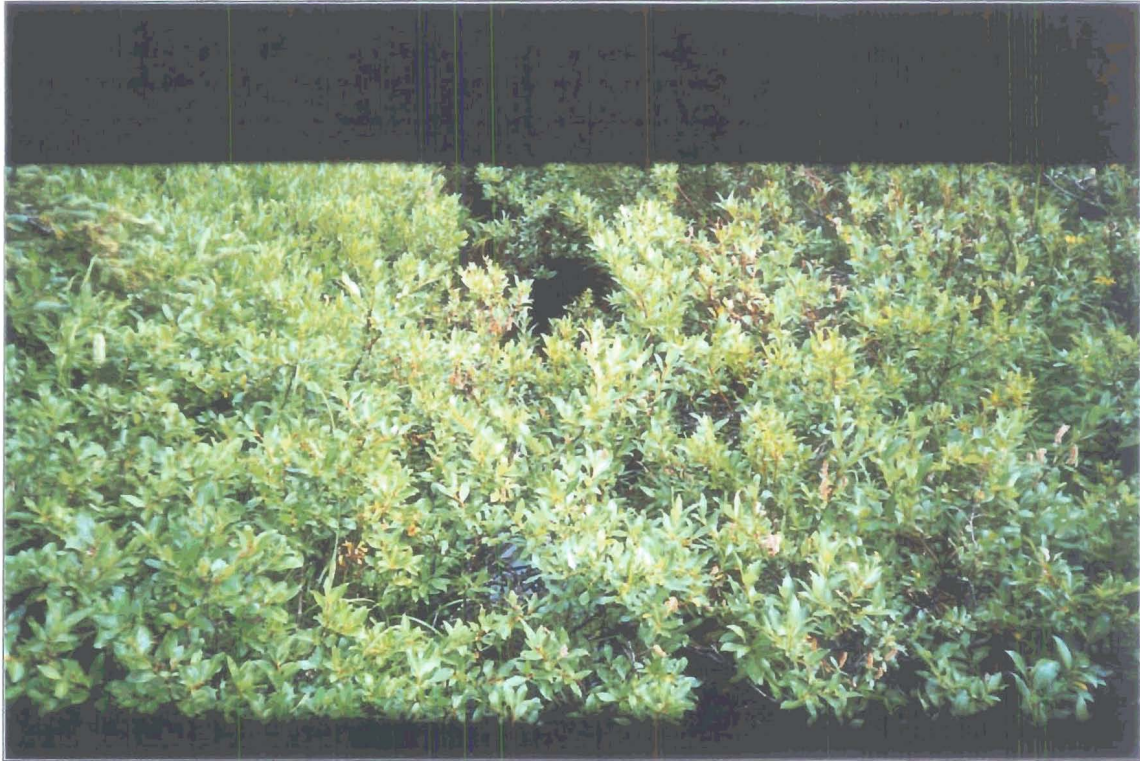
ILP #

2.0

093L.070

10351

Triton Environmental Consultants Ltd.



Site #56, upstream photo obscured by overstream vegetation.
Roll #7, Frame #04, Date: 2001/08/18



Site #56, downstream photo obscured by overstream vegetation.
Roll #7, Frame #05, Date: 2001/08/18

FDIS Reach/Site Summary

South Fulton Study Area

Watershed Code: 480-705800-57200-68352-6090-0000-000-000-000-000-000

Reach # 1.0 ILP Map # 093L.070 ILP # 10351

STREAM REFERENCING																																	
Gazetted Name:					Local Name:																												
Watershed Code: 480-705800-57200-68352-6090-0000-000-000-000-000-000					ILP Map #: 093L.070		ILP #: 10351																										
REACH																																	
Reach #: 1.0		UTM(Zone/East/North): 9.681963.6058007				Sample Type: Random																											
Length (km): .78		Coupling: Decoupled		Magnitude: 4		BGC Zone: ESSF																											
Gradient (%): 7.4		Confinement: Frequently Confin		Order: 3		Open water: Absent																											
US Elev (m): 1385		Islands: NONE		Riparian Vegetation: Shrubs																													
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified																																	
SITE																																	
Site #: 57		Field UTM ..		Agency: C172		Crew: DT/JD		Date: 2001/08/18																									
Site Length (m): 500		GIS UTM 9.681734.6058098		Agency Name: Triton Environmental Consultants (Terrace)																													
CHANNEL																																	
No Vis.Ch.: ☐ Intermittent: ☐																																	
Dewatered: ☐ Tribs.: ☐																																	
Stage: Low ☒																																	
Med ☐																																	
High ☐																																	
Temp (C): 9		pH: 8.0		Conductivity: 40		Turbidity: Turbid ☐ Low ☐																											
						Moderate ☐ Clear ☒																											
MORPHOLOGY																																	
Bed Material: Dominant: Cobble		D95 (cm): 30.00		Bars: Non ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐																													
Subdominant: Gravels		D (cm): 3.00				Braid ☐																											
Channel Pattern: Sinuous		Islands: None		DISTURBANCE INDICATORS																													
Coupling: Decoupled				O1 B1 B2 B3 D1 D2 D3																													
Confinement: Occasionally Confine				C1 C2 C3 C4 C5 S1 S2 S3 S4 S5																													
Morphology: CP Cascade Pool																																	
COVER																																	
Total Cover: Abundant		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>Type:</td> <td>SWD</td> <td>LWD</td> <td>B</td> <td>U</td> <td>DP</td> <td>OV</td> <td>IV</td> </tr> <tr> <td>Amount:</td> <td>T</td> <td>T</td> <td>T</td> <td>S</td> <td>N</td> <td>D</td> <td>T</td> </tr> <tr> <td>Location: P/S/O:</td> <td>☒</td> <td>☒</td> <td>☒</td> <td>☒</td> <td>☐</td> <td>☐</td> <td>☒</td> </tr> </table>								Type:	SWD	LWD	B	U	DP	OV	IV	Amount:	T	T	T	S	N	D	T	Location: P/S/O:	☒	☒	☒	☒	☐	☐	☒
Type:	SWD	LWD	B	U	DP	OV	IV																										
Amount:	T	T	T	S	N	D	T																										
Location: P/S/O:	☒	☒	☒	☒	☐	☐	☒																										
LWD: Few		FSZ: ☐																															
LWD Dist: Clumped																																	
Right Bank: Shape: Overhang		Texture: Fines ☒ Gravel ☐ Cobble ☐ Boulder ☐ Rock ☐ Manmade ☐		Crown Closure																													
Left Bank: Shape: Overhang		Texture: Fines ☒ Gravel ☐ Cobble ☐ Boulder ☐ Rock ☐ Manmade ☐		1-20%																													
Right Bank: Rip.Veg: Shrubs		Stage: Shrub/herb stage		Instream Veg: None ☐ Algae ☐ Moss ☒ Vascular ☐																													
Left Bank: Rip.Veg:		Stage: Shrub/herb stage																															
FISH																																	
Site Number	Capture Method	Number of Events	Length fished (m)	Total Time	Voltage	Species	Total Fish	Minimum Length (mm)	Maximum Length (mm)																								
57	EF	1	200	175 sec	800	RB	2	150	190																								

FDIS Site Card

South Fulton Study Area

Watershed Code: 480-705800-57200-68352-6090-0000-000-000-000-000-000

Reach # 1.0 ILP Map # 093L.070 ILP # 10351 Site 57

PROJECT																																																																																				
Project Name: Smithers Landing Fish Inventory - 2000										Project Code: 3496																																																																										
Stream Name (gaz.): BABINE RIVER																																																																																				
Project Watershed Code: 480-000000-00000-00000-0000-0000-000-000-000-000-000																																																																																				
WATERSHED																																																																																				
Gazetted Name:										Local Name: None																																																																										
Watershed Code: 480-705800-57200-68352-6090-0000-000-000-000-000-000																																																																																				
ILP Map#: 093L.070			ILP #: 10351			NID Map #: 093L.070			NID #: 10057			Reach #: 1.0		Site #: 57																																																																						
Field UTM (Z.E.N): ..					Method:					Site Lg: 500			Method: MAP		Access: H																																																																					
GIS UTM (Z.E.N): 9.681734.6058098										Ref. Name:																																																																										
Date: 2001/08/18			Time: 15:50			Agency: C172			Crew: DT/JD			Fish Crd?: ☒		Incomplete: ☐																																																																						
CHANNEL																																																																																				
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Wb Depth: .5 .5 .4			Avg: 0.47			Method: MS			Stage: L ☒ M ☐ H ☐			No Vis.Ch.: ☐ Intermittent: ☐																																																																								
Dw: ☐			Tribes.: ☐																																																																																	
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WATER																																																																																				
EMS:										Req #:																																																																										
Temp: 9										Cond.: 40																																																																										
pH: 8.0										Method: S3																																																																										
Flood Signs: None										Turb.: T ☐ M ☐ L ☐ C ☒																																																																										
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FDIS Site Card

South Fulton Study Area

Watershed Code: 480-705800-57200-68352-6090-0000-000-000-000-000-000		Reach #	ILP Map #	ILP #	Site
		1.0	093L.070	10351	57
COMMENTS					
Section	Comments				
CHANNEL	IS4 Stream				

South Fulton Study Area

WATERBODY															
Gazetted Name:										Local: None					
Project Code: 480-000000-00000-00000-0000-000-000-000-000-000-0															
WS Code: 480-705800-57200-68352-6090-0000-000-000-000-000-000-000															
Waterbody ID:					ILP Map #: 093L.070					ILP #: 10351		Reach #: 1 -			
Project ID: 3496					Lake/Stream: S					Lake From Date:					
Fish Permit #: 145085K					Date: 2001/08/18			To: 2001/08/18			Agency: C172		Crew: DT/JD		Resample: ☐
SITE / METHOD															
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO		Temp	Cond	Turbid	Comment				
57	093L.070	10057				GPU	EF	1	9	40	C				
A. GEAR SETTINGS															
Site#	MTD/NO		H/P	Date In	Time In	Date Out	Time Out	Comment							
57	EF		1	1	2001/08/18	15:50	2001/08/18	16:20							
C. ELECTROFISHER SPECIFICATIONS															
Site#	MTD/NO		H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model			
57	EF		1	1	O	175	200.0	1.0	800	60	6	SMITH ROOT	12B		
FISH SUMMARY															
Site#	MTD/NO		H/P	Species	Stage	Age	Total #	Lgth (Min/Max)		FishAct	Comment				
57	EF		1	1	RB	A	2	150	190	R					
INDIVIDUAL FISH DATA															
Site#	MTD/NO		H/P	Species	Length	Weight	Sex	Mat	Age		Vch#	Genetic	Roll #	Emmark	Comment
									Str/Smpl#			Str/Smpl#			
57	EF	1	1	RB	150		U	U							
57	EF	1	1	RB	190		U	U							



Site #57, upstream photo of moss covered cobbles.
Roll #7, Frame #06, Date: 2001/08/18



Site #57, downstream photo of overstream vegetation.
Roll #7, Frame #07, Date: 2001/08/18

FDIS Reach Card

South Fulton Study Area

Watershed Code: 480-705800-57200-00000-0000-0000-000-000-000-000-000

Reach # 7.0
ILP Map #
ILP #

PROJECT									
Project Name: Smithers Landing Fish Inventory - 2000					Project Code: 3496				
Stream Name (gaz.): BABINE RIVER									
Project Watershed Code: 480-000000-00000-00000-0000-000-000-000-000-000-000-000									
WATERSHED									
Reach Watershed Code: 480-705800-57200-00000-0000-0000-000-000-000-000-000-000									
ILP Map #:		ILP #:		Reach #:		7.0		NID Map #: 093L.070	
								NID #: 50487	
Air Photos			Names			UTM(Zone/East/North/Method)			
LINE: 30BCC98039			Gaz.: STRIMBOLDH CREEK			9.682429.6057324			
# 32			Local:			Sample Type: B Wetland: ☐			
SURVEY INFO									
Date: 1900/07/06				Agency: C172			Crew: SH		
ATTRIBUTES									
Length (km): .96		Gradient: 8.33		Setting: VW		DISTURBANCE O1 B1 B2 B3 D1 D2 D3			
DS Elev.: 1355		Order: 1		Open water: A		INDICATORS ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐			
US Elev: 1435		Magnitude: 1		Confinement: CO		C1 C2 C3 C4 C5 S1 S2 S3 S4 S5			
		BGC Zone: ESSF		Coupling: PC		☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐			
Valley Flat: N		C/D:				Islands: N			
Active Floodplain Visible: ☐		Est. Width:		Bars: ☒ N ☐ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR					
Channel Pattern: SI				Mass Movement: H		Exposed/Eroded: NS			
				Riparian Veg.: M		Landuse: NS			
MAPS									
Map Type		Map #		Year					
TRIM		093L.070							

Monday, February 11, 2002

FDIS Fish Card

South Fulton Study Area

Watershed Code: 480-705800-57200-00000-0000-0000-000-000-000-000-000

Reach # 7.0
ILP Map #
ILP #

WATERBODY												
Gazetted Name: STRIMBOLDH CREEK										Local: None		
Project Code: 480-000000-00000-00000-0000-000-000-000-000-0												
WS Code: 480-705800-57200-00000-0000-0000-000-000-000-000												
Waterbody ID:				ILP Map #:				ILP #:		Reach #:		7 -
Project ID: 3496				Lake/Stream: S				Lake From Date:				
Fish Permit #:			145085K		Date: 2001/08/19		To: 2001/08/19		Agency: C172		Crew: JD/DT	
Resample: ☐												
SITE / METHOD												
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO	Temp	Cond	Turbid	Comment		
58	093L.070	10058				GPU EF 1	9	50	C			
A. GEAR SETTINGS												
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment					
58	EF	1	2001/08/19	08:45	2001/08/19	09:30						
C. ELECTROFISHER SPECIFICATIONS												
Site#	MTD/NO	H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model	
58	EF	1	1	O	272	200.0	0.6	700	60	6	SMITH ROOT	12B
FISH SUMMARY												
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	FishAct	Comment			
58	EF	1	1	NFC		0						

FDIS Reach/Site Summary

South Fulton Study Area

Watershed Code: 480-705800-57200-81339-0000-0000-000-000-000-000-000

Reach # ILP Map # ILP #

1.0 093L.070 10357

STREAM REFERENCING									
Gazetted Name:					Local Name:				
Watershed Code: 480-705800-57200-81339-0000-0000-000-000-000-000-000					ILP Map #: 093L.070		ILP #: 10357		
REACH									
Reach #: 1.0		UTM(Zone/East/North): 9.681772.6056938				Sample Type: Random			
Length (km): .31		Coupling: Decoupled		Magnitude: 1		BGC Zone: ESSF			
Gradient (%): 1.6		Confinement: Unconfined		Order: 1		Open water: Absent			
US Elev (m): 1354		Islands: NONE		Riparian Vegetation: Shrubs					
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified									
SITE									
Site #: 59		Field UTM ..		Agency: C172		Crew: JD/DT		Date: 2001/08/19	
Site Length (m): 200		GIS UTM 9.681749.6056807		Agency Name: Triton Environmental Consultants (Terrace)					
CHANNEL									
No Vis.Ch.: ☐		Intermittent: ☐		Avg		Min		Max	
Dewatered: ☐		Tribes: ☐		Channel Width (m): 0.95		0.7		1.200	
Stage: Low ☒				Wetted Width (m): 0.55		0.5		0.600	
Med ☐				Bankfull Depth (m): 0.33		0.3		0.4	
High ☐									
Temp (C): 8		pH: 8.1		Conductivity: 70					
						Turbidity: Turbid ☐		Low ☐	
						Moderate ☐		Clear ☒	
MORPHOLOGY									
Bed Material: Dominant: Fines		D95 (cm): 15.00		Bars: Non ☒		Side ☐		Diagonal ☐	
Subdominant: Cobble		D (cm): 1.00				Mid-channel ☐		Span ☐	
Channel Pattern: Tortuous Meanders		Islands: None		DISTURBANCE		O1		B1	
Coupling: Decoupled				INDICATORS		B2		B3	
Confinement: Unconfined						D1		D2	
Morphology: RP Riffle Pool						D3			
				C1		C2		C3	
				C4		C5		S1	
				S2		S3		S4	
				S5					
COVER									
Total Cover: Abundant		Type: SWD		LWD		B		U	
LWD: None		Amount: N		N		N		S	
LWD Dist: Not Applicable		Location: P/S/O:		☐		☐		☒	
				☐		☐		☐	
Right Bank: Shape: Overhang		Texture: Fines ☒		Gravel ☐		Cobble ☐		Boulder ☐	
Left Bank: Shape: Overhang		Texture: Fines ☒		Gravel ☐		Cobble ☐		Boulder ☐	
Right Bank: Rip.Veg: Shrubs				Stage: Shrub/herb stage				Crown Closure	
Left Bank: Rip.Veg:				Stage: Shrub/herb stage		Instream Veg: None ☐		Algae ☐	
						Moss ☒		Vascular ☒	
FISH									
Site Number	Capture Method	Number of Events	Length fished (m)	Total Time	Voltage	Species	Total Fish	Minimum Length (mm)	Maximum Length (mm)
59	EF	1	200	169 sec	700	NFC	0		

South Fulton Study Area

Reach #	ILP Map #	ILP #	Site
1.0	093L-070	10357	59

Triton Environmental Consultants Ltd.

FDIS Site Card

South Fulton Study Area

	Reach #	ILP Map #	ILP #	Site
Watershed Code: 480-705800-57200-81339-0000-0000-000-000-000-000	1.0	093L.070	10357	59

COMMENTS	
Section	Comments
CHANNEL	No barriers to upstream fish migration were identified
CHANNEL	S4 Inferred

FDIS Fish Card

South Fulton Study Area

Watershed Code: 480-705800-57200-81339-0000-0000-000-000-000-000-000 Reach # 1.0 ILP Map # 093L.070 ILP # 10357

WATERBODY												
Gazetted Name:										Local: None		
Project Code: 480-000000-00000-00000-0000-000-000-000-000-0												
WS Code: 480-705800-57200-81339-0000-0000-000-000-000-000-000												
Waterbody ID:					ILP Map #: 093L.070			ILP #: 10357		Reach #: 1 -		
Project ID: 3496					Lake/Stream: S			Lake From Date:				
Fish Permit #: 145085K			Date: 2001/08/19		To: 2001/08/19		Agency: C172		Crew: JD/DT		Resample: ☐	
SITE / METHOD												
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO	Temp	Cond	Turbid	Comment		
59	093L.070	10059				GPU EF 1	8	70	C			
A. GEAR SETTINGS												
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment					
59	EF	1	2001/08/19	09:45	2001/08/19	10:20						
C. ELECTROFISHER SPECIFICATIONS												
Site#	MTD/NO	H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model	
59	EF	1	1	O	169	200.0	0.6	700	60	6	SMITH ROOT	12B
FISH SUMMARY												
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	FishAct	Comment			
59	EF	1	1	NFC		0						



Site #59, downstream photo of channel.
Roll #7, Frame #08, Date: 2001/08/19



Site #59, upstream photo of overstream vegetation.
Roll #7, Frame #09, Date: 2001/08/19

FDIS Reach/Site Summary

South Fulton Study Area

Watershed Code: 480-705800-57200-58676-0000-0000-000-000-000-000

Reach # 1.0 ILP Map # 093L.069 ILP # 10203

STREAM REFERENCING									
Gazetted Name:					Local Name:				
Watershed Code: 480-705800-57200-58676-0000-0000-000-000-000-000					ILP Map #: 093L.069		ILP #: 10203		
REACH									
Reach #: 1.0		UTM(Zone/East/North): 9.681069.6059340				Sample Type: Biased			
Length (km): .68		Coupling: Decoupled		Magnitude: 2		BGC Zone: ESSF			
Gradient (%): 9.7		Confinement: Occasionally Conf		Order: 2		Open water: Absent			
US Elev (m): 1338		Islands: NONE		Riparian Vegetation: Shrubs					
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified									
SITE									
Site #: 60		Field UTM ..		Agency: C172		Crew: JD/DT		Date: 2001/08/19	
Site Length (m): 300		GIS UTM 9.680729.6059268		Agency Name: Triton Environmental Consultants (Terrace)					
CHANNEL									
No Vis.Ch.: ☐		Intermittent: ☐		Avg		Min		Max	
Dewatered: ☐		Tribes.: ☐		Channel Width (m):		1.45		1.3	
Stage: Low ☒				Wetted Width (m):		0.53		0.400	
Med ☐				Bankfull Depth (m):		0.40		0.4	
High ☐				Temp (C): 8		pH: 8.0		Conductivity: 70	
								Turbidity: Turbid ☐ Low ☐	
								Moderate ☐ Clear ☒	
MORPHOLOGY									
Bed Material: Dominant: Cobble		D95 (cm): 30.00		Bars: Non ☒		Side ☐		Diagonal ☐	
Subdominant: Fines		D (cm): 3.00						Mid-channel ☐	
Channel Pattern: Sinuous		Islands: None		DISTURBANCE		O1		B1	
Coupling: Decoupled				INDICATORS		B2		B3	
Confinement: Occasionally Confine						D1		D2	
Morphology: CP Cascade Pool						D3			
						C1		C2	
						C3		C4	
						C5		S1	
						S2		S3	
						S4		S5	
COVER									
Total Cover: Abundant		Type:		SWD		LWD		B	
LWD: Few		Amount:		T		T		N	
LWD Dist: Evenly Distributed		Location: P/S/O:		☒		☒		☒	
				☒		☒		☒	
Right Bank: Shape: Overhang		Texture: Fines ☒		Gravel ☐		Cobble ☐		Boulder ☐	
Left Bank: Shape: Overhang		Texture: Fines ☒		Gravel ☐		Cobble ☐		Boulder ☐	
Right Bank: Rip.Veg: Shrubs		Stage: Shrub/herb stage		Rock ☐		Manmade ☐		Crown Closure	
Left Bank: Rip.Veg:		Stage: Shrub/herb stage		Instream Veg: None ☐		Algae ☐		Moss ☒	
								Vascular ☒	
FISH									
Site Number	Capture Method	Number of Events	Length fished (m)	Total Time	Voltage	Species	Total Fish	Minimum Length (mm)	Maximum Length (mm)
60	EF	1	300	216 sec	600	NFC	0		

South Fulton Study Area

Reach #	ILP Map #	ILP #	Site
1.0	093L.069	10203	60

Triton Environmental Consultants Ltd.

