

2007 Stream Assessment for Select Areas and Road Crossings within Nadina Forest District

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1. Introduction

On June 27, 2007, FINS Consulting Ltd. was retained by the Burns Lake BCTS Office in the Nadina Forest District to conduct operational level stream assessments for several areas of interest undergoing and/or proposed multi-phase layout in the Babine Business Area.

This report summarizes the results of the field survey, which was completed between July 8 and November 18, 2007. Drainages located within or adjacent to 89 selected areas and 37 proposed and existing road crossings were assessed for fish habitat and were subsequently assigned riparian classifications.

1.1 Location and Access

The project area is located approximately 300km west of Prince George. All streams are within the Upper Nechako Reservoir (UNRS), Francois Lake (FRAN), Babine Lake (BABL), Bulkley River (BULK) and Morice River (MORR) high level watershed group in the Nadina Forest District. The location map (Figure 1) on the following page provides the general location of the study area. The specific areas were reached by 4x4 vehicle and individual streams were accessed on foot.

2. Historical Information

An abundance of historic fish information was generally available for the entire project area. Numerous operational and reconnaissance fish and fish habitat inventories had been conducted in the past 11 years by various consultants within Ootsa Lake and Francois Lake tributaries, upper Endako River, upper Bulkley River and Babine Lake tributaries.

All historic information has been included in the mapping portion of this project.

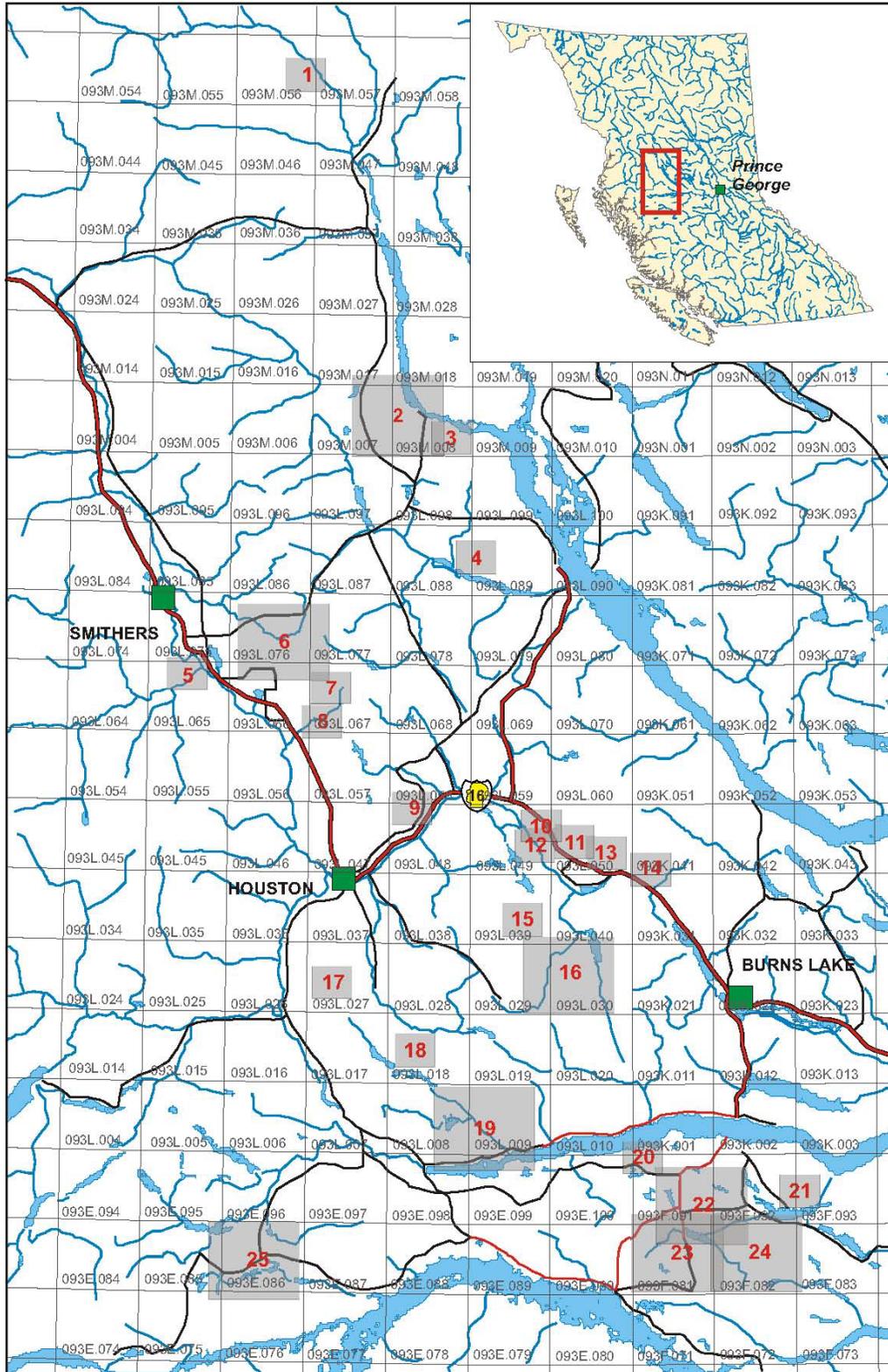


Figure 1: Location of Project Area.

3. Methods

Methodology used throughout this project was consistent with the standards and methods outlined in the following publications:

- Reconnaissance (1:20,000) Fish and Fish Habitat Inventory: Standards and Procedures. Version 2.0. (RIC, 2001)
- Fish-stream Identification Guidebook, Second Edition (FSID) (FPC, 1998)
- Riparian Management Area Guidebook (FPC, 1995)

Areas of interest requiring streams assessment were identified and named by BCTS personnel prior to the field trip and were marked on hard copy or digital maps.

Streams were then sampled for fish using a Smith-Root Model 12B P.O.W. electrofisher. Fish-bearing status and corresponding riparian classification were determined based on the results of the sampling, habitat quality and historic information.

3.1 Air Photo Interpretation

Air photo/ortho photo interpretation was completed to:

- delineate stream reaches for all drainages where reaches were missing,
- identify relevant barriers to fish migration, which would be later verified in field,
- assess if potential overwintering habitat is present above these obstructions.

3.2 Field Data Collection

Field data were collected on Site Cards and Fish Collection Forms, which are the current accepted method of collecting data for fish sampling and stream classification. Supporting documentation regarding terminology and use of these forms is available in publications listed in the Bibliography section. Copies of all field cards are provided in Appendix I and are arranged by site number, with one page representing four pages of site and/or corresponding fish data form.

3.3 Fish Sampling

Electrofishing and visual observation were the methods used for fish sampling for this project.

3.4 Measurements and Calculations

Stream channel and wetted widths were determined using a meter tape. A minimum of six channel width measurements were made along each site at a distance of approximately 15-20m apart. For proposed crossings additional channel measurements were taken on downstream and upstream site of the crossing. Residual pool and bankfull depth measurements were determined using a meter stick. Stream gradient was measured using Abney level along several sections of the site. Site lengths were determined by ground estimate, hip chain or by GPS unit. Stream water temperatures were measured using an alcohol thermometer while conductivity measurements were made using Oakton portable meter, which was calibrated using standardized solutions.

Measurements of falls were based on ground estimates or calculated using the following formula:

$$H = H_o * (\text{gradient (\% to top of falls)} / (\text{gradient (\% to bottom of falls)}) + H_o$$

H = Height of falls (in m) H_o = Eye height of observer (in m)

The above formula is accurate provided the observer is at the same elevation as the base of the falls (i.e., standing at the edge of the plunge pool).

Cascade heights and lengths were determined using a hip chain and Abney level and then applying slope/distance tables to verify the vertical height of cascade.

100 years flood discharge (Q100) was calculated using modified California method and the Manning formula (www.culvertbc.com). Roughness coefficients were derived from Manning's and Cowan's coefficients (McCuen, R. H., 1989) and which were modified through the analysis of stream morphology data collected by FINS during the past 12 years.

3.5 Mapping

Mapping convention for this project follows the standards as recommended in the FSID Guidebook, Second Edition (FPC, 1998). Using GIS software 1:20,000 scale maps have been produced for this project, and are included in Appendix III at the end of this report.

Each map depicts the stream network; base coordinates from the UTM grid and mapping symbols, as recommended in the FSID Guidebook. The fish-bearing status of specific streams is represented on the maps using colour line work. Solid red lines indicate confirmed fish presence while dashed red lines indicate that fish presence is inferred, but has not been confirmed. Solid blue lines show confirmed fish absence and dashed blue lines indicate suspected fish absence in the system. Solid green lines indicate presence of non classified drainage reaches and dashed green lines depict the lack of any kind of drainage at the surveyed site and vicinity, and which were originally displayed on TRIM base layers. In addition examined and/or visited streams and wetlands have been labeled with designated riparian classification.

Coordinates of the site locations, riparian classification transition points and the end of fish use locations (EFU's) were placed under the maps legend in a tabularized form.

Unmapped wetlands and streams, which were encountered during survey were also mapped, with the aid of ortho photos and GIS software.

3.6 Stream and Site Referencing

Site numbers for this project have been assigned in an ascending order based on the time of survey. Sites within proposed/currently developed areas have their relevant reach summary symbol (sampling results, gradient, channel width and riparian classification) on the map.

Road crossing sites have a modified reach summary symbol to include stream Q100 and habitat value rating in addition to sampling results, gradient, channel width and riparian classification.

Historic site information is indicated by a red site symbol and information by whom and when the stream was visited in addition to reach summary symbol.

Drainages without a gazetted name were assigned unique Interim Location Points (ILP's) for each proposed development area to provide simplicity and ease of reference for other forest consultants working within the same area; otherwise gazetted or local names were used. Also, where available, watershed codes were attached to the relevant stream.

3.7 Photographs

Representative photographs of sites and any significant features are presented in Appendix II. Photos have been reduced in size so that multiple photos can be presented on one page. Each photo is labeled with the site number, and direction in which the photo was taken.

Some sites do not have any photographs as they would not have provided any useful information due to the lack of good visibility (dense vegetation) or because there was no drainage present at all.

3.8 Field Equipment

All sampling equipment specifications are listed below:

- 1 Smith-Root model 12B P.O.W. Backpack Electrofisher
- 1 Oakton TDSTestr3 conductivity meter (with 1413 μ S/cm solution)
- 1 Abney level, alcohol thermometer, Silva compass
- 1 Pentax Optio WP digital camera
- 1 Garmin GPS 12 unit
- assorted other equipment including meter tape, hip chain, magnifying lens, meter stick, dip net, and oil spill kit
- 2 personal First Aid kits, as per WCB requirements

4. Determining Fish-bearing Status

The following section summarizes the information collected and conclusions reached for each sample site within the general project area. This has been based both on interpretations and conclusions from the synthesis of data collected during previous inventories (Lakes/Nadina Forest District 1996 through 2007 Reconnaissance and Operational Inventories) and from new information collected as part of this project.

Determining whether or not any fish use occurs in a specific reach is a complex process, involving much more than applying fish sampling results on a site-specific basis. Specifically, in applying a non fish-bearing status to a reach when fish are not captured in a sampling event, a more systematic process is required in order to provide an adequate rationale to support a conclusion of fish absence. Biological evaluation is used which factors in such considerations as historical sampling information, known fish distributions and behavior, barriers, gradients, invertebrate presence, habitat quality, and presence/absence of headwater lakes.

As a general rule, two conditions must usually exist in order for fish to inhabit a specific stream reach; 1) presence of fish habitat and 2) accessibility to that habitat. There are exceptions to this, such as presence of resident or adfluvial populations above barriers which otherwise block access, but these situations are considered on an individual basis when appropriate sampling can be undertaken to accurately determine fish presence under these circumstances.

Determining presence of fish habitat requires biological judgment that is based on many tangible factors. A "snapshot" method is used to determine presence of fish habitat at the time

of sampling, but this is not sufficient when lack of water limits available habitat. Under these circumstances, a temporal approach is required which factors in the potential for fish habitat presence during a different flow period. In this manner, different habitat requirements for suspected fish species are also considered, such as potential seasonal use for rearing (i.e., higher flow rearing or refuge habitat) or spawning (i.e. suitable gravels, gradient and potential flow). Again, biological judgment is required to recognize this potential habitat, bearing in mind how the different flow regimes may affect the availability of this habitat. Moreover, the presence of potential overwintering or perennial habitat upstream in the watershed (i.e. lakes, wetlands, pools >0.5m deep) is also taken into account and has influence on the fish-bearing status of a specific reach. Existence of habitat or potential habitat, if present, is noted and described in the comments on the site cards.

Once presence of fish habitat has been established, it must be determined whether fish are capable of accessing this habitat. The presence of obstructions to fish in the form of falls, cascades, impassable gradients and lack of connectivity within a watershed may limit fish distribution within a watershed and must be evaluated. When questionable obstructions or soft barriers (i.e., beaver dams, wetlands, and NVC reaches) are present, the process for determining the presence of fish habitat upstream must be undertaken and combined with adequate sampling in order to determine fish use.

The fish-bearing status of a specific reach is dependent on the presence of fish habitat, the accessibility to that habitat and is supported by the results of fish sampling. The above process for determining fish presence is an overview of the variables evaluated before fish-bearing status can be accurately ascertained. This entire process is always supplemented by existing fisheries information and interpretations from map and air photo analysis.

Once a non-fish bearing conclusion has been established for a sampled reach, all reaches located upstream from that location are considered to be non fish-bearing and no further sampling is required to confirm this conclusion. This is inherent in the process used to determine the non fish-bearing status. An overview of the process used in determining fish-bearing status is presented in a flowchart in Figure on the following page.

Stream Classification Process

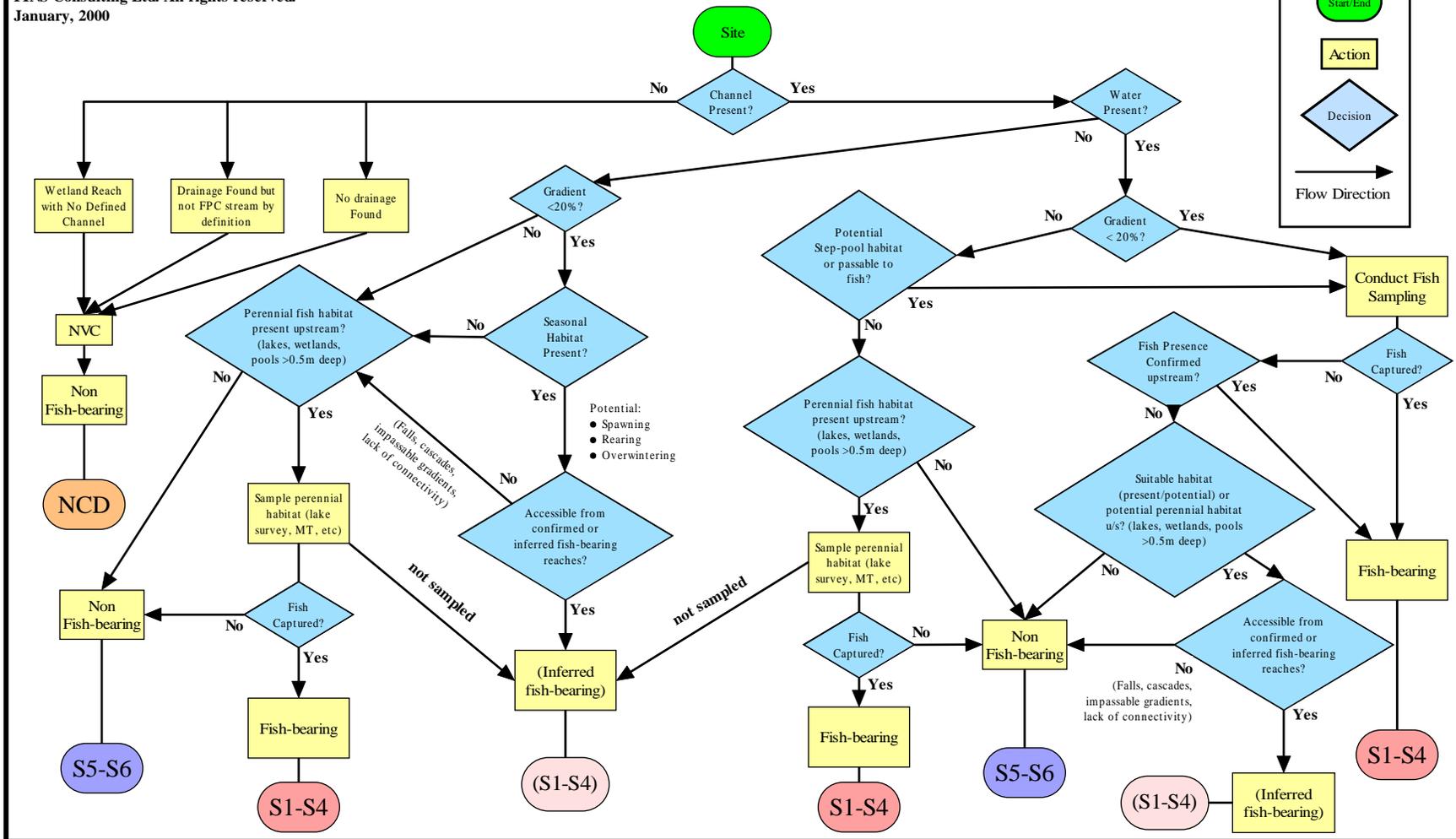


Figure 2: Flowchart of the stream classification process used in determining fish-bearing status

5. Results

The following sections summarize the fish-bearing status for all surveyed reaches. The first section summarizes all surveyed reaches and historic sita data pertinent to this project (shaded); the second section presents information for all non fish-bearing reaches and the third section identifies reaches where follow-up sampling should be conducted. It includes relevant site-specific data, some historical information and comments that provide a rationale to support the classification.

Abbreviations used in all tables are located at the end of report.

5.1 Summary of all Surveyed Reaches

Table 1: Summary of data of all surveyed drainages in Project Area.

Area or Crossing	Project Map	Stream ID	Reach #	Site #	Site UTM (Z.E.N.)	FPC	Habitat Value Rating	Grad (%)	Avg CW (m)	Q100 (m³/s)	Sampling Results	Follow-up Sampl.	Comments
A80842	Map 25	62285	1	1	9.641507.5967220	S3	MG	2.50	2.00	1.0981	NSC (RB)	N	Assumed fish use. Overall good perennial RB habitat, fish likely scarce; stream under-utilized; access impeded by numerous beaver dams d/s from crossing. RB presence documented by HC in 1996.
				1 X-ing	9.641527.5967308								
A81500	Map 25	62200	1.1	2	9.640077.5968280	NCD	NA	2.50	*	*	NS	N	Not a FPC stream.
A81500	Map 25	62200	2	3 at X-ing	9.640406.5968904	NCD	NA	*	*	*	NS	N	Not a FPC stream. NFC by SKR in 2000.
A80840	Map 25	62261	4	4 at X-ing	9.637417.5967991	S6	NA	5.25	0.75	0.411	NS	N	Confirmed non-fish bearing.
Thatsa FSR washout at 27.5 km	Map 25	20057	1	5	9.632517.5972410	S3	MG	8.00	2.40	4.0706	RB	N	Confirmed fish-bearing. Usable RB habitat, RB captured immediately d/s of x-ing.
				5 X-ing	9.632477.5972269								
A80577	Map 3	480-559900	3	6 at X-ing	9.662326.6101261	S3	MG	1.25	2.42	0.919	NFC (RB)	N	Assumed fish use. Stream is easily accessible to RB and has good rearing habitat; under-utilized by fish; no obstructions to fish passage found in R2 and R3; signs of dewatering/low flows in R1, likely hampers access to u/s reaches.
A80577	Map 3	480-559900	2	7	9.663139.6102602	S3	MG	*	*	*	NFC (RB)	N	Sampling only. No obstruction to fish passage found. RB presence documented by Triton in 2000.
A80583	Map 3	480-558800	3	8 at X-ing	9.660851.6101213	S3	MG	1.00	2.07	0.7363	NFC (RB)	N	Assumed fish use. Stream easily accessible to RB, however not preferable RB habitat; RB captured by FINS in 2006 few hundred meters d/s.
Access to A80577 & A80583	Map 3	480-559900	4	9	9.661244.6100479	S3	MG	2.25	1.60	0.5154	NFC (RB)	N	Assumed fish use. Stream easily accessible to RB with good rearing habitat; under-utilized by fish; no obstructions to fish passage found in R2, R3 and R4; signs of dewatering/low flows in R1, likely hampers access to u/s reaches. Triton in 2000 suspected fish use. Stream mismapped in R4.
				9 X-ing	9.661126.6100389								
A81517	Map 3	480-568000	5	10	9.663680.6098562	S5	NA	2.38	3.92	2.5496	NFC	N	Confirmed non-fish bearing.
				10 X-ing	9.663597.6098251								
A81441	Map 9	McInnes C. 460-720300	1	11	9.661666.6039637	S3	MG	10.00	2.50	2.0699	RB	N	Confirmed fish-bearing. Fast flowing stream with not much of good in-stream cover. 1m high and 2m long cascade followed by 3m high and 15m long cascade barriers mark u/s fish distribution limits (UTM 9.661658.6039661).
A81441	Map 9	McInnes C. 460-720300	2	12	9.661658.6039682	S6	NA	8.75	2.05	2.7345	NFC	N	Confirmed non-fish bearing.

Table 1: Summary of data of all surveyed drainages in Project Area.