FDIS Site Card

South Fulton Study Area

Watershed Code: 480-705800-57200-58676-0000-0000-000-000-000-000-000

Reach #	ILP Map #	ILP #	Site
1.0	093L.069	10203	60

COMMENTS	
Section	Comments
CHANNEL	No barriers to upstream fish migration were identified
CHANNEL	S4 Inferred

South Fulton Study Area

Reach #	ILP Map #	ILP #
1.0	093L.069	10203

Triton Environmental Consultants Ltd.



Site #60, upstream photo of representative habitat.
Roll #7, Frame #10, Date: 2001/08/19



Site #60, downstream photo showing dominant cover.
Roll #7, Frame #11, Date: 2001/08/19

FDIS Reach/Site Summary

South Fulton Study Area

Watershed Code: 480-705800-00000-00000-0000-000-000-000-000-000-000

Reach # ILP Map # ILP #

35.0

STREAM REFERENCING									
Gazetted Name: TACHEK CREEK					Local Name:				
Watershed Code: 480-705800-00000-00000-0000-000-000-000-000-000					ILP Map #:		ILP #:		
REACH									
Reach #: 35.0		UTM(Zone/East/North): 9.680235.6057109				Sample Type: Random			
Length (km): .36		Coupling: Partially Couple		Magnitude: 2		BGC Zone: ESSF			
Gradient (%): 12.2		Confinement: Confined		Order: 2		Open water: Absent			
US Elev (m): 1338		Islands: NONE		Riparian Vegetation: Mixed C/D					
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified									
SITE									
Site #: 61		Field UTM ..		Agency: C172		Crew: JD/DT/CS		Date: 2001/08/19	
Site Length (m): 150		GIS UTM 9.680038.6056900		Agency Name: Triton Environmental Consultants (Terrace)					
CHANNEL									
No Vis.Ch.: ☒		Intermittent: ☐							
Dewatered: ☐		Tribes: ☐							
Stage: Low ☐									
Med ☐									
High ☐									
Temp (C):		pH:		Conductivity:		Turbidity: Turbid ☐ Low ☐			
						Moderate ☐ Clear ☐			
MORPHOLOGY									
Bed Material: Dominant:		D95 (cm):		Bars: Non ☐ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐					
Subdominant:		D (cm):		Braid ☐					
Channel Pattern:		Islands:		DISTURBANCE INDICATORS					
Coupling:				O1 B1 B2 B3 D1 D2 D3					
Confinement:				C1 C2 C3 C4 C5 S1 S2 S3 S4 S5					
Morphology:									
COVER									
Total Cover:		Type: SWD LWD B U DP OV IV							
LWD:		Amount:							
LWD Dist:		Location: P/S/O: ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐							
Right Bank: Shape:		Texture: Fines ☐ Gravel ☐ Cobble ☐ Boulder ☐ Rock ☐ Manmade ☐ Crown Closure							
Left Bank: Shape:		Texture: Fines ☐ Gravel ☐ Cobble ☐ Boulder ☐ Rock ☐ Manmade ☐							
Right Bank: Rip.Veg:		Stage: ☐							
Left Bank: Rip.Veg:		Stage: ☐							
		Instream Veg: None ☐ Algae ☐ Moss ☐ Vascular ☐							

FDIS Site Card

South Fulton Study Area

Watershed Code: 480-705800-00000-00000-0000-000-000-000-000-000-000

Reach # 35.0 ILP Map # ILP # 61 Site # 61

PROJECT																																																																													
Project Name: Smithers Landing Fish Inventory - 2000																																																																													
Stream Name (gaz.): BABINE RIVER										Project Code: 3496																																																																			
Project Watershed Code: 480-000000-00000-00000-0000-000-000-000-000-000-000																																																																													
WATERSHED																																																																													
Gazetted Name: TACHEK CREEK										Local Name: None																																																																			
Watershed Code: 480-705800-00000-00000-0000-000-000-000-000-000-000																																																																													
ILP Map#:				ILP #:		NID Map #: 093L.069		NID #: 10061		Reach #: 35.0		Site #: 61																																																																	
Field UTM (Z.E.N): ..				Method:				Site Lg: 150		Method: GE		Access: H																																																																	
GIS UTM (Z.E.N): 9.680038.6056900				Ref. Name:																																																																									
Date: 2001/08/19				Time: 12:40		Agency: C172		Crew: JD/DT/CS		Fish Crd?: ☐		Incomplete: ☐																																																																	
CHANNEL																																																																													
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MORPHOLOGY																																																																													
Bed Material: Dominant: Subdom: O1 B1 B2 B3 D1 D2 D3 D95: D (cm): Morph: DISTURBANCE INDICATORS Pattern: C1 C2 C3 C4 C5 S1 S2 S3 S4 S5 Islands: Coupling: Confinement: FSZ: Bars: N ☐ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR ☐																																																																													
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FDIS Site Card

South Fulton Study Area

		Reach #	ILP Map #	ILP #	Site
Watershed Code: 480-705800-00000-00000-0000-0000-000-000-000-000-000		35.0			61
CHANNEL	No connectivity between sections of channel. Moss filled seepage.				
CHANNEL	No Visible Channel				



Site #61, upstream photo of vegetated seepage.
Roll #7, Frame #12, Date: 2001/08/19



Site #61, downstream photo of moss covered section.
Roll #7, Frame #13, Date: 2001/08/19

FDIS Reach/Site Summary

South Fulton Study Area

Reach # ILP Map # ILP #

Watershed Code: 480-705800-00000-00000-0000-000-000-000-000-000

32.0

STREAM REFERENCING									
Gazetted Name: TACHEK CREEK					Local Name:				
Watershed Code: 480-705800-00000-00000-0000-000-000-000-000-000					ILP Map #:		ILP #:		
REACH									
Reach #: 32.0		UTM(Zone/East/North): 9.679002.6056701				Sample Type: Biased			
Length (km): .71		Coupling: Decoupled		Magnitude: 8		BGC Zone: SBS			
Gradient (%): 2.4		Confinement: Unconfined		Order: 3		Open water: Present			
US Elev (m): 1265		Islands: NONE		Riparian Vegetation: Shrubs					
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified									
SITE									
Site #: 62		Field UTM 9.678919.6056862		Agency: C172		Crew: JD/DT/CS		Date: 2001/08/19	
Site Length (m): 100		GIS UTM 9.678946.6056746		Agency Name: Triton Environmental Consultants (Terrace)					
CHANNEL									
No Vis.Ch.: ☐		Intermittent: ☐		Avg		Min		Max	
Dewatered: ☐		Tribes: ☐		Channel Width (m): 1.82		1.5		2.200	
Stage: Low ☐				Wetted Width (m): 1.60		1.4		1.8	
Med ☒				Bankfull Depth (m): 0.33		0.3		0.4	
High ☐									
Temp (C): 12		pH: 7.6		Conductivity: 50		Turbidity: Turbid ☐		Low ☐	
						Moderate ☐		Clear ☒	
MORPHOLOGY									
Bed Material: Dominant: Gravels		D95 (cm): 20.00		Bars: Non ☒		Side ☐		Diagonal ☐	
Subdominant: Cobble		D (cm): 1.00						Mid-channel ☐	
Channel Pattern: Tortuous Meanders		Islands: None		DISTURBANCE		O1		B1	
Coupling: Decoupled				INDICATORS		B2		B3	
Confinement: Unconfined						D1		D2	
Morphology: LC Large Channel						D3			
				C1		C2		C3	
				C4		C5		S1	
				S2		S3		S4	
				S5					
COVER									
Total Cover: Abundant		Type: SWD		LWD		B		U	
LWD: None		Amount: N		N		N		S	
LWD Dist: Not Applicable		Location: P/S/O:		☐		☐		☐	
				☒		☒		☒	
Right Bank: Shape: Overhang		Texture: Fines ☒		Gravel ☐		Cobble ☐		Boulder ☐	
Left Bank: Shape: Overhang		Texture: Fines ☒		Gravel ☐		Cobble ☐		Boulder ☐	
Right Bank: Rip.Veg: Shrubs		Stage: Shrub/herb stage		Instream Veg: None ☐		Algae ☒		Moss ☐	
Left Bank: Rip.Veg:		Stage: Shrub/herb stage						Vascular ☒	
FISH									
Site Number	Capture Method	Number of Events	Length fished (m)	Total Time	Voltage	Species	Total Fish	Minimum Length (mm)	Maximum Length (mm)
62	EF	1	300	430 sec	700	NFC	0		

FDIS Site Card

South Fulton Study Area

Watershed Code: 480-705800-00000-00000-0000-000-000-000-000-000

Reach # 32.0 ILP Map # ILP # Site 62

PROJECT																																																																									
Project Name: Smithers Landing Fish Inventory - 2000 Stream Name (gaz.): BABINE RIVER Project Watershed Code: 480-000000-00000-00000-0000-000-000-000-000-000 Project Code: 3496																																																																									
WATERSHED																																																																									
Gazetted Name: TACHEK CREEK Local Name: None Watershed Code: 480-705800-00000-00000-0000-000-000-000-000-000 ILP Map #: ILP #: NID Map #: 093L.069 NID #: 10062 Reach #: 32.0 Site #: 62 Field UTM (Z.E.N): 9.678919.6056862 Method: GPU Site Lg: 100 Method: GE Access: H GIS UTM (Z.E.N): 9.678946.6056746 Ref. Name: Date: 2001/08/19 Time: 13:20 Agency: C172 Crew: JD/DT/CS Fish Crd?: ☒ Incomplete: ☐																																																																									
CHANNEL																																																																									
<table border="1" style="width:100%; border-collapse: collapse; font-size: 0.8em;"> <thead> <tr> <th></th> <th>Mtd</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>Avg</th> </tr> </thead> <tbody> <tr> <td>Channel Width (m):</td> <td>MS</td> <td>1.80</td> <td>2.20</td> <td>1.60</td> <td>1.80</td> <td>1.50</td> <td>2.00</td> <td></td> <td></td> <td></td> <td>1.82</td> </tr> <tr> <td>Wetted Width (m):</td> <td>MS</td> <td>1.80</td> <td>1.60</td> <td>1.60</td> <td>1.70</td> <td>1.40</td> <td>1.50</td> <td></td> <td></td> <td></td> <td>1.60</td> </tr> <tr> <td>Pool Depth (m):</td> <td>MS</td> <td>0.56</td> <td>0.64</td> <td>0.50</td> <td>0.40</td> <td>0.61</td> <td>0.50</td> <td></td> <td></td> <td></td> <td>0.54</td> </tr> </tbody> </table>													Mtd	width	width	width	width	width	width	width	width	width	Avg	Channel Width (m):	MS	1.80	2.20	1.60	1.80	1.50	2.00				1.82	Wetted Width (m):	MS	1.80	1.60	1.60	1.70	1.40	1.50				1.60	Pool Depth (m):	MS	0.56	0.64	0.50	0.40	0.61	0.50				0.54	<table border="1" style="width:100%; border-collapse: collapse; font-size: 0.8em;"> <thead> <tr> <th></th> <th>Gadient %</th> <th>Mtd</th> <th>Avg</th> </tr> </thead> <tbody> <tr> <td>Method I:</td> <td>1.0 0.5</td> <td>C</td> <td>0.63</td> </tr> <tr> <td>Method II:</td> <td>0.5 0.5</td> <td>C</td> <td></td> </tr> </tbody> </table>			Gadient %	Mtd	Avg	Method I:	1.0 0.5	C	0.63	Method II:	0.5 0.5	C	
	Mtd	width	width	width	width	width	width	width	width	width	Avg																																																														
Channel Width (m):	MS	1.80	2.20	1.60	1.80	1.50	2.00				1.82																																																														
Wetted Width (m):	MS	1.80	1.60	1.60	1.70	1.40	1.50				1.60																																																														
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Wb Depth: <table border="1" style="display: inline-table; border-collapse: collapse;"> <tr><td>.3</td><td>.3</td><td>.4</td></tr> </table> Avg: 0.33 Method: MS Stage: L ☐ M ☒ H ☐												.3	.3	.4	No Vis.Ch.: ☐ Intermittent: ☐ Dw: ☐ Tribs.: ☐																																																										
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COVER Total: A <table border="1" style="width:100%; border-collapse: collapse; font-size: 0.8em;"> <thead> <tr> <th>Type:</th> <th>SWD</th> <th>LWD</th> <th>B</th> <th>U</th> <th>DP</th> <th>OV</th> <th>IV</th> </tr> </thead> <tbody> <tr> <td>Amount:</td> <td>N</td> <td>N</td> <td>N</td> <td>S</td> <td>S</td> <td>D</td> <td>T</td> </tr> <tr> <td>Loc: P/S/O:</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☒</td> <td>☒</td> <td>☒</td> <td>☒</td> </tr> </tbody> </table> LWD: N DIST: NA LB SHP: O Texture: F ☒ G ☐ C ☐ B ☐ R ☐ A ☐ RIP: S STG: SHR CROWN CLOSURE 0 0% INSTREAM VEG: N ☐ A ☒ M ☐ V ☒ RB SHP: O Texture: F ☒ G ☐ C ☐ B ☐ R ☐ A ☐ RIP: S STG: SHR														Type:	SWD	LWD	B	U	DP	OV	IV	Amount:	N	N	N	S	S	D	T	Loc: P/S/O:	☐	☐	☐	☒	☒	☒	☒																																				
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Loc: P/S/O:	☐	☐	☐	☒	☒	☒	☒																																																																		
WATER																																																																									
EMS: Temp: 12 pH: 7.6 Flood Signs: None Method: T4 Method: P2 Method: GE Req #: Cond.: 50 Turb.: T ☐ M ☐ L ☐ C ☒ Method: S3 Method: GE																																																																									
MORPHOLOGY																																																																									
Bed Material: Dominant: G Subdom: C D95: 20.0 D (cm): 1.00 Morph: LC Pattern: TM Islands: N Coupling: DC Confinement: UN FSZ: ☐ DISTURBANCE INDICATORS <table style="width:100%; text-align: center;"> <tr> <td>O1</td><td>B1</td><td>B2</td><td>B3</td><td>D1</td><td>D2</td><td>D3</td> </tr> <tr> <td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td> </tr> <tr> <td>C1</td><td>C2</td><td>C3</td><td>C4</td><td>C5</td><td>S1</td><td>S2</td><td>S3</td><td>S4</td><td>S5</td> </tr> <tr> <td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td> </tr> </table> Bars: N ☒ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR ☐														O1	B1	B2	B3	D1	D2	D3	☐	☐	☐	☐	☐	☐	☐	C1	C2	C3	C4	C5	S1	S2	S3	S4	S5	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐																										
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☐	☐	☐	☐	☐	☐	☐																																																																			
C1	C2	C3	C4	C5	S1	S2	S3	S4	S5																																																																
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FDIS Site Card

South Fulton Study Area

Watershed Code: 480-705800-00000-00000-0000-000-000-000-000-000

Reach #	ILP Map #	ILP #	Site
32.0			62

COMMENTS	
Section	Comments
CHANNEL	Beaver complex downstream may prevent upstream fish migration
CHANNEL	S3 Inferred

FDIS Fish Card

South Fulton Study Area

Reach # ILP Map # ILP #

Watershed Code: 480-705800-00000-00000-0000-0000-000-000-000-000-000-000

32.0

WATERBODY												
Gazetted Name: TACHEK CREEK										Local: None		
Project Code: 480-000000-00000-00000-0000-000-000-000-000-0												
WS Code: 480-705800-00000-00000-0000-000-000-000-000-000												
Waterbody ID:				ILP Map #:				ILP #:		Reach #: 32 -		
Project ID: 3496				Lake/Stream: S				Lake From Date:				
Fish Permit #:			145085K		Date: 2001/08/19		To: 2001/08/19		Agency: C172		Crew: JD/DT/CS	
Resample: ☐												
SITE / METHOD												
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO		Temp	Cond	Turbid	Comment	
62	093L.069	10062				GPU	EF	1	12	50	C	
A. GEAR SETTINGS												
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment					
62	EF	1	1	2001/08/19	13:30	2001/08/19	14:30					
C. ELECTROFISHER SPECIFICATIONS												
Site#	MTD/NO	H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model	
62	EF	1	1	O	430	300.0	1.5	700	60	6	SMITH	12B
											ROOT	
FISH SUMMARY												
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	FishAct	Comment			
62	EF	1	1	NFC		0						



Site #62, upstream photo of a slow moving pool.
Roll #7, Frame #14, Date: 2001/08/19



Site #62, downstream photo showing overstream vegetation.
Roll #7, Frame #15, Date: 2001/08/19

FDIS Reach/Site Summary

South Fulton Study Area

Watershed Code: 480-705800-00000-00000-0000-000-000-000-000-000-000

Reach # ILP Map # ILP #

29.0

STREAM REFERENCING											
Gazetted Name: TACHEK CREEK						Local Name:					
Watershed Code: 480-705800-00000-00000-0000-000-000-000-000-000						ILP Map #:			ILP #:		
REACH											
Reach #: 29.0		UTM (Zone/East/North): 9.677515.6057770				Sample Type: Random					
Length (km): 1.59		Coupling: Partially Couple		Magnitude: 15		BGC Zone: SBS					
Gradient (%): 4.7		Confinement: Frequently Confin		Order: 4		Open water: Absent					
US Elev (m): 1196		Islands: NONE		Riparian Vegetation: Coniferous							
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified											
SITE											
Site #: 75		Field UTM ..		Agency: C172		Crew: DT/JD		Date: 2001/09/26			
Site Length (m): 100		GIS UTM 9.677444.6057751		Agency Name: Triton Environmental Consultants (Terrace)							
CHANNEL											
No Vis.Ch.: ☐		Intermittent: ☐		Avg		Min		Max		#	
Dewatered: ☐		Tribes.: ☐		Channel Width (m): 2.08		1.8		2.400		6	
Stage: Low ☒				Wetted Width (m): 1.62		1.4		1.9		6	
Med ☐				Bankfull Depth (m): 0.47		0.4		0.5		3	
High ☐		Temp (C): 7		pH: 7.9		Conductivity: 40					
								Turbidity: Turbid ☐		Low ☐	
								Moderate ☐		Clear ☒	
MORPHOLOGY											
Bed Material: Dominant: Cobble		D95 (cm): 35.00		Bars: Non ☒		Side ☐		Diagonal ☐		Mid-channel ☐	
Subdominant: Boulders		D (cm): 5.00				Span ☐				Braid ☐	
Channel Pattern: Sinuous		Islands: None		DISTURBANCE INDICATORS		O1		B1		B2	
Coupling: Partially Coupled						B3		D1		D2	
Confinement: Frequently Confined						D3					
Morphology: CP Cascade Pool						C1		C2		C3	
						C4		C5		S1	
						S2		S3		S4	
						S5					
COVER											
Total Cover: Abundant		Type: SWD		LWD		B		U		DP	
LWD: Few		Amount: T		S		T		D		T	
LWD Dist: Evenly Distributed		Location: P/S/O:		☒		☒		☒		☒	
				☒		☒		☒		☒	
Right Bank: Shape: Overhang		Texture: Fines ☒		Gravel ☐		Cobble ☐		Boulder ☐		Rock ☐	
Left Bank: Shape: Overhang		Texture: Fines ☒		Gravel ☐		Cobble ☐		Boulder ☐		Rock ☐	
Right Bank: Rip.Veg: Coniferous		Stage: Young forest								Crown Closure	
Left Bank: Rip.Veg:		Stage: Young forest								1-20%	
								Instream Veg: None ☐		Algae ☐	
								Moss ☒		Vascular ☒	
FISH											
Site Number	Capture Method	Number of Events	Length fished (m)	Total Time	Voltage	Species	Total Fish	Minimum Length (mm)	Maximum Length (mm)		
75	EF	1	100	126 sec	900	RB	3	110	155		

FDIS Site Card

South Fulton Study Area

Watershed Code: 480-705800-00000-00000-0000-000-000-000-000-000-000

Reach # 29.0 ILP Map # ILP # Site 75

PROJECT																																																																													
Project Name: Smithers Landing Fish Inventory - 2000										Project Code: 3496																																																																			
Stream Name (gaz.): BABINE RIVER																																																																													
Project Watershed Code: 480-000000-00000-00000-0000-000-000-000-000-000-000																																																																													
WATERSHED																																																																													
Gazetted Name: TACHEK CREEK										Local Name: None																																																																			
Watershed Code: 480-705800-00000-00000-0000-000-000-000-000-000-000																																																																													
ILP Map#:		ILP #:		NID Map #: 093L.069		NID #: 10075		Reach #: 29.0		Site #: 75																																																																			
Field UTM (Z.E.N): ..				Method:		Site Lg: 100		Method: MAP		Access: H																																																																			
GIS UTM (Z.E.N): 9.677444.6057751						Ref. Name:																																																																							
Date: 2001/09/26		Time: 11:30		Agency: C172		Crew: DT/JD		Fish Crd?: ☒		Incomplete: ☐																																																																			
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Wb Depth: .5 .4 .5		Avg: 0.47		Method: MS		Stage: L ☒ M ☐ H ☐		No Vis.Ch.: ☐ Intermittent: ☐		Dw: ☐ Tribs.: ☐																																																																			
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FDIS Site Card