Area or Crossing	Project Map	Stream ID	Reach #	Site #	Site UTM (Z.E.N.)	FPC	Habitat Value Rating	Grad (%)	Avg CW (m)	Q100 (m ³ /s)	Sampling Results	Follow-up Sampl.	Comments
A81441	Map 9	McInnes C. 460-720300	4	13	9.661100.6042045	S6	NA	4.50	1.48	0.7614	NFC	N	Confirmed non-fish bearing.
				13 X-ing	9.660970.6042106								
A81506	Map 18	18501	1	14 at X-ing	9.662364.6003844	NCD	NA	15.00	*	*	NS	N	Not a FPC stream.
A81506	Map 18	18502	1	15 at X-ing	9.662091.6004022	NCD	NA	7.00	*	*	NS	N	Not a FPC stream.
A78462	Map 16	460-924300-58800-15500-0859	1	16	9.689611.6014885	S3	MG	3.5	2.37	1.1853	RB	N	Confirmed fish-bearing. Usable RB habitat and easily accessible to RB, RB captured in the 100m section of stream near mouth.
				16X at X-ing	9.689067.6014426	S3	MG	2.5	1.77	0.6747	NFC (RB)	N	
A81184	Map 14	31501	2	17	10.307911.6031999	S6	NA	6.66	1.38	0.4455	NS	N	Confirmed non-fish bearing.
A81181	Map 14	41006	1	18	10.308439.6032447	S6	NA	12.00	0.25	0.0269	NS	N	Confirmed non-fish bearing.
A81181	Map 14	41006	2	19	10.309066.6033995	NA	NA	*	*	*	NS	N	No drainage.
A81195-1	Map 16	460-924300-43400-34749-7794	1	20	9.687995.6017346	S3	MG	*	*	*	RB	N	Confirmed fish-bearing. 2 RB was captured immediately d/s of cascade barrier during 7 sec of electrofishing . 38m high and 94m long cascades at UTM 9.687932.6017345. are impassable to fish and mark upstream fish distribution limit.
A81195-1	Map 16	460-924300-43400-34749-7794	2	21	9.687915.6017343	S6	NA	7.00	1.50	1.3644	NFC	N	Confirmed non-fish bearing.
A81195-1	Map 16	30501	1	22 at X-ing	9.685693.6016251	S6	NA	5.50	1.77	1.5939	NS	N	Confirmed non-fish bearing.
A81195-1	Map 16	30501	2	23 at X-ing	9.685501.6016094	S6	NA	19.50	1.25	1.4543	NS	N	Confirmed non-fish bearing.
A81192-1	Map 15	Aitken C. 460-702000	13.2	24	9.673310.6029723	S2 d/s of UTM	IM	*	4.48	*	RB	N	Confirmed fish-bearing. RB presence was documented in Aitken C. at the current bridge location (UTM:9.673199.6029242) during 2000 Reconnaissance Inventory. The channel measurements were conducted along eastern block boundary within 500 m length of stream and were consistent throughout. Upstream of the point UTM the measurements gradually decreased and ranged between 3.8 m and 5.5 m with an average of 4.48 m. Downstream of UTM the measurements gradually increased and ranged between 3.8 m and 6.3 m with an average of 5.15 m. Therefore the point UTM marks riparian classification change from S2 to S3.
						S3 u/s of UTM		*	5.15	*	RB	N	
A81195-1	Map 16	30502	1	25	9.686037.6016557	NCD	NA	*	*	*	NS	N	Not a FPC stream.

Table 1: Summary of data of all surveyed drainages in Project Area.

Area or Crossing	Project Map	Stream ID	Reach #	Site #	Site UTM (Z.E.N.)	FPC	Habitat Value Rating	Grad (%)	Avg CW (m)	Q100 (m ³ /s)	Sampling Results	Follow-up Sampl.	Comments
A81195-4	Map 16	30504	2	26	9.684469.6019766	NCD	*	*	*	*	NS	N	Not a FPC stream. Becomes a stream at UTM 9.684469.6019767. Unmapped drainage on TRIM.
A81192-1	Map 15	460-702000-77135	1.1	27	9.673474.6029498	S3	MG	2.43	1.77	1.1727	RB	N	Confirmed fish-bearing. Stream with good seasonal rearing habitat and utilized by RB throughout. Stream changes riparian classification from S3/S4 at UTM 9.673010.6029460.
A81192-1	Map 15	460-702000-77135	1.2	28 at X-ing	9.672789.6029455	S4	MG	1.85	1.32	0.6964	NFC (RB)	N	Assumed fish use. No fish captured, however stream is easily accessible to RB and offers usable seasonal rearing habitat.
A81192-1	Map 15	460-702000-77135-16110	1	29	9.673201.6029536	NCD	NA	*	*	*	NS	N	Not a FPC stream.
A82818-1	Map 11	460-968193	2	30	9.685767.6037599	NCD	NA	*	*	*	NS	N	Not a FPC stream.
A82818-2	Map 11	460-967873	2	372	9.684473.6035738	S6	NA	1.5	1.34	1.8579	NS	N	Historic Sites. Determined in 2000 by FINS to be S6.
A82818-2	Map 11	460-967873	4	373	9.683514.6037298	S6	NA	7	0.48	0.2653	NS	N	
A82818-3	Map 11	460-968031	2	375	9.684876.6036854	S6	NA	2.75	1.11	0.3061	NS	N	Historic Site. Determined in 2000 by FINS to be S6.
A82818-3	Map 11	460-968031-40032	3	376	9.683716.6037600	NA	NA	*	*	*	NS	N	Historic Site. No drainage was found in 2000 by FINS.
A82818-4	Map 11	460-967873	2	372	9.684473.6035738	S6	NA	1.5	1.34	1.8579	NS	N	Historic Sites. Determined in 2000 by FINS to be S6.
A82818-4	Map 11	460-967873	4	373	9.683514.6037298	S6	NA	7	0.48	0.2653	NS	N	
A82818-5	Map 11	460-968031	2	375	9.684876.6036854	S6	NA	2.75	1.11	0.3061	NS	N	Historic Site. Determined in 2000 by FINS to be S6.
A82817-4	Map 13	460-967671-63097	1	31	9.687752.6037005	NCD	NA	8.00	*	*	NS	N	Not a FPC stream. Drainage mismapped on TRIM.
A82817-4	Map 13	460-967671-68872	2	32	9.688222.6036610	NCD	NA	*	*	*	NS	N	Not a FPC stream.
A82817-5	Map 13	50600	1	33	9.688787.6035728	NCD	NA	*	*	*	NS	N	Not a FPC stream.
A82817-5	Map 13	460-967400-31000	1	2	9.688783.6035287	S6	NA	1.50	1.15	2.6046	NS	N	Historic Sites. Confirmed in 2000 by FINS to be S6. Surveyed 1996 by SKR.
A82817-5	Map 13	460-967400-31000		359	9.688846.6035805	S6	NA	1.50	0.85	0.0796	NS	N	
A82817-5	Map 13	460-967400-31000-26131	1	360	9.688857.6035809	NA	NA	*	*	*	NS	N	Historic Site. No drainage was found in 2000 by FINS.
A82817-5	Map 13	460-967400-31000-28730		361	9.688831.6035854	NA	NA	*	*	*	NS	N	Historic Site. No drainage was found in 2000 by FINS.
A82817-5	Map 13	Stream 2 / 460-967400-29672		41	9.689059.6035362	NCD	NA	*	*	*	NS	N	Historic Site. Determined in 2005 by FINS to be NCD.
A82817-5	Map 13	Stream 4 / -29672-29784		43	9.689053.6035376	NCD	NA	*	*	*	NS	N	Historic Site. Determined in 2005 by FINS to be NCD.
A82817-5	Map 13	Stream 3 / -29672-70545		42	9.689276.6035168	NCD	NA	*	*	*	NS	N	Historic Site. Determined in 2005 by FINS to be NCD.
A82817-3	Map 13	460-967000-37326	1	34	9.690509.6036597	NCD	NA	*	*	*	NS	N	Not a FPC stream.

Table 1: Summary of data of all surveyed drainages in Project Area.

Area or Crossing	Project Map	Stream ID	Reach #	Site #	Site UTM (Z.E.N.)	FPC	Habitat Value Rating	Grad (%)	Avg CW (m)	Q100 (m³/s)	Sampling Results	Follow-up Sampl.	Comments
A82817-3	Map 13	460-967000	4	35	9.690107.6036841	S3	MG	4.00	2.40	2.3425	NFC (RB)	N	Assumed fish use. Good RB habitat in channelized sections between beaver dams. No spawning habitat observed, overwintering habitat likely good. Stream is severely damaged by beaver activity - numerous dams impede RB passage. RB was captured in 2000 by FINS during Reconnaissance Inventory at the road crossing.
A82817-2	Map 13	50601	2	36	9.691419.6035801	NCD/S6	NA	4.00	0.97	0.3323	NS	N	Not a FPC stream. NCD/S6 transition at UTM 9.691453.6035762.
A82647	Map 4	40246	1	37	9.667807.6081759	S6	NA	5.17	1.25	0.5681	NFC	N	Confirmed non-fish bearing.
				37 X-ing	9.667932.6081778								
A82647	Map 4	40240	7	38	9.667425.6082019	S6	NA	2.13	2.73	2.1584	LKC	N	Confirmed non-fish bearing. Stream populated by lake chub (not FPC fish). Ensure adequate passage when placing CMP during road construction.
				38 X-ing	9.667437.6082188								
A82647	Map 4	40244	2	39	9.667599.6081921	NCD/S6	NA	4.67	0.62	0.156	NS	N	Confirmed non-fish bearing. Becomes NCD @ UTM 9.667599.6081921 d/s of site.
				39 X-ing	9.667633.6082011								
A82821-2	Map 12	460-849271-21131	2	40	9.678982.6036366	S6/NCD	NA	*	*	*	NS	N	Confirmed non-fish bearing. Becomes a stream @ UTM 9.678982.6036366 d/s of site.
A82821-2	Map 12	460-849271-23894	1	41	9.679201.6036259	NCD	NA	*	*	*	NS	N	Not a FPC stream.
A82821-2	Map 12	460-849271-11896	1	42	9.679323.6036467	NCD	NA	*	*	*	NS	N	Not a FPC stream.
A82821-2	Map 12	460-849309	2	1, 1, 256	9.678544.6036944	S6	NA	4.42	1.27	0.91	NFC	N	Historic Sites. Determined in 1998 by RJA to be S6 and confirmed in 2000 by FINS
A82821-2	Map 12	460-849271-11896	2	1, 1, 258	9.679287.6036626	S6						N	Historic Sites. Determined in 1998 by RJA to be S6 and confirmed in 2000 by FINS.
A82821-1	Map 12	49600	2	43	9.678450.6037780	NCD	NA	*	*	*	NS	N	No drainage present, however noted higher moisture level in the ground which apparently causes slope to start sloughing. Numerous cracks in the ground observed.
A82821-1	Map 12	460-849309-38764	1	257	9.677862.6037197	NCD	NA	*	*	*	NS	N	Historic Site. Determined in 2000 by FINS to be NCD.
A81443	Map 9	48600	2	44	9.658170.6040262	NCD	NA	*	*	*	NS	N	Not a FPC stream.
A81443	Map 9	460-704700-19000	2	45A	9.659251.6039182	S6	NA	*	*	*	NFC	N	Confirmed non-fish bearing.
A81443	Map 9	460-704700-19000	2	45 at X-ing	9.658553.6040586	S6	NA	5.00	1.88	1.1194	NFC	N	Confirmed non-fish bearing.
A76129	Map 19	3131	1	46	9.676790.5994924	S6	NA	18.25	0.70	0.581	NS	N	Confirmed non-fish bearing.
A76129	Map 19	9500	1	47	9.677086.5995036	NA	NA	*	*	*	NS	N	No drainage.

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A76129	Map 19	3131	3	48	9.677060.5995055	NA	NA	*	*	*	NS	N	No drainage.
A76129	Map 19	180-374000-95200-87600-3020-0960-458	7	49	9.676819.5995000	NA	NA	*	*	*	NS	N	No drainage.
A76129	Map 19	3129	2	50 at X-ing	9.676317.5995441	S6	NA	6.00	0.63	0.1492	NS	N	Confirmed non-fish bearing.
A76129	Map 19	9501	1	51 at X-ing	9.676359.5995442	S6	NA	10.67	0.47	0.2151	NS	N	Confirmed non-fish bearing. Stream mismapped on TRIM.
A76129	Map 19	9502	1	52 at X-ing	9.676551.5995455	NCD	NA	*	*	*	NS	N	Not a FPC stream. Unmapped drainage.
Carrier FSR 10.5km	Map 17	27500		53 at X-ing	9.648127.6010400	S6	NA	2.00	0.80	0.4862	NS	N	Confirmed non-fish bearing.
A80840	Map 25	86500	3.2	54 54 X-ing	9.636483.5968479 9.636386.5968402	S6	NA	4.00	1.72	0.8557	NFC	N	Confirmed non-fish bearing. Mismapped on TRIM.
A80840	Map 25	62260	1.2	55 at X-ing	9.637496.5968962	NCD	NA	*	*	*	NS	N	Not a FPC stream.
A80840	Map 25	62260	1.2	56 at X-ing	9.637765.5969012	NCD	NA	*	*	*	NS	N	Not a FPC stream.
A80844	Map 25	62222	1	8	9.633878.5965695	S3	MG	1.8	2	1.7277	RB	N	Historic Site. RB presence confirmed in 2000 by SKR.
A82646	Map 25	62173	1	57	9.630440.5966464	NCD	NA	*	*	*	NS	N	Not a FPC stream.
A82646	Map 25	62180	2	58	9.631338.5966351	NCD	NA	*	*	*	NS	N	Not a FPC stream.
A82646	Map 25	62179	2	59	9.631267.5966268	NCD	NA	*	*	*	NS	N	Not a FPC stream. Mismapped on TRIM.
A82646	Map 25	62179	4	60	9.631138.5966424	NCD	NA	*	*	*	NS	N	Not a FPC stream.
A82646	Map 25	62187	1	61	9.630654.5966948	NCD	NA	*	*	*	NS	N	Not a FPC stream.
A82646	Map 25	62184	1	62	9.630686.5967067	S6	NA	4.83	1.13	0.3845	NFC	N	Confirmed non-fish bearing.
A82646	Map 25	62169	2	63	9.630679.5967021	S3	IM	2.25	2.67	1.8964	RB	N	Confirmed fish-bearing. Overall good perennial RB habitat, fish relatively abundant; good spawning habitat and some suitable overwintering pools are present.
A81501	Map 25	62189	1	64 at X-ing	9.633060.5968177	NCD	NA	*	*	*	NS	N	Not a FPC stream.
A77759	Map 19	180-374000-95200-87702-7675	4	65	9.675006.5987086	S6	NA	7.67	0.93	0.3846	NS	N	Confirmed non-fish bearing.
A77759	Map 19	9501	1	66	9.674736.5987121	NCD	NA	*	*	*	NS	N	Not a FPC stream.
A77759	Map 19	180-374000-95200-87702-7675	6	67	9.674248.5987229	NCD	NA	*	*	*	NS	N	Not a FPC stream.

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A77759	Map 19	98502	3	68	9.673729.5986961	NCD	NA	1.00	*	*	NS	N	Not a FPC stream.
A77759	Map 19	180-374000-95200-91200	3	69	9.673365.5986739	S6	NA	4.25	1.25	0.3093	NFC	N	Confirmed non-fish bearing.
A77759	Map 19	180-374000-95200-91200	1	69A	9.673497.5986111	UND	MG	*	*	*	RB	N	Confirmed fish presence - incidental sampling.
A82648	Map 19	180-374000-95200-94700	3	70	9.668564.5986155	S6	NA	5.00	1.00	0.1752	NS	N	Confirmed non-fish bearing. Transition W1/S6 @ UTM 9.668559.5986125.
A82648	Map 19	98508	1	71	9.668866.5985904	NCD	NA	*	*	*	NS	N	Not a FPC stream.
A82648	Map 19	98507	1	72	9.668800.5985710	NA	NA	*	*	*	NS	N	No drainage.
A82648	Map 19	98505	1	73	9.669578.5985371	NCD	NA	*	*	*	NS	N	Not a FPC stream.
A82648	Map 19	98506	1	74	9.669585.5985588	NCD	NA	*	*	*	NS	N	Not a FPC stream.
A82648	Map 19	180-374000-95200-94700	1	75	9.669568.5985364	S3	IM	4.25	1.57	0.5319	RB	N	Confirmed fish-bearing. Overall good rearing and spawning habitat for RB - fish moderately abundant. Transition to wetland marks end of fish use and change of riparian classification from S3 to W1 at UTM 9.669004.5985670.
Uncha Mtn FSR 9.65 km	Map 21	93500	3	76 76 X-ing	10.329776.5982216 10.329253.5982905	S6	NA	3.25	2.32	1.5187	NFC	N	Confirmed non-fish bearing.
Uncha Mtn FSR 9.65 km	Map 21	180-374000-95200-41400-3080	3	77	10.331467.5979801	S3	IM	*	*	*	RB	N	Confirmed fish-bearing. 5m waterfall marks end of fish use in the watershed at UTM 10.331460.5979820.
Uncha Mtn FSR 9.65 km	Map 21	180-374000-95200-41400-3080	3	78	10.331442.5979826	S6	NA	8.00	2.67	5.7237	NFC	N	Confirmed non-fish bearing.
A82819-1	Map 10	460-829700-20199	3	79	9.679579.6040695	NCD	NA	*	*	*	NS	N	Not a FPC stream.
A82820-1	Map 10	460-848186	3	80	9.679389.6038224	NCD	NA	*	*	*	NS	N	Not a FPC stream.
A82820-1	Map 10	460-844254	3	81	9.678803.6038444	NCD	NA	*	*	*	NS	N	Not a FPC stream.
A82820-1	Map 10	460-840719	3	82	9.678617.6038911	NCD	NA	*	*	*	NS	N	Not a FPC stream. End of seepage at UTM 9.678145.6039182.
A82820-1	Map 10	460-836919	2	83	9.678172.6039151	NA	NA	*	*	*	NS	N	No drainage. Seepage begins at UTM 9.678501.6038837.
A82823-1	Map 16	30500	1	84	9.682998.6011020	NCD	NA	*	*	*	NS	N	Not a FPC stream.
A82823-1	Map 16	30503	1	85	9.682846.6011380	NCD	NA	*	*	*	NS	N	Not a FPC stream. Unmapped on TRIM.
A82823-1	Map 16	460-924300-31500-57900-4347	1	335	9.682806.6011659	S6	NA	11.50	0.70	0.67	NS	N	Historic Site. Determined in 2000 by FINS to be S6.
A82823-2	Map 16	460-924300-31500-48819	1	325	9.682585.6014018	S6	NA	14.50	0.77	0.26	NFC	N	Historic Site. Determined in 2000 by FINS to be S6. 7m falls at UTM 9.682230.6014349 mark end of fish use in the system.
A82823-3	Map 16	460-924300-31500-41228	2	86	9.682504.6015897	S6	NA	5.33	0.95	0.7413	NFC	N	Confirmed non-fish bearing.
A82823-3	Map 16	30506	1	86A	9.682778.6015742	S6	NA	5	1	*	NS	N	Confirmed non-fish bearing.

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A82823-3	Map 16	30502	1	87	9.682528.6015736	NCD	NA	*	*	*	NS	N	Not a FPC stream.
A82817-1	Map 13	Taman C. 460-951600	5	88	9.692181.6034770	S3	MG	2.25	2.37	1.2135	RB	N	Overall good perennial habitat for RB, but fish scarce. This is a side channel of Taman C. created by the burst of BD. The entire valley has numerous side channels created by the burst of this BD. All converge at the site UTM.
A82817-1	Map 13	50600	1	89	9.692174.6034847	NCD	NA	*	*	*	NS	N	Not a FPC stream.
A82778-1	Map 6	Vanderven C. 460-487900-37600	6	90	9.637015.6065021	NCD / W5	NA	*	*	*	NS	N	Not a FPC stream. Becomes continuously channelized @ UTM 9.636980.6064796.
A82778-1	Map 6	Vanderven C. 460-487900-37600	5	91	9.637275.6063898	S6/W5	NA	0.88	2.27	1.3873	NFC	N	Confirmed non-fish bearing. Transition S3/S6 at UTM 9.636975.6064775.
A82496-5	Map 24	82502	2	92	10.323882.5970727	NCD	NA	*	*	*	NS	N	Not a FPC stream. Mismatched on TRIM.
A82496-5	Map 24	82501	1	93	10.324216.5970770	S6	NA	5.00	0.90	0.2009	NS	N	Confirmed non-fish bearing.
A82496-5	Map 24	82500	2	94	10.324505.5970901	NCD	NA	*	*	*	NS	N	Not a FPC stream.
A82496-5	Map 24	82503	1	95	10.323985.5969575	NA	NA	*	*	*	NS	N	No drainage.
A82496-4	Map 24	180-374000-95200-41400-5280-4170-556	3	96	10.323040.5969930	NCD	NA	*	*	*	NS	N	Not a FPC stream.
A82496-3	Map 24	82504	2	97 X-ing	10.321872.5970461 10.321939.5970497	S6	NA	3.25	0.67	0.0913	NFC	N	Confirmed non-fish bearing. Transition W1/S6 at UTM 10.321866.5970455 and S6/W3 at UTM 10.322021.5970543.
A82496-1	Map 24	180-374000-95200-41400-5280-4170-520	4	98	10.321361.5971588	NCD / W1	NA	*	*	*	NS	N	Not a FPC stream.
A82490-1	Map 24	180-374000-95200-41400-4320-4500-553	3	99	10.323118.5973506	NCD	NA	*	*	*	NS	N	Not a FPC stream.
A82490-1	Map 24	82505	1	100	10.323337.5973478	NA	NA	*	*	*	NS	N	No drainage.
A82490-2	Map 24	82509	1	101	10.323680.5973121	NCD	NA	*	*	*	NS	N	Not a FPC stream.
A82490-2	Map 24	82507	1	102	10.324122.5973149	NCD	NA	*	*	*	NS	N	Not a FPC stream.
A82490-2	Map 24	82506	2	103	10.324239.5972995	NCD	NA	*	*	*	NS	N	Not a FPC stream.
A82490-1	Map 24	82508	1	104	10.324028.5973416	NA	NA	*	*	*	NS	N	No drainage.
A82490-4	Map 24	82510	2	105	10.325805.5972218	NA	NA	*	*	*	NS	N	No drainage.
A82490-3	Map 24	82511	1	106	10.326298.5972113	NA	NA	*	*	*	NS	N	No drainage.
A82490-3	Map 24	180-374000-95200-41400-4320-4171	2	107	10.326062.5973321	NCD	NA	*	*	*	NS	N	Not a FPC stream.
A81175-1	Map 24	92500	2	108	10.320126.5975730	NA	NA	*	*	*	NS	N	No drainage.