South Fulton Study Area

Watershed Code: 480-705800-00000-00000-0000-000-000-000-000-000

Reach #	ILP Map #	ILP #	Site
29.0			75

COMMENTS	
Section	Comments
CHANNEL	RB captured
CHANNEL	S3 Stream

FDIS Fish Card

South Fulton Study Area

Watershed Code:

480-705800-00000-00000-0000-0000-000-000-000-000-000

Reach #

ILP Map #

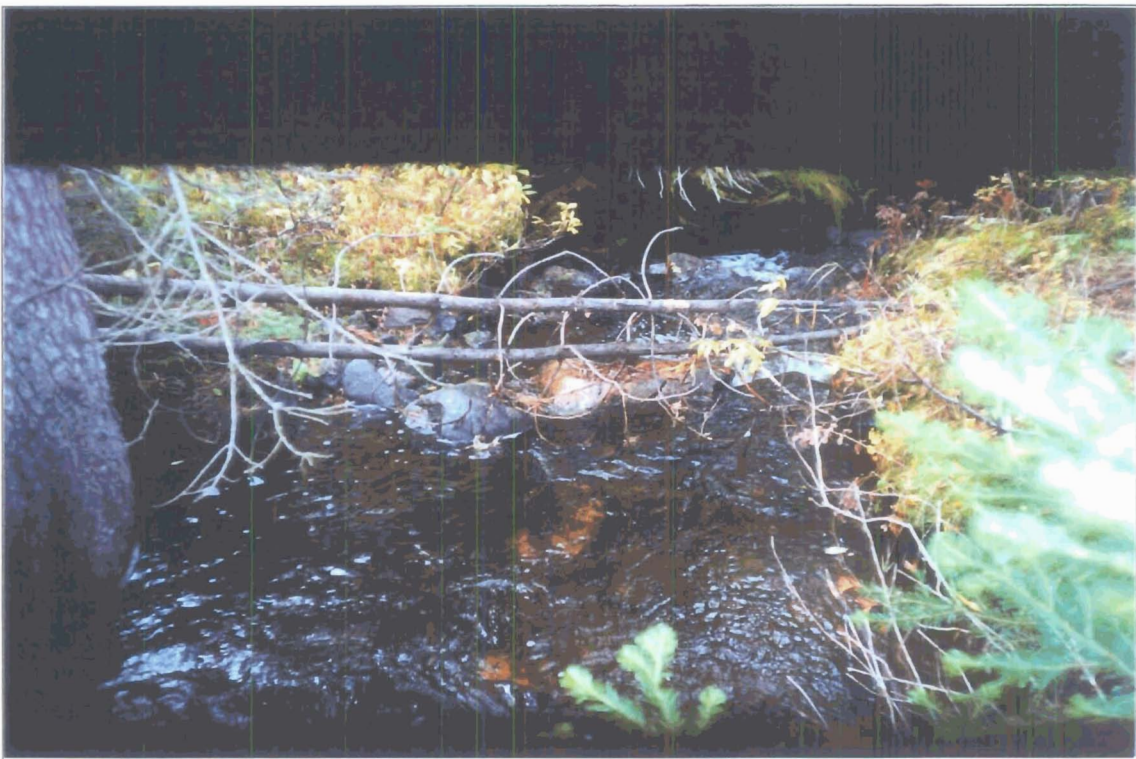
ILP #

29.0

WATERBODY														
Gazetted Name: TACHEK CREEK										Local: None				
Project Code: 480-000000-00000-00000-0000-000-000-000-000-0														
WS Code: 480-705800-00000-00000-0000-000-000-000-000-000														
Waterbody ID:				ILP Map #:				ILP #:		Reach #: 29 -				
Project ID: 3496				Lake/Stream: S				Lake From Date:						
Fish Permit #:		145085K		Date:		2001/09/25		To:		2001/09/26		Agency: C172		
										Crew: JD/DT		Resample: ☐		
SITE / METHOD														
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd				MTD/NO	Temp	Cond	Turbid	Comment			
75	093L.069	10075				GPU	EF 1	7	40	C				
A. GEAR SETTINGS														
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment							
75	EF	1	1	2001/09/26	11:30	2001/09/26	11:50							
C. ELECTROFISHER SPECIFICATIONS														
Site#	MTD/NO	H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model			
75	EF	1	1	O	126	100.0	1.8	900	60	6	SMITH	12B		
											ROOT			
FISH SUMMARY														
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)		FishAct	Comment				
75	EF	1	1	RB	A	3	110	155	R					
INDIVIDUAL FISH DATA														
Site#	MTD/NO	H/P	Species	Length	Weight	Sex	Mat	Age		Vch#	Genetic	Roll #	Frame#	Comment
								Str/Smpl#/Age			Str/Smpl#			
75	EF	1	1	RB	110		U	U						
75	EF	1	1	RB	155		U	U						



Site #75, upstream photo of cascade/pool habitat.
Roll #8, Frame #18, Date: 2001/09/26



Site #75, downstream photo of pool habitat.
Roll #8, Frame #19, Date: 2001/09/26

FDIS Reach Card

South Fulton Study Area

Reach # ILP Map # ILP #

Watershed Code: 480-742900-00000-00000-0000-0000-000-000-000-000-000

2.0

PROJECT

Project Name: Smithers Landing Fish Inventory - 2000
Stream Name (gaz.): BABINE RIVER
Project Watershed Code: 480-000000-00000-00000-0000-0000-000-000-000-000-000

Project Code: 3496

WATERSHED

Reach Watershed Code: 480-742900-00000-00000-0000-0000-000-000-000-000-000
ILP Map #: ILP #: Reach #: 2.0 NID Map #: 093L.080 NID #: 50198
Air Photos Names UTM(Zone/East/North/Method)
LINE: 30BCC97158 Gaz.: 9.690445.6068484 GIS
#: 125 Local: Sockeye Creek Sample Type: R Wetland: ☐

SURVEY INFO

Date: 1900/07/06 Agency: C172 Crew: SH

ATTRIBUTES

Length (km): 1.82 Gradient: 5.05 Setting: VW DISTURBANCE O1 B1 B2 B3 D1 D2 D3
DS Elev.: 731 Order: 5 Open water: A INDICATORS ☐ ☐ ☐ ☐ ☐ ☐ ☐
US Elev: 823 Magnitude: 77 Confinement: EN C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
BGC Zone: SBS Coupling: CO ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐
Valley Flat: N C/D: Islands: N
Active Floodplain Visible: ☐ Est. Width: Bars: ☒ N ☐ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR
Channel Pattern: IR Mass Movement: H Exposed/Eroded: NS
Riparian Veg.: C Landuse: NS

MAPS

Map Type	Map #	Year
TRIM	093L.080	

Monday, February 11, 2002

South Fulton Study Area

Reach #	ILP Map #	ILP #
---------	-----------	-------

Watershed Code: 480-742900-00000-00000-0000-0000-000-000-000-000-000-000

2.0

WATERBODY											
Gazetted Name:						Local: Sockeye Creek					
Project Code: 480-000000-00000-00000-0000-000-000-000-000-0											
WS Code: 480-742900-00000-00000-0000-000-000-000-000-000-0											
Waterbody ID:				ILP Map #:				ILP #:		Reach #: 2 -	
Project ID: 3496				Lake/Stream: S				Lake From Date:			
Fish Permit #: 145085K		Date: 2001/08/01		To: 2001/08/01		Agency: C172		Crew: JD/EL		Resample: ☐	
SITE / METHOD											
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO		Temp	Cond	Turbid	Comment
313	093L.080	10313				GPU	VO 1				
313	093L.080	10313				GPU	VO 2				
313	093L.080	10313				GPU	VO 3				
A. GEAR SETTINGS											
Site#	MTD/NO		H/P	Date In	Time In	Date Out	Time Out	Comment			
313	VO	1	1	2001/08/01	17:20	2001/08/01	17:30				
313	VO	2	1	2001/08/01	17:20	2001/08/01	17:30				
313	VO	3	1	2001/08/01	17:20	2001/08/01	17:30				
FISH SUMMARY											
Site#	MTD/NO		H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	FishAct	Comment	
313	VO	1	1	SK	A		10			S	
313	VO	2	1	SK	A		15			S	
313	VO	3	1	SK	A		10			S	
COMMENTS											
Section			Comments								
WATERBODY			Visually observed from helicopter. Estimates only								

FDIS Reach/Site Summary

South Fulton Study Area

Watershed Code: 480-723719-00000-00000-0000-000-000-000-000-000-000

Reach # 1.0 ILP Map # 093L.080 ILP # 10107

STREAM REFERENCING									
Gazetted Name:					Local Name:				
Watershed Code: 480-723719-00000-00000-0000-000-000-000-000-000					ILP Map #: 093L.080		ILP #: 10107		
REACH									
Reach #: 1.0		UTM(Zone/East/North): 9.687144.6071885				Sample Type: Biased			
Length (km): 1.15		Coupling: Coupled		Magnitude: 3		BGC Zone: SBS			
Gradient (%): 6.7		Confinement: Confined		Order: 2		Open water: Absent			
US Elev (m): 790		Islands: NONE		Riparian Vegetation: Mixed C/D					
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified									
SITE									
Site #: 12		Field UTM ..		Agency: C172		Crew: EL/JD		Date: 2001/08/01	
Site Length (m): 100		GIS UTM 9.687998.6072209		Agency Name: Triton Environmental Consultants (Terrace)					
CHANNEL									
No Vis.Ch.: ☐		Intermittent: ☐		Avg		Min		Max	
Dewatered: ☐		Tribes.: ☐		Channel Width (m): 2.20		1.8		2.6	
Stage: Low ☒				Wetted Width (m): 1.33		1.100		1.600	
Med ☐				Bankfull Depth (m): 0.47		0.4		0.5	
High ☐		Temp (C): 8		pH: 7.8		Conductivity: 50			
						Turbidity: Turbid ☐		Low ☐	
						Moderate ☐		Clear ☒	
MORPHOLOGY									
Bed Material: Dominant: Gravels		D95 (cm): 40.00		Bars: Non ☒		Side ☐		Diagonal ☐	
Subdominant: Cobble		D (cm): 10.00				Mid-channel ☐		Span ☐	
Channel Pattern: Sinuous		Islands: None		DISTURBANCE INDICATORS					
Coupling: Partially Coupled				O1 B1 B2 B3 D1 D2 D3					
Confinement: Frequently Confined				C1 C2 C3 C4 C5 S1 S2 S3 S4 S5					
Morphology: RP Riffle Pool									
COVER									
Total Cover: Abundant		Type: SWD		LWD		B		U	
LWD: Few		Amount: T		D		N		S	
LWD Dist: Evenly Distributed		Location: P/S/O:		☒		☒		☒	
				☒		☒		☒	
Right Bank: Shape: Overhang		Texture: Fines ☒		Gravel ☐		Cobble ☐		Boulder ☐	
Left Bank: Shape: Overhang		Texture: Fines ☒		Gravel ☐		Cobble ☐		Boulder ☐	
Right Bank: Rip.Veg: Coniferous		Stage: Mature forest		Instream Veg: None ☐		Algae ☐		Moss ☒	
Left Bank: Rip.Veg:		Stage: Mature forest				Vascular ☒			
FEATURES									
NID Map	NID	Type	Hgt	Method	Lg	Method	Photo	AirPhoto	UTM (Z/E/N)
093L.080	88005	CV	.9	GE	7	GE	R: 2 F: 3 L:	#:	9.688048.6072
Comments: Partial barrier to fish									

South Fulton Study Area

Watershed Code: 480-723719-00000-00000-0000-0000-000-000-000-000-000

Reach #	ILP Map #	ILP #
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1.0	093L.080	10107
-----	----------	-------

SITE									
Site #: 14		Field UTM 9.687560.6072000		Agency: C172		Crew: ELJJD		Date: 2001/08/01	
Site Length (m): 600		GIS UTM9.687720.6072128		Agency Name: Triton Environmental Consultants (Terrace)					
CHANNEL									
No Vis.Ch.: ☐		Intermittent: ☐		Avg		Min		Max	
Dewatered: ☐		Tribes.: ☐		Channel Width (m): 1.85		1.600		2.1	
Stage: Low ☐				Wetted Width (m): 1.32		0.9		1.600	
Med ☒				Bankfull Depth (m): 0.33		0.3		0.4	
High ☐									
Temp (C): 8		pH: 7.8		Conductivity: 50					
				Avg		Min		Max	
				Gradient %: 3.75		3		5	
				Pool Depth (m): 0.17		0.100		0.300	
				Turbidity.: Turbid ☐		Low ☐			
				Moderate ☐		Clear ☒			
MORPHOLOGY									
Bed Material: Dominant: Boulders		D95 (cm): 132.00		Bars: Non ☒		Side ☐		Diagonal ☐	
Subdominant: Cobble		D (cm): 7.00				Mid-channel ☐		Span ☐	
Channel Pattern: Sinuous		Islands: None		DISTURBANCE INDICATORS		O1		B1	
Coupling: Coupled						B2		B3	
Confinement: Confined						D1		D2	
Morphology: RP Riffle Pool						D3			
				C1		C2		C3	
				C4		C5		S1	
				S2		S3		S4	
				S5					
COVER									
Total Cover: Abundant		Type: SWD		LWD		B		U	
LWD: Few		Amount: T		T		S		N	
LWD Dist: Evenly Distributed		Location: P/S/O: ☒		☒		☒		☒	
		☒		☒		☒		☒	
Right Bank: Shape: Sloping (g)		Texture: Fines ☐		Gravel ☒		Cobble ☒		Boulder ☐	
Left Bank: Shape: Sloping (g)		Texture: Fines ☐		Gravel ☒		Cobble ☒		Boulder ☐	
Right Bank: Rip.Veg: Mixed C/D		Stage: Mature forest		Rock ☐		Manmade ☐		Crown Closure	
Left Bank: Rip.Veg:		Stage: Mature forest		Instream Veg: None ☐		Algae ☐		Moss ☒	
				Vascular ☐				41-70%	
FEATURES									
NID Map	NID	Type	Hgt	Method	Lg	Method	Photo	AirPhoto	UTM (Z/E/N)
093L.080	88006	F	1.7	MS			R: 2 F: 08 L:	#:	9.687544.6071
Comments: Vertical Falls-no plunge pool									
FISH									
Site Number	Capture Method	Number of Events	Length fished (m)	Total Time	Voltage	Species	Total Fish	Minimum Length (mm)	Maximum Length (mm)
12	EF	1	100	86 sec	600	RB	5	60	90
12	EF	1	100	86 sec	600	CO	12	50	71
14	EF	1	200	161 sec	600	RB	6	50	85
14	EF	1	200	161 sec	600	CO	4	45	60
314	EF	1	200	263 sec	600	NFC	0		

South Fulton Study Area

ILP #
10107

WATERBODY																
Gazetted Name:										Local: None						
Project Code: 480-000000-00000-00000-0000-000-000-000-000-000-0																
WS Code: 480-723719-00000-00000-0000-0000-000-000-000-000-000																
Waterbody ID:										ILP Map #: 093L.080		ILP #: 10107		Reach #: 1 -		
Project ID: 3496										Lake/Stream: S			Lake From Date:			
Fish Permit #: 145085K					Date: 2001/08/01			To: 2001/08/02		Agency: C172		Crew: JD/EL		Resample: ☐		
SITE / METHOD																
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO		Temp	Cond	Turbid	Comment					
314	093L.080	10314				GPU	EF 3	8	50	C	Above Falls					
14	093L.080	10014				GPU	EF 2	8	50	C						
12	093L.080	10012				GPU	EF 1	8	50	C						
A: GEAR SETTINGS																
Site#	MTD/NO		H/P	Date In	Time In	Date Out	Time Out	Comment								
12	EF 1		1	2001/08/01	14:30	2001/08/01	15:00									
14	EF 2		1	2001/08/02	13:30	2001/08/02	14:30									
314	EF 3		1	2001/08/02	14:30	2001/08/02	15:00									
C: ELECTROFISHER SPECIFICATIONS																
Site#	MTD/NO		H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model				
12	EF		1	1	O	86	100.0	1.2	600	60	6	SMITH ROOT	12B			
14	EF		2	1	O	161	200.0	1.0	600	60	6	SMITH ROOT	12B			
314	EF		3	1	O	263	200.0	1.0	600	60	6	SMITH ROOT	12B			
FISH SUMMARY																
Site#	MTD/NO		H/P	Species	Stage	Age	Total #	Lgth (Min/Max)		FishAct	Comment					
12	EF		1	1	CO	J	12	50	71	R						
12	EF		1	1	RB	J	5	60	90	R						
14	EF		2	1	CO	J	4	45	60	R						
14	EF		2	1	RB	J	6	50	85	R						
314	EF		3	1	NFC		0									
INDIVIDUAL FISH DATA																
Site#	MTD/NO	H/P	Species	Length	Weight	Sex	Mat	Age		Vch#	Genetic		Roll #	Frame#	Comment	
								Str/Smpl#/Age			Str/Smpl#					
12	EF	1	1	RB	85		U	U								
12	EF	1	1	RB	90		U	U								
12	EF	1	1	RB	72		U	U								
12	EF	1	1	RB	60		U	U								
12	EF	1	1	RB	68		U	U								
12	EF	1	1	CO	60		U	U								
12	EF	1	1	CO	55		U	U								
12	EF	1	1	CO	71		U	U		7						
12	EF	1	1	CO	50		U	U								
12	EF	1	1	CO	62		U	U								
12	EF	1	1	CO	58		U	U								
12	EF	1	1	CO	65		U	U								
12	EF	1	1	CO	55		U	U								
12	EF	1	1	CO	60		U	U								
12	EF	1	1	CO	50		U	U								
12	EF	1	1	CO	54		U	U								
12	EF	1	1	CO	56		U	U								
14	EF	2	1	CO	50		U	U								
14	EF	2	1	CO	60		U	U								
14	EF	2	1	CO	50		U	U								
14	EF	2	1	CO	45		U	U								
14	EF	2	1	RB	80		U	U								

FDIS Fish Card

South Fulton Study Area

Watershed Code: 480-723719-00000-00000-0000-000-000-000-000-000-000

Reach # 1.0
 ILP Map # 093L.080
 ILP # 10107

INDIVIDUAL FISH DATA																	
Site#	MTD/NO		H/P	Species	Length	Weight	Sex	Mat	Age			Vch#	Genetic		Roll #	Frame#	Comment
									Str/Smpl#/Age				Str/Smpl#				
14	EF	2	1	RB	60		U	U									
14	EF	2	1	RB	85		U	U									
14	EF	2	1	RB	70		U	U									
14	EF	2	1	RB	50		U	U									
14	EF	2	1	RB	65		U	U									

FDIS Reach Card

South Fulton Study Area

Watershed Code: 480-705800-00000-00000-0000-000-000-000-000-000-000

Reach # 31.0
ILP Map #
ILP #

PROJECT									
Project Name: Smithers Landing Fish Inventory - 2000					Project Code: 3496				
Stream Name (gaz.): BABINE RIVER									
Project Watershed Code: 480-000000-00000-00000-0000-000-000-000-000-000-000									
WATERSHED									
Reach Watershed Code: 480-705800-00000-00000-00000-0000-000-000-000-000-000									
ILP Map #:		ILP #:		Reach #:		NID Map #:		NID #:	
Air Photos		Names		UTM(Zone/East/North/Method)		GIS			
LINE:		Gaz.: TACHEK CREEK		9.678697.6057264		Sample Type: B Wetland: ☒			
#:		Local:							
SURVEY INFO									
Date: 1900/07/06			Agency: C172			Crew: SH			
ATTRIBUTES									
Length (km): .73		Gradient: 1.37		Setting: VF		DISTURBANCE			
DS Elev.: 1238		Order: 3		Open water: P		INDICATORS			
US Elev: 1248		Magnitude: 12		Confinement: UN		C1 C2 C3 C4 C5 S1 S2 S3 S4 S5			
		BGC Zone: SBS		Coupling: DC		☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐			
Valley Flat: L		C/D: C		Islands: N					
Active Floodplain Visible: ☐		Est. Width:		Bars: ☒ N ☐ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR					
Channel Pattern: IM				Mass Movement: L		Exposed/Eroded: NS			
				Riparian Veg.: M		Landuse: NS			
MAPS									
Map Type		Map #		Year					
TRIM		093L.069							

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FDIS Fish Card

South Fulton Study Area

Reach # ILP Map # ILP #

Watershed Code: 480-705800-00000-00000-0000-000-000-000-000-000-000

31.0

WATERBODY											
Gazetted Name: TACHEK CREEK						Local: None					
Project Code: 480-000000-00000-00000-0000-000-000-000-000-0											
WS Code: 480-705800-00000-00000-0000-000-000-000-000-000											
Waterbody ID:				ILP Map #:				ILP #:		Reach #: 31 -	
Project ID: 3496				Lake/Stream: S				Lake From Date:			
Fish Permit #: 145085K		Date: 2001/09/25		To: 2001/09/25		Agency: C172		Crew: DT/JD		Resample: ☐	
SITE / METHOD											
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO		Temp	Cond	Turbid	Comment
331	093L.069	10331				GPU	MT	1			
331	093L.069	10331				GPU	MT	2			
331	093L.069	10331				GPU	MT	3			
331	093L.069	10331				GPU	MT	4			
331	093L.069	10331				GPU	MT	5			
A. GEAR SETTINGS											
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment				
331	MT 1	1	2001/09/25	11:00	2001/09/26	12:00					
331	MT 2	1	2001/09/25	11:00	2001/09/26	12:00					
331	MT 3	1	2001/09/25	11:00	2001/09/26	12:00					
331	MT 4	1	2001/09/25	11:00	2001/09/26	12:00					
331	MT 5	1	2001/09/25	11:00	2001/09/26	12:00					
B. NET/TRAP SPECIFICATIONS											
Site #	MTD/NO.		H/P	Net Type	Length	Depth	Mesh	Set	Habitat		
331	MT 1		1			0.6		BT	L		
331	MT 2		1			0.5		BT	L		
331	MT 3		1			0.4		BT	L		
331	MT 4		1			0.6		BT	L		
331	MT 5		1			0.5		BT	L		
FISH SUMMARY											
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	FishAct	Comment		
331	MT 1	1	NFC			0					
331	MT 2	1	NFC			0					
331	MT 3	1	NFC			0					
331	MT 4	1	NFC			0					
331	MT 5	1	NFC			0					

FDIS Reach Card

South Fulton Study Area

Watershed Code: 480-705800-00000-00000-0000-0000-000-000-000-000-000-000

Reach # 33.0
ILP Map #
ILP #

PROJECT												
Project Name: Smithers Landing Fish Inventory - 2000					Project Code: 3496							
Stream Name (gaz.): BABINE RIVER												
Project Watershed Code: 480-000000-00000-00000-0000-0000-000-000-000-000-000-000												
WATERSHED												
Reach Watershed Code: 480-705800-00000-00000-0000-0000-000-000-000-000-000-000												
ILP Map #:	ILP #:	Reach #:	33.0	NID Map #:	093L.069	NID #:	50348					
Air Photos	Names			UTM(Zone/East/North/Method)								
LINE: 30BCC98024	Gaz.: TACHEK CREEK			9.679717.6056463			GIS					
#: 147	Local:			Sample Type: B			Wetland: ☒					
SURVEY INFO												
Date: 1900/07/06			Agency: C172			Crew: SH						
ATTRIBUTES												
Length (km): 1.27	Gradient: 0.16	Setting: VF	DISTURBANCE			O1	B1	B2	B3	D1	D2	D3
DS Elev.: 1265	Order: 3	Open water: P	INDICATORS			☐	☐	☐	☐	☐	☐	☐
US Elev: 1267	Magnitude: 3	Confinement: UN	C1	C2	C3	C4	C5	S1	S2	S3	S4	S5
BGC Zone: SBS	Coupling: DC		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Valley Flat: L	C/D: C	Islands: N										
Active Floodplain Visible: ☐	Est. Width:	Bars: ☒ N ☐ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR										
Channel Pattern: IM		Mass Movement: L	Exposed/Eroded: NS									
		Riparian Veg.: M	Landuse: NS									
MAPS												
Map Type	Map #	Year										
TRIM	093L.069											

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FDIS Fish Card

South Fulton Study Area

Watershed Code: 480-705800-00000-00000-0000-000-000-000-000-000-000

Reach # 33.0
ILP Map #
ILP #

WATERBODY															
Gazetted Name: TACHEK CREEK										Local:					
Project Code: 480-000000-00000-00000-0000-000-000-000-000-000-0															
WS Code: 480-705800-00000-00000-0000-000-000-000-000-000-000															
Waterbody ID:					ILP Map #:					ILP #:		Reach #: 33 -			
Project ID: 3496					Lake/Stream: S					Lake From Date:					
Fish Permit #: 145085K					Date: 2001/09/25			To: 2001/09/26		Agency: C172		Crew: DT/JD		Resample: ☐	
SITE / METHOD															
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO		Temp	Cond	Turbid	Comment				
332	093L.069	10332				GPU	MT	1							
332	093L.069	10332				GPU	MT	2							
332	093L.069	10332				GPU	MT	3							
332	093L.069	10332				GPU	MT	4							
332	093L.069	10332				GPU	MT	5							
A. GEAR SETTINGS															
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment								
332	MT 1	1	2001/09/25	11:00	2001/09/26	12:00									
332	MT 2	1	2001/09/25	11:00	2001/09/26	12:00									
332	MT 3	1	2001/09/25	11:00	2001/09/26	12:00									
332	MT 4	1	2001/09/25	11:00	2001/09/26	12:00									
332	MT 5	1	2001/09/25	11:00	2001/09/26	12:00									
B. NET/TRAP SPECIFICATIONS															
Site #	MTD/NO.		H/P	Net Type	Length	Depth	Mesh	Set	Habitat						
332	MT 1		1			0.6		BT	L						
332	MT 2		1			0.8		BT	L						
332	MT 3		1			0.4		BT	L						
332	MT 4		1			0.9		BT	L						
332	MT 5		1			0.6		BT	L						
FISH SUMMARY															
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	FishAct	Comment						
332	MT 1	1	NFC			0									
332	MT 2	1	LKC	J		2	45 60	R							
332	MT 3	1	NFC			0									
332	MT 4	1	NFC			0									
332	MT 5	1	NFC			0									
INDIVIDUAL FISH DATA															
Site#	MTD/NO	H/P	Species	Length	Weight	Sex	Mat	Age		Vch#	Genetic		Roll #	Frame#	Comment
								Str/Smpl#	Age		Str/Smpl#				
332	MT 2	1	LKC	45		U	U								
332	MT 2	1	LKC	60		U	U								

FDIS Reach Card

South Fulton Study Area

Watershed Code: 480-705800-57200-00000-0000-0000-000-000-000-000

Reach # 6.0
ILP Map #
ILP #

PROJECT									
Project Name: Smithers Landing Fish Inventory - 2000					Project Code: 3496				
Stream Name (gaz.): BABINE RIVER									
Project Watershed Code: 480-000000-00000-00000-0000-000-000-000-000-000									
WATERSHED									
Reach Watershed Code: 480-705800-57200-00000-0000-0000-000-000-000-000-000									
ILP Map #:	ILP #:	Reach #:	6.0	NID Map #:	093L.070	NID #:	50486		
Air Photos	Names			UTM(Zone/East/North/Method)					
LINE: 30BCC98039	Gaz.: STRIMBOLDH CREEK			9.681891.6056606 GIS					
#: 32	Local:			Sample Type: B Wetland: ☒					
SURVEY INFO									
Date: 1900/07/06			Agency: C172			Crew: SH			
ATTRIBUTES									
Length (km): 1.49	Gradient: 0.34	Setting: VF	DISTURBANCE INDICATORS						
DS Elev.: 1350	Order: 2	Open water: P	O1	B1	B2	B3	D1	D2	D3
US Elev: 1355	Magnitude: 2	Confinement: UN	C1	C2	C3	C4	C5	S1	S2
BGC Zone: ESSF	Coupling: DC								
Valley Flat: B	C/D: C	Islands: N							
Active Floodplain Visible: ☐	Est. Width:	Bars: ☒ N ☐ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR							
Channel Pattern: IM		Mass Movement: L	Exposed/Eroded: NS						
		Riparian Veg.: M	Landuse: NS						
MAPS									
Map Type	Map #	Year							
TRIM	093L.070								

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FDIS Fish Card

South Fulton Study Area

Watershed Code: 480-705800-57200-00000-0000-0000-000-000-000-000-000

Reach # ILP Map # ILP #
6.0

WATERBODY													
Gazetted Name: STRIMBOLDH CREEK										Local: None			
Project Code: 480-000000-00000-00000-0000-000-000-000-000-0													
WS Code: 480-705800-57200-00000-0000-0000-000-000-000-000-000													
Waterbody ID:				ILP Map #:				ILP #:		Reach #: 6 -			
Project ID: 3496				Lake/Stream: S				Lake From Date:					
Fish Permit #:		145085K		Date:		2001/09/25		To:		2001/09/26		Agency: C172	
										Crew: DT/JD		Resample: ☐	
SITE / METHOD													
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO		Temp	Cond	Turbid	Comment		
333	093L.070	10333				GPU	MT	1					
333	093L.070	10333				GPU	MT	2					
333	093L.070	10333				GPU	MT	3					
333	093L.070	10333				GPU	MT	4					
333	093L.070	10333				GPU	MT	5					
A. GEAR SETTINGS													
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment						
333	MT	1	2001/09/25	10:40	2001/09/26	12:30							
333	MT	2	2001/09/25	10:40	2001/09/26	12:30							
333	MT	3	2001/09/25	10:40	2001/09/26	12:30							
333	MT	4	2001/09/25	10:40	2001/09/26	12:30							
333	MT	5	2001/09/25	10:40	2001/09/26	12:30							
B. NET/TRAP SPECIFICATIONS													
Site #	MTD/NO.		H/P	Net Type	Length	Depth	Mesh	Set	Habitat				
333	MT		1	1		0.6		BT	L				
333	MT		2	1		0.8		BT	L				
333	MT		3	1		0.9		BT	L				
333	MT		4	1		0.6		BT	L				
333	MT		5	1		0.9		BT	L				
FISH SUMMARY													
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	FishAct	Comment				
333	MT	1	1	NFC		0							
333	MT	2	1	NFC		0							
333	MT	3	1	NFC		0							
333	MT	4	1	NFC		0							
333	MT	5	1	NFC		0							

FDIS Reach/Site Summary

South Fulton Study Area

Watershed Code: 480-705800-57200-20805-0000-0000-000-000-000-000-000

Reach # 1.0 ILP Map # 093L.069 ILP # 10187

STREAM REFERENCING									
Gazetted Name:					Local Name:				
Watershed Code: 480-705800-57200-20805-0000-0000-000-000-000-000-000					ILP Map #: 093L.069		ILP #: 10187		
REACH									
Reach #: 1.0		UTM(Zone/East/North): 9.677224.6062093				Sample Type: Biased			
Length (km): 1.18		Coupling: Decoupled		Magnitude: 2		BGC Zone: SBS			
Gradient (%): 2.6		Confinement: Occasionally Conf		Order: 2		Open water: Absent			
US Elev (m): 1084		Islands: NONE		Riparian Vegetation: Mixed C/D					
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified									
SITE									
Site #: 351		Field UTM ..		Agency: C172		Crew: JA/SH		Date: 2001/10/05	
Site Length (m): 100		GIS UTM 9.676479.6062024		Agency Name: Triton Environmental Consultants (Terrace)					
CHANNEL									
No Vis.Ch.: ☐		Intermittent: ☐		Avg		Min		Max	
Dewatered: ☐		Tribes.: ☐		Channel Width (m): 0.77		0.51		0.9	
Stage: Low ☒				Wetted Width (m): 0.58		0.48		0.71	
Med ☐				Bankfull Depth (m): 0.23		0.1		0.4	
High ☐		Temp (C): 6		pH: 8.0		Conductivity: 40			
						Turbidity: Turbid ☐		Low ☐	
						Moderate ☐		Clear ☒	
MORPHOLOGY									
Bed Material: Dominant: Fines		D95 (cm): 3.00		Bars: Non ☒		Side ☐		Diagonal ☐	
Subdominant: Not Applicable		D (cm): 1.00				Mid-channel ☐		Span ☐	
Channel Pattern: Sinuous		Islands: None		DISTURBANCE		O1		B1	
Coupling: Decoupled				INDICATORS		☐		☐	
Confinement: Unconfined				C1		C2		C3	
Morphology: RP Riffle Pool				C4		C5		S1	
				S2		S3		S4	
				S5					
COVER									
Total Cover: Moderate		Type: SWD		LWD		B		U	
LWD: Few		Amount: S		S		N		S	
LWD Dist: Evenly Distributed		Location: P/S/O:		☒		☒		☒	
				☐		☐		☐	
Right Bank: Shape: Undercut		Texture: Fines ☒		Gravel ☐		Cobble ☐		Boulder ☐	
Left Bank: Shape: Undercut		Texture: Fines ☒		Gravel ☐		Cobble ☐		Boulder ☐	
Right Bank: Rip.Veg: Mixed C/D		Stage: Mature forest		Instream Veg: None ☐		Algae ☐		Moss ☒	
Left Bank: Rip.Veg:		Stage: Mature forest						Vascular ☐	
FISH									
Site Number	Capture Method	Number of Events	Length fished (m)	Total Time	Voltage	Species	Total Fish	Minimum Length (mm)	Maximum Length (mm)
351	EF	1	100	69 sec	600	NFC	0		

FDIS Site Card

South Fulton Study Area

Watershed Code: 480-705800-57200-20805-0000-0000-000-000-000-000-000

Reach # 1.0 ILP Map # 093L.069 ILP # 10187 Site 351

PROJECT																																																																													
Project Name: Smithers Landing Fish Inventory - 2000										Project Code: 3496																																																																			
Stream Name (gaz.): BABINE RIVER																																																																													
Project Watershed Code: 480-000000-00000-00000-0000-000-000-000-000-000-000																																																																													
WATERSHED																																																																													
Gazetted Name:										Local Name: None																																																																			
Watershed Code: 480-705800-57200-20805-0000-0000-000-000-000-000-000																																																																													
ILP Map#: 093L.069		ILP #: 10187		NID Map #: 093L.069		NID #: 30051		Reach #: 1.0		Site #: 351																																																																			
Field UTM (Z.E.N): ..				Method:		Site Lg: 100		Method: HC		Access: V2																																																																			
GIS UTM (Z.E.N): 9.676479.6062024						Ref. Name:																																																																							
Date: 2001/10/05		Time: 09:57		Agency: C172		Crew: JA/SH		Fish Crd?: ☒		Incomplete: ☐																																																																			
CHANNEL																																																																													
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>Mtd</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>Avg</th> </tr> </thead> <tbody> <tr> <td>Channel Width (m):</td> <td>MS</td> <td>0.90</td> <td>0.81</td> <td>0.73</td> <td>0.51</td> <td>0.83</td> <td>0.79</td> <td>0.82</td> <td></td> <td></td> <td></td> <td>0.77</td> </tr> <tr> <td>Wetted Width (m):</td> <td>MS</td> <td>0.71</td> <td>0.61</td> <td>0.52</td> <td>0.48</td> <td>0.51</td> <td>0.69</td> <td>0.51</td> <td></td> <td></td> <td></td> <td>0.58</td> </tr> <tr> <td>Pool Depth (m):</td> <td>MS</td> <td>0.05</td> <td>0.10</td> <td>0.04</td> <td>0.03</td> <td>0.09</td> <td>0.11</td> <td>0.13</td> <td></td> <td></td> <td></td> <td>0.08</td> </tr> </tbody> </table>													Mtd	width	width	width	width	width	width	width	width	width	width	Avg	Channel Width (m):	MS	0.90	0.81	0.73	0.51	0.83	0.79	0.82				0.77	Wetted Width (m):	MS	0.71	0.61	0.52	0.48	0.51	0.69	0.51				0.58	Pool Depth (m):	MS	0.05	0.10	0.04	0.03	0.09	0.11	0.13				0.08	<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>Gadient %</th> <th>Mtd</th> <th>Avg</th> </tr> </thead> <tbody> <tr> <td>Method I:</td> <td>2.0</td> <td>3.0</td> <td>C</td> </tr> <tr> <td>Method II:</td> <td>1.0</td> <td>2.0</td> <td>C</td> </tr> </tbody> </table>			Gadient %	Mtd	Avg	Method I:	2.0	3.0	C	Method II:	1.0	2.0	C
	Mtd	width	width	width	width	width	width	width	width	width	width	Avg																																																																	
Channel Width (m):	MS	0.90	0.81	0.73	0.51	0.83	0.79	0.82				0.77																																																																	
Wetted Width (m):	MS	0.71	0.61	0.52	0.48	0.51	0.69	0.51				0.58																																																																	
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	Gadient %	Mtd	Avg																																																																										
Method I:	2.0	3.0	C																																																																										
Method II:	1.0	2.0	C																																																																										
Wb Depth: .4 .2 .1		Avg: 0.23		Method: MS		Stage: L ☒ M ☐ H ☐		No Vis.Ch.: ☐ Intermittent: ☐		Dw: ☐ Tribs.: ☐																																																																			
COVER				Total: M																																																																									
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Type:</th> <th>SWD</th> <th>LWD</th> <th>B</th> <th>U</th> <th>DP</th> <th>OV</th> <th>IV</th> </tr> </thead> <tbody> <tr> <td>Amount:</td> <td>S</td> <td>S</td> <td>N</td> <td>S</td> <td>N</td> <td>D</td> <td>T</td> </tr> <tr> <td>Loc: P/S/O:</td> <td>☒</td> <td>☒</td> <td>☐</td> <td>☒</td> <td>☐</td> <td>☒</td> <td>☒</td> </tr> </tbody> </table>												Type:	SWD	LWD	B	U	DP	OV	IV	Amount:	S	S	N	S	N	D	T	Loc: P/S/O:	☒	☒	☐	☒	☐	☒	☒	CROWN CLOSURE		1 1-20%																																							
Type:	SWD	LWD	B	U	DP	OV	IV																																																																						
Amount:	S	S	N	S	N	D	T																																																																						
Loc: P/S/O:	☒	☒	☐	☒	☐	☒	☒																																																																						
INSTREAM VEG: N ☐ A ☐ M ☒ V ☐																																																																													
LWD: F				DIST: E																																																																									
LB SHP: U				RB SHP: U																																																																									
Texture: F ☒ G ☐ C ☐ B ☐ R ☐ A ☐				Texture: F ☒ G ☐ C ☐ B ☐ R ☐ A ☐																																																																									
RIP: M				RIP: M																																																																									
STG: MF				STG: MF																																																																									
WATER																																																																													
EMS:				Method: T4				Req #:		Method: S3																																																																			
Temp: 6				Method: P2				Cond.: 40		Method: GE																																																																			
pH: 8.0				Method: GE				Turb.: T ☐ M ☐ L ☐ C ☒																																																																					
Flood Signs: None																																																																													
MORPHOLOGY																																																																													
Bed Material: Dominant: F				Subdom: NA				O1 B1 B2 B3 D1 D2 D3																																																																					
D95: 3.00 D (cm): 1.00				Morph: RP				DISTURBANCE INDICATORS																																																																					
Pattern: SI								C1 C2 C3 C4 C5 S1 S2 S3 S4 S5																																																																					
Islands: N																																																																													
Coupling: DC																																																																													
Confinement: UN																																																																													
FSZ: ☐								Bars: N ☒ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR ☐																																																																					
HABITAT QUALITY																																																																													
Name				Comments																																																																									
Rearing Habitat				Moderate - associated with undercut banks and overhanging vegetation																																																																									
OverWinter Habitat				Low - associated with no deep pools																																																																									
Spawning Habitat				Low - associated with no clean patches of gravel																																																																									
PHOTOS																																																																													
Photo		Foc Lg		Dir		Comments																																																																							
R:	91	F:	24	STD		U		upstream photo of small woody debris and overhanging vegetation observed in sample site																																																																					
R:	92	F:	01	STD		D		downstream photo of typical habitat found within site																																																																					

FDIS Site Card

South Fulton Study Area

Watershed Code: 480-705800-57200-20805-0000-0000-000-000-000-000-000

Reach #	ILP Map #	ILP #	Site
1.0	093L.069	10187	351

COMMENTS	
Section	Comments
CHANNEL	S4 default, No Fish Captured

FDIS Fish Card

South Fulton Study Area

Watershed Code: 480-705800-57200-20805-0000-0000-000-000-000-000-000

Reach # 1.0 ILP Map # 093L.069 ILP # 10187

WATERBODY													
Gazetted Name:										Local: None			
Project Code: 480-000000-00000-00000-0000-000-000-000-000-0													
WS Code: 480-705800-57200-20805-0000-0000-000-000-000-000-000													
Waterbody ID:				ILP Map #: 093L.069				ILP #: 10187		Reach #: 1 -			
Project ID: 3496				Lake/Stream: S				Lake From Date:					
Fish Permit #:		145085K		Date: 2001/10/05		To: 2001/10/05		Agency: C172		Crew: JA/SH		Resample: ☐	
SITE / METHOD													
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO	Temp	Cond	Turbid	Comment			
351	093L.069	30051				GPU EF 1	6	40	C				
A. GEAR SETTINGS													
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment						
351	EF 1	1	2001/10/05	09:57	2001/10/05	10:25							
C. ELECTROFISHER SPECIFICATIONS													
Site#	MTD/NO	H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model		
351	EF 1	1	O	69	100.0	0.8	600	1	5	SMITH ROOT	12B		
FISH SUMMARY													
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	FishAct	Comment				
351	EF 1	1	NFC			0							



Site #351, upstream photo of small woody debris and overhanging vegetation observed in sample site.
Roll #91, Frame #24, Date: 2001/10/05



Site #351, downstream photo of typical habitat found within site.
Roll #92, Frame #01, Date: 2001/10/05