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A81175-2	Map 24	180-374000-95200-41400-5280-2580	2	109	10.317683.5974984	NCD	NA	*	*	*	NS	N	Not a FPC stream.
A82495-4	Map 22	180-374000-95200-41400-5280-6998	2	110	10.319793.5978166	S6	NA	3.75	1.40	0.6998	NS	N	Confirmed non-fish bearing. Transition S6/NCD at UTM 10.319540.5978252.
A82495-1	Map 22	180-374000-95200-41400-5280-6998	3	110A	10.318496.5978247	NCD	NA	*	*	*	NS	N	Not a FPC stream.
A82495-1	Map 22	180-374000-95200-41400-5280-6998-6734	1	110B	10.318415.5978268	NCD	NA	*	*	*	NS	N	Not a FPC stream.
				110B X-ing	10.318072.5978217								
Access to A82495-3	Map 22	180-374000-95200-41400-5280-2540	4	X-ing	10.317351.5976887	S6	NA	4.25	1.9	0.6789	NFC	N	Historic Site. NFB watershed documented by numerous surveys in the past conducted by RJA, BH and FINS. 15m falls at UTM 10.318207.5976065 mark end of fish use in the system.
A82495-2	Map 22	92501	1	111	10.317120.5977068	NCD	NA	*	*	*	NS	N	Not a FPC stream.
A82495-3	Map 22	180-374000-95200-41400-5280-2540-560	1	112	10.316112.5977170	NCD	NA	*	*	*	NS	N	Not a FPC stream.
A82495-3	Map 22	91500	1	113	10.315992.5976530	NCD	NA	*	*	*	NS	N	Not a FPC stream.
A82495-3	Map 22	92502	1	114	10.316371.5977004	NCD / W3	NA	*	*	*	NS	N	Not a FPC stream.
A82493-3	Map 22	180-374000-95200-41400-5280-2540-652	1	115	10.316073.5977986	S6	NA	3.00	0.85	0.2513	NS	N	Confirmed non-fish bearing.
A82493-3	Map 22	180-374000-95200-41400-5280-2540-652-180	1	116	10.316070.5978008	S6	NA	2.25	0.97	0.1096	NS	N	Confirmed non-fish bearing.
A82493-3	Map 22	92503	1	117	10.316189.5978141	NCD	NA	*	*	*	NS	N	Not a FPC stream.
A82497-2	Map 22	180-374000-95200-41400-7730	5	118	10.317577.5979907	S6	NA	2.75	0.97	0.114	NS	N	Not a FPC stream. Transition S6/NCD at UTM 10.317482.5979894.
A82497-1	Map 22	180-374000-95200-41400-5280-2540-810	2	119	10.315208.5979425	NA	NA	*	*	*	NS	N	No drainage.
A82497-2	Map 22	92505	1	120	10.316543.5979994	NCD	NA	*	*	*	NS	N	Not a FPC stream. Mismatched on TRIM.
A82497-2	Map 22	92504	1	121	10.316510.5980041	NCD	NA	*	*	*	NS	N	Not a FPC stream. Unmapped on TRIM. Transition NCD/S6 at UTM 10.316507.5980047.
A82497-2	Map 22	180-374000-95200-41400-7730	6	122	10.317480.5979890	NCD	NA	*	*	*	NS	N	Not a FPC stream. Transition NCD/S6 at UTM 10.317482.5979897.
A82497-2	Map 22	92505	2	123	10.316880.5979609	NCD	NA	*	*	*	NS	N	Not a FPC stream. Mismatched on TRIM.

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A82497-2	Map 22	180-374000-95200-41400-8240-5549	7	30	10.316216.5979709	NCD	NA	*	*	*	NS	N	Historic Site. Determined in 2005 by FINS to be NCD. Transition S6/NCD at UTM 10.315908.5980050.
A82493-1	Map 22	180-374000-95200-41400-5280-4529-785	1	124	10.314508.5976700	NA	NA	*	*	*	NS	N	No drainage.
A82493-1	Map 22	180-374000-95200-41400-5280-3152	3	125	10.315403.5976904	NCD	NA	*	*	*	NS	N	Not a FPC stream.
A82493-2	Map 22	180-374000-95200-41400-5280-2540-615	1	126	10.315783.5977625	NCD	NA	*	*	*	NS	N	Not a FPC stream. Transition NCD/W1 at UTM 10.315449.5977563.
A82498-2	Map 22	91502	2	127	10.312827.5978875	NCD	NA	*	*	*	NS	N	Not a FPC stream.
A82498-2	Map 22	91501	1	128	10.311587.5978973	NCD	NA	*	*	*	NS	N	Not a FPC stream. Mismatched on TRIM.
A82498-2	Map 22	91500	2	129	10.311606.5978877	NCD	NA	*	*	*	NS	N	Not a FPC stream.
A82498-1	Map 22	91500	1	130	10.310947.5978471	NCD	NA	*	*	*	NS	N	Not a FPC stream.
A82498-1	Map 22	Hawley C. 180-374000-95200-41400-5280-5480	4	131	10.310904.5978500	S6	NA	1.25	1.37	0.79	NS	N	Confirmed non-fish bearing. Transition S6/NCD at UTM 10.310972.5978667.
A82492-3	Map 23	Chicken C. 180-374000-95200-41400-5280-7330-125	2	132	10.306291.5972669	S3	CR	1.25	2.37	2.4838	RB	N	Excellent RB habitat - stream contains ideal RB spawning and rearing habitat for fry and juvenile RB. Suspect the stream is utilized by the Takysie L. RB population. During past surveys only two other streams were found with spawning habitat suitable for RB reproducing in the vicinity of Takysie L. Likely these streams sustain RB population of Takysie L. and which is a very popular angling destination year round. RB fry and young juveniles were very abundant during this survey and this stream is assigned critical habitat. Stream mismatched on TRIM. 5m falls at UTM 10.305067.5971769 mark end of fish use in the system.
		132 X-ing	10.306120.5972620										
A82492-3	Map 23	81500	1	133	10.305821.5972713	NCD/W1	NA	*	*	*	NS	N	Not a FPC stream. Mismatched on TRIM.
A82492-3	Map 23	180-374000-95200-41400-5280-7330-315	1	134	10.306282.5972281	NCD	NA	*	*	*	NS	N	Not a FPC stream.
A82492-2	Map 23	180-374000-95200-41400-5280-7330-364	4	135	10.305986.5971559	NCD	NA	*	*	*	NS	N	Not a FPC stream.
A82492-1	Map 23	81501	1	136	10.305540.5970915	NCD	NA	*	*	*	NS	N	Not a FPC stream.
A82494-3	Map 23	81502	3	137	10.308322.5968162	NCD/W1	NA	*	*	*	NS	N	Not a FPC stream.
A82494-2	Map 23	81503	2	138	10.310608.5969907	NCD	NA	*	*	*	NS	N	Not a FPC stream.

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A82494-2	Map 23	180-374000-95200-41400-5280-6540-650	3	139	10.310687.5970264	NCD	NA	*	*	*	NS	N	Not a FPC stream.
A82494-2	Map 23	81504	1	140	10.310615.5970509	NCD	NA	*	*	*	NS	N	Not a FPC stream.
A82494-1	Map 23	180-374000-95200-41400-5280-6540-450	1	141	10.308587.5970247	NCD	NA	*	*	*	NS	N	Not a FPC stream.
A82508-1	Map 23	81505	1	142	10.314338.5968060	NCD	NA	*	*	*	NS	N	Not a FPC stream.
A82822-1	Map 15	460-702000-79790	2.1	143	9.672733.6028368	S3	MG	13.00	2.42	4.9902	NFC (RB)	N	Suspected fish use. Overall poor RB habitat - volatile stream with highly movable substrate - usable only at low/moderate flows. Too steep for spawning and only one suitable overwintering pool located. Stream designated as a fish bearing as it has a potential of being populated from Aitken C, despite of very limited available year round habitat. 10m waterfall @ UTM 9.672659.6028220 mark end of fish use.
A82822-1	Map 15	460-702000-79790-40738	1	144	9.672709.6028095	NCD	NA	*	*	*	NS	N	Not a FPC stream. Unmapped drainage.
A82822-1	Map 15	460-702000-79790	2.2	145	9.672677.6028085	S6	NA	10.50	1.67	3.2687	NFC	N	Confirmed non-fish bearing.
A82822-1	Map 15	39500	1	146	9.672671.6028046	S6	NA	15.00	1.22	1.639	NS	N	Confirmed non-fish bearing. Unmapped stream.
A82822-1	Map 15	460-702000-82842	2	147	9.673584.6028151	NA	NA	*	*	*	NS	N	No drainage.
A82774-1	Map 1	56003	1	148	9.636096.6159397	NCD	NA	*	*	*	NS	N	Not a FPC stream.
A82774-1	Map 1	56002	1	149	9.636038.6159461	S6	NA	5.25	2.00	4.2937	NFC	N	Confirmed non-fish bearing. Mismapped on TRIM.
A82774-1	Map 1	56004	1	150	9.636139.6159348	S6/ NCD	NA	4.00	0.93	0.2254	NS	N	Confirmed non-fish bearing. Becomes seepage @ UTM 9.636075.6159171.
A82774-1	Map 1	56005	1	151	9.636322.6159294	S6	NA	4.33	0.77	0.1212	NS	N	Confirmed non-fish bearing.
A82774-1	Map 1	56006	1	152	9.636441.6159164	S6	NA	4.33	1.37	0.7176	NS	N	Confirmed non-fish bearing. Mismapped on TRIM.
A82774-1	Map 1	56001	3	153	9.636490.6259155	S6	NA	3.33	2.27	1.6286	NFC	N	Confirmed non-fish bearing.
A82777-1	Map 6	77711	4	154	9.636459.6069349	S6	NA	5.00	1.68	0.8008	NFC	N	Confirmed non-fish bearing. Transition NCD/S6 at UTM 9.635937.6069285.
A82777-5	Map 6	77751	1	155	9.636612.6068529	NCD	NA	*	*	*	NS	N	Not a FPC stream.
A82777-5	Map 6	77752	2	156	9.636744.6068171	NCD	NA	*	*	*	NS	N	Not a FPC stream.
A82777-2	Map 6	77721	1	157	9.636578.6068626	NCD	NA	*	*	*	NS	N	Not a FPC stream.
Deep C x-ing 1.7km	Map 6	76001	2	158	9.640677.6069937	S6	NA	12.67	1.35	1.2494	NFC	N	Confirmed non-fish bearing. Stream mismapped on TRIM - flows parallel to Canyon C. in R1.
				158 X-ing	9.640579.6070007								
A82779-3	Map 6	460-487900-37900	5	159	9.639543.6063189	S3	IM	*	*	*	CT	N	Confirmed fish presence - incidental sampling.

Table 1: Summary of data of all surveyed drainages in Project Area.

Area or Crossing	Project Map	Stream ID	Reach #	Site #	Site UTM (Z.E.N.)	FPC	Habitat Value Rating	Grad (%)	Avg CW (m)	Q100 (m³/s)	Sampling Results	Follow-up Sampl.	Comments
A82779-3	Map 6	460-487900-37900	6	160	9.640109.6063607	S3	IM	4.25	2.42	1.4724	CT	N	Confirmed fish-bearing. Overall good perennial CT habitat - cover diverse to provide excellent rearing, many uniform gravel patches with good holding for spawning and some suitable pools for OW present, however CT not very abundant.
A82779-1	Map 6	77911	2	161	9.638023.6064154	NA	NA	*	*	*	NS	N	No drainage.
A82779-2	Map 6	77921	3	162	9.638934.6064449	S6	NA	8.33	1.37	0.4753	NS	N	Confirmed non-fish bearing. Mismapped on TRIM.
A82779-2	Map 6	77922	3	163	9.638962.6064153	NA	NA	*	*	*	NS	N	No drainage.
A82778-1	Map 6	460-325400-55900	3	164	9.636410.6066170	S6	NA	9.33	0.72	0.2489	NFC	N	Confirmed non-fish bearing.
A82778-1	Map 6	77812	1 & 3	No Site		W5	NA	*	*	*	NS	N	No fish habitat - observed narrow boggy area with squishy ground and isolated muddy puddles. Logged in the past. In R3 - bog.
A82776-2	Map 8	77621	1	165	9.643986.6053740	NA	NA	*	*	*	NS	N	No drainage.
A82776-1	Map 8	460-496100-18600-29200	2	166	9.642802.6053709	S3	MG	3.75	5.00	2.3178	NFC	N	Assumed fish use. Poor fish habitat - stream extensively damaged by ranging cattle - banks trampled, water quality poor d/t feces present in stream, substrate frequently disturbed by wading cattle. Stream may dry out during drier seasons. At present fish use unlikely due to the extensive environmental damage in addition to fish passage obstructed by the constructed retention dam. Stream braided and unstable in nature. RB was captured by Triton in 1997 approximately 1000m d/s from site location.
A82776-1	Map 8	460-496100-18600-29200	3.2	167 167 X-ing	9.643896.6053749 9.644119.6053839	S6	NA	9.00	2.18	2.7003	NFC	N	Confirmed non-fish bearing.
A82776-4	Map 8	77641	2	168	9.645193.6054490	S6	NA	23.00	1.08	0.9198	NS	N	Confirmed non-fish bearing. Drainage in the vicinity of the northern boundary of proposed cutblock is mismapped - drains as steep NCD into this stream.
A82775-1	Map 7	460-496100-69000	2	169	9.646270.6057273	S3	MG	5.25	4.07	6.6024	NFC (CT)	N	Assumed fish use. Stream with good R habitat during low to moderate flows, no spawning habitat noted, some pools suitable for OW. Stream fairly violent during freshets - many LWD piles, eroded banks and fairly large sediment wedges present. Easily accessible to fish from lower reaches.
A82775-1	Map 7	460-496100-59500	2	170	9.644863.6057742	S3	IM	4.00	2.97	2.8979	DV	N	Confirmed fish-bearing. Overall good perennial habitat for DV - fish common in the stream. Good S habitat - gravels abundant with good holding, OW - some of pools suitable.
A82775-1	Map 7	77511	1	171	9.644844.6057867	NCD	NA	*	*	*	NS	N	Not a FPC stream.
A82775-1	Map 7	77512	1	172	9.645101.6057588	NCD	NA	*	*	*	NS	N	Not a FPC stream. Unmapped on TRIM.
A82775-1	Map 7	77513	1	173	9.645942.6057598	S6	NA	12.25	0.77	0.2274	NS	N	Confirmed non-fish bearing. Unmapped on TRIM.
A82778-1	Map 6	77811	1	174 174 X-ing	9.636952.6064785 9.636871.6064782	S6/ NCD	NA	8.75	0.97	0.5487	NS	N	Confirmed non-fish bearing. Becomes NCD upstream of UTM 9.636857.6064796.

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Area or Crossing	Project Map	Stream ID	Reach #	Site #	Site UTM (Z.E.N.)	FPC	Habitat Value Rating	Grad (%)	Avg CW (m)	Q100 (m³/s)	Sampling Results	Follow-up Sampl.	Comments
A82784-1	Map 2	A82784-1	2	175A	9.653712.6104681	S2	IM	*	6.39	*	NS	N	Only channel measurements taken to determine riparian classification - RB documented upstream by Triton in 1996.
A82784-1	Map 2	78417	1	175	9.653275.6104398	NCD	NA	*	*	*	NS	N	Not a FPC stream.
A82784-1	Map 2	78416	1	176	9.653406.6104524	NCD	NA	*	*	*	NS	N	Not a FPC stream.
A82784-1	Map 2	78415	1	177	9.653449.6104611	NCD	NA	*	*	*	NS	N	Not a FPC stream.
A82784-1	Map 2	78414	1	178	9.653674.6104582	NCD	NA	*	*	*	NS	N	Not a FPC stream.
A82784-1	Map 2	78413	1	179	9.654094.6104789	NCD	NA	*	*	*	NS	N	Not a FPC stream.
A82784-1	Map 2	78412	1	180	9.654278.6105052	NA	NA	*	*	*	NS	N	No drainage.
A82784-1	Map 2	78411	1	181	9.654323.6105603	S4/ NCD	MG	0.75	0.87	0.2378	NFC (CT)	N	Assumed fish use. Stream with usable seasonal R habitat for CT, stream likely dry during drier seasons. No OW or S habitat. Easily accessible from parent stream. Becomes NCD @ UTM 9.654401.6105374.
A82784-1	Map 2	78418	2	182	9.655150.6104850	NCD	NA	*	*	*	NS	N	Not a FPC stream.
A82784-1	Map 2	480-531000-05800	2	183	9.654762.6103814	S3	IM	5.75	3.05	3.4245	NS (RB)	N	Assumed fish use. Stable stream with good R habitat and fair spawning habitat. No OW habitat noted. Stream was walked from Triton site - no obstruction to fish migration found. Stream not sampled d/t EF malfunction. Easy access to fish. Transition S3/W1 at UTM 9.654507.6103527.
A82783-1	Map 2	78312	1	184	9.650943.6105202	NCD	NA	*	*	*	NS	N	Not a FPC stream.
A82783-1	Map 2	78313	1	185	9.651016.6105676	NCD	NA	*	*	*	NS	N	Not a FPC stream. Unmapped drainage.
A82783-1	Map 2	78314	1	186	9.650939.6106238	NCD	NA	*	*	*	NS	N	Not a FPC stream.
A82783-1	Map 2	78311	3	187	9.651750.6105370	(S6)	UND	2.25	1.65	0.5985	NFC	Y	Stream with usable seasonal R habitat for CT/DV (RB), no OW or S habitat. Sampling inconclusive d/t the lateness of season. Access to fish may be impeded by CV, which seems too small to accommodate flow - pond on u/s side of crossing. Requires re-sampling in early summer to determine fish status.
A82785-1	Map 2	480-531000	1	188	9.656565.6104020	S2	CR	2.67	5.17	6.2301	NS (CO CT RB)	N	Confirmed fish-bearing. Overall good salmonid habitat - stream not sampled, only verified channel width and habitat availability. Stream contained good R,S and OW habitat; CO, CT and RB presence documented by Triton in 1997.
A82785-1	Map 2	78511	1	189	9.656673.6103899	S3	UND	1.75	2.33	1.0014	NS (CO CT RB)	N	Assumed fish use. Stream with good rearing habitat, no spawning or overwintering, easily accessible from parent stream - not sampled d/t cold water temperatures. Likely supports CO juveniles. Mismapped on TRIM - flows directly to the main stream.
A82787-1	Map 2	480-531000	4	190	9.656814.6101199	S3	UND	0.68	4.00	7.0535	NS (CO CT)	N	Assumed fish use. Stream with good rearing and overwintering habitat for CO. Despite of numerous BD stream maintains visible flow. BD's in intervals 40-60m, but easily passable d/t deep channel. Channel width visually assessed d/t flooded valley. Transitions S3/W1 at UTM 9.656597.6101646 and at UTM 9.656977.6100996; transition W1/S3 at UTM 9.656785.6101210.
A82787-1	Map 2	78711	1	191	9.656385.6102088	NCD	NA	*	*	*	NS	N	Not a FPC stream.

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Area or Crossing	Project Map	Stream ID	Reach #	Site #	Site UTM (Z.E.N.)	FPC	Habitat Value Rating	Grad (%)	Avg CW (m)	Q100 (m³/s)	Sampling Results	Follow-up Sampl.	Comments
A82787-1	Map 2	480-531000	1	192	9.656539.6102059	S3	UND	3.75	3.95	4.5576	NS (CO CT RB)	N	Assumed fish use. Stable creek with good rearing habitat, spawning fair - substrate semi angular and poor holding, too shallow for overwintering. Stream easily accessible to fish, CO and RB documented d/s by Triton in 1997. Not sampled d/t low water temperature.
A82787-1	Map 2	78712	2	193	9.656769.6102508	NCD	NA	*	*	*	NS	N	Not a FPC stream.
A82787-2	Map 2	78721	1	194	9.657167.6102314	NCD	NA	*	*	*	NS	N	Not a FPC stream. No drainage u/s from UTM 9.657362.6101952.
A82787-2	Map 2	78722	1	195	9.657417.6101929	NA	NA	*	*	*	NS	N	No drainage.
A82787-1	Map 2	78721	2	196	9.657479.6101710	NA	NA	*	*	*	NS	N	No drainage.
A82787-1	Map 2	78722	1	197	9.657571.6101755	NCD	NA	*	*	*	NS	N	Not a FPC stream. Mismapped on TRIM - it drains in different direction.
A82786-1	Map 2	78611	1	198	9.653483.6102190	NCD	NA	*	*	*	NS	N	Not a FPC stream. Mismapped on TRIM.
A82786-1	Map 2	480-531000-05800	4	199	9.653481.6102305	(S6)	UND	2.50	1.40	0.6092	NS	Y	Stream potentially has only seasonal R habitat available and no spawning or overwintering. Stream not sampled d/t low water temperature. RB passage through large wetland is questionable. Stream requires re-sampling in early summer to determine fish status. Stream mismapped on TRIM.
A82786-1	Map 2	78612	2	200	9.653166.6102359	NCD	NA	*	*	*	NS	N	Not a FPC stream.
A82786-1	Map 2	480-525800-61500	3	201	9.652927.6102531	S6	NA	2.75	1.43	0.4685	NS	N	Confirmed non-fish bearing.
A82786-1	Map 2	78613	2	202	9.652801.6102470	NCD	NA	*	*	*	NS	N	Not a FPC stream.
A82786-1	Map 2	78614	2	203	9.652708.6102499	NCD	NA	*	*	*	NS	N	Not a FPC stream.
A82786-1	Map 2	78615	1	204	9.652684.6102415	NCD	NA	*	*	*	NS	N	Not a FPC stream.
A82786-1	Map 2	78616	2	205	9.652570.6102504	NCD	NA	*	*	*	NS	N	Not a FPC stream.
A82786-2	Map 2	480-531000-29700	3	206	9.654957.6101569	NCD	NA	*	*	*	NS	N	Not a FPC stream.
A82786-2	Map 2	78621	1	207	9.655856.6101453	NCD	NA	*	*	*	NS	N	Not a FPC stream.
A82786-2	Map 2	480-531000-56500	2	208	9.655969.6101387	(S6)	UND	2.88	1.58	0.5807	NS	Y	~600m long stream between wetlands lacks spawning and overwintering habitat. Rearing habitat available but access questionable through downstream wetland and fish use is unlikely. Not sampled d/t low water temperature and stream needs to be re-visited during early summer to determine fish use. Stream becomes NCD @ UTM 9.655397.6101135 as surface flow dominates from this point and scoured channel is discontinuous. No channel observed in the wetland upstream.
A82788-1	Map 2	480-531000	4	209	9.657900.6099678	(S6)	UND	5.75	1.43	0.8607	NS	Y	Stream with poor salmonid habitat, fast flow and shallow, likely dry through summer: no spawning habitat - angular and compacted gravels, too shallow for overwintering, some potential seasonal rearing available. Stream not sampled d/t low water temperature and needs to be re-visited during early summer to determine fish use.