FDIS Reach/Site Summary

South Fulton Study Area

Watershed Code: 480-705800-57200-20805-1000-0000-000-000-000-000-000

Reach # ILP Map # ILP #
1.0 093L.069 10188

STREAM REFERENCING									
Gazetted Name:					Local Name:				
Watershed Code: 480-705800-57200-20805-1000-0000-000-000-000-000-000					ILP Map #: 093L.069		ILP #: 10188		
REACH									
Reach #: 1.0		UTM(Zone/East/North): 9.676775.6061977				Sample Type: Biased			
Length (km): .45		Coupling: Decoupled		Magnitude: 1		BGC Zone: SBS			
Gradient (%): 4.0		Confinement: Unconfined		Order: 1		Open water: Absent			
US Elev (m): 1073		Islands: NONE		Riparian Vegetation: Mixed C/D					
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified									
SITE									
Site #: 352		Field UTM ..		Agency: C172		Crew: JA/SH		Date: 2001/10/05	
Site Length (m): 100		GIS UTM 9.676433.6061964		Agency Name: Triton Environmental Consultants (Terrace)					
CHANNEL									
No Vis.Ch: ☒		Intermittent: ☐		Avg		Min		Max	
Dewatered: ☐		Tribes: ☐		Channel Width (m): 0.00		0		0	
Stage: Low ☐				Wetted Width (m): 0.00		0		0	
Med ☐				Bankfull Depth (m): 0.00		0		0	
High ☐									
Temp (C):		pH:		Conductivity:		Turbidity: Turbid ☐		Low ☐	
						Moderate ☐		Clear ☐	
MORPHOLOGY									
Bed Material: Dominant:		D95 (cm):		Bars: Non ☐		Side ☐		Diagonal ☐	
Subdominant:		D (cm):						Mid-channel ☐	
Channel Pattern:		Islands:		DISTURBANCE		O1		B1	
Coupling:				INDICATORS		B2		B3	
Confinement:				C1		C2		C3	
Morphology:				C4		C5		S1	
				C6		S2		S3	
				C7		S4		S5	
				C8		S6		S7	
				C9		S8		S9	
				C10		S10		S11	
				C11		S12		S13	
				C12		S14		S15	
				C13		S16		S17	
				C14		S18		S19	
				C15		S20		S21	
				C16		S22		S23	
				C17		S24		S25	
				C18		S26		S27	
				C19		S28		S29	
				C20		S30		S31	
				C21		S32		S33	
				C22		S34		S35	
				C23		S36		S37	
				C24		S38		S39	
				C25		S40		S41	
				C26		S42		S43	
				C27		S44		S45	
				C28		S46		S47	
				C29		S48		S49	
				C30		S50		S51	
				C31		S52		S53	
				C32		S54		S55	
				C33		S56		S57	
				C34		S58		S59	
				C35		S60		S61	
				C36		S62		S63	
				C37		S64		S65	
				C38		S66		S67	
				C39		S68		S69	
				C40		S70		S71	
				C41		S72		S73	
				C42		S74		S75	
				C43		S76		S77	
				C44		S78		S79	
				C45		S80		S81	
				C46		S82		S83	
				C47		S84		S85	
				C48		S86		S87	
				C49		S88		S89	
				C50		S90		S91	
				C51		S92		S93	
				C52		S94		S95	
				C53		S96		S97	
				C54		S98		S99	
				C55		S100		S101	
				C56		S102		S103	
				C57		S104		S105	
				C58		S106		S107	
				C59		S108		S109	
				C60		S110		S111	
				C61		S112		S113	
				C62		S114		S115	
				C63		S116		S117	
				C64		S118		S119	
				C65		S120		S121	
				C66		S122		S123	
				C67		S124		S125	
				C68		S126		S127	
				C69		S128		S129	
				C70		S130		S131	
				C71		S132		S133	
				C72		S134		S135	
				C73		S136		S137	
				C74		S138		S139	
				C75		S140		S141	
				C76		S142		S143	
				C77		S144		S145	
				C78		S146		S147	
				C79		S148		S149	
				C80		S150		S151	
				C81		S152		S153	
				C82		S154		S155	
				C83		S156		S157	
				C84		S158		S159	
				C85		S160		S161	
				C86		S162		S163	
				C87		S164		S165	
				C88		S166		S167	
				C89		S168		S169	
				C90		S170		S171	
				C91		S172		S173	
				C92		S174		S175	
				C93		S176		S177	
				C94		S178		S179	
				C95		S180		S181	
				C96		S182		S183	
				C97		S184		S185	
				C98		S186		S187	
				C99		S188		S189	
				C100		S190		S191	
				C101		S192		S193	
				C102		S194		S195	
				C103		S196		S197	
				C104		S198		S199	
				C105		S200		S201	
				C106		S202		S203	
				C107		S204		S205	
				C108		S206		S207	
				C109		S208		S209	
				C110		S210		S211	
				C111		S212		S213	
				C112		S214		S215	
				C113		S216		S217	
				C114		S218		S219	
				C115		S220		S221	
				C116		S222		S223	
				C117		S224		S225	
				C118		S226		S227	
				C119		S228		S229	
				C120		S230		S231	
				C121		S232		S233	
				C122		S234		S235	
				C123		S236		S237	
				C124		S238		S239	
				C125		S240		S241	
				C126		S242		S243	
				C127		S244		S245	
				C128		S246		S247	
				C129		S248		S249	
				C130		S250		S251	
				C131		S252		S253	
				C132		S254		S255	
				C133		S256		S257	
				C134		S258		S259	
				C135		S260		S261	
				C136		S262		S263	
				C137		S264		S265	
				C138		S266		S267	
				C139		S268		S269	
				C140		S270		S271	
				C141		S272		S273	
				C142		S274		S275	
				C143		S276		S277	
				C144		S278		S279	
				C145		S280		S281	
				C146		S282		S283	
				C147		S284		S285	
				C148		S286		S287	
				C149		S288		S289	
				C150		S290		S291	
				C151		S292		S293	
				C152		S294		S295	
				C153		S296		S297	
				C154		S298		S299	
				C155		S300		S301	
				C156		S302		S303	
				C157		S304		S305	
				C158		S306		S307	
				C159		S308		S309	
				C160		S310		S311	
				C161		S312		S313	
				C162		S314		S315	
				C163		S316		S317	
				C164		S318		S319	
				C165		S320		S321	
				C166		S322		S323	
				C167		S324		S325	
				C168		S326		S327	
				C169		S328		S329	
				C170		S330		S331	
				C171		S332		S333	
				C172		S334		S335	
				C173		S336		S337	
				C174		S338		S339	
				C175		S340		S341	
				C176		S3			

FDIS Site Card

South Fulton Study Area

Watershed Code: 480-705800-57200-20805-1000-0000-000-000-000-000-000

Reach # 1.0 ILP Map # 093L.069 ILP # 10188 Site 352

PROJECT																																																																														
Project Name: Smithers Landing Fish Inventory - 2000																																																																														
Stream Name (gaz.): BABINE RIVER										Project Code: 3496																																																																				
Project Watershed Code: 480-000000-00000-00000-0000-0000-000-000-000-000-000																																																																														
WATERSHED																																																																														
Gazetted Name:										Local Name: None																																																																				
Watershed Code: 480-705800-57200-20805-1000-0000-000-000-000-000-000																																																																														
ILP Map#: 093L.069					ILP #: 10188					NID Map #: 093L.069																																																																				
Field UTM (Z.E.N): ..					Method:					Site Lg: 100																																																																				
GIS UTM (Z.E.N): 9.676433.6061964					Ref. Name:					Access: V2																																																																				
Date: 2001/10/05					Time: 10:30					Agency: C172																																																																				
					Crew: JA/SH					Fish Crd?: ☐ Incomplete: ☐																																																																				
CHANNEL																																																																														
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>Mtd</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>Avg</th> </tr> </thead> <tbody> <tr> <td>Channel Width (m):</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>0.00</td> </tr> <tr> <td>Wetted Width (m):</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>0.00</td> </tr> <tr> <td>Pool Depth (m):</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>0.00</td> </tr> </tbody> </table>													Mtd	width	width	width	width	width	width	width	width	width	width	Avg	Channel Width (m):												0.00	Wetted Width (m):												0.00	Pool Depth (m):												0.00	<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>Gadient %</th> <th>Mtd</th> <th>Avg</th> </tr> </thead> <tbody> <tr> <td>Method I:</td> <td>3.0</td> <td>2.0</td> <td>C</td> </tr> <tr> <td>Method II:</td> <td>2.0</td> <td>1.0</td> <td>C</td> </tr> </tbody> </table>				Gadient %	Mtd	Avg	Method I:	3.0	2.0	C	Method II:	2.0	1.0	C
	Mtd	width	width	width	width	width	width	width	width	width	width	Avg																																																																		
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Wetted Width (m):												0.00																																																																		
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Wb Depth:																																																																														
COVER																																																																														
Total:																																																																														
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Temp: Method:																																																																														
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Flood Signs: Method:																																																																														
Req #:																																																																														
Cond.: Method:																																																																														
Turb.: T ☐ M ☐ L ☐ C ☐ Method: GE																																																																														
MORPHOLOGY																																																																														
Bed Material: Dominant: Subdom: O1 B1 B2 B3 D1 D2 D3																																																																														
D95: D (cm): Morph: DISTURBANCE INDICATORS																																																																														
Pattern: Islands: Coupling: Confinement: FSZ: ☐																																																																														
C1 C2 C3 C4 C5 S1 S2 S3 S4 S5																																																																														
Bars: N ☐ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR ☐																																																																														
HABITAT QUALITY																																																																														
Name: Comments																																																																														
Other: No fish habitat due to No Visible Channel																																																																														
PHOTOS																																																																														
Photo: Foc Lg: Dir: Comments																																																																														
R: 92 F: 02 STD U upstream photo of typical habitat found within site																																																																														
R: 92 F: 03 STD D downstream photo of typical vegetation found within site																																																																														
COMMENTS																																																																														
Section: Comments																																																																														

FDIS Site Card

South Fulton Study Area

	Reach #	ILP Map #	ILP #	Site
Watershed Code: 480-705800-57200-20805-1000-0000-000-000-000-000-000	1.0	093L.069	10188	352

COMMENTS	
Section	Comments
CHANNEL	pockets of depression, alder swirl
CHANNEL	No Visible Channel

FDIS Reach/Site Summary

South Fulton Study Area

Watershed Code: 480-705800-59106-00000-0000-000-000-000-000-000

Reach # 1.0 ILP Map # 093L.069 ILP # 10157

STREAM REFERENCING																																														
Gazetted Name:					Local Name:																																									
Watershed Code: 480-705800-59106-00000-0000-000-000-000-000-000					ILP Map #: 093L.069		ILP #: 10157																																							
REACH																																														
Reach #: 1.0		UTM(Zone/East/North): 9.674650.6060513				Sample Type: Biased																																								
Length (km): 1.63		Coupling: Decoupled		Magnitude: 1		BGC Zone: SBS																																								
Gradient (%): 3.0		Confinement: Occasionally Conf		Order: 1		Open water: Absent																																								
US Elev (m): 1079		Islands: NONE		Riparian Vegetation: Mixed C/D																																										
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified																																														
SITE																																														
Site #: 353		Field UTM ..		Agency: C172		Crew: JAVSH		Date: 2001/10/05																																						
Site Length (m): 100		GIS UTM 9.674845.6060916		Agency Name: Triton Environmental Consultants (Terrace)																																										
CHANNEL																																														
No Vis.Ch.: ☒ Intermittent: ☐		Dewatered: ☐ Tribs.: ☐		<table border="1"><thead><tr><th></th><th>Avg</th><th>Min</th><th>Max</th><th>#</th></tr></thead><tbody><tr><td>Channel Width (m):</td><td>0.00</td><td>0</td><td>0</td><td>0</td></tr><tr><td>Wetted Width (m):</td><td>0.00</td><td>0</td><td>0</td><td>0</td></tr><tr><td>Bankfull Depth (m):</td><td>0.00</td><td>0</td><td>0</td><td>0</td></tr></tbody></table>					Avg	Min	Max	#	Channel Width (m):	0.00	0	0	0	Wetted Width (m):	0.00	0	0	0	Bankfull Depth (m):	0.00	0	0	0	<table border="1"><thead><tr><th></th><th>Avg</th><th>Min</th><th>Max</th><th>#</th></tr></thead><tbody><tr><td>Gradient %:</td><td>1.50</td><td>1</td><td>2</td><td>4</td></tr><tr><td>Pool Depth (m):</td><td>0.00</td><td>0</td><td>0</td><td>0</td></tr></tbody></table>					Avg	Min	Max	#	Gradient %:	1.50	1	2	4	Pool Depth (m):	0.00	0	0	0
	Avg	Min	Max	#																																										
Channel Width (m):	0.00	0	0	0																																										
Wetted Width (m):	0.00	0	0	0																																										
Bankfull Depth (m):	0.00	0	0	0																																										
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Gradient %:	1.50	1	2	4																																										
Pool Depth (m):	0.00	0	0	0																																										
Stage: Low ☐ Med ☐ High ☐		Temp (C):		pH:		Conductivity:		Turbidity: Turbid ☐ Low ☐ Moderate ☐ Clear ☐																																						
MORPHOLOGY																																														
Bed Material: Dominant:		D95 (cm):		Bars: Non ☐ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐																																										
Subdominant:		D (cm):		Braid ☐																																										
Channel Pattern:		Islands:		DISTURBANCE INDICATORS																																										
Coupling:				O1 B1 B2 B3 D1 D2 D3																																										
Confinement:				C1 C2 C3 C4 C5 S1 S2 S3 S4 S5																																										
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Total Cover:		<table border="1"><thead><tr><th>Type:</th><th>SWD</th><th>LWD</th><th>B</th><th>U</th><th>DP</th><th>OV</th><th>IV</th></tr></thead><tbody><tr><td>Amount:</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>Location: P/S/O:</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></tbody></table>								Type:	SWD	LWD	B	U	DP	OV	IV	Amount:								Location: P/S/O:																				
Type:	SWD	LWD	B	U	DP	OV	IV																																							
Amount:																																														
Location: P/S/O:																																														
LWD:		FSZ: ☐																																												
LWD Dist:																																														
Right Bank: Shape:		Texture: Fines ☐ Gravel ☐ Cobble ☐ Boulder ☐ Rock ☐ Manmade ☐		Crown Closure																																										
Left Bank: Shape:		Texture: Fines ☐ Gravel ☐ Cobble ☐ Boulder ☐ Rock ☐ Manmade ☐		1-20%																																										
Right Bank: Rip.Veg:		Stage:																																												
Left Bank: Rip.Veg:		Stage:		Instream Veg: None ☐ Algae ☐ Moss ☐ Vascular ☐																																										



Site #352, upstream photo of typical habitat found within site.
Roll #92, Frame #02, Date: 2001/10/05



Site #352, downstream photo of typical vegetation found within site.
Roll #92, Frame #03, Date: 2001/10/05

FDIS Site Card

South Fulton Study Area

Watershed Code: 480-705800-59106-00000-0000-0000-000-000-000-000-000

Reach #	ILP Map #	ILP #	Site
1.0	093L.069	10157	353

PROJECT

Project Name: Smithers Landing Fish Inventory - 2000
Stream Name (gaz.): BABINE RIVER
Project Watershed Code: 480-000000-00000-00000-0000-0000-000-000-000-000-000

Project Code: 3496

WATERSHED

Gazetted Name: Watershed Code: 480-705800-59106-00000-0000-000-000-000-000-000-000-000
ILP Map#: 093L.069 ILP #: 10157 NID Map #: 093L.069 NID #: 30053 Reach #: 1.0 Site #: 353
Field UTM (Z.E.N): ... Method: Site Lg: 100 Method: HC Access: V2
GIS UTM (Z.E.N): 9.674845.6060916 Ref. Name:
Date: 2001/10/05 Time: 11:04 Agency: C172 Crew: JA/SH Fish Crd?: ☐ Incomplete: ☐

CHANNEL

	Mtd	width	width	width	width	width	width	width	width	width	width	Avg
Channel Width (m):												0.00
Wetted Width (m):												0.00
Pool Depth (m):												0.00

	Gadient %	Mtd	Avg
Method I:	1.0 2.0	C	1.50
Method II:	2.0 1.0	C	

Wb Depth: Avg: 0.00 Method: MS Stage: L ☐ M ☐ H ☐

No Vis.Ch.: ☒ Intermittent: ☐
Dw: ☐ Tribs.: ☐

COVER Total:

Type:	SWD	LWD	B	U	DP	OV	IV
Amount:							
Loc: P/S/O:							

CROWN CLOSURE

1 1-20%

INSTREAM VEG: N ☐ A ☐ M ☐ V ☐

LWD: DIST:

LB SHP:

Texture: F ☐ G ☐ C ☐ B ☐ R ☐ A ☐

RB SHP:

Texture: F ☐ G ☐ C ☐ B ☐ R ☐ A ☐

RIP:

RIP:

STG:

STG:

WATER

EMS: Temp: Method: Req #: Cond.: Method:
pH: Method: Turb.: T ☐ M ☐ L ☐ C ☐ Method: GE
Flood Signs: Method:

MORPHOLOGY

Bed Material: Dominant: Subdom: O1 B1 B2 B3 D1 D2 D3
D95: D (cm): Morph: DISTURBANCE INDICATORS
Pattern: C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
Islands: Coupling: Bars: N ☐ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR ☐
Confinement: FSZ: ☐

HABITAT QUALITY

Name Comments
Other No fish habitat due to No Visible Channel

PHOTOS

Photo	Foc Lg	Dir	Comments
R: 92 F: 04 STD U			upstream photo of typical vegetation found within site
R: 92 F: 05 STD D			downstream photo of typical vegetation found within site

COMMENTS

Section Comments

FDIS Site Card

South Fulton Study Area

Watershed Code: 480-705800-59106-00000-0000-0000-000-000-000-000-000

Reach #1.0

ILP Map #093L.069

ILP #10157

Site353

COMMENTS	
Section	Comments
CHANNEL	No Visible Channel , NS



Site #353, upstream photo of typical vegetation found within site.
Roll #92, Frame #04, Date: 2001/10/05



Site #353, downstream photo of typical vegetation found within site.
Roll #92, Frame #05, Date: 2001/10/05

24.0

Triton Environmental Consultants Ltd.

FDIS Site Card

South Fulton Study Area

Watershed Code: 480-705800-00000-00000-0000-000-000-000-000-000-000

Reach # 24.0 ILP Map # ILP # Site 355

PROJECT

Project Name: Smithers Landing Fish Inventory - 2000
Stream Name (gaz.): BABINE RIVER Project Code: 3496
Project Watershed Code: 480-000000-00000-00000-0000-000-000-000-000-000-000

WATERSHED

Gazetted Name: TACHEK CREEK Local Name: None
Watershed Code: 480-705800-00000-00000-0000-000-000-000-000-000-000
ILP Map#: ILP #: NID Map #: 093L.069 NID #: 30055 Reach #: 24.0 Site #: 355
Field UTM (Z.E.N.): .. Method: Site Lg: 100 Method: HC Access: V2
GIS UTM (Z.E.N.): 9.673951.6059913 Ref. Name:
Date: 2001/10/05 Time: 12:15 Agency: C172 Crew: JA/SH Fish Crd?: ☒ Incomplete: ☐

CHANNEL

	Mtd	width	width	width	width	width	width	width	width	width	width	Avg		Gadient %	Mtd	Avg	
Channel Width (m):	MS	2.80	3.60	4.20	4.70	4.60	4.30					4.03	Method I:	5.0	4.0	C	4.00
Wetted Width (m):	MS	2.60	3.10	3.50	2.10	3.30	4.00					3.10	Method II:	3.0	4.0	C	
Pool Depth (m):	MS	0.18	0.21	0.33	0.26	0.10	0.41	0.67				0.31					

Wb Depth: .4 .7 .6 Avg: 0.57 Method: MS Stage: L ☐ M ☒ H ☐ No Vis.Ch.: ☐ Intermittent: ☐ Dw: ☐ Tribs.: ☐

COVER Total: M

Type:	SWD	LWD	B	U	DP	OV	IV
Amount:	S	D	T	S	S	T	T
Loc: P/S/O:	☒	☒	☒	☒	☒	☒	☒

CROWN CLOSURE

1 1-20%

INSTREAM VEG: N ☐ A ☐ M ☒ V ☐

LWD: F DIST: E

LB SHP: V

Texture: F ☒ G ☐ C ☐ B ☐ R ☐ A ☐

RIP: M

STG: MF

RB SHP: U

Texture: F ☒ G ☐ C ☐ B ☐ R ☐ A ☐

RIP: M

STG: MF

WATER

EMS: Req #: 60
Temp: 8 Method: T4 Cond.: 60 Method: S3
pH: 8.0 Method: P2 Method: GE
Flood Signs: None Method: GE
Turb.: T ☐ M ☐ L ☐ C ☒

MORPHOLOGY

Bed Material: Dominant: C Subdom: G O1 B1 B2 B3 D1 D2 D3
D95: 26.0 D (cm): 3.00 Morph: RP DISTURBANCE INDICATORS
Pattern: IR C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
Islands: N
Coupling: DC
Confinement: UN
FSZ: ☐ Bars: N ☐ SIDE ☒ DIAG ☐ MID ☐ SPAN ☐ BR ☐

HABITAT QUALITY

Name	Comments
Rearing Habitat	High - associated with undercut banks, large woody debris and overhanging vegetation
OverWinter Habitat	Moderate - associated with perennial flow and deep pools
Spawning Habitat	High - associated with clean patches of gravel

PHOTOS

Photo	Foc Lg	Dir	Comments
R: 92 F: 06	STD	U	upstream photo of typical large woody debris found within sample site
R: 92 F: 07	STD	D	downstream photo of typical morphology observed within sample site