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Area or Crossing	Project Map	Stream ID	Reach #	Site #	Site UTM (Z.E.N.)	FPC	Habitat Value Rating	Grad (%)	Avg CW (m)	Q100 (m³/s)	Sampling Results	Follow-up Sampl.	Comments
A82788-1	Map 2	480-531000-88000	1	210	9.657782.6099929	(S6)	UND	12.00	0.93	0.6052	NS	Y	Stream with poor salmonid habitat. Small and shallow creek with poor instream cover, some underground sections. Stream not sampled d/t low water temperature and needs to be re-visited during early summer to determine fish use. Stream mismatched on TRIM.
A82788-1	Map 2	78811	1	211	9.657737.6099645	NA	NA	*	*	*	NS	N	No drainage.
A82788-1	Map 2	78812	1	212	9.657289.6100447	NCD	NA	*	*	*	NS	N	Not a FPC stream.
A82788-1	Map 2	78813	3	213	9.657479.6100251	(S6)	UND	5.67	1.83	2.0553	NS	Y	Poor fish habitat - stream violent at high flows and what is indicated by some braided sections. Only rearing habitat usable at low flows, but likely isolated due to the lack of channel and persistent dewatering observed downstream. No overwintering habitat - creek too shallow. No spawning - gravels highly movable at high and moderate flows. Stream sampled by Triton in 1997 with NFC and also documented lack of overwintering and spawning habitat at that time. Stream not sampled d/t low water temperature and needs to be re-visited during early summer to determine fish access and use.
A82781-1	Map 5	13400	4	214	9.622180.6060840	NA	NA	*	*	*	NS	N	No drainage. Numerous tiny wetlands (ranging from dozens to few hundred sq. m) observed within proposed cutblock - MFZ's marking unfeasible - machinery operators should be aware of these circumstances. Transitions S6/NCD at UTM 9.622588.6060706, W3/NA at UTM 9.622218.6060824, and NAW5 at UTM 9.621938.6060826.
N Tatalrose FSR 5.9 km	Map 20	5900	3	215	10.305023.5987220	NCD	NA	*	*	*	NS	N	Not a FPC stream. The course of drainage in R1 is mismatched on TRIM.
				215 X-ing	10.304729.5987390								
N Tatalrose FSR 5.9 km	Map 20	Tatalrose C. / 180-374000-95200-68400	4	216	10.305770.5987490	S3	UND	4	3.5	*	NS	N	Assumed fish use. A 4m high waterfall was identified at UTM=10.305566.9587370 which marks end of the sport fish use in the watershed. RB presence suspected up to the falls as there is sufficient habitat to support fish use year round and no permanent barriers exists between Francois L. and falls. Tatalrose C. should be treated as S3 at the crossing. Watershed upstream of waterfall is confirmed non-fish bearing through extensive stream sampling by FINS in 1998 and Tatalrose and Tatalaska lakes surveys in 1969 (FISS). Only non-FPC species are present u/s of falls.

5.2 Non-fish Bearing Reaches

Table 2: Summary of data of non-fish bearing drainages.

Area/Crossing	Project Map	Stream ID/WSC	Reach #	Site #	Date	FPC	Gradient (%)	Avg Channel Width (m)	Avg. Bankfull Depth (m)	Flow Stage	WaterTemp. (°C)	Cond. (µS/cm)	Turbidity	Method	Sampling Results	Effort (EF - sec/dist, MT traps/hours)	EF Specs (V/Hz/µs)	Comments
A81500	Map 25	62200	1.1	2	9-Jul-07	NCD	2.50	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat: drainage is not stream as per definition, sections of scoured channel bed are not longer than 60 m, fluvium occasional, mostly organics in bed material.
A81500	Map 25	62200	2	3 at X-ing	9-Jul-07	NCD	*	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat: drainage is not stream as per definition. Through the block drainage has discontinuous scoured channel bed and fluvium, channelized sections do not extend more than 40-50m in length. NFC by SKR in 2000.
A80840	Map 25	62261	4	4 at X-ing	9-Jul-07	S6	5.25	0.75	0.17	M	10	40	C	NA	NS	NA	NA	No fish habitat. No perennial flow, no suitable rearing, no overwintering, no potential spawning. Stream inaccessible to fish from Horseshoe L. through upper part of wetland; documented by SKR in 2000.
A81517	Map 3	480-568000	5	10	11-Jul-07	S5	2.38	3.92	0.43	M	11	35	C	EF	NFC	398/600	600/80/6	No fish habitat. Potential habitat for RB is inaccessible d/t the presence of 15m high and 40m long cascade barrier (UTM 9.664696.6101236) in R2.1 (Triton 2000). Fish absence in the watershed u/s of cascade confirmed through extensive sampling done by Triton in 2000 and FINS in 2006 and 2007 (9 sites u/s of barrier).
A81441	Map 9	McInnes C. 460-720300	2	12	12-Jul-07	S6	8.75	2.05	0.39	M	11	170	C	EF	NFC	282/150	400/80/4	No fish habitat: potential RB habitat inaccessible due to cascade barriers d/s at the end of reach 1.
A81441	Map 9	McInnes C. 460-720300	4	13	12-Jul-07	S6	4.50	1.48	0.39	M	10	70	C	EF	NFC	239/150	500/80/6	No fish habitat: potential RB habitat inaccessible due to cascade barriers d/s at the end of reach 1.
A81506	Map 18	18501	1	14 at X-ing	12-Jul-07	NCD	15.00	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat: drainage is not stream as per definition. No continuous scoured channel bed, banks or fluvium.

Table 2: Summary of data of non-fish bearing drainages.

Area/Crossing	Project Map	Stream ID/WSC	Reach #	Site #	Date	FPC	Gradient (%)	Avg Channel Width (m)	Avg. Bankfull Depth (m)	Flow Stage	WaterTemp. (°C)	Cond. (µS/cm)	Turbidity	Method	Sampling Results	Effort (EF - sec/dist, MT traps/hours)	EF Specs (V/Hz/µs)	Comments
A81506	Map 18	18502	1	15 at X-ing	12-Jul-07	NCD	7.00	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat: drainage is not stream as per definition, shallow and mucky trickle (0.2-0.5m wide) is continuous for 60m; drains small swamp u/s of x-ing.
A81184	Map 14	31501	2	17	13-Jul-07	S6	6.66	1.38	0.30	L	12	60	C	NA	NS	NA	NA	No fish habitat. Seasonal stream with no access to RB d/t the velocity barrier at mouth (UTM 10.307925.6031359).
A81181	Map 14	41006	1	18	13-Jul-07	S6	12.00	0.25	0.12	M	14	60	C	NA	NS	NA	NA	No fish habitat - stream is a tiny trickle, choked by algae, borderline stream/NCD.
A81181	Map 14	41006	2	19	13-Jul-07	NA	*	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat - drainage does not exist.
A81195-1	Map 16	460-924300-43400-34749-7794	2	21	22-Jul-07	S6	7.00	1.50	0.40	M	10	50	C	EF	NFC	356/200	600/80/6	No fish habitat. The stream was sampled u/s of the cascades barrier in a good RB habitat for 356 sec. No fish were captured. Stream was also sampled in two sites during 1999 Reconnaissance Inventory. At that time no fish was captured and it was documented that stream did not contain suitable overwintering habitat. No fish capture in 1999 and in this inventory, the presence of cascade barrier, and the lack of overwintering habitat confirms that the entire watershed upstream of cascades is non-fish bearing.
A81195-1	Map 16	30501	1	22 at X-ing	22-Jul-07	S6	5.50	1.77	0.32	M	10	50	C	NA	NS	NA	NA	No fish habitat - drains to the non-fish bearing section of 460-924300-43400-34749-7794.
A81195-1	Map 16	30501	2	23 at X-ing	22-Jul-07	S6	19.50	1.25	0.23	M	10	50	C	NA	NS	NA	NA	No fish habitat - drains to the non-fish bearing section of 460-924300-43400-34749-7794.
A81195-1	Map 16	30502	1	25	24-Jul-07	NCD	*	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat. Seepage with some short (<50m) and discontinuous sections of scoured channel. Not a stream as per definition. Drains to non-fish bearing section of 460-924300-43400-34749-7794.
A81195-4	Map 16	30504	2	26	24-Jul-07	NCD	*	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat. Seasonal seepage through approximately 200m long section near the NW corner of block. No fluvium observed, frequently puddles-up, lacks continuous channel. Becomes a stream at UTM 9.684469.6019767 and descends to Foxy C. over steep 25-50% slope.
A81192-1	Map 15	460-702000-77135-16110	1	29	24-Jul-07	NCD	*	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat. Swampy area with water seeping through, channelized for 20m near the confluence with 460-702000-77135.

Table 2: Summary of data of non-fish bearing drainages.

Area/Crossing	Project Map	Stream ID/WSC	Reach #	Site #	Date	FPC	Gradient (%)	Avg Channel Width (m)	Avg. Bankfull Depth (m)	Flow Stage	WaterTemp. (°C)	Cond. (µS/cm)	Turbidity	Method	Sampling Results	Effort (EF - sec/dist, MT traps/hours)	EF Specs (V/Hz/µs)	Comments
A82818-1	Map 11	460-968193	2	30	7-Sep-07	NCD	*	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat - inundated swampy area in the north-central portion of the proposed cutblock; no fluvium or scour, water trickles from everywhere - not a stream as per definition. R1 also was determined to be NCD by FINS in 2005.
A82817-4	Map 13	460-967671-63097	1	31	7-Sep-07	NCD	8.00	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat - seepage from wet depression, no continuity, no fluvium; drainage completely disperses 150m d/s from depression - not a stream as per definition. Drainage mismapped on TRIM.
A82817-4	Map 13	460-967671-68872	2	32	7-Sep-07	NCD	*	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat - seepage diverted by constructed road. Depression @ UTM 9.688222.6036772 with squishy ground for ~15m on d/s side and no signs of drainage beyond.
A82817-5	Map 13	50600	1	33	7-Sep-07	NCD	*	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat - seepage which drains to NFB stream; no fluvium, scour or banks - not a stream as per definition.
A82817-3	Map 13	460-967000-37326	1	34	7-Sep-07	NCD	*	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat - seepage altered by the constructed road. Seepage dissipates entirely ~ 30m u/s from FB stream - flows through small swale along southern boundary of proposed cutblock.
A82817-2	Map 13	50601	2	36	7-Sep-07	NCD/S6	4.00	0.97	0.21	L	12	40	C	NA	NS	NA	NA	No fish habitat - tiny, seasonal, shallow trickle which completely disperses at UTM 9.691453.6035762.
A82647	Map 4	40246	1	37	8-Sep-07	S6	5.17	1.25	0.25	M	8	20	C	EF	NFC	216/200	700/80/6	No fish habitat - usable rearing habitat is isolated by the 10m high waterfall present in parent stream in R1 and documented by SKR in 1999. (UTM 9.667772.6079500). Watershed confirmed to be non-fish bearing u/s of falls through extensive sampling done by SKR in 1999 (4 sites) and FINS (3 sites) this year.
A82647	Map 4	40240	7	38	8-Sep-07	S6	2.13	2.73	0.31	M	9	50	C	EF	LKC	384/200	600/80/6	No sport fish habitat. Stream populated by lake chub (non-sport fish) but is inaccessible to sport fish d/t the presence of 10m falls in R1 (SKR 1999).
A82647	Map 4	40244	2	39	8-Sep-07	NCD/S6	4.67	0.62	0.22	L	10	70	C	NA	NS	NA	NA	No fish habitat - tiny and isolated stream, seeps through ground before reaching parent stream. Inaccessible to LKC. Becomes NCD @ UTM 9.667599.6081921 d/s of site.
A82821-2	Map 12	460-849271-21131	2	40	9-Sep-07	S6/NCD	*	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat - seepage through swampy area, no scour, channel or fluvial deposits observed, just mucky trickle spreading up 2.5 m wide in places, overland flow or stagnant and disconnected pools. Becomes a stream @ UTM 9.678982.6036366 d/s of site.

Table 2: Summary of data of non-fish bearing drainages.

Area/Crossing	Project Map	Stream ID/WSC	Reach #	Site #	Date	FPC	Gradient (%)	Avg Channel Width (m)	Avg. Bankfull Depth (m)	Flow Stage	WaterTemp. (°C)	Cond. (µS/cm)	Turbidity	Method	Sampling Results	Effort (EF - sec/dist, MT traps/hours)	EF Specs (V/Hz/µs)	Comments
A82821-2	Map 12	460-849271-23894	1	41	9-Sep-07	NCD	*	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat - moist swale (~5m wide) vegetated by twinberries, no fluvium or scour - not a stream as per definition.
A82821-2	Map 12	460-849271-11896	1	42	9-Sep-07	NCD	*	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat - drainage is a mixture of short channelized sections, underground and overland flow. Scoured channel intermittent, fluvium discontinuous. Flows through small gully @ 5-7% gradient into NFB stream.
A82821-1	Map 12	49600	2	43	9-Sep-07	NCD	*	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No drainage present, however noted higher moisture level in the ground which apparently causes slope to start sloughing. Numerous cracks in the ground observed.
A81443	Map 9	48600	2	44	9-Sep-07	NCD	*	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat - seepage through swampy area with isolated mud puddles; no scoured channel or fluvium observed - not a stream as per definition.
A81443	Map 9	460-704700-19000	2	45A	9-Sep-07	S6	*	*	*	L	12	60	L	EF	NFC	884/1300	600/80/6	No fish habitat - stream extremely volatile and seasonal with extensive braiding and aggraded fluvial deposits. In upstream section stream v. shallow with highly movable substrate and frequent changes in channel location. Channel occasionally vegetated by grasses indicates seasonal flows. 1200m long section of severe dewatering marks u/s fish distribution limits @ UTM 9.659251.6039182. Potentially habitable within 300m near mouth in R1, where stream exhibits more permanent flow and is more stable.
A81443	Map 9	460-704700-19000	2	45 at X-ing	9-Sep-07	S6	5.00	1.88	0.32	L	12	60	L	EF	NFC	411/400	600/80/6	No fish habitat. Potentially usable RB habitat inaccessible d/t dewatering obstruction in the lower part of reach. Recent rains and overall wet summer did not induce RB to populate the stream from Barren C.
A76129	Map 19	3131	1	46	10-Sep-07	S6	18.25	0.70	0.20	M	5	40	C	NA	NS	NA	NA	No fish habitat - tiny and steep trickle, no instream cover, likely seasonal during drier seasons. Originates from small spring located 150m upstream.
A76129	Map 19	9500	1	47	10-Sep-07	NA	*	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat - drainage does not exist.
A76129	Map 19	3131	3	48	10-Sep-07	NA	*	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat - drainage does not exist.

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A76129	Map 19	180-374000-95200-87600-3020-0960-458	7	49	10-Sep-07	NA	*	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat - drainage does not exist.
A76129	Map 19	3129	2	50 at X-ing	10-Sep-07	S6	6.00	0.63	0.14	L	8	80	C	NA	NS	NA	NA	No fish habitat - tiny and shallow creek with no usable cover to support fish. Second sampling - originally sampled by Triton in 1999 with NFC.
A76129	Map 19	9501	1	51 at X-ing	10-Sep-07	S6	10.67	0.47	0.12	L	8	80	C	NA	NS	NA	NA	No fish habitat - tiny and shallow trickle, which disperses at site UTM. Too small to support any fish population.
A76129	Map 19	9502	1	52 at X-ing	10-Sep-07	NCD	*	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat - seepage watered for 60m, channel and fluvium discontinuous, dry gully at 50% gradient further upstream.
Carrier FSR 10.5km	Map 17	27500	1	53 at X-ing	10-Sep-07	S6	2.00	0.80	0.20	INT	10	80	C	NA	NS	NA	NA	No fish habitat - tiny and mucky creek, seasonal, full of small sticks, no spawning or overwintering habitat, not conducive to RB for seasonal use.
A80840	Map 25	86500	3.2	54	11-Sep-07	S6	4.00	1.72	0.37	L	8	20	C	EF	NFC	403/250	700/80/6	No fish habitat - overall good potential rearing and spawning habitat for RB present but stream is inaccessible from Horseshoe L. d/t lack of channel in R1.2 of parent stream (documented by SKR in 2000).
A80840	Map 25	62260	1.2	55 at X-ing	11-Sep-07	NCD	*	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat - nothing but seepage with signs of higher moisture through gentle swale. No fluvium or scour, no collection puddles - presence of Mnium moss indicates presence of seepage.
A80840	Map 25	62260	1.2	56 at X-ing	11-Sep-07	NCD	*	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat - seepage with sporadic scour and exposed substrate, no continuity, not a stream as per definition.
A82646	Map 25	62173	1	57	11-Sep-07	NCD	*	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat - barely a seepage; moist swale which joins wetland at site UTM. No fluvium, scour or continuity - not a stream.
A82646	Map 25	62180	2	58	11-Sep-07	NCD	*	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat - seepage with dry and isolated mud puddles; no continuity - scarce and short scoured sections, no fluvium - not a stream.
A82646	Map 25	62179	2	59	11-Sep-07	NCD	*	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat - seepage with some signs of melt water runoff, generally squishy ground with some isolated pockets of standing water. No fluvium or scour observed - not a stream.

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A82646	Map 25	62179	4	60	11-Sep-07	NCD	*	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat - seepage with water collected in small and shallow pond; signs of runoff into and from the pond. No scour or fluvium, just moist area vegetated by hardhack.
A82646	Map 25	62187	1	61	11-Sep-07	NCD	*	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat - drainage carries significant amount of water during spring runoff, however scoured channel bed and fluvial substrate is discontinuous within proposed cutblock. Isolated scoured areas still watered, but whole drainage dissipates 20m before reaching parent stream. Not a stream as per definition.
A82646	Map 25	62184	1	62	11-Sep-07	S6	4.83	1.13	0.23	INT	11	30	C	EF	NFC	178/200	700/80/6	No fish habitat - stream was not populated by RB during this year wet summer. Second sampling confirms fish absence in this stream.
A81501	Map 25	62189	1	64 at X-ing	11-Sep-07	NCD	*	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat - seepage through gully, vegetated by willows and alder. No continuous scoured channel, fluvium or banks.
A77759	Map 19	180-374000-95200-87702-7675	4	65	12-Sep-07	S6	7.67	0.93	0.17	L	6	200	C	NA	NS	NA	NA	No fish habitat - tiny and moderately steep stream with no perennial habitat. Inaccessible from Francois L. to any fish. Stream dissipates in lower section of R4.
A77759	Map 19	9501	1	66	12-Sep-07	NCD	*	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat - melt water runoff through gentle gully, no scour or fluvium, just seasonal collection of water within small gully depressions.
A77759	Map 19	180-374000-95200-87702-7675	6	67	12-Sep-07	NCD	*	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat - seepage with seasonal puddles, ground squishy, no scour or fluvium - not a stream.
A77759	Map 19	98502	3	68	12-Sep-07	NCD	1.00	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat - wetland corridor between two larger wetlands, mucky channel choked by instream vegetation, water barely flows.
A77759	Map 19	180-374000-95200-91200	3	69	12-Sep-07	S6	4.25	1.25	0.20	M	10	90	C	EF	NFC	892/800	500/80/6	No fish habitat - seasonal stream; isolated by 4m high and 15m long cascade barrier @ UTM 9.673461.5986255 which marks end of fish use.
A82648	Map 19	180-374000-95200-94700	3	70	12-Sep-07	S6	5.00	1.00	0.17	L	11	150	C	NA	NS	NA	NA	No fish habitat - some usable seasonal habitat is inaccessible d/t lack of channel through wetland in R2.
A82648	Map 19	98508	1	71	12-Sep-07	NCD	*	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat - melt water runoff occasionally channelized with visible scour and fluvium, however discontinuous - mostly overland flow with dry muddy puddles.

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A82648	Map 19	98507	1	72	12-Sep-07	NA	*	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat - drainage does not exist.
A82648	Map 19	98505	1	73	13-Sep-07	NCD	*	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat - drainage seeps through gully than swale. Some discontinuous sections of scoured channel with fluvium within 35m length near mouth. Not a stream as per definition.
A82648	Map 19	98506	1	74	13-Sep-07	NCD	*	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat - seepage through swale then through gentle gully; no scour, fluvium or channel, just squishy ground - not a stream.
Uncha Mtn FSR 9.65 km	Map 21	93500	3	76	13-Sep-07	S6	3.25	2.32	0.43	L	11	60	C	EF	NFC	947/800	600/80/6	No fish habitat - potential excellent perennial habitat for RB is isolated by 5m waterfall in parent stream in R2.
Uncha Mtn FSR 9.65 km	Map 21	180-374000-95200-41400-3080	3	78	13-Sep-07	S6	8.00	2.67	0.63	M	9	70	C	EF	NFC	733/400	500/80/6	No fish habitat - potential excellent perennial habitat for RB is isolated by 5m waterfall at the start of the reach.
A82819-1	Map 10	460-829700-20199	3	79	15-Sep-07	NCD	*	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat - drainage likely altered during Hwy 16 construction by channelizing natural seepage. Signs of excavator road and hips of dirt still visible. Drainage dissipates at the edge of forest and private land.
A82820-1	Map 10	460-848186	3	80	15-Sep-07	NCD	*	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat - seepage connecting small wetlands; no scour or fluvium - just surface puddles or surface flow over forest floor.
A82820-1	Map 10	460-844254	3	81	15-Sep-07	NCD	*	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat - signs of melt water runoff with occasionally scoured duff layer, no fluvium or scoured channel bed - not a stream.
A82820-1	Map 10	460-840719	3	82	15-Sep-07	NCD	*	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat - seepage through gentle swale which flows into natural depression. Due to the wet season the depression had been flooded and pond was created (~100x60m) without any outflow.
A82820-1	Map 10	460-836919	2	83	15-Sep-07	NA	*	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat - drainage does not exist.
A82823-1	Map 16	30500	1	84	15-Sep-07	NCD	*	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat - seepage descending over the 15% slope with frequently but discontinuous scoured channel. Becomes a stream on the downstream side of the road.
A82823-1	Map 16	30503	1	85	15-Sep-07	NCD	*	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat - seepage descending over 12-17% slope with discontinuous scoured channel bed and fluvium. Not a stream as per definition.

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A82823-3	Map 16	460-924300-31500-41228	2	86	15-Sep-07	S6	5.33	0.95	0.18	L	6	60	C	EF	NFC	72/100	600/80/6	No fish habitat - tiny creek with no perennial habitat: stream descends to Foxy C. through 50% slope in R1 - inaccessible to fish.
A82823-3	Map 16	30506	1	86A	30-Sep-07	S6	5	1	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat - flows into NFB stream.
A82823-3	Map 16	30502	1	87	15-Sep-07	NCD	*	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat - seepage through alder patch near mouth and through ~40m wide valley further upstream. No scour or fluvium, only isolated mud puddles - empties into NFB stream.
A82817-1	Map 13	50600	1	89	16-Sep-07	NCD	*	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat - seepage with no distinct channel, scour or fluvium. Not a stream.
A82778-1	Map 6	Vanderven C. 460-487900-37600	6	90	18-Sep-07	NCD / W5	*	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat - 20-30m wide swamp corridor with muddy puddles between hummocks; area vegetated by black spruce, willows and sphagnum. Water filmy, smelly and stagnant - oxygen depletion - orange algae in puddles.
A82778-1	Map 6	Vanderven C. 460-487900-37600	5	91	18-Sep-07	S6/W5	0.88	2.27	0.27	M	9	90	C	EF	NFC	594/800	500/80/6	No salmonid habitat upstream of R4 - stream bed composed of organic fines and frequently choked by dense mats of instream vegetation; flow barely discernible. Suspected severe oxygen depletion during summer, fall and winter as well high water temperatures during hot summer days.
A82496-5	Map 24	82502	2	92	25-Sep-07	NCD	*	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat - swampy valley with mucky puddles, no channel, scour or fluvium - not a stream.
A82496-5	Map 24	82501	1	93	25-Sep-07	S6	5.00	0.90	0.25	M	7	30	C	NA	NS	NA	NA	No fish habitat - borderline seepage/stream due to some 5-7m long sections of overland flow, but generally channel scoured throughout. Seasonal stream, which disperses in wetland d/s - inaccessible to RB. Parent stream documented as NFB by RJA and BH in 1998/99.
A82496-5	Map 24	82500	2	94	25-Sep-07	NCD	*	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat - seepage through ~20-30m wide and narrowing, gully bottom; vegetated by alder, lady fern and twinberry; scour isolated and occasional, mostly isolated mud puddles.
A82496-5	Map 24	82503	1	95	25-Sep-07	NA	*	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat - drainage does not exist.
A82496-4	Map 24	180-374000-95200-41400-5280-4170-556	3	96	25-Sep-07	NCD	*	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat - wetland corridor through 10-20m swale, mucky puddles filled with orange algae; no fluvium, scour or banks - not a stream.

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A82496-3	Map 24	82504	2	97	25-Sep-07	S6	3.25	0.67	0.28	M	8	10	C	EF	NFC	97/200	800/80/6	No fish habitat - tiny outlet from Dayeezcha L. channelized for 300m then dissipate in wetland d/s; drains to NFB stream documented by FINS in 1997. No potential spawning or overwintering habitat present; stream likely dry during dry years.
A82496-1	Map 24	180-374000-95200-41400-5280-4170-520	4	98	25-Sep-07	NCD / W1	*	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat - swamp/bog with no channel.
A82490-1	Map 24	180-374000-95200-41400-4320-4500-553	3	99	25-Sep-07	NCD	*	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat - surface flow through gentle swale, no scour, water spreads over 3-5m width, all filled with orange algae - not a stream.
A82490-1	Map 24	82505	1	100	25-Sep-07	NA	*	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat - drainage does not exist.
A82490-2	Map 24	82509	1	101	25-Sep-07	NCD	*	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat - drains through ~15m wide gully, no scoured channel, no fluvium, many semi-isolated puddles, but mostly surface flow over wetlandish area - seepage.
A82490-2	Map 24	82507	1	102	25-Sep-07	NCD	*	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat - seepage with surface flow, no scour noted on d/s side of the existing road; some short (~40-60m) channelized sections u/s of road, but still not a stream. No fluvial substrate observed, spreads all over the forest floor.
A82490-2	Map 24	82506	2	103	25-Sep-07	NCD	*	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat - signs of seepage with just wetter area than surrounding forest; no scour, fluvium or channel - not a stream.
A82490-1	Map 24	82508	1	104	25-Sep-07	NA	*	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat - drainage does not exist.
A82490-4	Map 24	82510	2	105	25-Sep-07	NA	*	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat - drainage does not exist.
A82490-3	Map 24	82511	1	106	25-Sep-07	NA	*	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat - drainage does not exist.
A82490-3	Map 24	180-374000-95200-41400-4320-4171	2	107	25-Sep-07	NCD	*	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat - seepage with some big and deep puddles (5x2m), but scour occasional, channel bed does not exceed 30m in length.
A81175-1	Map 24	92500	2	108	26-Sep-07	NA	*	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat - drainage does not exist.

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A81175-2	Map 24	180-374000-95200-41400-5280-2580	2	109	26-Sep-07	NCD	*	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat - swampy valley, ~40m wide, with isolated muddy puddles among hummocks, water smelly, filmy, no scour or channelized sections.
A82495-4	Map 22	180-374000-95200-41400-5280-6998	2	110	26-Sep-07	S6	3.75	1.40	0.23	INT	7	25	L	NA	NS	NA	NA	No fish habitat - seasonal stream with no spawning or overwintering habitat, documented NFB in 1997 and 1998 by FINS.
A82495-1	Map 22	180-374000-95200-41400-5280-6998	3	110A	29-Sep-07	NCD	*	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat - seepage through gully. No continuous scoured channel, fluvium or banks.
A82495-1	Map 22	180-374000-95200-41400-5280-6998-6734	1	110B	29-Sep-07	NCD	*	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat - seepage through gully, vegetated by red osier and alder. No continuous scoured channel, fluvium or banks.
A82495-2	Map 22	92501	1	111	26-Sep-07	NCD	*	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat - gully with signs of melt water runoff, no scour, no fluvium or banks, just scraped duff by running water for very short time.
A82495-3	Map 22	180-374000-95200-41400-5280-2540-560	1	112	26-Sep-07	NCD	*	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat - seepage through swampy area with isolated puddles; no scour, fluvium or banks - not a stream.
A82495-3	Map 22	91500	1	113	26-Sep-07	NCD	*	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat - seepage to the nearby small wetland, no scour, fluvium or banks - not a stream.
A82495-3	Map 22	92502	1	114	26-Sep-07	NCD / W3	*	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat - water seeps from one wetland to another, no fluvium, scour or channel between wetlands, just squishy ground.
A82493-3	Map 22	180-374000-95200-41400-5280-2540-652	1	115	26-Sep-07	S6	3.00	0.85	0.19	L	9	80	C	NA	NS	NA	NA	No fish habitat - tiny and mucky creek with no perennial habitat; no spawning or overwintering, rearing usable but no fish in parent stream (Confirmed by RJA in 1998, BH in 1999 and FINS in 2000).
A82493-3	Map 22	180-374000-95200-41400-5280-2540-652-180	1	116	26-Sep-07	S6	2.25	0.97	0.19	L	9	70	C	NA	NS	NA	NA	No fish habitat - small stream which offers only seasonal rearing habitat. No spawning or overwintering, drains to NFB stream documented by RJA in 1998, BH in 1999 and FINS in 2000.
A82493-3	Map 22	92503	1	117	26-Sep-07	NCD	*	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat - seepage, no defined channel, scour or fluvium.

Table 2: Summary of data of non-fish bearing drainages.

Area/Crossing	Project Map	Stream ID/WSC	Reach #	Site #	Date	FPC	Gradient (%)	Avg Channel Width (m)	Avg. Bankfull Depth (m)	Flow Stage	WaterTemp. (°C)	Cond. (µS/cm)	Turbidity	Method	Sampling Results	Effort (EF - sec/dist, MT traps/hours)	EF Specs (V/Hz/µs)	Comments
A82497-2	Map 22	180-374000-95200-41400-7730	5	118	27-Sep-07	S6	2.75	0.97	0.18	L	7	55	L	NA	NS	NA	NA	No fish habitat - small stream with usable rearing habitat; no spawning or overwintering; Stream determined to be NFB in 1997 by FINS as it drains to NFB section of Uncha Creek.
A82497-1	Map 22	180-374000-95200-41400-5280-2540-810	2	119	27-Sep-07	NA	*	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat - drainage does not exist.
A82497-2	Map 22	92505	1	120	27-Sep-07	NCD	*	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat - overflow from wetland during spring runoff.
A82497-2	Map 22	92504	1	121	27-Sep-07	NCD	*	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat. Overland flow with puddling up, some 10-50m long channelized sections with fluvial deposits. Drains into NFB stream.
A82497-2	Map 22	180-374000-95200-41400-7730	6	122	27-Sep-07	NCD	*	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat - surface flow from wetland through shrubby corridor (~20m wide) - no scour, fluvium or channel.
A82497-2	Map 22	92505	2	123	27-Sep-07	NCD	*	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat - wet area with no scoured channel or fluvium - not a stream.
A82493-1	Map 22	180-374000-95200-41400-5280-4529-785	1	124	27-Sep-07	NA	*	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat - drainage does not exist.
A82493-1	Map 22	180-374000-95200-41400-5280-3152	3	125	27-Sep-07	NCD	*	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat - seepage through valley, no scour, fluvium or banks, just mucky puddles.
A82493-2	Map 22	180-374000-95200-41400-5280-2540-615	1	126	27-Sep-07	NCD	*	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat - seepage through swale, squishy ground, no scour, fluvium or banks; duff layer barely moved by seasonally flowing water.
A82498-2	Map 22	91502	2	127	28-Sep-07	NCD	*	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat - seepage through gully which feeds natural pond in a terrain depression. Outflow seasonal with surface flow only. No scour, fluvium or channel - not a stream.
A82498-2	Map 22	91501	1	128	28-Sep-07	NCD	*	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat - drainage flows through wetland corridor with not continuously defined channel; sections of channel and fluvium sporadic, water mostly spreads over with many interconnected puddles. Not a stream as per definition - all area severely trampled by cattle.

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Area/Crossing	Project Map	Stream ID/WSC	Reach #	Site #	Date	FPC	Gradient (%)	Avg Channel Width (m)	Avg. Bankfull Depth (m)	Flow Stage	WaterTemp. (°C)	Cond. (µS/cm)	Turbidity	Method	Sampling Results	Effort (EF - sec/dist, MT traps/hours)	EF Specs (V/Hz/µs)	Comments
A82498-2	Map 22	91500	2	129	28-Sep-07	NCD	*	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat - seepage with occasional puddles; no scour, fluvium or channel - not a stream.
A82498-1	Map 22	91500	1	130	28-Sep-07	NCD	*	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat - seepage with isolated puddles; no scour, fluvium or channel; drainage percolates through alluvial terrace before reaching Hawley C.
A82498-1	Map 22	Hawley C. 180-374000-95200-41400-5280-5480	4	131	28-Sep-07	S6	1.25	1.37	0.24	L	6	50	C	NA	NS	NA	NA	No fish habitat - stream with usable rearing habitat and some potential spawning however unutilized by any fish. Documented as NFB in the past by BH in 1999 and FINS in 2000 (6 sites). Stream banks severely damaged by cattle.
A82492-3	Map 23	81500	1	133	28-Sep-07	NCD / W1	*	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat - twinberry carr with no signs of flowing water.
A82492-3	Map 23	180-374000-95200-41400-5280-7330-315	1	134	28-Sep-07	NCD	*	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat - seepage through gully; no scoured channel bed, no fluvium - not a stream.
A82492-2	Map 23	180-374000-95200-41400-5280-7330-364	4	135	28-Sep-07	NCD	*	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat - seepage/surface flow through deep gully, no scour, fluvium or channel - not a stream.
A82492-1	Map 23	81501	1	136	28-Sep-07	NCD	*	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat - seepage through swampy valley, surface flow and puddles; no scour, fluvium or channel - not a stream.
A82494-3	Map 23	81502	3	137	29-Sep-07	NCD/W1	*	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat - seepage joining wetland just d/s of site UTM. Wet shrubby corridor with no scoured channel, fluvium or banks - not a stream.
A82494-2	Map 23	81503	2	138	29-Sep-07	NCD	*	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat - seepage through forest; no scour, fluvium or banks, just isolated collection puddles and squishy ground - not a stream.
A82494-2	Map 23	180-374000-95200-41400-5280-6540-650	3	139	29-Sep-07	NCD	*	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat - drainage is composed of channelized sections, overland flow with puddles and subsurface seepage through shrubby corridor. Scoured channel bed and fluvial deposits discontinuous and not exceeding 40m in length - not a stream.
A82494-2	Map 23	81504	1	140	29-Sep-07	NCD	*	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat - drainage does not exist.
A82494-1	Map 23	180-374000-95200-41400-5280-6540-450	1	141	29-Sep-07	NCD	*	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat - surface flow/ seepage through gully; no scour, fluvium or channel - not a stream.

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Area/Crossing	Project Map	Stream ID/WSC	Reach #	Site #	Date	FPC	Gradient (%)	Avg Channel Width (m)	Avg. Bankfull Depth (m)	Flow Stage	WaterTemp. (°C)	Cond. (µS/cm)	Turbidity	Method	Sampling Results	Effort (EF - sec/dist, MT traps/hours)	EF Specs (V/Hz/µs)	Comments
A82508-1	Map 23	81505	1	142	29-Sep-07	NCD	*	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat - seepage through gully, no scour, fluvium or channel, just narrow puddles between spruces through moss - not a stream.
A82822-1	Map 15	460-702000-79790-40738	1	144	30-Sep-07	NCD	*	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat - seepage through gully through devil's club patch - scour and channel intermittent and short - not a stream.
A82822-1	Map 15	460-702000-79790	2.2	145	30-Sep-07	S6	10.50	1.67	0.37	L	5	50	C	EF	NFC	297/150	600/80/6	No fish habitat - potentially usable rearing habitat - but stream inaccessible to fish d/t 10m falls. No perennial habitat to support hypothetical and isolated fish population.
A82822-1	Map 15	39500	1	146	30-Sep-07	S6	15.00	1.22	0.28	L	5	40	C	NA	NS	NA	NA	No fish habitat - steep, small and fast, violent brook with no suitable habitat at any time of year - flows to NFB parent stream.
A82822-1	Map 15	460-702000-82842	2	147	30-Sep-07	NA	*	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat - drainage does not exist.
A82774-1	Map 1	56003	1	148	3-Oct-07	NCD	*	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat - drainage with discontinuous scour, fluvium and channel; spreads frequently over forest floor or seeps through the ground - not a stream.
A82774-1	Map 1	56002	1	149	3-Oct-07	S6	5.25	2.00	0.20	M	5	80	C	EF	NFC	69/250	500/80/6	No fish habitat - stream does not contain perennial habitat, has been confirmed to be NFB upstream of 5m falls documented by Triton in 1997.
A82774-1	Map 1	56004	1	150	3-Oct-07	S6/ NCD	4.00	0.93	0.27	M	5	30	C	NA	NS	NA	NA	No fish habitat - tiny creek with usable rearing habitat but isolated from FB waters by falls in the parent stream.
A82774-1	Map 1	56005	1	151	3-Oct-07	S6	4.33	0.77	0.21	L	5	40	L	NA	NS	NA	NA	No fish habitat - small trickle with usable rearing habitat, but stream drains into NFB parent stream.
A82774-1	Map 1	56006	1	152	3-Oct-07	S6	4.33	1.37	0.30	L	6	50	C	NA	NS	NA	NA	No fish habitat - stream with usable rearing habitat, but drains into NFB parent stream.
A82774-1	Map 1	56001	3	153	3-Oct-07	S6	3.33	2.27	0.31	L	5	70	L	EF	NFC	695/500	600/80/6	No fish habitat - potential habitat isolated by 5m falls in R1 and documented by Triton in 1997. Confirmed fish absence in the watershed.
A82777-1	Map 6	77711	4	154	4-Oct-07	S6	5.00	1.68	0.31	M	3	60	C	EF	NFC	612/700	600/80/6	No fish habitat - potential good perennial habitat for salmonids deemed to be inaccessible to fish through wetland, main channel splits in many mucky and discontinuous channel-ponds, bed covered by orange algae (suspect that algae excrete some toxins or absorb too much oxygen).

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A82777-5	Map 6	77751	1	155	4-Oct-07	NCD	*	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat - seepage through 20m wide willow corridor, some hummocks, no continuous channel; deep and isolated muddy puddles, no fluvial substrate - not a stream.
A82777-5	Map 6	77752	2	156	4-Oct-07	NCD	*	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat - 10m wide squishy swale, some "mossy" puddles, no fluvium, banks or scour - not a stream.
A82777-2	Map 6	77721	1	157	4-Oct-07	NCD	*	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat - seepage through -15m willow corridor, some isolated puddles, squishy moss; no fluvium, banks or continuous scour - not a stream.
Deep C x-ing 1.7km	Map 6	76001	2	158	4-Oct-07	S6	12.67	1.35	0.24	M	4	50	M	EF	NFC	129/150	600/80/6	No fish habitat - small and inaccessible creek from Canyon C. Lacks perennial habitat and has only rearing habitat potential. Stream completely dewatered for 125m u/s from disappearing point despite moderate flow in reach 2. Stream originally sampled by Triton in 1997.
A82779-1	Map 6	77911	2	161	5-Oct-07	NA	*	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat - drainage does not exist.
A82779-2	Map 6	77921	3	162	5-Oct-07	S6	8.33	1.37	0.17	INT	4	60	C	NA	NS	NA	NA	No fish habitat - shallow and seasonal creek, seeps through ground for 30m near crossing. Inaccessible to fish, only poor seasonal rearing habitat available. Drains to NFB section of Vanderven C. Reach 1 sampled by Triton in 1997.
A82779-2	Map 6	77922	3	163	5-Oct-07	NA	*	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat - drainage does not exist.
A82778-1	Map 6	460-325400-55900	3	164	5-Oct-07	S6	9.33	0.72	0.17	L	5	110	C	EF	NFC	112/200	400/80/6	No fish habitat - tiny and isolated creek with no S or OW habitat; frequent subterranean sections; completely dissipate in wetland d/s. No channel observed in R2.
A82776-2	Map 8	77621	1	165	6-Oct-07	NA	*	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat - drainage does not exist.
A82776-1	Map 8	460-496100-18600-29200	3.2	167	6-Oct-07	S6	9.00	2.18	0.37	L	5	80	C	EF	NFC	608/430	400/90/6	No fish habitat - stream isolated u/s of falls barrier. No isolated fish population present despite presence of suitable for salmonids perennial habitat. 4m waterfall @ UTM 9.643818.6053753 mark end of fish use in the watershed.
A82776-4	Map 8	77641	2	168	6-Oct-07	S6	23.00	1.08	0.20	L	4	NA	C	NA	NS	NA	NA	No fish habitat - steep and small creek, too steep to support fish use. Drainage in the vicinity of the northern boundary of proposed cutblock is mismapped - drains as steep NCD into this stream.

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A82775-1	Map 7	77511	1	171	7-Oct-07	NCD	*	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat - discontinuous drainage draining alder patch and dispersing in wetland. Becomes somewhat more channelized near mouth, as it drains wetland through several discontinuous trickles over 7-10% slope.
A82775-1	Map 7	77512	1	172	7-Oct-07	NCD	*	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat - drainage is a combination of seepage/overland flow through swale. Becomes channelized for 70 m as it descends over 30% slope towards parent stream, then dissipate in the valley floor.
A82775-1	Map 7	77513	1	173	7-Oct-07	S6	12.25	0.77	0.14	M	4	70	C	NA	NS	NA	NA	No fish habitat - tiny and isolated trickle, likely seasonal, completely disperses within fen (UTM 9.645942.6057598) area 100m away from parent stream - inaccessible to fish. Unmapped drainage.
A82778-1	Map 6	77811	1	174	7-Oct-07	S6/ NCD	8.75	0.97	0.19	L	4	90	C	NA	NS	NA	NA	No fish habitat - small and moderately steep stream with incised channel; no S or OW habitat, some potential R habitat but stream overall lacks good instream cover and drains into NFB parent stream.
A82784-1	Map 2	78417	1	175	8-Oct-07	NCD	*	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat - wetland with surface flow through; 40m long channel between wetlands, otherwise no fluvium, banks or scoured channel bed - not a stream.
A82784-1	Map 2	78416	1	176	8-Oct-07	NCD	*	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat - seepage through alder corridor; descend over 18% slope in first 10m into the parent stream; lacks scoured channel bed, fluvium or banks - not a stream.
A82784-1	Map 2	78415	1	177	8-Oct-07	NCD	*	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat - seepage through swale vegetated by pines and alder; signs of surface flow, no scoured channel, fluvium or banks - not a stream.
A82784-1	Map 2	78414	1	178	8-Oct-07	NCD	*	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat - seepage through shrubby corridor with some isolated scoured sections in first 50m where descends to parent stream over 10% slope - no continuity of fluvial deposits, scoured bed or channel - not a stream.
A82784-1	Map 2	78413	1	179	8-Oct-07	NCD	*	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat - seepage through gully @ 10-13%, channelized in lower section for 60m, than mixture of overland flow and scoured sections; entirely dissipate 10m away from parent stream; lacks continuous scoured channel bed, fluvium and banks - not a stream.
A82784-1	Map 2	78412	1	180	8-Oct-07	NA	*	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat - drainage does not exist.