FDIS Site Card

South Fulton Study Area

Watershed Code: 480-705800-00000-00000-0000-000-000-000-000-000-000-000

Reach #24.0

ILP Map #

ILP #

Site355

COMMENTS	
Section	Comments
CHANNEL	S3, RB captured

FDIS Fish Card

South Fulton Study Area

Reach # ILP Map # ILP #

Watershed Code: 480-705800-00000-00000-0000-0000-000-000-000-000-000

24.0

WATERBODY															
Gazetted Name: TACHEK CREEK										Local: None					
Project Code: 480-000000-00000-00000-0000-000-000-000-000-0															
WS Code: 480-705800-00000-00000-0000-000-000-000-000-000															
Waterbody ID:				ILP Map #:				ILP #:		Reach #: 24 -					
Project ID: 3496				Lake/Stream: S				Lake From Date:							
Fish Permit #:		145085K		Date:		2001/10/05		To:		2001/10/05		Agency: C172			
Crew:		JA/SH		Resample:											
SITE / METHOD															
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd				MTD/NO		Temp	Cond	Turbid	Comment			
355	093L.069	30055				GPU	EF	1	8	60	C				
A. GEAR SETTINGS															
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment								
355	EF	1	1	2001/10/05	12:15	2001/10/05	12:50								
C. ELECTROFISHER SPECIFICATIONS															
Site#	MTD/NO	H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model				
355	EF	1	1	O	200	100.0	4.3	600	1	5	SMITH ROOT	12B			
FISH SUMMARY															
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)		FishAct	Comment					
355	EF	1	1	RB	J		2	90	110	R					
355	EF	1	1	RB	F		3	35	51	R					
INDIVIDUAL FISH DATA															
Site#	MTD/NO	H/P	Species	Length	Weight	Sex	Mat	Age		Vch#	Genetic		Roll #	Frame#	Comment
								Str/Smpl#/Age			Str/Smpl#				
355	EF	1	1	RB	35		U	IM							
355	EF	1	1	RB	40		U	IM							
355	EF	1	1	RB	51		U	IM							
355	EF	1	1	RB	90		U	IM							
355	EF	1	1	RB	110		U	IM							



Site #355, upstream photo of typical large woody debris found within sample site.
Roll #92, Frame #06, Date: 2001/10/05



Site #355, downstream photo of typical morphology observed within sample site.
Roll #92, Frame #07, Date: 2001/10/05

FDIS Reach/Site Summary

South Fulton Study Area

Watershed Code: 480-705800-00000-00000-0000-000-000-000-000-000

Reach # ILP Map # ILP #

25.0

STREAM REFERENCING									
Gazetted Name: TACHEK CREEK					Local Name:				
Watershed Code: 480-705800-00000-00000-0000-000-000-000-000-000					ILP Map #:		ILP #:		
REACH									
Reach #: 25.0		UTM(Zone/East/North): 9.674563.6058556				Sample Type: Biased			
Length (km): .60		Coupling: Decoupled		Magnitude: 25		BGC Zone: SBS			
Gradient (%): 0.2		Confinement: Unconfined		Order: 4		Open water: Present			
US Elev (m): 1089		Islands: NONE		Riparian Vegetation: Shrubs					
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified									
SITE									
Site #: 356		Field UTM ..		Agency: C172		Crew: JA/SH		Date: 2001/10/06	
Site Length (m): 100		GIS UTM 9.674601.6059028		Agency Name: Triton Environmental Consultants (Terrace)					
CHANNEL									
No Vis.Ch.: ☐		Intermittent: ☐		Avg		Min		Max	
Dewatered: ☐		Tribes.: ☐		Channel Width (m): 3.86		3.1		4.400	
Stage: Low ☐				Wetted Width (m): 3.86		3.1		4.400	
Med ☒				Bankfull Depth (m): 0.13		0.1		0.2	
High ☐									
Temp (C): 2		pH: 8.1		Conductivity: 40		Turbidity.: Turbid ☐		Low ☐	
						Moderate ☐		Clear ☒	
MORPHOLOGY									
Bed Material: Dominant: Fines		D95 (cm): 10.00		Bars: Non ☒		Side ☐		Diagonal ☐	
Subdominant: Gravels		D (cm): 2.00				Mid-channel ☐		Span ☐	
Channel Pattern: Sinuous		Islands: None		DISTURBANCE INDICATORS		O1 B1 B2 B3 D1 D2 D3			
Coupling: Decoupled				C1 C2 C3 C4 C5 S1 S2 S3 S4 S5					
Confinement: Unconfined									
Morphology: RP Riffle Pool									
COVER									
Total Cover: Moderate		Type: SWD LWD B U DP OV IV		Amount: T N N S D S T		Location: P/S/O: ☒		FSZ: ☐	
LWD: None									
LWD Dist: Not Applicable									
Right Bank: Shape: Undercut		Texture: Fines ☒ Gravel ☐ Cobble ☐ Boulder ☐ Rock ☐ Manmade ☐		Crown Closure					
Left Bank: Shape: Undercut		Texture: Fines ☒ Gravel ☐ Cobble ☐ Boulder ☐ Rock ☐ Manmade ☐		0%					
Right Bank: Rip.Veg: Shrubs		Stage: Shrub/herb stage		Instream Veg: None ☐ Algae ☒ Moss ☒ Vascular ☐					
Left Bank: Rip.Veg:		Stage: Shrub/herb stage							
FISH									
Site Number	Capture Method	Number of Events	Length fished (m)	Total Time	Voltage	Species	Total Fish	Minimum Length (mm)	Maximum Length (mm)
356	MT	3		3399 min		NFC	0		

FDIS Site Card

South Fulton Study Area

Watershed Code: 480-705800-00000-00000-0000-000-000-000-000-000-000

Reach # 25.0 ILP Map # ILP # Site 356

PROJECT																																																																													
Project Name: Smithers Landing Fish Inventory - 2000 Stream Name (gaz.): BABINE RIVER Project Watershed Code: 480-000000-00000-00000-0000-000-000-000-000-000-000																																																																													
Project Code: 3496																																																																													
WATERSHED																																																																													
Gazetted Name: TACHEK CREEK Watershed Code: 480-705800-00000-00000-0000-000-000-000-000-000-000																																																																													
Local Name: None																																																																													
ILP Map#:				ILP #:				NID Map #: 093L.069				NID #: 30056		Reach #: 25.0		Site #: 356																																																													
Field UTM (Z.E.N): ..				Method:				Site Lg: 100				Method: HC		Access: V2																																																															
GIS UTM (Z.E.N): 9.674601.6059028				Ref. Name:																																																																									
Date: 2001/10/06				Time: 11:40				Agency: C172				Crew: JA/SH		Fish Crd?: ☒		Incomplete: ☐																																																													
CHANNEL																																																																													
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>Mtd</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>Avg</th> </tr> </thead> <tbody> <tr> <td>Channel Width (m):</td> <td>MS</td> <td>4.10</td> <td>3.10</td> <td>3.70</td> <td>4.30</td> <td>3.90</td> <td>4.40</td> <td>3.50</td> <td></td> <td></td> <td></td> <td>3.86</td> </tr> <tr> <td>Wetted Width (m):</td> <td>MS</td> <td>4.10</td> <td>3.10</td> <td>3.70</td> <td>4.30</td> <td>3.90</td> <td>4.40</td> <td>3.50</td> <td></td> <td></td> <td></td> <td>3.86</td> </tr> <tr> <td>Pool Depth (m):</td> <td>MS</td> <td>1.30</td> <td>1.10</td> <td>0.90</td> <td>1.50</td> <td>1.20</td> <td>1.10</td> <td>0.83</td> <td></td> <td></td> <td></td> <td>1.13</td> </tr> </tbody> </table>													Mtd	width	width	width	width	width	width	width	width	width	width	Avg	Channel Width (m):	MS	4.10	3.10	3.70	4.30	3.90	4.40	3.50				3.86	Wetted Width (m):	MS	4.10	3.10	3.70	4.30	3.90	4.40	3.50				3.86	Pool Depth (m):	MS	1.30	1.10	0.90	1.50	1.20	1.10	0.83				1.13	<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>Gadient %</th> <th>Mtd</th> <th>Avg</th> </tr> </thead> <tbody> <tr> <td>Method I:</td> <td>1.0 2.0</td> <td>C</td> <td>1.75</td> </tr> <tr> <td>Method II:</td> <td>1.0 3.0</td> <td>C</td> <td></td> </tr> </tbody> </table>			Gadient %	Mtd	Avg	Method I:	1.0 2.0	C	1.75	Method II:	1.0 3.0	C	
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Loc: P/S/O:	☒	☒	☒	☒	☒	☒	☒																																																																						
LWD: N LB SHP: U Texture: F ☒ G ☐ C ☐ B ☐ R ☐ A ☐ RIP: G STG: SHR DIST: NA RB SHP: U Texture: F ☒ G ☐ C ☐ B ☐ R ☐ A ☐ RIP: S STG: SHR																																																																													
WATER																																																																													
EMS: Temp: 2 pH: 8.1 Flood Signs: None Method: T4 Method: P2 Method: GE Req #: Cond.: 40 Turb.: T ☐ M ☐ L ☐ C ☒ Method: S3 Method: GE																																																																													
MORPHOLOGY																																																																													
Bed Material: Dominant: F D95: 10.0 Pattern: SI Islands: N Coupling: DC Confinement: UN FSZ: ☐ Subdom: G Morph: RP DISTURBANCE INDICATORS <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>O1</th> <th>B1</th> <th>B2</th> <th>B3</th> <th>D1</th> <th>D2</th> <th>D3</th> </tr> </thead> <tbody> <tr> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> </tr> </tbody> </table> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>C1</th> <th>C2</th> <th>C3</th> <th>C4</th> <th>C5</th> <th>S1</th> <th>S2</th> <th>S3</th> <th>S4</th> <th>S5</th> </tr> </thead> <tbody> <tr> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☐</td> </tr> </tbody> </table>														O1	B1	B2	B3	D1	D2	D3	☐	☐	☐	☐	☐	☐	☐	C1	C2	C3	C4	C5	S1	S2	S3	S4	S5	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐																														
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C1	C2	C3	C4	C5	S1	S2	S3	S4	S5																																																																				
☐	☐	☐	☐	☐	☐	☐	☐	☐	☐																																																																				
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FDIS Site Card

South Fulton Study Area

Watershed Code: 480-705800-00000-00000-0000-000-000-000-000-000	Reach #	ILP Map #	ILP #	Site
	25.0			356

COMMENTS	
Section	Comments
CHANNEL	S3
CHANNEL	No Fish Captured

FDIS Fish Card

South Fulton Study Area

Reach # ILP Map # ILP #

Watershed Code: 480-705800-00000-00000-0000-0000-000-000-000-000-000

25.0

WATERBODY													
Gazetted Name: TACHEK CREEK										Local: None			
Project Code: 480-000000-00000-00000-0000-0000-000-000-000-0													
WS Code: 480-705800-00000-00000-0000-0000-000-000-000-000													
Waterbody ID:				ILP Map #:				ILP #:		Reach #: 25 -			
Project ID: 3496								Lake/Stream: S		Lake From Date:			
Fish Permit #:		145085K		Date: 2001/10/05		To: 2001/10/06		Agency: C172		Crew: JA/SH		Resample: ☐	
SITE / METHOD													
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO		Temp	Cond	Turbid	Comment		
356	093L.069	30056				GPU	MT	3	2	40	C		
356	093L.069	30056				GPU	MT	2	2	40	C		
356	093L.069	30056				GPU	MT	1	2	40	C		
A. GEAR SETTINGS													
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment						
356	MT	1	2001/10/05	18:00	2001/10/06	13:00							
356	MT	2	2001/10/05	18:08	2001/10/06	13:00							
356	MT	3	2001/10/05	18:13	2001/10/06	13:00							
B. NET/TRAP SPECIFICATIONS													
Site #	MTD/NO.		H/P	Net Type	Length	Depth	Mesh	Set	Habitat				
356	MT		1	1		0.9		BT	L				
356	MT		2	1		1.5		BT	L				
356	MT		3	1		1.2		BT	L				
FISH SUMMARY													
Site#	MTD/NO		H/P	Species	Stage	Age	Total #	Lgth (Min/Max)		FishAct	Comment		
356	MT		1	NFC			0						
356	MT		2	NFC			0						
356	MT		3	NFC			0						



Site #356, upstream photo of typical habitat found within site.
Roll #92, Frame #20, Date: 2001/10/06



Site #356, downstream photo of typical habitat found within the site.
Roll #92, Frame #21, Date: 2001/10/06

FDIS Reach/Site Summary

South Fulton Study Area

Watershed Code: 480-705800-66427-00000-0000-0000-000-000-000-000

Reach # 1.0 ILP Map # 093L.069 ILP # 10162

STREAM REFERENCING									
Gazetted Name:					Local Name:				
Watershed Code: 480-705800-66427-00000-0000-0000-000-000-000-000					ILP Map #: 093L.069		ILP #: 10162		
REACH									
Reach #: 1.0		UTM(Zone/East/North): 9.674001.6058590				Sample Type: Biased			
Length (km): .56		Coupling: Decoupled		Magnitude: 1		BGC Zone: SBS			
Gradient (%): 5.2		Confinement: Occasionally Conf		Order: 1		Open water: Absent			
US Elev (m): 1107		Islands: NONE		Riparian Vegetation: Shrubs					
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified									
SITE									
Site #: 357		Field UTM 9.674119.6058652		Agency: C172		Crew: JA/SH		Date: 2001/10/05	
Site Length (m): 300		GIS UTM 9.674123.6058623		Agency Name: Triton Environmental Consultants (Terrace)					
CHANNEL									
No Vis.Ch.: ☒		Intermittent: ☐		Avg		Min		Max	
Dewatered: ☐		Tribes.: ☐		Channel Width (m): 0.00		0		0	
Stage: Low ☐				Wetted Width (m): 0.00		0		0	
Med ☐				Bankfull Depth (m): 0.00		0		0	
High ☐									
Temp (C):		pH:		Conductivity:		Turbidity: Turbid ☐		Low ☐	
						Moderate ☐		Clear ☐	
MORPHOLOGY									
Bed Material: Dominant:		D95 (cm):		Bars: Non ☐		Side ☐		Diagonal ☐	
Subdominant:		D (cm):				Mid-channel ☐		Span ☐	
Channel Pattern:		Islands:		DISTURBANCE INDICATORS		O1 B1 B2 B3 D1 D2 D3			
Coupling:									
Confinement:				C1 C2 C3 C4 C5 S1 S2 S3 S4 S5					
Morphology:									
COVER									
Total Cover:		Type: SWD LWD B U DP OV IV							
LWD:		Amount:							
LWD Dist:		Location: P/S/O:							
Right Bank: Shape:		Texture: Fines ☐ Gravel ☐ Cobble ☐ Boulder ☐ Rock ☐ Manmade ☐						Crown Closure	
Left Bank: Shape:		Texture: Fines ☐ Gravel ☐ Cobble ☐ Boulder ☐ Rock ☐ Manmade ☐						1-20%	
Right Bank: Rip.Veg:		Stage:							
Left Bank: Rip.Veg:		Stage:				Instream Veg: None ☐ Algae ☐ Moss ☐ Vascular ☐			

South Fulton Study Area

Reach #	ILP Map #	ILP #	Site
1.0	093L.069	10162	357

Project Name: Smithers Landing Fish Inventory - 2000
Stream Name (gaz.): BABINE RIVER
Project Watershed Code: 480-000000-00000-00000-0000-0000-000-000-000-000-000-000

Project Code: 3496

Gazetted Name:			Local Name: None		
Watershed Code: 480-705800-66427-00000-0000-0000-000-000-000-000-000					
ILP Map #: 093L.069	ILP #: 10162	NID Map #: 093L.069	NID #: 30057	Reach #: 1.0	Site #: 357
Field UTM (Z.E.N): 9.674119.6058652	Method: GPU		Site Lg: 300	Method: HC	Access: V2
SIS UTM (Z.E.N): 9.674123.6058623			Ref. Name:		
Date: 2001/10/05	Time: 13:30	Agency: C172	Crew: JA/SH	Fish Crd?: ☐	Incomplete: ☐

	Mtd	width	width	width	width	width	width	width	width	width	width	Avg
Channel Width (m):	MS											0.00
Wetted Width (m):	MS											0.00
Pool Depth (m):	MS											0.00

	Gadient %		Mtd	Avg
Method I:	4.0	6.0	C	4.33
Method II:	3.0		C	

Wb Depth:				Avg: 0.00	Method: MS	Stage: L ☐ M ☐ H ☐
-----------	--	--	--	-----------	------------	---

No Vis.Ch.: ☒ Intermittent: ☐
Dw: ☐ Tribs.: ☐

COVER Total:

Type:	SWD	LWD	B	U	DP	OV	IV
Amount:							
Loc: P/S/O:							

CROWN CLOSURE

1 1-20%

INSTREAM VEG: N ☐ A ☐ M ☐ V ☐

LWD: DIST:

LB SHP:

Texture: F ☐ G ☐ C ☐ B ☐ R ☐ A ☐

RIP:

STG:

RB SHP:

Texture: F ☐ G ☐ C ☐ B ☐ R ☐ A ☐

RIP:

STG:

EMS:		Req #:	
Temp:	Method: T4	Cond.:	Method: S3
pH:	Method: P2	Turb.: T ☐ M ☐ L ☐ C ☐	Method: GE
Flood Signs:	Method: GE		

Bed Material:	Dominant:	Subdom:													
D95:	D (cm):	Morph:													
Pattern:			DISTURBANCE INDICATORS	O1	B1	B2	B3	D1	D2	D3					
Islands:				C1	C2	C3	C4	C5	S1	S2	S3	S4	S5		
Coupling:															
Confinement:															
FSZ:			Bars:	N	SIDE		DIAG		MID		SPAN		BR		

Name	Comments
Rearing Habitat	None - associated with No Visible Channel
OverWinter Habitat	None - associated with No Visible Channel
Spawning Habitat	None - associated with No Visible Channel

Photo			Foc Lg	Dir	Comments
R:	92	F: 08	STD	U	upstream view of No Visible Channel
R:	92	F: 09	STD	D	downstream view of No Visible Channel

FDIS Site Card

South Fulton Study Area

Watershed Code: 480-705800-66427-00000-0000-0000-000-000-000-000-000		Reach #	ILP Map #	ILP #	Site
		1.0	093L.069	10162	357
COMMENTS					
Section	Comments				
CHANNEL	vegetated depression runs through thinned area, ground is mossy with lots of leaf litter				



Site #357, upstream view of No Visible Channel.
Roll #92, Frame #08, Date: 2001/10/05



Site #357, downstream view of No Visible Channel.
Roll #92, Frame #09, Date: 2001/10/05

South Fulton Study Area

1.0 093L.079 10012

Triton Environmental Consultants Ltd.