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A82784-1	Map 2	78418	2	182	8-Oct-07	NCD	*	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat - shrubby bench - water seasonally puddles up, no channel, scour or fluvium - not a stream.
A82783-1	Map 2	78312	1	184	9-Oct-07	NCD	*	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat - shrubby gully with standing water; no scour, fluvium or banks - not a stream.
A82783-1	Map 2	78313	1	185	9-Oct-07	NCD	*	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat - 15-20m wide and deep swale with puddles of standing water, no connectivity, scour, fluvium or channel - not a stream. Seepage disturbed by past rd construction - water collects on the east side of right of way.
A82783-1	Map 2	78314	1	186	9-Oct-07	NCD	*	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat - seepage/overland flow through ~20-25m wide gully bottom, vegetated mainly by alder, some willows and fir with spruce; no scoured channel, fluvium or banks - just isolated puddles with standing water - not a stream.
A82787-1	Map 2	78711	1	191	10-Oct-07	NCD	*	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat - seepage through small gully, no fluvium, scoured channel bed or banks - not a stream.
A82787-1	Map 2	78712	2	193	10-Oct-07	NCD	*	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat - drainage through shallow gully with fragmented scoured channel bed, banks and fluvial deposits. May become stream - 100m further downstream from site location as channel becomes more pronounced, but no channel was found by Triton in 1997 - 400m d/s from present site.
A82787-2	Map 2	78721	1	194	10-Oct-07	NCD	*	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat - swampy area with isolated puddles; no scoured channel bed, fluvial deposits or banks - not a stream. No drainage u/s from UTM 9.657362.6101952.
A82787-2	Map 2	78722	1	195	10-Oct-07	NA	*	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat - drainage does not exist - there is only ~30m long wetland intrusion from TRIM mapped mouth of stream.
A82787-1	Map 2	78721	2	196	10-Oct-07	NA	*	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat - drainage does not exist.
A82787-1	Map 2	78722	1	197	10-Oct-07	NA	*	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat - small gully with isolated puddles; no scoured channel bed, fluvium or banks - not a stream.
A82786-1	Map 2	78611	1	198	11-Oct-07	NCD	*	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat - seepage through swampy area - no fluvium, scour or banks - not a stream.
A82786-1	Map 2	78612	2	200	11-Oct-07	NCD	*	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat - seepage/surface flow with some isolated scoured pools, no continuity, no channel or banks - not a stream.

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A82786-1	Map 2	480-525800-61500	3	201	11-Oct-07	S6	2.75	1.43	0.35	M	2	NA	C	NA	NS	NA	NA	No fish habitat - stream disperses in wetland in R1 (Triton 1997). No perennial habitat observed, no spawning or overwintering, stream inaccessible to fish from FB waters.
A82786-1	Map 2	78613	2	202	11-Oct-07	NCD	*	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat - shrubby swale with seepage/surface flow; no scour, channel or fluvium present - not a stream.
A82786-1	Map 2	78614	2	203	11-Oct-07	NCD	*	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat - ~10m wide swale with alder, mainly seepage with isolated small puddles - no scoured channel bed, fluvium or banks - not a stream.
A82786-1	Map 2	78615	1	204	11-Oct-07	NCD	*	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat - 10-15m wide swale with seepage/surface flow, no scoured channel bed, fluvium or banks - not a stream.
A82786-1	Map 2	78616	2	205	12-Oct-07	NCD	*	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat - seepage with some surface flow through 15-25m wide alder corridor - no scoured channel bed, fluvium or banks - not a stream.
A82786-2	Map 2	480-531000-29700	3	206	12-Oct-07	NCD	*	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat - seepage through ~20m wide alder corridor, no scour, channel or fluvium - not a stream.
A82786-2	Map 2	78621	1	207	12-Oct-07	NCD	*	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat - seepage/surface flow through 20-30m alder corridor, joins large wetland d/s; fragmented and short channelized sections (2-5m long) with discontinuous fluvial deposits - not a stream.
A82788-1	Map 2	78811	1	211	12-Oct-07	NA	*	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat - drainage does not exist.
A82788-1	Map 2	78812	1	212	13-Oct-07	NCD	*	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat - seepage/surface flow through 20-25m wide alder/devil's club patch - no scour, fluvium or banks noted - not a stream.
A82781-1	Map 5	13400	4	214	18-Nov-07	NA	*	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat - drainage does not exist. In Reach 2 in upper section there is a swampy area with no outlet noticed, however signs of overflow during spring runoff present - therefore NCD/W3. Reach 5 is a completely isolated and narrow swampy area.
N Tatalrose FSR 5.9 km	Map 20	5900	3	215	9-Jul-07	NCD	*	*	*	NA	NA	NA	NA	NA	NS	NA	NA	No fish habitat. The drainage is composed of three small wetlands without scoured channel or fluvial deposits between. Swampy swale in R1 has no continuously scoured channel and disappears within lake terrace approximately 100m from Tatalrose C. (UTM=10.305023.9587220).

5.3 Additional Sampling

Table 3: Streams requiring additional sampling.

Area	Map	Stream ID/WSC	Present Site #	Sampling Location	Timing	Expected species	Method	Objective
A82783-1	Map 2	78311	187	Reach 1, 2, 3	June	CO, CT, DV, RB	EF/MT	To determine fish access and use. Numerous wetlands in R1, R2 and R3 may impede fish access and reduce habitat quality.
A82786-1	Map 2	480-531000-05800	199	Reach 3, 4	June	RB	EF	To determine fish access and use. Large wetland in R3 may impede fish access and reduce habitat quality.
A82786-2	Map 2	480-531000-56500	208	Reach 1.1, 1.2	June	CO, RB	EF/MT	To determine fish access and use. Large wetland in R1.1 may impede fish access and reduce habitat quality.
A82788-1	Map 2	480-531000	209	Reach 6, 7	June	CO, RB	EF	To determine fish access and use. Large wetland in R5 and R6 may impede fish access and reduce habitat quality.
A82788-1	Map 2	480-531000-88000	210	Parent stream	June	CO, RB	EF	To determine fish access and use in the parent stream WSC 480-531000. Large wetland in R5 and R6 may impede fish access and reduce habitat quality.
A82788-1	Map 2	78813	213	Reach 2	June	RB	EF	To determine fish access and use. Large wetland in R1 and R2 may impede fish access and reduce habitat quality.

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7. List of Abbreviations

Avg	Average	LSU	Longnose sucker (<i>Catostomus catostomus</i>)
BCTS	British Columbia Timber Sales	m	Meter
BH	Beacon Hill Consultants Ltd.	M	Moderate flow or moderate turbid
C	Clear (not turbid)	mm	Millimeter
C.	Creek	MG	Marginal (habitat value rating)
CH	Chinook salmon (<i>O. tshawytscha</i>)	MT	Minnow trap
Cm	Centimeter	N	No
CO	Coho salmon (<i>O. kisutch</i>)	NA	Not applicable
Confl.	Confluence	NCD	Not classified drainage
CR	Critical (habitat value rating)	ND	No drainage present
CSU	Coarsescale sucker (<i>Catostomus macrocheilus</i>)	NFC	No fish captured
CT	Cutthroat trout (<i>Oncorhynchus clarki</i>)	NS	Not sampled
CW	Channel width	NTS	National Topographic Survey
DFO	Department of Fisheries and Oceans	NVC	No visible channel
d/s	Downstream	PCC	Peamouth chub (<i>Mylocheilus caurinus</i>)
DV	Dolly Varden char (<i>Salvelinus malma</i>)	R.	River
Ecofor	Ecofor Consulting Ltd.	Rd	Road
EF	Electrofishing	RIC	Resource Information Committee
EFU	End of Fish Use	RJA	RJA Forestry Ltd.
FB	Fish-bearing	RSC	Redside shiner (<i>Richardsonius balteatus</i>)
FINS	FINS Consulting Ltd.	SKR	SKR Consultants Ltd.
FISS	Fisheries Information Summary System	sec	Seconds
FPC	Forest Practices Code	S1 - S6	Riparian classes (streams)
FSID	Fish-stream Identification Guidebook	T	Turbid
FSR	Forest Service Road	Temp	Temperature
FSZ	Fisheries Sensitive Zone	TRIM	Terrain Resource Information Management
GF	Ground flow	Triton	Triton Environmental Consultants Ltd.
Grad	Slope gradient	UND	Undetermined
GPS	Global Positioning System	u/s	Upstream
H	High flow	UTM	Universal Transverse Mercator coordinates
HP	Horsepower	V	Volt
Hz	Hertz	Wb	Bankfull depth
HIST	Historic	WCB	Workers Compensation Board
ID	Identifier	WSC	Watershed code
IM	Important (habitat value rating)	W1 - W5	Riparian classes (wetlands)
infer	Inferred	X-ing	Crossing
INT	Intermittent	Y	Yes
IS	Incidental sampling	μsec	Microseconds
km	Kilometer	μS	Microsiemens
L	Low flow or lightly turbid	°C	Temperature
L.	Lake	%	Slope gradient
LKC	Lake chub (<i>Couesius plumbeus</i>)		

8. List of Appendices

Appendix I: Field Cards Copies

Appendix II: Photographs

Appendix III: Hardcopy Maps

Appendix I: Field Cards Copies

SITE CARD

STREAM NAME (Gaz.) unnamed (local) A 80842

WATERSHED CODE _____

ILP MAP # 093E086 ILP # 62285 MID MAP # 093E086 MID # _____

REACH # 1 D SITE # _____ FIELD UTM 091641507 AGENCY CO16 CREW MJ JH SITE LG 50010 ACCESS V4 FISH FORM CP

DATE 2101071517109 TIME 110110

CHANNEL

CHANNEL WIDTH (m) 2.3 1.9 2.1 1.4 2.2 2.1 GRADIENT % AL EMS 10 C 13 COND. SO S/cm 54

WETTED WIDTH (m) 2.3 1.2 1.2 2.0 1.4 pH 3.5 1

RES. POOL DEPTH (m) 1.3 0.4 0.7 0.5 0.2 0.4 0.5 1.0 2 3.5

W₀ Dp (m) 0.48 0.38 0.40 0.34 STAGE L M H No Vis. Ch. DW Dry/Int. T Tribs. _____

COVER

COVER Type SWD LWD B U DP OV IV CROWN CLOSURE DISTURBANCE INDICATORS

LWD FNC N F A D I S T A M V INSTREAM VEG N A M V

LB SHP U V S O RB SHP U V S O

TEXTURE F G C B R A TEXTURE F G C B R A

RIP. VEG. N G S C D M W RIP. VEG. N G S C D M W

STAGE INIT SHR PS YF MF NA STAGE INIT SHR PS YF MF NA

CONFINEMENT EN CO FC OC UN N/A

FEATURES

C MID MAP # _____ MID # _____ TYPE _____ HT/LG (m) _____ PHOTO _____ COMMENTS _____ UTM _____

R - very good due to abund. and diverse cover, good flow
 S - good gravel abund, almost no silts in pool crest, exc. holding good flow
 OW - exc. deep pools abund

Fish pop likely very scarce / fish passage effects by BDS ds

ROLL # _____ # _____ FOC LG _____ DIR _____ COMMENTS

D10 221 ST U Probe for scale
 -11 222 ST D - " - "

GROUP _____ WILDLIFE OBSERVATIONS _____ GROUP _____ WILDLIFE OBSERVATIONS _____

C King UTM = 641527 5967308
 end of site 641631 5967309
 W0 = 0.48, 0.47, 0.38, 0.43
 0.40, 0.34

BDS = several observed d/s of r-neg
 = obs. d/s of x-neg

SS (2)

COMBINED FISH COLLECTION

GAZETTED NAME unnamed (local) A 80842 LAKE STREAM WETLAND

WATERSHED CODE _____

WATERBODY ID _____ ILP MAP # 093E086 ILP # 62285 SITE/LAKE CARD ATTACHED Y N

PROJECT ID _____ FISH PERMIT # SM07-35801 RE-SAMPLE

DATE 2101071517109 to _____ AGENCY CO16 CREW MJ JH STREAM CONDITION U COMMENTS _____

SITE #	MID MAP #	MID #	SITE UTM	MTD / NO.	STREAM CONDITION	COMMENTS
1	093E086	9	641507 159672218	EF11 10	SD C	

SITE #	MTD / #	H / P	SPECIES	STAGE	AGE	TOTAL	MIN LENGTH	MAX LENGTH	FISH AGE	COMMENTS
1	EF11	1	NSC			1	199	199	R	

NET / TRAP SPECIFICATIONS

C	SITE #	MTD / #	HAUL	DATE IN	TIME IN	DATE OUT	TIME OUT	NET TYPE	LENGTH	DEPTH	MESH SIZE	SET	HAB.

1 NSC captured in apparent stream

C	SITE #	MTD / #	PASS	TIME IN	TIME OUT	EF SEC.	LENGTH	WIDTH	ENCL.	VOLTAGE	FREQ.	PULSE	MAKE	MODEL
	1	EF11	1	10:20	10:40	514	500	1.5	0	600	80	6	SR	12B

C	SITE #	MTD / #	H / P	SPEC.	LENGTH	WEIGHT	SEX	MATUR.	AGE STRUCTURE	AGE SAMPLE	VOUCHER #	GENETIC STRUCTURE	COMMENTS	PHOTO
	1	EF11	1	NSC	199									R_F R_F R_F R_F R_F R_F R_F R_F R_F

SITE CARD

STREAM NAME (Gaz.) unnamed (local) A 81500

WATERSHED CODE _____

ILP MAP # 093E086 ILP # 62200 MID MAP # 093E086 MID # _____

REACH # 1 D SITE # 2 FIELD UTM 91640077 AGENCY CO16 CREW MJ JH SITE LG 60010 ACCESS PT FISH FORM Y

DATE 2101071517109 TIME 11338

CHANNEL

CHANNEL WIDTH (m) 0.9 0.9 1.5 0.7 GRADIENT % AL EMS C COND. S S/cm 23

WETTED WIDTH (m) 0.6 0.8 0.7 0.9 pH 2.3

RES. POOL DEPTH (m) MS0.7

W₀ Dp (m) 0.01 0.1 STAGE L M H No Vis. Ch. DW Dry/Int. T Tribs. _____

COVER

COVER Type SWD LWD B U DP OV IV CROWN CLOSURE DISTURBANCE INDICATORS

LWD FNC N F A D I S T A M V INSTREAM VEG N A M V

LB SHP U V S O RB SHP U V S O

TEXTURE O C B R A TEXTURE O C B R A

RIP. VEG. N G S C D M W RIP. VEG. N G S C D M W

STAGE INIT SHR PS YF MF NA STAGE INIT SHR PS YF MF NA

CONFINEMENT EN CO FC OC UN N/A

FEATURES

C MID MAP # 093E086 MID # F88 TYPE _____ HT/LG (m) _____ PHOTO _____ COMMENTS Strm disperses UTM 9164138 596886683

Drainage is not a stream, discont. channel and flowing to King. Becomes stream ~ 100m d/s from prop block. The lower ext of wetland disperses drain. Channelized sections do not extend more than 60m occasionally fluvial substrate, but mostly intermittent scour & organic in channel bed

ROLL # _____ # _____ FOC LG _____ DIR _____ COMMENTS

21 229 ST U probe for scale
 D16 224 ST D - " - "

GROUP _____ WILDLIFE OBSERVATIONS _____ GROUP _____ WILDLIFE OBSERVATIONS _____

C W0 = 0.3, 0.2
 King UTM = 640046 5968904
 640049 5968319
 No defined channel
 from UTM
 640046 5968319
 borderline strm / NCD @ UTM

strm disperses @ UTM 64026 5968467
 strm from UTM 64028 5968586
 NCD from 9, 640279, 5968777.

NCD (6)

SITE CARD

STREAM NAME (Gaz.) unnamed (local) A 81500

WATERSHED CODE _____

ILP MAP # 093E086 ILP # 62200 MID MAP # 093E086 MID # _____

REACH # 2 D SITE # 3 FIELD UTM 9164006 AGENCY CO16 CREW MJ JH SITE LG 20066 ACCESS PT FISH FORM Y

DATE 2101071517109 TIME 14140

CHANNEL

CHANNEL WIDTH (m) _____ GRADIENT % _____ EMS _____ COND. _____ S/cm _____

WETTED WIDTH (m) _____ pH _____

RES. POOL DEPTH (m) _____

W₀ Dp (m) _____ STAGE _____ No Vis. Ch. _____ Dry/Int. _____ Tribs. _____

COVER

COVER Type SWD LWD B U DP OV IV CROWN CLOSURE DISTURBANCE INDICATORS

LWD FNC N F A D I S T A M V INSTREAM VEG N A M V

LB SHP U V S O RB SHP U V S O

TEXTURE F G C B R A TEXTURE F G C B R A

RIP. VEG. N G S C D M W RIP. VEG. N G S C D M W

STAGE INIT SHR PS YF MF NA STAGE INIT SHR PS YF MF NA

CONFINEMENT EN CO FC OC UN N/A

FEATURES

C MID MAP # _____ MID # _____ TYPE _____ HT/LG (m) _____ PHOTO _____ COMMENTS _____ UTM _____

W/FH - not an FFC stream, stream becomes NCD ~ 100m d/s from prop. block. Although the bank stream has discontinuous fluxion not extending more than 40-50m, therefore stream is NCD

ROLL # _____ # _____ FOC LG _____ DIR _____ COMMENTS

D16 225 ST U tape
 D16 226 ST S - " - "

GROUP _____ WILDLIFE OBSERVATIONS _____ GROUP _____ WILDLIFE OBSERVATIONS _____

C King UTM = 9, 640406 5968904

NCD (8)

7810000593
SITE CARD
 STREAM NAME: Unnamed (local) A 20240
 WATERSHED CODE: 0935086
 I/P MAP # 62261
 MID MAP # 0935086
 REACH # 4
 SITE # 4
 FIELD UTM 9 1632517.967991693
 DATE 7/10/17 07:09
 TIME 15:10
 AGENCY COIL
 CREW M3, JH
 ACCESS V4
 FISH FORM Y (N)

CHANNEL: width 1.0, 0.5, 0.8, 0.6, 0.7, 1.1
 WETTED WIDTH 1.0
 RES. POOL DEPTH 0.15, 0.2, 0.1, 0.18
 W₁₀ 0.15, 0.2, 0.21, 0.15
 STAGE L0, H
 No Vis. Ch. DW
 Dry/hot Tribes.

COVER: SWD LWD B U DP OV IV
 AMT 5 N N T T O H
 LOC P P P P P P
 LWD FNC N F A DIST C E
 LA SHP U V S O
 TEXTURE F G C B R A
 RIP VEG N G S O D M W
 STAGE INIT SHR PS YF MF NA

EMTS: TEMP 10 C FS
 COND 40 S/cm
 pH 7.4
 FLD SNS stranded debris on bank
 BED MATERIAL Dominant G
 Disturbance Indicators: 01 B1 B2 B3 (01) D2 D3
 C1 C2 C3 C4 C5 S1 S2 S3 S4 S5

UTM: 9

no personal flow, no suitable rearing, no over-wintering habitat
 no potential spawning

DL# # F FCLD DIR COMMENTS
 16 227 ST U AL for scale
 16 228 ST D AL for scale

GROUP WILDLIFE OBSERVATIONS GROUP WILDLIFE OBSERVATIONS

WB 0.15, 0.19, 0.2, 0.16, 0.2, 0.18
 UTM = Xing 9-637409 5962985

10

7810000593
SITE CARD
 STREAM NAME: Unnamed (local) Washout
 WATERSHED CODE: 20057
 I/P MAP # 20057
 MID MAP # 0935086
 REACH # 1
 SITE # 5
 FIELD UTM 9 1632517.572410693
 DATE 7/10/17 07:09
 TIME 17:35
 AGENCY COIL
 CREW M3, JH
 ACCESS V4
 FISH FORM N

CHANNEL: width 2.3, 2.8, 2.1, 1.9, 2.7
 WETTED WIDTH 2.3
 RES. POOL DEPTH 0.15, 0.2, 0.1, 0.18
 W₁₀ 0.15, 0.2, 0.21, 0.15
 STAGE L0, H
 No Vis. Ch. DW
 Dry/hot Tribes.

COVER: SWD LWD B U DP OV IV
 AMT T S T T P T N
 LOC P P P P P P
 LWD FNC N F A DIST C E
 LA SHP U V S O
 TEXTURE F G C B R A
 RIP VEG N G S O D M W
 STAGE INIT SHR PS YF MF NA

EMTS: TEMP 10 C FS
 COND 60 S/cm
 pH 11.6
 FLD SNS stranded debris, sed on bank
 BED MATERIAL Dominant C
 Disturbance Indicators: 01 B1 B2 B3 D1 D2 D3
 C1 C2 C3 C4 C5 S1 S2 S3 S4 S5

UTM: 11

ASHE F.252 temp blocks fish passage due to road failure / culvert failure (10 m down from X-100)

R - Moderate: cover not too abundant. Pools fairly shallow & short
 S - poor: likely opportunistic in few scattered gr. patches, poor holding. Gradient likely too steep
 O/W - poor, pools likely too shallow & too much turbulence to provide sufficient cover.

DL# # F FCLD DIR COMMENTS
 16 220 ST U person for scale
 16 221 ST D
 16 222 ST U @ crossing
 16 229 ST 0 false photo

GROUP WILDLIFE OBSERVATIONS GROUP WILDLIFE OBSERVATIONS

WB 0.57, 0.55, 0.42, 0.31, 0.32, 0.42

53

12

789001315
COMBINED FISH COLLECTION
 GAZETTED NAME: Unnamed (local) LAKE STREAM WETLAND
 WATERSHED CODE: 20057
 I/P MAP # 20057
 MID MAP # 0935086
 REACH # 1
 SITE # 5
 FIELD UTM 9 1632517.572410693
 DATE 7/10/17 07:09
 TIME 17:35
 AGENCY COIL
 CREW M3, JH
 ACCESS V4
 FISH FORM N

NET / TRAP SPECIFICATIONS

NET # SITE # MTD # HAUL DATE IN TIME IN DATE OUT TIME OUT NET TYPE LENGTH DEPTH MESH SIZE SET HAB.

5 EF11 1 RB A 1 177 177 R

13

SITE #	MTD #	H/P	SPEC	LENGTH	WEIGHT	SEX	MATURE	STRUCTURE	AGE SAMPLE #	AGE	VOUCHER #	GENETIC STRUCTURE	GENETIC SAMPLE #	COMMENTS	PHOTO
5	EF11	1	RB	127											R.D. F25

7810000593
SITE CARD
 STREAM NAME: Unnamed (local) A 80577
 WATERSHED CODE: 485015
 I/P MAP # 9991010
 MID MAP # 093511.008
 REACH # 3
 SITE # 6
 FIELD UTM 9 1632517.572410693
 DATE 7/10/17 07:09
 TIME 18:11
 AGENCY COIL
 CREW M3, JH
 ACCESS V4
 FISH FORM Y (N)

CHANNEL: width 1.2, 0.3, 3.2, 2.5, 2.6, 2.0
 WETTED WIDTH 1.2
 RES. POOL DEPTH 0.15, 0.2, 0.1, 0.18
 W₁₀ 0.15, 0.2, 0.21, 0.15
 STAGE L0, H
 No Vis. Ch. DW
 Dry/hot Tribes.

COVER: SWD LWD B U DP OV IV
 AMT S P D T N S T
 LOC P P P P P P
 LWD FNC N F A DIST C E
 LA SHP U V S O
 TEXTURE F G C B R A
 RIP VEG N G S O D M W
 STAGE INIT SHR PS YF MF NA

EMTS: TEMP 11 C FS
 COND 50 S/cm
 pH 7.1
 FLD SNS stranded debris
 BED MATERIAL Dominant C
 Disturbance Indicators: 01 B1 B2 B3 (01) (02) D2 D3
 C1 C2 C3 C4 C5 S1 S2 S3 S4 S5

UTM: 15

R - good glide, good seasonal rearing among cobble - OSU cover
 S - no spawning hab present for salmonids
 O/W - none
 abundant of insect, indicates underutilized of stream
 stream exhibits signs of season flow in reach 1 which likely transfers access to reveal up stream seasonal habitat

DL# # F FCLD DIR COMMENTS
 16 230 ST U Ab for scale
 16 231 ST D Ab for scale

GROUP WILDLIFE OBSERVATIONS GROUP WILDLIFE OBSERVATIONS

WB 0.45, 0.36, 0.29, 0.36, 0.44, 0.44
 1 Vig cobbles on border cuts

X-ing UTM = site UTM
 Walked stream d/s upto Triton's site - no other other than seasonal flows

53

16

760001315
COMBINED FISH COLLECTION
 GAZETTED NAME (local) **A80577** LAKE STREAM WETLAND
 WATERSHED CODE **48015199190**
 WATERBODY ID _____
 PROJECT ID _____
 DATE **10/07/10** to **10/07/10** AGENCY **2016** CREW **MJ, JH** FISH PERMIT # **SM07-35801**
 REACH # _____
 I/P MAP # _____ I/P # _____
 SITE LAKE CARD ATTACHED Y N
 RE-SAMPLE

SITE #	NID MAP #	NID #	SITE UTM	MTD/NO.	STREAM CONDITION	COMMENTS
6	082H008		16623251610241.0P3	EF1	11	50 C
7	082H008		0663197 61026041G3	EF1	11	50 C

FISH SUMMARY

SITE #	MTD/#	H/P	SPECIES	STAGE	AGE	TOTAL #	MIN LENGTH	MAX LENGTH	FISH ACT.	COMMENTS
6	EF1	1	NFC			0				
7	EF1	2	NFC			0				

NET / TRAP SPECIFICATIONS

SITE #	MTD/#	HAUL	DATE IN	TIME IN	DATE OUT	TIME OUT	NET TYPE	LENGTH	DEPTH	NET SIZE	SET	HAB.
6												
7												

(17)

SITE #	MTD/#	PASS	TIME IN	TIME OUT	IF SEC.	LENGTH	WIDTH	ENCL.	VOLTAGE	FREQ.	PULSE	MAKE	MODEL
6	EF1	1	0900	1030	248	300	1.5	0	500	80	6	SR	12B
7	EF1	2	1200	1257	270	600	1.5	0	500	80	6	SR	12B

SITE #	MTD/#	H/P	SPEC.	LENGTH	WEIGHT	SEX	MATURE	STRUCTURE	AGE SAMPLE #	AD	VOUCHER #	GENETIC STRUCTURE	GENETIC SAMPLE #	COMMENTS	PHOTO
															R_F_
															R_F_
															R_F_
															R_F_
															R_F_
															R_F_
															R_F_
															R_F_
															R_F_
															R_F_

(18)

761000593
SITE CARD
 STREAM NAME (local) **unnamed** (reach) **A 80583**
 WATERSHED CODE **481051981010**
 I/P MAP # _____ I/P # _____
 REACH # **3** SITE # **8** FIELD UTM **9 166851 601224 16P3** SITE LG **100 16E** ACCESS **V4**
 DATE **10/07/10** TIME **0811** AGENCY **2016** CREW **MJ, JH** FISH PERMIT # **SM07-35801**
 RE-SAMPLE

CHANNEL

CHANNEL WIDTH (m) **T 24 231.4 18 18.94** GRADIENT % **AL**
 WETTED WIDTH (m) **T 20 220.1 15 11.5 1.0** pH **7.05**
 REIL POOL DEPTH (m) **3E 0.703** FLD SCS **None**
 W₀ (m) **0.44** STAGE **L M H** No Vis. Ch. **DW** Dry/Int. **Trib.**

COVER

SWD **LWD B U DP OV IV** CROWN CLOSURE **0 1 2 3 4 5**
 AMT **D T T S S S N**
 LOC **P P P P P P**

FEATURES

LVD FNC **N F A** DIST **C P** INSTREAM VEG **N A M V**
 LB SHIP **U V S O** RB SHIP **U V S O**
 TEXTURE **A B C B R A** TEXTURE **D G C B R A**
 RIP VEG **N G C D M W** RIP VEG **N G C D M W**
 STAGE INIT SHR **PS YF M NA** STAGE INIT SHR **PS YF M NA**
 CONFINEMENT **EN CD FC DC (UN) N/A**

(19)

ROLL # # **FOCAL** **DIR** **COMMENTS**

D16 238 ST V HC for scale
 D16 239 ST D HC for scale

GROUP **WILDLIFE OBSERVATIONS** **GROUP** **WILDLIFE OBSERVATIONS**

C **prop xing 1001 660251 6101321** **C**
 Wb = 0.44, 0.32, 0.5, 0.37
 0.43, 0.39

(20)

760001315
COMBINED FISH COLLECTION
 GAZETTED NAME (local) **A80583** LAKE STREAM WETLAND
 WATERSHED CODE **48105181010**
 WATERBODY ID _____
 PROJECT ID _____
 DATE **10/07/10** to **10/07/10** AGENCY **2016** CREW **MJ, JH** FISH PERMIT # **SM07-35801**
 REACH # **3**
 I/P MAP # _____ I/P # _____
 SITE LAKE CARD ATTACHED Y N
 RE-SAMPLE

SITE #	NID MAP #	NID #	SITE UTM	MTD/NO.	STREAM CONDITION	COMMENTS
8	082H008		1660851 6101224 16P3	EF1	14	20 C

FISH SUMMARY

SITE #	MTD/#	H/P	SPECIES	STAGE	AGE	TOTAL #	MIN LENGTH	MAX LENGTH	FISH ACT.	COMMENTS
8	EF1	1	NFC			0				

NET / TRAP SPECIFICATIONS

SITE #	MTD/#	HAUL	DATE IN	TIME IN	DATE OUT	TIME OUT	NET TYPE	LENGTH	DEPTH	NET SIZE	SET	HAB.
8												

(21)

SITE #	MTD/#	PASS	TIME IN	TIME OUT	IF SEC.	LENGTH	WIDTH	ENCL.	VOLTAGE	FREQ.	PULSE	MAKE	MODEL
8	EF1	1	18:30	19:30	130	100m	2.0	0	400	70	6	SR	12B

SITE #	MTD/#	H/P	SPEC.	LENGTH	WEIGHT	SEX	MATURE	STRUCTURE	AGE SAMPLE #	AD	VOUCHER #	GENETIC STRUCTURE	GENETIC SAMPLE #	COMMENTS	PHOTO
															R_F_
															R_F_
															R_F_
															R_F_
															R_F_
															R_F_
															R_F_
															R_F_
															R_F_
															R_F_

(22)

761000593 (change) (in DNS)
SITE CARD
 STREAM NAME (local) **unnamed** (reach) **Access to A80577 A80583**
 WATERSHED CODE **48105199100**
 I/P MAP # _____ I/P # _____
 REACH # **4** SITE # **9** FIELD UTM **9 16244 610123 16P3** SITE LG **100 16E** ACCESS **V4**
 DATE **10/07/10** TIME **1017** AGENCY **2016** CREW **MJ, JH** FISH PERMIT # **SM07-35801**
 RE-SAMPLE

CHANNEL

CHANNEL WIDTH (m) **T 17 15 14.6 16.7 15 15** GRADIENT % **AL**
 WETTED WIDTH (m) **T 12 11 11.1 13 12 12** pH **7.2**
 REIL POOL DEPTH (m) **M 0.25 0.24 0.2** FLD SCS **N**
 W₀ (m) **0.28 0.36 0.3** STAGE **L M H** No Vis. Ch. **DW** Dry/Int. **Trib.**

COVER

SWD **LWD B U DP OV IV** CROWN CLOSURE **0 1 2 3 4 5**
 AMT **S S T T D S T**
 LOC **P P P P P P**

FEATURES

LVD FNC **N F A** DIST **C P** INSTREAM VEG **N A M V**
 LB SHIP **U V S O** RB SHIP **U V S O**
 TEXTURE **A B C B R A** TEXTURE **D G C B R A**
 RIP VEG **N G C D M W** RIP VEG **N G C D M W**
 STAGE INIT SHR **PS YF M NA** STAGE INIT SHR **PS YF M NA**
 CONFINEMENT **EN CD FC DC (UN) N/A**

(23)

ROLL # # **FOCAL** **DIR** **COMMENTS**

D16 240 ST V AL for scale
 D16 241 ST D AL for scale

GROUP **WILDLIFE OBSERVATIONS** **GROUP** **WILDLIFE OBSERVATIONS**

C **road xing / culvert w/** **C**
M 661126 6100259
 Wb = 0.24, 0.24, 0.36, 0.36
 0.30, 0.36, 0.34

(24)

760000315 *change in PM12*

COMBINED FISH COLLECTION

GAZETTED NAME *unnamed* (local) *Access to 805718 Q30 LAKE* LAKE STREAM WETLAND

WATERSHED CODE *V184558191001*

WATERBODY ID _____

PROJECT ID _____

DATE *12/07/2011* to *12/07/2011* AGENCY *CO16* CREW *MT JH* RE-SAMPLE

REACH # *4* FISH PERMIT # *SM07-35801*

SITE #	MTD #	H/P	SPEC	LENGTH	WEIGHT	SEX	MATURE	AGE	VOUCHER #	GENETIC	COMMENTS	PHOTO
9	092M008											

NET / TRAP SPECIFICATIONS

C	SITE #	MTD #	HAUL	DATE IN	TIME IN	DATE OUT	TIME OUT	NET TYPE	LENGTH	DEPTH	MESH SIZE	SET	HAB.

25

SITE #	MTD #	PASS	TIME IN	TIME OUT	EF SEC	LENGTH	WIDTH	ENCL	VOLTAGE	FREQ	PULSE	MAKE	MODEL
9	EF1		18071132	289	150	1.1	0	500	80	6	SR	12B	

SITE #	MTD #	H/P	SPEC	LENGTH	WEIGHT	SEX	MATURE	AGE	VOUCHER #	GENETIC	COMMENTS	PHOTO

26

761000593

SITE CARD

STREAM NAME *unnamed* (local) *A21517*

WATERSHED CODE *4180156101001*

WATERBODY ID _____

PROJECT ID _____

DATE *12/07/2011* to *12/07/2011* AGENCY *CO16* CREW *MT JH* RE-SAMPLE

REACH # *5* FISH PERMIT # *SM07-35801*

CHANNEL *AL* GRADIENT % *2.25* EMB *11* REG. # *35*

WETTED WIDTH *1.75* WETTED DEPTH *0.25* FLD SWS *N/A* BED MATERIAL *Gr* DISTURBANCE INDICATORS *01 B1 B2 B3 D1 D2 D3*

COVER *5 P 5 T 3 T 1 P*

NET / TRAP SPECIFICATIONS

C	SITE #	MTD #	HAUL	DATE IN	TIME IN	DATE OUT	TIME OUT	NET TYPE	LENGTH	DEPTH	MESH SIZE	SET	HAB.

27

R - good; diverse and abundant cover
S - good; multiple holding and abrad G throughout reach.
DW - no suitable pools, lacks owl habitat; lacks perennial habitat
* no isolated fish pop^s present above reported cascade in Reach 1 (Citation 2000)

ROLL #	#	FOCUS	DIR	COMMENTS
016	242	S+	V	glove for scale
016	243	S+	D	glove for scale

proposed Rd xing w/m =
Wb = 0.35, 0.44, 0.42, 0.5,
0.47, 0.35

55

A 28

761000593

COMBINED FISH COLLECTION

GAZETTED NAME *unnamed* (local) *A21517* LAKE STREAM WETLAND

WATERSHED CODE *4180156101001*

WATERBODY ID _____

PROJECT ID _____

DATE *12/07/2011* to *12/07/2011* AGENCY *CO16* CREW *MT JH* RE-SAMPLE

REACH # *5* FISH PERMIT # *SM07-35801*

CHANNEL *AL* GRADIENT % *2.25* EMB *11* REG. # *35*

WETTED WIDTH *1.75* WETTED DEPTH *0.25* FLD SWS *N/A* BED MATERIAL *Gr* DISTURBANCE INDICATORS *01 B1 B2 B3 D1 D2 D3*

COVER *5 P 5 T 3 T 1 P*

NET / TRAP SPECIFICATIONS

C	SITE #	MTD #	HAUL	DATE IN	TIME IN	DATE OUT	TIME OUT	NET TYPE	LENGTH	DEPTH	MESH SIZE	SET	HAB.

28

SITE #	MTD #	PASS	TIME IN	TIME OUT	EF SEC	LENGTH	WIDTH	ENCL	VOLTAGE	FREQ	PULSE	MAKE	MODEL
10	EF1		13091430	298	600	2.5	0	600	80	6	SR	12B	

SITE #	MTD #	H/P	SPEC	LENGTH	WEIGHT	SEX	MATURE	AGE	VOUCHER #	GENETIC	COMMENTS	PHOTO

29

761000593

SITE CARD

STREAM NAME *Hclines c* (local) *North road 4-21 km*

WATERSHED CODE *41601203001*

WATERBODY ID _____

PROJECT ID _____

DATE *12/07/2011* to *12/07/2011* AGENCY *CO16* CREW *MT JH* RE-SAMPLE

REACH # *1* FISH PERMIT # *SM07-35801*

CHANNEL *AL* GRADIENT % *5.15* EMB *11* REG. # *170*

WETTED WIDTH *2.0* WETTED DEPTH *0.2* FLD SWS *hops added (some on bank)* BED MATERIAL *Gr* DISTURBANCE INDICATORS *01 B1 B2 B3 D1 D2 D3*

COVER *MNDNSPTN*

NET / TRAP SPECIFICATIONS

C	SITE #	MTD #	HAUL	DATE IN	TIME IN	DATE OUT	TIME OUT	NET TYPE	LENGTH	DEPTH	MESH SIZE	SET	HAB.

30

R - fast flowing creek with not much of good quality ISC, pools short & shallow, some protection from B
S - none
S - none - mixed large / small substrate, no holding

ROLL #	#	FOCUS	DIR	COMMENTS
016	244	S+	V	person for scale
016	245	S+	D	dog "
016	246	S+	V	dog "

Wb = 0.67

31

7610001315
COMBINED FISH COLLECTION
 GAZETTED NAME: Unnamed (local) A 78462 LAKE STREAM WETLAND
 WATERSHED CODE: 460924500158800155000859
 WATERBODY ID: ILP MAP # 16 NID # 0953020
 PROJECT ID: REACH # 1 AGENCY 2016 CREW MT, JH
 DATE: 20070713 to 20070713
 SITE # 16 MTD # 0953020 NID # 0953020 SITE UTM 16N45510P3 EP 11 60 C
 FISH PERMIT # 5M07-35801
 FISH SUMMARY:
 SITE # 16 MTD # 0953020 H/P 1 SPECIES RB STAGE 1 AGE 1 MIN LENGTH 65 MAX LENGTH 65 FISH ACT R COMMENTS
 NET/TRAP SPECIFICATIONS:
 C SITE # 16 MTD # 0953020 HAUL DATE IN TIME IN DATE OUT TIME OUT NET TYPE LENGTH DEPTH MESH SIZE SET HBL
 (48)

7610000593
SITE CARD
 STREAM NAME: (local) A 78462
 WATERSHED CODE: 460924500158800155000859
 ILP MAP # 16 NID MAP # 0953020
 REACH # 1 D SITE # 16X FIELD UTM 16N45510P3 SITE LG 150 GE ACCESS FT
 DATE: 20070713 TIME 11:00 AGENCY COLB CREW MT, JH
 CHANNEL: CHAN WID (m) 1.8, 1.9, 1.5, 1.8, 2.0, 1.6 AL GRADIENT % 2.3
 WETTED WIDTH (m) 1.6, 1.8, 1.5, 1.4, 1.5, 1.5 2.3
 RES. POOL DEPTH (m) 1.3, 0.3, 0.2
 No. Vics. Ch. DW Dry/let. Tribes.
 COVER: SWD LWD B U DP OV IV CROWN CLOSURE 0 1 2 3 4 5
 LVD FNC N D A DIST C E INSTREAM VEG N A M V
 LR SHP U V S O RB SHP U V S O
 TEXTURE 0 0 0 B R A TEXTURE 0 0 0 B R A
 RIP. VEG. N G S C D M W RIP. VEG. N G S C D M W
 STAGE INIT SHR PS YF MF NA STAGE INIT SHR PS YF MF NA
 FEATURES: C NID MAP # 16 NID # 0953020 TYPE HT/LG (m) PHOTO COMMENTS
 (50)

7610001315
COMBINED FISH COLLECTION
 GAZETTED NAME: (local) A 78462 LAKE STREAM WETLAND
 WATERSHED CODE: 460924500158800155000859
 WATERBODY ID: ILP MAP # 16X NID # 0953020
 PROJECT ID: REACH # 1 AGENCY COLB CREW MT, JH
 DATE: 20070713 to 20070713
 SITE # 16X MTD # 0953020 NID # 0953020 SITE UTM 16N45510P3 EP 11 60 C
 FISH PERMIT # 5M07-35801
 FISH SUMMARY:
 SITE # 16X MTD # 0953020 H/P 1 SPECIES MFC STAGE 0 AGE 0 MIN LENGTH MAX LENGTH FISH ACT COMMENTS
 NET/TRAP SPECIFICATIONS:
 C SITE # 16X MTD # 0953020 HAUL DATE IN TIME IN DATE OUT TIME OUT NET TYPE LENGTH DEPTH MESH SIZE SET HBL
 (52)

7610000593
SITE CARD
 STREAM NAME: (local) Rentoul C. Hill STR. 3 (A81184-1)
 WATERSHED CODE: 460924500158800155000859
 ILP MAP # 0953020 NID MAP # 0953020
 REACH # 2 D SITE # 17 FIELD UTM 10N07914603000P3 SITE LG 300 GE ACCESS FT
 DATE: 20070713 TIME 13:00 AGENCY COLB CREW MS, ST
 CHANNEL: CHAN WID (m) 1.4, 1.5, 1.3, 1.2, 1.3 AL GRADIENT % 1.0
 WETTED WIDTH (m) 1.1, 1.0, 0.5, 0.7, 0.9, 0.9 1.1
 RES. POOL DEPTH (m) 0.5, 0.0
 No. Vics. Ch. DW Dry/let. Tribes.
 COVER: SWD LWD B U DP OV IV CROWN CLOSURE 0 1 2 3 4 5
 LVD FNC N D A DIST C E INSTREAM VEG N A M V
 LR SHP U V S O RB SHP U V S O
 TEXTURE 0 0 0 B R A TEXTURE 0 0 0 B R A
 RIP. VEG. N G S C D M W RIP. VEG. N G S C D M W
 STAGE INIT SHR PS YF MF NA STAGE INIT SHR PS YF MF NA
 FEATURES: C NID MAP # 16 NID # 0953020 TYPE HT/LG (m) PHOTO COMMENTS
 (54)

SITE #	MTD #	PASS	TIME IN	TIME OUT	IF SEC	LENGTH	WIDTH	ENCL	VOLTAGE	FREQ.	PULSE	MAKE	MODEL
16	EP1		1:28	0:36	21	10	1.3		500	6	6	SR	128

SITE #	MTD #	H/P	SPEC	LENGTH	WEIGHT	SEX	MATURE	STRUCTURE	AGE SAMPLE #	AGE	VOUCHER #	GENETIC STRUCTURE SAMPLE #	COMMENTS	PHOTO
16	EP1		RB	65										R_F

(49)

R - good seasonal passing
 S - poor, mixed C & G, maybe opportunistic
 D - none - no sufficient pools

ROLL # 261 ST D HC for scale

WILDLIFE OBSERVATIONS: GROUP WILDLIFE OBSERVATIONS

COMMENTS: C WBS = 0.36, 0.33, 0.45, 0.39, 0.42, 0.35 C
 Lots of Blownown difficult access to adequate sample
 (51)

SITE #	MTD #	PASS	TIME IN	TIME OUT	IF SEC	LENGTH	WIDTH	ENCL	VOLTAGE	FREQ.	PULSE	MAKE	MODEL
16X	EP1		11:15	11:20	58	30	1.5	0	500	20	6	SR	128

SITE #	MTD #	H/P	SPEC	LENGTH	WEIGHT	SEX	MATURE	STRUCTURE	AGE SAMPLE #	AGE	VOUCHER #	GENETIC STRUCTURE SAMPLE #	COMMENTS	PHOTO
16X	EP1		MFC	0										R_F

V. difficult access to stream d/t extreme blownown
 (53)

Seasonal str. w/ low flow already. Barely flowing H₂O. Str. m will dry in next few wks. Conditions usable for spawning but it is inaccessible to BJC of steep grad. @ mouth.