FDIS Site Card

South Fulton Study Area

Watershed Code: 480-705800-40598-00000-0000-0000-000-000-000-000-000

Reach # 1.0 ILP Map # 093L.079 ILP # 10012 Site 358

PROJECT

Project Name: Smithers Landing Fish Inventory - 2000
Stream Name (gaz.): BABINE RIVER
Project Watershed Code: 480-000000-00000-00000-0000-000-000-000-000-000-000

Project Code: 3496

WATERSHED

Gazetted Name: Local Name: None
Watershed Code: 480-705800-40598-00000-0000-0000-000-000-000-000-000-000
ILP Map#: 093L.079 ILP #: 10012 NID Map #: 093L.079 NID #: 30058 Reach #: 1.0 Site #: 358
Field UTM (Z.E.N): .. Method: Site Lg: 100 Method: HC Access: V2
GIS UTM (Z.E.N): 9.675924.6067635 Ref. Name:
Date: 2001/10/06 Time: 09:27 Agency: C172 Crew: JA/SH Fish Crd?: ☐ Incomplete: ☐

CHANNEL

	Mtd	width	width	width	width	width	width	width	width	width	width	Avg		Gadient %	Mtd	Avg
Channel Width (m):	MS											0.00	Method I:	4.0	6.0	C 4.75
Wetted Width (m):	MS											0.00	Method II:	5.0	4.0	C
Pool Depth (m):	MS											0.00				

Wb Depth: Avg: 0.00 Method: MS Stage: L ☐ M ☐ H ☐ Dw: ☐ Tribs.: ☐

COVER

Total:

Type:	SWD	LWD	B	U	DP	OV	IV
Amount:							
Loc: P/S/O:	☐	☐	☐	☐	☐	☐	☐

CROWN CLOSURE

1 1-20%

INSTREAM VEG: N ☐ A ☐ M ☐ V ☐

LWD:

DIST:

LB SHP:

Texture: F ☐ G ☐ C ☐ B ☐ R ☐ A ☐

RIP:

STG:

RB SHP:

Texture: F ☐ G ☐ C ☐ B ☐ R ☐ A ☐

RIP:

STG:

WATER

EMS: Req #: Temp: Method: T4 Cond.: Method: S3 pH: Method: P2 Turb.: T ☐ M ☐ L ☐ C ☐ Method: GE Flood Signs: Method: GE

MORPHOLOGY

Bed Material: Dominant: Subdom: O1 B1 B2 B3 D1 D2 D3
D95: D (cm): Morph: DISTURBANCE INDICATORS C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
Pattern: Islands: Coupling: Confinement: FSZ: ☐ Bars: N ☐ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR ☐

HABITAT QUALITY

Name Comments
Other No fish habitat due to No Visible Channel

PHOTOS

Photo	Foc Lg	Dir	Comments
R: 92 F: 12 STD U			upstream photo of vegetated depression
R: 92 F: 13 STD D			downstream photo of typical habitat found within sample site

COMMENTS

Section Comments

FDIS Site Card

South Fulton Study Area

Watershed Code: 480-705800-40598-00000-0000-0000-000-000-000-000

Reach #	ILP Map #	ILP #	Site
1.0	093L.079	10012	358

COMMENTS	
Section	Comments
CHANNEL	alder, twisted stalk, and brome grass observed in vegetated depression
CHANNEL	No Visible Channel



Site #358, upstream photo of vegetated depression.
Roll #92, Frame #12, Date: 2001/10/06



Site #358, downstream photo of typical habitat found within sample site.
Roll #92, Frame #13, Date: 2001/10/06

FDIS Reach/Site Summary

South Fulton Study Area

Watershed Code: 480-705800-37531-00000-0000-0000-000-000-000-000

Reach # ILP Map # ILP #
2.0 093L.079 10010

STREAM REFERENCING									
Gazetted Name:					Local Name:				
Watershed Code: 480-705800-37531-00000-0000-0000-000-000-000-000					ILP Map #: 093L.079		ILP #: 10010		
REACH									
Reach #: 2.0		UTM(Zone/East/North): 9.675429.6068055				Sample Type: Biased			
Length (km): 1.31		Coupling: Decoupled		Magnitude: 1		BGC Zone: SBS			
Gradient (%): 2.4		Confinement: Occasionally Conf		Order: 1		Open water: Absent			
US Elev (m): 1002		Islands: NONE		Riparian Vegetation: Mixed C/D					
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified									
SITE									
Site #: 359		Field UTM ..		Agency: C172		Crew: JA/SH		Date: 2001/10/06	
Site Length (m): 100		GIS UTM 9.676410.6068072		Agency Name: Triton Environmental Consultants (Terrace)					
CHANNEL									
No Vis.Ch.: ☒		Intermittent: ☐				Avg		Min	
Dewatered: ☐		Tribs.: ☐				Max		#	
Stage: Low ☐				Channel Width (m): 0.00		0		0	
Med ☐				Wetted Width (m): 0.00		0		0	
High ☐				Bankfull Depth (m): 0.00		0		0	
Temp (C):		pH:		Conductivity:		Avg		Min	
						Max		#	
						Gradient %: 3.50		3	
						Pool Depth (m): 0.00		0	
						Turbidity: Turbid ☐		Low ☐	
						Moderate ☐		Clear ☐	
MORPHOLOGY									
Bed Material: Dominant:		D95 (cm):		Bars: Non ☐		Side ☐		Diagonal ☐	
Subdominant:		D (cm):				Mid-channel ☐		Span ☐	
Channel Pattern:		Islands:		DISTURBANCE		O1		B1	
Coupling:				INDICATORS		B2		B3	
Confinement:						D1		D2	
Morphology:						D3			
				C1		C2		C3	
				C4		C5		S1	
				S2		S3		S4	
				S5					
COVER									
Total Cover:		Type:		SWD		LWD		B	
LWD:		Amount:							
LWD Dist:		Location: P/S/O:							
Right Bank: Shape:		Texture: Fines ☐		Gravel ☐		Cobble ☐		Boulder ☐	
Left Bank: Shape:		Texture: Fines ☐		Gravel ☐		Cobble ☐		Boulder ☐	
Right Bank: Rip.Veg:		Stage:		Rock ☐		Manmade ☐		Crown Closure	
Left Bank: Rip.Veg:		Stage:		Instream Veg: None ☐		Algae ☐		Moss ☐	
								Vascular ☐	

FDIS Site Card

South Fulton Study Area

Watershed Code: 480-705800-37531-00000-0000-0000-000-000-000-000-000 Reach # 2.0 ILP Map # 093L.079 ILP # 10010 Site 359

PROJECT																																																																						
Project Name: Smithers Landing Fish Inventory - 2000																																																																						
Stream Name (gaz.): BABINE RIVER										Project Code: 3496																																																												
Project Watershed Code: 480-000000-00000-00000-0000-000-000-000-000-000-000																																																																						
WATERSHED																																																																						
Gazetted Name:										Local Name: None																																																												
Watershed Code: 480-705800-37531-00000-0000-0000-000-000-000-000-000-000																																																																						
ILP Map#: 093L.079					ILP #: 10010					NID Map #: 093L.079																																																												
Field UTM (Z.E.N): ..					Method:					Site Lg: 100																																																												
GIS UTM (Z.E.N): 9.676410.6068072					Ref. Name:					Method: HC																																																												
Date: 2001/10/06					Time: 09:40					Agency: C172																																																												
					Crew: JA/SH					Fish Crd?: ☐ Incomplete: ☐																																																												
CHANNEL																																																																						
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FDIS Site Card

South Fulton Study Area

Watershed Code: 480-705800-37531-00000-0000-0000-000-000-000-000-000

Reach #

ILP Map #

ILP #

Site

2.0

093L.079

10010

359

COMMENTS	
Section	Comments
CHANNEL	Non Classified Drainage
CHANNEL	vegetated depression is dominantly covered by alder
CHANNEL	No Visible Channel



Site #359, upstream photo of alder typical within vegetated depression.
Roll #92, Frame #14, Date: 2001/10/06



Site #359, downstream photo of vegetated depression.
Roll #92, Frame #15, Date: 2001/10/06

Reach #	ILP Map #	ILP #
1.0	093L.079	10011

Watershed Code: 480-705800-37531-26016-0000-0000-000-000-000-000-000

STREAM REFERENCING									
Gazetted Name:				Local Name:					
Watershed Code: 480-705800-37531-26016-0000-0000-000-000-000-000-000				ILP Map #: 093L.079			ILP #: 10011		
REACH									
Reach #: 1.0		UTM (Zone/East/North): 9.676514.6068664				Sample Type: Biased			
Length (km): .72		Coupling: Decoupled		Magnitude: 1		BGC Zone: SBS			
Gradient (%): 1.8		Confinement: Occasionally Conf		Order: 1		Open water: Absent			
US Elev (m): 979		Islands: NONE		Riparian Vegetation: Mixed C/D					
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified									
SITE									
Site #: 360		Field UTM ..		Agency: C172		Crew: JA/SH		Date: 2001/10/06	
Site Length (m): 100		GIS UTM 9.676605.6068137		Agency Name: Triton Environmental Consultants (Terrace)					
CHANNEL									
No Vis.Ch.: ☒		Intermittent: ☐							
Dewatered: ☐		Tribs.: ☐							
Stage: Low ☐									
Med ☐									
High ☐									
Temp (C):		pH:		Conductivity:		Turbidity: Turbid ☐		Low ☐	
						Moderate ☐		Clear ☐	
MORPHOLOGY									
Bed Material: Dominant:		D95 (cm):		Bars: Non ☐		Side ☐		Diagonal ☐	
Subdominant:		D (cm):				Mid-channel ☐		Span ☐	
Channel Pattern:		Islands:		DISTURBANCE INDICATORS		O1 ☐		B1 ☐	
Coupling:						B2 ☐		B3 ☐	
Confinement:						D1 ☐		D2 ☐	
Morphology:						D3 ☐			
						C1 ☐		C2 ☐	
						C3 ☐		C4 ☐	
						C5 ☐		S1 ☐	
						S2 ☐		S3 ☐	
						S4 ☐		S5 ☐	
COVER									
Total Cover:		Type:		SWD		LWD		B	
		Amount:							
LWD:		Location: P/S/O:		☐		☐		☐	
LWD Dist:				☐		☐		☐	
Right Bank: Shape:		Texture: Fines ☐		Gravel ☐		Cobble ☐		Boulder ☐	
Left Bank: Shape:		Texture: Fines ☐		Gravel ☐		Cobble ☐		Boulder ☐	
Right Bank: Rip.Veg:		Stage:							
Left Bank: Rip.Veg:		Stage:							
		Instream Veg: None ☐		Algae ☐		Moss ☐		Vascular ☐	
								Crown Closure 1-20%	

South Fulton Study Area

Reach #	ILP Map #	ILP #	Site
1.0	093L.079	10011	360

PROJECT

Project Code: 3496

WATERSHED

Gazetted Name:			Local Name: None		
Watershed Code: 480-705800-37531-26016-0000-0000-000-000-000-000-000					
ILP Map#:	093L.079	ILP #:	10011	NID Map #:	093L.079
NID #:		30060		Reach #:	1.0
Site #:		360			
Field UTM (Z.E.N): ..		Method:		Site Lg: 100	
GIS UTM (Z.E.N): 9.676605.6068137		Method: HC		Access: V2	
Ref. Name:					
Date:	2001/10/06	Time:	10:15	Agency:	C172
Crew:	JA/SH		Fish Crd?:	☐	
Incomplete:					

CHANNEL

Avg: 0.00

Method: MS

Stage: L ☐ M ☐ H ☐

COVER

Total:

CROWN CLOSURE

1	1-20%
---	-------

INSTREAM VEG: N ☐ A ☐ M ☐ V ☐

LWD:

DIST:

LB SHP:

Texture: F ☐ G ☐ C ☐ B ☐ R ☐ A ☐

RIP:

STG:

RB SHP:

Texture: F ☐ G ☐ C ☐ B ☐ R ☐ A ☐

RIP:

STG:

WATER

EMS:		Req #:	
Temp:	Method: T4	Cond.:	Method: S3
pH:	Method: P2	Turb.: T ☐ M ☐ L ☐ C ☐	Method: GE
Flood Signs:	Method: GE		

MORPHOLOGY

Bed Material:	Dominant:	Subdom:	O1	B1	B2	B3	D1	D2	D3	
D95:	D (cm):	Morph:	DISTURBANCE INDICATORS							
Pattern:			☐	☐	☐	☐	☐	☐	☐	
Islands:			C1	C2	C3	C4	C5	S1	S2	S3
Coupling:			☐	☐	☐	☐	☐	☐	☐	☐
Confinement:										
FSZ: ☐			Bars:	N ☐	SIDE ☐	DIAG ☐	MID ☐	SPAN ☐	BR ☐	

HABITAT QUALITY

Name	Comments
Other	No Visible Channel, FEN

PHOTOS

Photo			Foc Lg	Dir	Comments	
R:	92	F:	16	STD	U	upstream photo of vegetated depression
R:	92	F:	17	STD	D	downstream photo of typical vegetation observed within sample site

COMMENTS

Section	Comments
---------	----------

FDIS Site Card

South Fulton Study Area

	Reach #	ILP Map #	ILP #	Site
Watershed Code: 480-705800-37531-26016-0000-0000-000-000-000-000-000	1.0	093L.079	10011	360

COMMENTS	
Section	Comments
CHANNEL	Alder swirl throughout the depression
CHANNEL	No Visible Channel



Site #360, upstream photo of vegetated depression.
Roll #92, Frame #16, Date: 2001/10/06



Site #360, downstream photo of typical vegetation observed within sample site.
Roll #92, Frame #17, Date: 2001/10/06

FDIS Reach/Site Summary

South Fulton Study Area

Watershed Code: 480-705800-35727-13169-0000-0000-000-000-000-000-000

Reach # 1.0 ILP Map # 093L.079 ILP # 10008

STREAM REFERENCING											
Gazetted Name:					Local Name:						
Watershed Code: 480-705800-35727-13169-0000-0000-000-000-000-000-000					ILP Map #: 093L.079		ILP #: 10008				
REACH											
Reach #: 1.0		UTM(Zone/East/North): 9.677710.6065785				Sample Type: Biased					
Length (km): 1.72		Coupling: Decoupled		Magnitude: 2		BGC Zone: SBS					
Gradient (%): 2.9		Confinement: Occasionally Conf		Order: 2		Open water: Absent					
US Elev (m): 1018		Islands: NONE		Riparian Vegetation: Mixed C/D							
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified											
SITE											
Site #: 361		Field UTM ..		Agency: C172		Crew: JA/SH		Date: 2001/10/05			
Site Length (m): 100		GIS UTM 9.677543.6067104		Agency Name: Triton Environmental Consultants (Terrace)							
CHANNEL											
No Vis.Ch.: ☐		Intermittent: ☒		Avg		Min		Max			
Dewatered: ☐		Trib.: ☐		Channel Width (m): 0.78		0.5		1.100			
Stage: Low ☒				Wetted Width (m): 0.71		0		1.100			
Med ☐				Bankfull Depth (m): 0.40		0.3		0.5			
High ☐											
Temp (C): 12		pH: 8.0		Conductivity: 260		Turbidity: Turbid ☐		Low ☐			
						Moderate ☐		Clear ☒			
MORPHOLOGY											
Bed Material: Dominant: Fines		D95 (cm): 10.00		Bars: Non ☒		Side ☐		Diagonal ☐			
Subdominant: Not Applicable		D (cm): 0.01						Mid-channel ☐			
Channel Pattern: Sinuous		Islands: None		DISTURBANCE INDICATORS		O1		B1 B2 B3 D1 D2 D3			
Coupling: Decoupled											
Confinement: Occasionally Confine				C1 C2 C3 C4 C5 S1 S2 S3 S4 S5							
Morphology: RP Riffle Pool											
COVER											
Total Cover: Moderate		Type: SWD LWD B U DP OV IV									
LWD: Few		Amount: S T N D N S T									
LWD Dist: Evenly Distributed		Location: P/S/O: ☒ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐								FSZ: ☐	
Right Bank: Shape: Sloping (g)		Texture: Fines ☒ Gravel ☐ Cobble ☐ Boulder ☐ Rock ☐ Manmade ☐								Crown Closure	
Left Bank: Shape: Sloping (g)		Texture: Fines ☒ Gravel ☐ Cobble ☐ Boulder ☐ Rock ☐ Manmade ☐								1-20%	
Right Bank: Rip.Veg: Mixed C/D		Stage: Mature forest									
Left Bank: Rip.Veg:		Stage: Mature forest				Instream Veg: None ☐ Algae ☐ Moss ☒ Vascular ☐					

South Fulton Study Area

Reach #	ILP Map #	ILP #	Site
1.0	0931.079	10008	361

Triton Environmental Consultants Ltd.

FDIS Site Card

South Fulton Study Area

	Reach #	ILP Map #	ILP #	Site
Watershed Code: 480-705800-35727-13169-0000-0000-000-000-000-000-000	1.0	093L.079	10008	361

COMMENTS	
Section	Comments
CHANNEL	NS
CHANNEL	S4 by default
CHANNEL	stream has dry patches which consisted of organic material
CHANNEL	stream becomes completely dry after road crossing and power lines



Site #361, upstream photo of typically wet section of stream.
Roll #92, Frame #10, Date: 2001/10/05



Site #361, downstream photo of stream (mossy banks).
Roll #92, Frame #11, Date: 2001/10/05

FDIS Reach/Site Summary

South Fulton Study Area

Watershed Code: 480-705800-00000-00000-0000-000-000-000-000-000-000

Reach # ILP Map # ILP #

12.0

STREAM REFERENCING									
Gazetted Name: TACHEK CREEK					Local Name:				
Watershed Code: 480-705800-00000-00000-0000-000-000-000-000-000					ILP Map #:		ILP #:		
REACH									
Reach #: 12.0		UTM (Zone/East/North): 9.677779.6067952				Sample Type: Biased			
Length (km): .57		Coupling: Decoupled		Magnitude: 74		BGC Zone: SBS			
Gradient (%): 1.1		Confinement: Occasionally Conf		Order: 5		Open water: Absent			
US Elev (m): 962		Islands: NONE		Riparian Vegetation: Mixed C/D					
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified									
SITE									
Site #: 362		Field UTM ..		Agency: C172		Crew: JA/SH		Date: 2001/10/06	
Site Length (m): 100		GIS UTM 9.678067.6068109		Agency Name: Triton Environmental Consultants (Terrace)					
CHANNEL									
No Vis.Ch.: ☐		Intermittent: ☐		Avg		Min		Max	
Dewatered: ☐		Tribes.: ☐		Channel Width (m): 5.78		4		7.400	
Stage: Low ☐				Wetted Width (m): 5.60		4		6.800	
Med ☒				Bankfull Depth (m): 1.03		0.5		1.4	
High ☐		Temp (C): 2		pH: 8.1		Conductivity: 60			
								Turbidity: Turbid ☐ Low ☐	
								Moderate ☐ Clear ☒	
MORPHOLOGY									
Bed Material: Dominant: Cobble		D95 (cm): 21.00		Bars: Non ☒		Side ☐		Diagonal ☐	
Subdominant: Gravels		D (cm): 5.00						Mid-channel ☐	
Channel Pattern: Sinuous		Islands: None		DISTURBANCE		O1		B1 B2 B3 D1 D2 D3	
Coupling: Decoupled				INDICATORS		☒		☒	
Confinement: Unconfined				C1 C2 C3 C4 C5 S1 S2 S3 S4 S5					
Morphology: RP Riffle Pool									
COVER									
Total Cover: Moderate		Type: SWD		LWD		B		U	
LWD: Few		Amount: S		T		N		S	
LWD Dist: Evenly Distributed		Location: P/S/O:		☒		☒		☒	
Right Bank: Shape: V - shape		Texture: Fines ☒		Gravel ☐		Cobble ☐		Boulder ☐	
Left Bank: Shape: Undercut		Texture: Fines ☒		Gravel ☐		Cobble ☐		Boulder ☐	
Right Bank: Rip.Veg: Mixed C/D		Stage: Mature forest		Instream Veg: None ☐		Algae ☐		Moss ☒	
Left Bank: Rip.Veg:		Stage: Mature forest						Vascular ☒	
FISH									
Site Number	Capture Method	Number of Events	Length fished (m)	Total Time	Voltage	Species	Total Fish	Minimum Length (mm)	Maximum Length (mm)
362	MT	3		3394 min		RB	6	80	117
362	MT	3		3394 min		NFC	0		

FDIS Site Card

South Fulton Study Area

Watershed Code: 480-705800-00000-00000-0000-000-000-000-000-000-000

Reach # ILP Map #

ILP #

Site

12.0

362

PROJECT

Project Name: Smithers Landing Fish Inventory - 2000

Stream Name (gaz.): BABINE RIVER

Project Code:

3496

Project Watershed Code: 480-000000-00000-00000-0000-000-000-000-000-000-000

WATERSHED

Gazetted Name: TACHEK CREEK

Local Name: None

Watershed Code: 480-705800-00000-00000-0000-000-000-000-000-000-000

ILP Map#:

ILP #:

NID Map #: 093L.079

NID #: 30062

Reach #: 12.0

Site #: 362

Field UTM (Z.E.N): ..

Method:

Site Lg: 100

Method: HC

Access: V2

GIS UTM (Z.E.N): 9.678067.6068109

Ref. Name:

Date: 2001/10/06

Time: 10:45

Agency: C172

Crew: JA/SH

Fish Crd?: ☒

Incomplete: ☐

CHANNEL

	Mtd	width	width	width	width	width	width	width	width	width	width	Avg
Channel Width (m):	MS	6.00	4.00	7.10	5.10	4.80	6.50	7.40	5.30	5.30	5.30	5.78
Wetted Width (m):	MS	5.80	4.00	6.80	5.10	4.80	6.50	6.50	5.30			5.60
Pool Depth (m):	MS	0.80	0.71	0.60	0.78	0.90	1.40	1.50	2.00			1.09

	Gadient %	Mtd	Avg
Method I:	1.0 2.0	C	1.50
Method II:	1.0 2.0	C	

Wb Depth:	1.2	1.4	.5
-----------	-----	-----	----

Avg: 1.03

Method: MS

Stage: L ☐ M ☒ H ☐

No Vis.Ch.: ☐ Intermittent: ☐
Dw: ☐ Tribs.: ☐

COVER

Total: M

Type:	SWD	LWD	B	U	DP	OV	IV
Amount:	S	T	N	S	D	T	S
Loc: P/S/O:	☒	☒	☐	☒	☒	☒	☒

CROWN CLOSURE

1 1-20%

INSTREAM VEG: N ☐ A ☐ M ☒ V ☒

LWD: F

DIST: E

LB SHP: U

Texture: F ☒ G ☐ C ☐ B ☐ R ☐ A ☐

RIP: M

STG: MF

RB SHP: V

Texture: F ☒ G ☐ C ☐ B ☐ R ☐ A ☐

RIP: M

STG: MF

WATER

EMS:

Temp: 2

pH: 8.1

Flood Signs: None

Method: T4

Method: P2

Method: GE

Req #:

Cond.: 60

Turb.: T ☐ M ☐ L ☐ C ☒

Method: S3

Method: GE

MORPHOLOGY

Bed Material: Dominant: C

Subdom: G

D95: 21.0 D (cm): 5.00

Morph: RP

Pattern: SI

Islands: N

Coupling: DC

Confinement: UN

FSZ: ☐

DISTURBANCE INDICATORS

O1	B1	B2	B3	D1	D2	D3
☒	☒	☐	☐	☐	☐	☐

C1	C2	C3	C4	C5	S1	S2	S3	S4	S5
☐	☐	☐	☐	☐	☐	☐	☐	☐	☐

Bars: N ☒ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR ☐

HABITAT QUALITY

Name

Comments

Rearing Habitat High - associated with deep pools and undercut banks

OverWinter Habitat High - associated with deep pools

Spawning Habitat Moderate - associated with clear patches of gravel

PHOTOS

Photo	Foc Lg	Dir	Comments
R: 92 F: 18 STD U			upstream photo of typical stream morphology observed within site
R: 92 F: 19 STD D			downstream photo of typical habitat observed within site

FDIS Site Card

South Fulton Study Area

Watershed Code: 480-705800-00000-00000-0000-0000-000-000-000-000-000	Reach #	ILP Map #	ILP #	Site
	12.0			362

COMMENTS	
Section	Comments
CHANNEL	numerous beaver dams observed
CHANNEL	RB captured

FDIS Fish Card

South Fulton Study Area

Reach # ILP Map # ILP #

Watershed Code: 480-705800-00000-00000-0000-0000-000-000-000-000-000

12.0

WATERBODY															
Gazetted Name: TACHEK CREEK										Local: None					
Project Code: 480-000000-00000-00000-0000-000-000-000-000-000-0															
WS Code: 480-705800-00000-00000-0000-000-000-000-000-000-000															
Waterbody ID:				ILP Map #:				ILP #:		Reach #: 12 -					
Project ID: 3496				Lake/Stream: S				Lake From Date:							
Fish Permit #:		145085K		Date: 2001/10/05		To: 2001/10/06		Agency: C172		Crew: JA/SH		Resample: ☐			
SITE / METHOD															
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO	Temp	Cond	Turbid	Comment					
362	093L.079	30062				GPU MT 3	2	60	C						
362	093L.079	30062				GPU MT 2	2	60	C						
362	093L.079	30062				GPU MT 1	2	60	C						
A. GEAR SETTINGS															
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment								
362	MT 1	1	2001/10/05	17:35	2001/10/06	12:30									
362	MT 2	1	2001/10/05	17:40	2001/10/06	12:30									
362	MT 3	1	2001/10/05	17:41	2001/10/06	12:30									
B. NET/TRAP SPECIFICATIONS															
Site #	MTD/NO.		H/P	Net Type		Length	Depth	Mesh	Set	Habitat					
362	MT 1		1				0.8		BT	L					
362	MT 2		1				1.4		BT	L					
362	MT 3		1				0.6		BT	L					
FISH SUMMARY															
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	FishAct	Comment						
362	MT 1	1	RB	J		5	80 117	R							
362	MT 2	1	RB	J		1	82 82	R							
362	MT 3	1	NFC			0									
INDIVIDUAL FISH DATA															
Site#	MTD/NO	H/P	Species	Length	Weight	Sex	Mat	Age		Vch#	Genetic		Roll #	Frame#	Comment
								Str/Smp#	Age		Str/Smp#				
362	MT 1	1	RB	80		U	IM								
362	MT 1	1	RB	110		U	IM								
362	MT 1	1	RB	117		U	IM								
362	MT 1	1	RB	93		U	IM								
362	MT 1	1	RB	98		U	IM								
362	MT 2	1	RB	82		U	IM								



Site #362, upstream photo of typical stream morphology observed within site.
Roll #92, Frame #18, Date: 2001/10/06



Site #362, downstream photo of typical habitat observed within site.
Roll #92, Frame #19, Date: 2001/10/06

FDIS Reach/Site Summary

South Fulton Study Area

Watershed Code: 480-705800-06200-00000-0000-0000-000-000-000-000-000

Reach # ILP Map # ILP #
2.0 093L.080 10133

STREAM REFERENCING									
Gazetted Name:					Local Name:				
Watershed Code: 480-705800-06200-00000-0000-0000-000-000-000-000-000					ILP Map #: 093L.080		ILP #: 10133		
REACH									
Reach #: 2.0		UTM(Zone/East/North): 9.681792.6073631			Sample Type: Random				
Length (km): 1.09		Coupling: Decoupled		Magnitude: 7		BGC Zone: SBS			
Gradient (%): 2.3		Confinement: Occasionally Conf			Order: 2		Open water: Present		
US Elev (m): 851		Islands: NONE		Riparian Vegetation: Shrubs					
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified									
SITE									
Site #: 363		Field UTM ..		Agency: C172		Crew: SH/JA		Date: 2001/10/04	
Site Length (m): 100		GIS UTM 9.681841.6073647		Agency Name: Triton Environmental Consultants (Terrace)					
CHANNEL									
No Vis.Ch.: ☐		Intermittent: ☐		Avg		Min		Max	
Dewatered: ☐		Tribes: ☐		Channel Width (m): 0.93		0.47		1.5	
Stage: Low ☒				Wetted Width (m): 0.84		0.47		1.5	
Med ☐				Bankfull Depth (m): 0.23		0.1		0.3	
High ☐				Temp (C): 11		pH: 8.0		Conductivity: 160	
						Turbidity: Turbid ☐		Low ☐	
								Moderate ☐	
								Clear ☒	
MORPHOLOGY									
Bed Material: Dominant: Fines		D95 (cm): 10.00		Bars: Non ☒		Side ☐		Diagonal ☐	
Subdominant: Cobble		D (cm): 1.00				Mid-channel ☐		Span ☐	
Channel Pattern: Sinuous		Islands: None		DISTURBANCE		O1		B1	
Coupling: Decoupled				INDICATORS		B2		B3	
Confinement: Unconfined						D1		D2	
Morphology: RP Riffle Pool						D3			
						C1		C2	
						C3		C4	
						C5		S1	
						S2		S3	
						S4		S5	
COVER									
Total Cover: Moderate		Type: SWD		LWD		B		U	
LWD: Few		Amount: D		S		T		S	
LWD Dist: Evenly Distributed		Location: P/S/O: ☒		☒		☒		☒	
Right Bank: Shape: Undercut		Texture: Fines ☒		Gravel ☐		Cobble ☐		Boulder ☐	
Left Bank: Shape: Undercut		Texture: Fines ☒		Gravel ☐		Cobble ☐		Boulder ☐	
Right Bank: Rip.Veg: Shrubs				Stage: Mature forest					
Left Bank: Rip.Veg:				Stage: Shrub/herb stage		Instream Veg: None ☐		Algae ☐	
						Moss ☒		Vascular ☒	
FISH									
Site Number	Capture Method	Number of Events	Length fished (m)	Total Time	Voltage	Species	Total Fish	Minimum Length (mm)	Maximum Length (mm)
363	EF	1	100	73 sec	300	CT	4	43	75

FDIS Site Card

South Fulton Study Area

Watershed Code: 480-705800-06200-00000-00000-0000-000-000-000-000-000

Reach # 2.0 ILP Map # 093L.080 ILP # 10133 Site 363

PROJECT

Project Name: Smithers Landing Fish Inventory - 2000
Stream Name (gaz.): BABINE RIVER
Project Watershed Code: 480-000000-00000-00000-0000-000-000-000-000-000-000
Project Code: 3496

WATERSHED

Gazetted Name: Local Name: None
Watershed Code: 480-705800-06200-00000-00000-0000-000-000-000-000-000-000
ILP Map #: 093L.080 ILP #: 10133 NID Map #: 093L.080 NID #: 30063 Reach #: 2.0 Site #: 363
Field UTM (Z.E.N.): .. Method: Site Lg: 100 Method: HC Access: V2
GIS UTM (Z.E.N.): 9.681841.6073647 Ref. Name:
Date: 2001/10/04 Time: 16:15 Agency: C172 Crew: SH/JA Fish Crd?: ☒ Incomplete: ☐

CHANNEL

	Mtd	width	width	width	width	width	width	width	width	width	width	Avg		Gadient %	Mtd	Avg
Channel Width (m):	MS	0.74	1.00	0.47	1.50	0.90	1.30	0.62				0.93	Method I:	2.0	1.0	1.50
Wetted Width (m):	MS	0.74	0.84	0.47	1.50	0.80	0.90	0.62				0.84	Method II:	2.0	1.0	C
Pool Depth (m):	MS	0.20	0.15	0.10	0.10	0.05	0.05	0.05				0.10				

Wb Depth: .3 .3 .1 Avg: 0.23 Method: MS Stage: L ☒ M ☐ H ☐ No Vis.Ch.: ☐ Intermittent: ☐ Dw: ☐ Tribs.: ☐

COVER Total: M

Type:	SWD	LWD	B	U	DP	OV	IV
Amount:	D	S	T	S	T	S	T
Loc: P/S/O:	☒	☒	☒	☒	☒	☒	☒

CROWN CLOSURE

1 1-20%

INSTREAM VEG: N ☐ A ☐ M ☒ V ☒

LWD: F DIST: E

LB SHP: U

Texture: F ☒ G ☐ C ☐ B ☐ R ☐ A ☐

RB SHP: U

Texture: F ☒ G ☐ C ☐ B ☐ R ☐ A ☐

RIP: S

STG: SHR

RIP: S

STG: MF

WATER

EMS: Temp: 11 Method: T4 Req #: Cond.: 160 Method: S3
pH: 8.0 Method: P2 Turb.: T ☐ M ☐ L ☐ C ☒ Method: GE
Flood Signs: None Method: GE

MORPHOLOGY

Bed Material: Dominant: F Subdom: C O1 B1 B2 B3 D1 D2 D3
D95: 10.0 D (cm): 1.00 Morph: RP DISTURBANCE INDICATORS
Pattern: SI C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
Islands: N
Coupling: DC
Confinement: UN Bars: N ☒ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR ☐
FSZ: ☐

HABITAT QUALITY

Name	Comments
OverWinter Habitat	Low - associated to few deep pools and lack of perennial flow
Rearing Habitat	Moderate - associated to overhanging vegetation and small woody debris, limited by lack of perennial flows and lack of deep pools
Spawning Habitat	Low - associated to no clean patches of gravel observed

PHOTOS

Photo	Foc Lg	Dir	Comments
R: 91 F: 19	STD	U	upstream view of channel (some cobble in this picture)
R: 91 F: 20	STD	D	downstream view of channel

FDIS Site Card

South Fulton Study Area

Watershed Code: 480-705800-06200-00000-0000-0000-000-000-000-000-000

Reach #	ILP Map #	ILP #	Site
2.0	093L.080	10133	363

COMMENTS	
Section	Comments
CHANNEL	S4, fish access from Timber Lake and Tachek Creek

FDIS Fish Card

South Fulton Study Area

Watershed Code: 480-705800-06200-00000-0000-0000-000-000-000-000-000

Reach # 2.0 ILP Map # 093L.080 ILP # 10133

WATERBODY													
Gazetted Name:										Local:			
Project Code: 480-000000-00000-00000-0000-000-000-000-000-0													
WS Code: 480-705800-06200-00000-0000-000-000-000-000-000													
Waterbody ID:				ILP Map #: 093L.080				ILP #: 10133		Reach #: 2 -			
Project ID: 3496				Lake/Stream: S				Lake From Date:					
Fish Permit #: 145085K				Date: 2001/10/04		To: 2001/10/04		Agency: C172		Crew: JA/SH		Resample: ☐	
SITE / METHOD													
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO	Temp	Cond	Turbid	Comment			
363	093L.080	30063				GPU EF 1	11	160	C				
A. GEAR SETTINGS													
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment						
363	EF 1	1	2001/10/04	16:15	2001/10/04	16:45							
C. ELECTROFISHER SPECIFICATIONS													
Site#	MTD/NO	H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model		
363	EF	1	1	0	73	100.0	0.9	300	1	5	SMITH ROOT	12B	
FISH SUMMARY													
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	FishAct	Comment				
363	EF	1	1	CT	J	4	43 75	R					
INDIVIDUAL FISH DATA													
Site#	MTD/NO	H/P	Species	Length	Weight	Sex	Mat	Age Str/Smpl#	Vch#	Genetic Str/Smpl#	Roll #	Frame#	Comment
363	EF	1	1	CT	67		U	IM					
363	EF	1	1	CT	75		U	IM					
363	EF	1	1	CT	43		U	IM					
363	EF	1	1	CT	70		U	IM					



Site #363, upstream view of channel (some cobble in this picture).
Roll #91, Frame #19, Date: 2001/10/04



Site #363, downstream view of channel.
Roll #91, Frame #20, Date: 2001/10/04

South Fulton Study Area

Reach #	ILP Map #	ILP #
---------	-----------	-------

1.0

093L.080

10133

Triton Environmental Consultants Ltd.

South Fulton Study Area

Reach #	ILP Map #	ILP #	Site
1.0	093L.080	10133	364

Triton Environmental Consultants Ltd.

FDIS Site Card

South Fulton Study Area

Watershed Code: 480-705800-06200-00000-0000-0000-000-000-000-000-000

Reach #1.0

ILP Map #093L.080

ILP #10133

Site364

COMMENTS	
Section	Comments
CHANNEL	S4 by default, stream is fish accessible via Tachek Creek



Site #364, upstream photo of dry channel.
Roll #91, Frame #15, Date: 2001/10/04



Site #364, downstream photo of dry channel.
Roll #91, Frame #16, Date: 2001/10/04

FDIS Reach/Site Summary

South Fulton Study Area

Reach # ILP Map # ILP #

Watershed Code: 480-705800-00000-00000-0000-000-000-000-000-000-000

4.0

STREAM REFERENCING									
Gazetted Name: TACHEK CREEK					Local Name:				
Watershed Code: 480-705800-00000-00000-0000-000-000-000-000-000-000					ILP Map #:		ILP #:		
REACH									
Reach #: 4.0		UTM(Zone/East/North): 9.684496.6074563				Sample Type: Biased			
Length (km): 1.05		Coupling: Decoupled		Magnitude: 139		BGC Zone: SBS			
Gradient (%): 1.9		Confinement: Occasionally Conf		Order: 5		Open water: Absent			
US Elev (m): 745		Islands: NONE		Riparian Vegetation: Mixed C/D					
Bars: None ☒ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Braid ☐ Landuse: Not Specified									
SITE									
Site #: 365		Field UTM ..		Agency: C172		Crew: JA/SH		Date: 2001/10/04	
Site Length (m): 100		GIS UTM 9.684635.6074896		Agency Name: Triton Environmental Consultants (Terrace)					
CHANNEL									
No Vis.Ch.: ☐		Intermittent: ☐		Avg		Min		Max	
Dewatered: ☐		Tribes.: ☐		Channel Width (m): 5.00		4		6	
Stage: Low ☒				Wetted Width (m): 4.50		3		6	
Med ☐				Bankfull Depth (m): 1.37		0.9		2	
High ☐									
Temp (C): 11		pH: 5.6		Conductivity: 50		Turbidity: Turbid ☐		Low ☐	
						Moderate ☐		Clear ☒	
MORPHOLOGY									
Bed Material: Dominant: Cobble		D95 (cm): 59.00		Bars: Non ☐		Side ☒		Diagonal ☐	
Subdominant: Gravels		D (cm): 5.00						Mid-channel ☐	
Channel Pattern: Irregular Meanders		Islands: None		DISTURBANCE		O1		B1	
Coupling: Decoupled				INDICATORS		B2		B3	
Confinement: Unconfined				C1		C2		C3	
Morphology: RP Riffle Pool				C4		C5		S1	
				S2		S3		S4	
				S5					
COVER									
Total Cover: Moderate		Type: SWD		LWD		B		U	
LWD: Few		Amount: T		S		T		S	
LWD Dist: Evenly Distributed		Location: P/S/O:		☒		☒		☒	
Right Bank: Shape: V - shape		Texture: Fines ☒		Gravel ☐		Cobble ☐		Boulder ☐	
Left Bank: Shape: V - shape		Texture: Fines ☒		Gravel ☐		Cobble ☐		Boulder ☐	
Right Bank: Rip.Veg: Mixed C/D		Stage: Mature forest		Instream Veg: None ☐		Algae ☐		Moss ☒	
Left Bank: Rip.Veg:		Stage: Mature forest						Vascular ☐	
FISH									
Site Number	Capture Method	Number of Events	Length fished (m)	Total Time	Voltage	Species	Total Fish	Minimum Length (mm)	Maximum Length (mm)
365	EF	1	100	65 sec	500	RB	4	53	63
365	EF	1	100	65 sec	500	CT	3	40	67

FDIS Site Card

South Fulton Study Area

Watershed Code: 480-705800-00000-00000-0000-000-000-000-000-000-000

Reach # 4.0 ILP Map # ILP # 365 Site 365

PROJECT																																																																																																					
Project Name: Smithers Landing Fish Inventory - 2000 Stream Name (gaz.): BABINE RIVER Project Watershed Code: 480-000000-00000-00000-0000-000-000-000-000-000-000																																																																																																					
WATERSHED																																																																																																					
Gazetted Name: TACHEK CREEK Watershed Code: 480-705800-00000-00000-0000-000-000-000-000-000-000 ILP Map#: ILP #: NID Map #: 093L.080 NID #: 30065 Reach #: 4.0 Site #: 365 Field UTM (Z.E.N): .. Method: Site Lg: 100 Method: HC Access: V2 GIS UTM (Z.E.N): 9.684635.6074896 Ref. Name: Date: 2001/10/04 Time: 14:57 Agency: C172 Crew: JA/SH Fish Crd?: ☒ Incomplete: ☐																																																																																																					
CHANNEL																																																																																																					
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FDIS Site Card

South Fulton Study Area

Watershed Code: 480-705800-00000-00000-0000-000-000-000-000-000-000

Reach #	ILP Map #	ILP #	Site
4.0			365

COMMENTS	
Section	Comments
CHANNEL	S3 stream, CT and RB caught

FDIS Fish Card

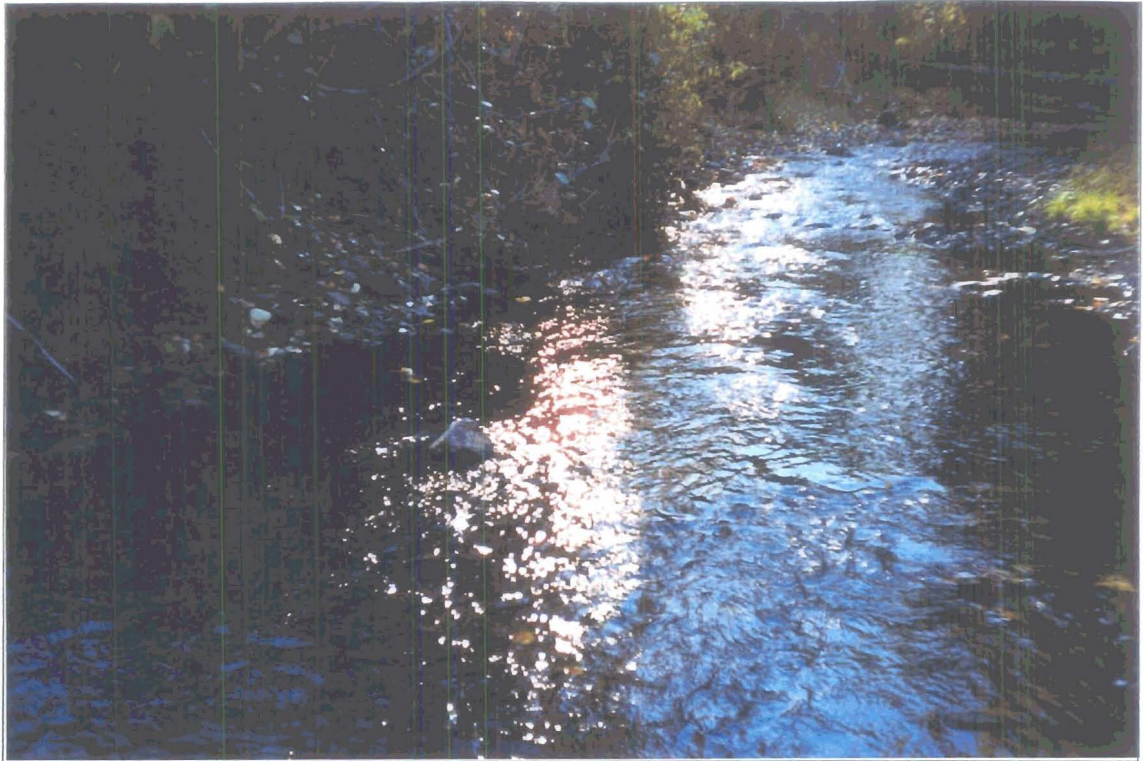
South Fulton Study Area

Reach # ILP Map # ILP #

Watershed Code: 480-705800-00000-00000-0000-000-000-000-000-000-000

4.0

WATERBODY																	
Gazetted Name: TACHEK CREEK										Local: None							
Project Code: 480-000000-00000-00000-0000-000-000-000-000-000-0																	
WS Code: 480-705800-00000-00000-0000-000-000-000-000-000-000																	
Waterbody ID:				ILP Map #:				ILP #:		Reach #:		4 -					
Project ID: 3496				Lake/Stream: S				Lake From Date:									
Fish Permit #:		145085K		Date: 2001/10/04		To: 2001/10/04		Agency: C172		Crew: JA/SH		Resample: ☐					
SITE / METHOD																	
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO		Temp	Cond	Turbid	Comment						
365	093L.080	30065				GPU	EF 1	11	50	C							
A. GEAR SETTINGS																	
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment										
365	EF 1	1	2001/10/04	14:50	2001/10/04	15:30											
C. ELECTROFISHER SPECIFICATIONS																	
Site#	MTD/NO	H/P	Encl	Sec	Length	Width	Voltage	Frequency	Pulse	Make	Model						
365	EF 1	1	O	65	100.0	5.0	500	I	5	SMITH ROOT	12B						
FISH SUMMARY																	
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)		FishAct	Comment							
365	EF 1	1	RB	J		4	53	63	R								
365	EF 1	1	CT	J		3	40	67	R								
INDIVIDUAL FISH DATA																	
Site#	MTD/NO	H/P	Species	Length	Weight	Sex	Mat	Age			Vch#	Genetic		Roll #	Frame#	Comment	
								Str/Smpl#	Age			Str/Smpl#					
365	EF	1	1	CT	40		U	IM									
365	EF	1	1	CT	67		U	IM									
365	EF	1	1	CT	65		U	IM									
365	EF	1	1	RB	53		U	IM									
365	EF	1	1	RB	58		U	IM									
365	EF	1	1	RB	63		U	IM									
365	EF	1	1	RB	60		U	IM									



Site #365, upstream photo of typical habitat found within site.
Roll #91, Frame #17, Date: 2001/10/04



Site #365, downstream photo of typical pools found within site.
Roll #91, Frame #18, Date: 2001/10/04