ROLL # 261 ST B top for scale
 0.27 WBS for scale

WILDLIFE OBSERVATIONS: GROUP WILDLIFE OBSERVATIONS

COMMENTS: C WBS = 0.35, 0.35, 0.24, 0.29, 0.27
 Hiked stream from mouth for a 1/2 km
 1st grad. near mouth, rest in outblock
 (55)

761000593
SITE CARD

STREAM NAME: A81195-1

WATERSHED CODE: 93L030 S/P: 30501 NID MAP # 22 NID # 965690.6016259.6P3 SITE LG: 100.0 ACCESS: FT

REACH: 1 D SITE # 22 FIELD UTM: 965690.6016259.6P3 DATE: 20071022 TIME: 12:50 AGENCY: CO16 CREW: MS JH FISH FORM: Y (N)

CHANNEL: 16 GRADIENT %: AL TEMP: 10 C COND: 50 S/cm pH: 7.5 TURB: T M L C

W₁ (m): 1.2 W₂ (m): 1.9 W₃ (m): 1.7 W₄ (m): 1.5 W₅ (m): 1.8 W₆ (m): 1.4 W₇ (m): 1.1 W₈ (m): 1.4

RES. POOL DEPTH (m): 0.2 W₁ (m): 0.3 W₂ (m): 0.3 W₃ (m): 0.3 W₄ (m): 0.3 W₅ (m): 0.3 W₆ (m): 0.3 W₇ (m): 0.3 W₈ (m): 0.3

COVER: A No Vis. Ch. DW: 0 Dry/Int. Tribes: 0

SWD: L WLD: B U: U OP: OP OV: IV CROWN CLOSURE: 0 1 2 3 4 5

LB SHP: U V: S O: O BB SHP: U V: S O: O

TEXTURE: F G C B R A TEXTURE: F G C B R A

RIP VEG: N G S C D M W RIP VEG: N G S C D M W

STAGE: INIT SHR PS YF MF NA STAGE: INIT SHR PS YF MF NA

CONFINEMENT: EN CO FC OC UN N/A

WILDLIFE OBSERVATIONS: WR=0.29, 0.18, 0.32, 0.38, 0.34, 0.30
Xing WTM 9.625690.6016259

64

Stream usable & has but isolated w/s of C barrier in present stream in R

ROLL # 1 FOC LG 1 DIR 1 COMMENTS No cover Non taken

GROUP: WILDLIFE OBSERVATIONS GROUP: WILDLIFE OBSERVATIONS

65

761000593
SITE CARD

STREAM NAME: A81195-1

WATERSHED CODE: 93L030 S/P: 30501 NID MAP # 23 NID # 965690.6016259.6P3 SITE LG: 100.0 ACCESS: FT

REACH: 2 D SITE # 23 FIELD UTM: 965690.6016259.6P3 DATE: 20071022 TIME: 13:15 AGENCY: CO16 CREW: MS JH FISH FORM: Y (N)

CHANNEL: 16 GRADIENT %: AL TEMP: 10 C COND: 50 S/cm pH: 7.5 TURB: T M L C

W₁ (m): 1.4 W₂ (m): 1.6 W₃ (m): 1.0 W₄ (m): 1.2 W₅ (m): 1.0 W₆ (m): 1.2 W₇ (m): 1.0 W₈ (m): 1.2

RES. POOL DEPTH (m): 0.2 W₁ (m): 0.2 W₂ (m): 0.2 W₃ (m): 0.2 W₄ (m): 0.2 W₅ (m): 0.2 W₆ (m): 0.2 W₇ (m): 0.2 W₈ (m): 0.2

COVER: T No Vis. Ch. DW: 0 Dry/Int. Tribes: 0

SWD: L WLD: B U: U OP: OP OV: IV CROWN CLOSURE: 0 1 2 3 4 5

LB SHP: U V: S O: O BB SHP: U V: S O: O

TEXTURE: F G C B R A TEXTURE: F G C B R A

RIP VEG: N G S C D M W RIP VEG: N G S C D M W

STAGE: INIT SHR PS YF MF NA STAGE: INIT SHR PS YF MF NA

CONFINEMENT: EN CO FC OC UN N/A

WILDLIFE OBSERVATIONS: Xing WTM = site WTM

66

Steep creek basically cascade/clute C over entire length descending over backrock

ROLL # 1 FOC LG 1 DIR 1 COMMENTS No taken

GROUP: WILDLIFE OBSERVATIONS GROUP: WILDLIFE OBSERVATIONS

67

761000593
SITE CARD

STREAM NAME: Aitken C. A81192-1

WATERSHED CODE: 460702000 S/P: 30501 NID MAP # 24 NID # 967310.6029785.6P3 SITE LG: 500.66 ACCESS: FT

REACH: 3 D SITE # 24 FIELD UTM: 967310.6029785.6P3 DATE: 20071022 TIME: 16:00 AGENCY: CO16 CREW: MS JH FISH FORM: Y (N)

CHANNEL: 16 GRADIENT %: AL TEMP: C COND: S/cm pH: 7.5 TURB: T M L C

W₁ (m): 4.1 W₂ (m): 4.1 W₃ (m): 6.2 W₄ (m): 6.3 W₅ (m): 5.6 W₆ (m): 5.8 W₇ (m): 5.1 W₈ (m): 4.7 W₉ (m): 6.1 W₁₀ (m): 3.8 W₁₁ (m): 5.1

RES. POOL DEPTH (m): 0.2 W₁ (m): 0.2 W₂ (m): 0.2 W₃ (m): 0.2 W₄ (m): 0.2 W₅ (m): 0.2 W₆ (m): 0.2 W₇ (m): 0.2 W₈ (m): 0.2 W₉ (m): 0.2 W₁₀ (m): 0.2 W₁₁ (m): 0.2

COVER: A No Vis. Ch. DW: 0 Dry/Int. Tribes: 0

SWD: L WLD: B U: U OP: OP OV: IV CROWN CLOSURE: 0 1 2 3 4 5

LB SHP: U V: S O: O BB SHP: U V: S O: O

TEXTURE: F G C B R A TEXTURE: F G C B R A

RIP VEG: N G S C D M W RIP VEG: N G S C D M W

STAGE: INIT SHR PS YF MF NA STAGE: INIT SHR PS YF MF NA

CONFINEMENT: EN CO FC OC UN N/A

WILDLIFE OBSERVATIONS: Channel with consistent and Cw needed to decrease probably go up from 1st WTM
92/93 @ site WTM

68

RB presence was documented in R4 @ the current Bridge location in 2000 Recov Inv.

No assessment - stream measurements taken to determine riparian classification

ROLL # 1 FOC LG 1 DIR 1 COMMENTS No assessment - stream measurements taken to determine riparian classification

GROUP: WILDLIFE OBSERVATIONS GROUP: WILDLIFE OBSERVATIONS

69

761000593
SITE CARD

STREAM NAME: A81195-1

WATERSHED CODE: 93L030 S/P: 30502 NID MAP # 25 NID # 967310.6016259.6P3 SITE LG: 200.66 ACCESS: V4

REACH: 1 D SITE # 25 FIELD UTM: 967310.6016259.6P3 DATE: 20071022 TIME: 10:40 AGENCY: CO16 CREW: MS JH FISH FORM: Y (N)

CHANNEL: 16 GRADIENT %: AL TEMP: C COND: S/cm pH: 7.5 TURB: T M L C

W₁ (m): 1.2 W₂ (m): 1.9 W₃ (m): 1.7 W₄ (m): 1.5 W₅ (m): 1.8 W₆ (m): 1.4 W₇ (m): 1.1 W₈ (m): 1.4

RES. POOL DEPTH (m): 0.2 W₁ (m): 0.2 W₂ (m): 0.2 W₃ (m): 0.2 W₄ (m): 0.2 W₅ (m): 0.2 W₆ (m): 0.2 W₇ (m): 0.2 W₈ (m): 0.2

COVER: A No Vis. Ch. DW: 0 Dry/Int. Tribes: 0

SWD: L WLD: B U: U OP: OP OV: IV CROWN CLOSURE: 0 1 2 3 4 5

LB SHP: U V: S O: O BB SHP: U V: S O: O

TEXTURE: F G C B R A TEXTURE: F G C B R A

RIP VEG: N G S C D M W RIP VEG: N G S C D M W

STAGE: INIT SHR PS YF MF NA STAGE: INIT SHR PS YF MF NA

CONFINEMENT: EN CO FC OC UN N/A

WILDLIFE OBSERVATIONS: DIG 211 ST U Book for scale - w/s of Rd
DIG 212 ST U - w/s of Rd

70

FEH - seepage gone short 550 m channelized & scoured, defluous flows through old cutback where original channel was disturbed. Not an FRC stream as per definition

ROLL # 1 FOC LG 1 DIR 1 COMMENTS Book for scale - w/s of Rd
- w/s of Rd

GROUP: WILDLIFE OBSERVATIONS GROUP: WILDLIFE OBSERVATIONS

71

761000593
SITE CARD
 STREAM NAME: 481195-4
 WATERSHED CODE: 460924300315027302
 I/P MAP # 931030 I/P # 90504 NID MAP #
 REACH # 2 D SITE # 26 FIELD UTM 9.68471600785 SP3 SITE L# 150 GE ACCESS FT
 DATE: 20070724 TIME 1200 AGENCY COIC CREW MS TE FISH FORM Y (3)
 CHANNEL: mhd GRADIENT %
 CHANNEL WIDTH (m) T 1.7 1.6 1.9 1.7 1.7 2.0 AL
 WETTED WIDTH (m) T 1.1 1.6 1.5 1.7 1.4 1.7 2 3.5
 RES. POOL DEPTH (m) MS 20.43 27 2.2 2
 W₉ (m) 35.0 30.5 15 MS H No Vsc. Ch. Dry/let. DW Tribs.
 COVER: LWD B U DP OV IV CROWN CLOSURE
 DISTURBANCE INDICATORS: O1 B1 B2 B3 D1 D2 D3
 C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
 PATTERN: TM ME IM IR SI ST
 ISLANDS: N D I F S AN
 BARS: N SIDE DIAG MID SPAN BR
 COUPLING: DC PC CO
 CONFINEMENT: EN CO FC UN N/A
 C NID MAP # NID # TYPE HT/LD (m) PHOTO COMMENTS UTM
 R F
 R F
 R F
 R F

NFH - seepage through n 200 long section
 near the block, not continuity, totally disappears
 within steep gully section
 discontinuities whether d/s until up where
 it changes to S6.
 Invertebrate muddles up, no scoured bed.
 ROLL # F FOC LG DIR COMMENTS
 DIG 274 ST X Atk scale } wrong place
 DIG 278 ST U Bank to scale
 DIG 275 ST U book
 DIG 276 ST U AL
 GROUP WILDLIFE OBSERVATIONS GROUP WILDLIFE OBSERVATIONS
 C
 S6/NCD
 @ 9.68469, 6018767
 (73)

761000593
SITE CARD
 STREAM NAME: A 81192-1
 WATERSHED CODE: 460702000771135
 I/P MAP # 1 D I/P # 27 NID MAP #
 REACH # 20070724 TIME 1425 AGENCY COIC CREW MS TE FISH FORM (N)
 CHANNEL: mhd GRADIENT %
 CHANNEL WIDTH (m) T 1.7 1.6 1.9 1.7 1.7 2.0 AL
 WETTED WIDTH (m) T 1.1 1.6 1.5 1.7 1.4 1.7 2 3.5
 RES. POOL DEPTH (m) MS 20.43 27 2.2 2
 W₉ (m) 35.0 30.5 15 MS H No Vsc. Ch. Dry/let. DW Tribs.
 COVER: LWD B U DP OV IV CROWN CLOSURE
 DISTURBANCE INDICATORS: O1 B1 B2 B3 D1 D2 D3
 C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
 PATTERN: TM ME IM IR SI ST
 ISLANDS: N D I F S AN
 BARS: N SIDE DIAG MID SPAN BR
 COUPLING: DC PC CO
 CONFINEMENT: EN CO FC UN N/A
 C NID MAP # NID # TYPE HT/LD (m) PHOTO COMMENTS UTM
 R F
 R F
 R F
 R F

P - Good seasonal habitat available throughout
 S - no spawning n 20-30% fines in substrate,
 silt suspended & muck
 D - no - tea shallow
 ROLL # F FOC LG DIR COMMENTS
 DIG 277 ST U Panon for scale
 DIG 278 ST U MS
 GROUP WILDLIFE OBSERVATIONS GROUP WILDLIFE OBSERVATIONS
 C
 WB = 0.35, 0.85, 3.7, 3.4, 3.5, 3.7
 S3/S4 @ 9.675011, 6029462
 Xing WITH 9.672789, 6029455
 CW = 1.3, 1.6, 1.4, 1.3, 1.1, 1.2
 WB = 0.22, 0.22, 0.29, 0.27, 0.28, 0.4
 P = 1, 2, 1.5, 2
 Carew cov xing M CB/P, B5
 ov T
 silted W/P
 G/P
 G1
 No disk
 (75)

766001315
COMBINED FISH COLLECTION
 GAZETTED NAME: A 81192-1 (local) LAKES STREAM WETLAND
 WATERSHED CODE: 460702000771135
 WATERBODY ID: I/P MAP # I/P # SITE/LAKE CARD ATTACHED Y N
 PROJECT ID: REACH # FISH PERMIT # 5407-3580
 DATE: 20070724 to AGENCY COIC CREW MS TE RE-SAMPLE
 SITE # NID MAP # NID # SITE UTM MTD/NO. STREAM CONDITION COMMENTS
 27 0932039 9.673474602948 GP3 LF1 11 60 C
 FISH SUMMARY
 SITE # MTD/ # H/P SPECIES STAGE AGE # TOTAL BBL LENGTH BBL LENGTH FISH ACT COMMENTS
 27 EF 11 1 RB J 14 1 79 79 R
 NET/TRAP SPECIFICATIONS
 C SITE # MTD/ # HAUL DATE IN TIME IN DATE OUT TIME OUT NET TYPE LENGTH DEPTH MESH SIZE SET HAD
 (76)

SITE #	MTD/ #	PASS	TIME IN	TIME OUT	# SEC	LENGTH	WIDTH	ENCL	VOLTAGE	FREQ.	PULSE	MAKE	MODEL
27	EF 11	1	1405	1445	140	100	1	0	500	80	6	SR	128

SITE #	MTD/ #	H/P	SPEC	LENGTH	WEIGHT	SEX	MATUR	STRUCTURE	AGE SAMPLE #	AGE	YOUCHER #	GENETIC STRUCTURE SAMPLE #	COMMENTS	PHOTO
27	EF 11	1	RB	79										R_F R_F R_F R_F R_F R_F R_F R_F R_F R_F

761000593
SITE CARD
 STREAM NAME: A 81192-1
 WATERSHED CODE: 460702000771135
 I/P MAP # 2 D I/P # 28 NID MAP #
 REACH # 20070724 TIME 1715 AGENCY COIC CREW MS TE FISH FORM (N)
 CHANNEL: mhd GRADIENT %
 CHANNEL WIDTH (m) T 1.3 1.6 1.4 1.3 1.2 AL
 WETTED WIDTH (m) T 1.2 1.6 1.4 1.1 1.0 1 7.9
 RES. POOL DEPTH (m) MS 0.19 0.27 0.33 0.21 0.16 0.25 1.5 2
 W₉ (m) 32.0 30.5 15 MS H No Vsc. Ch. Dry/let. DW Tribs.
 COVER: LWD B U DP OV IV CROWN CLOSURE
 DISTURBANCE INDICATORS: O1 B1 B2 B3 D1 D2 D3
 C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
 PATTERN: TM ME IM IR SI ST
 ISLANDS: N D I F S AN
 BARS: N SIDE DIAG MID SPAN BR
 COUPLING: DC PC CO
 CONFINEMENT: EN CO FC UN N/A
 C NID MAP # NID # TYPE HT/LD (m) PHOTO COMMENTS UTM
 R F
 R F
 R F
 R F

P - nice & nice R hob, stream easily accessible from
 P1.
 s - poor - too much fines in substrate
 D - none - tea shallow
 ROLL # F FOC LG DIR COMMENTS
 DIG 280 ST 4 boat } photos showing
 DIG 281 ST 0 - 1
 GROUP WILDLIFE OBSERVATIONS GROUP WILDLIFE OBSERVATIONS
 C
 WB = 0.22, 0.22, 0.29, 0.27, 0.26, 0.4
 (54)
 (79)

761000593
SITE CARD
 STREAM NAME: Bk A 82817-4 (E) (local)
 WATERSHED CODE: 460967671168872
 R/P MAP # 932050 R/P # 32 FIELD UTM 9 688222 603660 673 SITE LG 100.6E ACCESS FT
 REACH # 2 D DATE 10.07.09 TIME 12:25 AGENCY COLG CREW MJ BS FISH FORM Y
 CHANNEL: 1 mhd GRADIENT % 1 EMS C COND. 100 S/cm
 CHANNEL WIDTH (m) 1.2 WETTED WIDTH (m) 1.2 RES. POOL DEPTH (m) 0.1 pH 7.5 TURB. T M L C
 W_{0.5} (m) 0.1 STAGE L M H No Vis. Ch. Dry/Int. DW FLD SWS 10 BED MATERIAL D Dominant C Subdom. G
 COVER: SWD LWD B U DP OV IV CROWN CLOSURE 0 1 2 3 4 5 DISTURBANCE INDICATORS 01 B1 B2 B3 D1 D2 D3
 Type SWD LWD B U DP OV IV DIST C E INSTREAM VEG N A M V PATTERN TM ME IM IR SI ST
 LB SHP U V S O RB SHP U V S O ISLANDS N O I F S AN
 TEXTURE F G C B R A TEXTURE F G C B R A BARS N SIDE DIAG MID SPAN BR
 RIP VEG N G S C D M W RIP VEG N G S C D M W COUPLING DC PC CO
 STAGE INIT SHR PS YF MF NA STAGE INIT SHR PS YF MF NA CONFINEMENT EN CO FC DC UN N/A
 C NID MAP # 932050 NID # 32 TYPE D HT/LG (m) 1.2/0.1 PHOTO R F COMMENTS (88) UTM

HABITAT QUALITY NFH
 FSZ
 ROLL # DIG 362 # ST DIR U COMMENTS No scale
 WILDLIFE DOCUMENTATION
 WILDLIFE OBSERVATIONS
 COMMENTS
 Depressure diverted by rd - rd construction. King @ UFM 9, 688267.6036610
 Depressure @ UFM 9, 688222.6036610 with squishy ground for ~ 15 m
 NCD (89)

761000593
SITE CARD
 STREAM NAME: Bk A 82817-5 (local)
 WATERSHED CODE: 460967671168872
 R/P MAP # 932050 R/P # 33 FIELD UTM 9 688222 603660 673 SITE LG 100.6E ACCESS FT
 REACH # 1 D DATE 10.07.09 TIME 13:00 AGENCY COLG CREW MJ BS FISH FORM Y
 CHANNEL: 1 mhd GRADIENT % 1 EMS C COND. 100 S/cm
 CHANNEL WIDTH (m) 1.2 WETTED WIDTH (m) 1.2 RES. POOL DEPTH (m) 0.1 pH 7.5 TURB. T M L C
 W_{0.5} (m) 0.1 STAGE L M H No Vis. Ch. Dry/Int. DW FLD SWS 10 BED MATERIAL D Dominant C Subdom. G
 COVER: SWD LWD B U DP OV IV CROWN CLOSURE 0 1 2 3 4 5 DISTURBANCE INDICATORS 01 B1 B2 B3 D1 D2 D3
 Type SWD LWD B U DP OV IV DIST C E INSTREAM VEG N A M V PATTERN TM ME IM IR SI ST
 LB SHP U V S O RB SHP U V S O ISLANDS N O I F S AN
 TEXTURE F G C B R A TEXTURE F G C B R A BARS N SIDE DIAG MID SPAN BR
 RIP VEG N G S C D M W RIP VEG N G S C D M W COUPLING DC PC CO
 STAGE INIT SHR PS YF MF NA STAGE INIT SHR PS YF MF NA CONFINEMENT EN CO FC DC UN N/A
 C NID MAP # 932050 NID # 33 TYPE D HT/LG (m) 1.2/0.1 PHOTO R F COMMENTS (90) UTM

HABITAT QUALITY NFH - seepage which drains to NFIS stream, no fluxion, scour or continuous banks - not a stream
 FSZ
 ROLL # DIG 363 # ST DIR U COMMENTS Book for scale
 WILDLIFE DOCUMENTATION
 WILDLIFE OBSERVATIONS
 COMMENTS
 No fluxion, scour of banks
 NCD (91)

761000593
SITE CARD
 STREAM NAME: Bk A 82817-3 (S) (local)
 WATERSHED CODE: 460967671168872
 R/P MAP # 932050 R/P # 34 FIELD UTM 9 688222 603660 673 SITE LG 100.6E ACCESS V4
 REACH # 1 D DATE 10.07.09 TIME 13:40 AGENCY COLG CREW MJ BS FISH FORM Y
 CHANNEL: 1 mhd GRADIENT % 1 EMS C COND. 100 S/cm
 CHANNEL WIDTH (m) 1.2 WETTED WIDTH (m) 1.2 RES. POOL DEPTH (m) 0.1 pH 7.5 TURB. T M L C
 W_{0.5} (m) 0.1 STAGE L M H No Vis. Ch. Dry/Int. DW FLD SWS 10 BED MATERIAL D Dominant C Subdom. G
 COVER: SWD LWD B U DP OV IV CROWN CLOSURE 0 1 2 3 4 5 DISTURBANCE INDICATORS 01 B1 B2 B3 D1 D2 D3
 Type SWD LWD B U DP OV IV DIST C E INSTREAM VEG N A M V PATTERN TM ME IM IR SI ST
 LB SHP U V S O RB SHP U V S O ISLANDS N O I F S AN
 TEXTURE F G C B R A TEXTURE F G C B R A BARS N SIDE DIAG MID SPAN BR
 RIP VEG N G S C D M W RIP VEG N G S C D M W COUPLING DC PC CO
 STAGE INIT SHR PS YF MF NA STAGE INIT SHR PS YF MF NA CONFINEMENT EN CO FC DC UN N/A
 C NID MAP # 932050 NID # 34 TYPE D HT/LG (m) 1.2/0.1 PHOTO R F COMMENTS (92) UTM

HABITAT QUALITY NFH - seepage altered by rd construction into ditch drainage, distribute activity before reading FIB creek (u 30m up stream marked marks, squishy ground w/ rd surface, water @ the southern block valley.
 FSZ
 ROLL # DIG 364 # ST DIR U COMMENTS KA book
 WILDLIFE DOCUMENTATION
 WILDLIFE OBSERVATIONS
 COMMENTS
 NCD (93)

761000593
SITE CARD
 STREAM NAME: Bk A 82817-3 (local)
 WATERSHED CODE: 460967671168872
 R/P MAP # 932050 R/P # 35 FIELD UTM 9 688222 603660 673 SITE LG 200.6E ACCESS FT
 REACH # 4 D DATE 10.07.09 TIME 15:00 AGENCY COLG CREW MJ BS FISH FORM N
 CHANNEL: 1 mhd GRADIENT % 1 EMS C COND. 100 S/cm
 CHANNEL WIDTH (m) 1.2 WETTED WIDTH (m) 1.2 RES. POOL DEPTH (m) 0.1 pH 7.5 TURB. T M L C
 W_{0.5} (m) 0.1 STAGE L M H No Vis. Ch. Dry/Int. DW FLD SWS 10 BED MATERIAL D Dominant C Subdom. G
 COVER: SWD LWD B U DP OV IV CROWN CLOSURE 0 1 2 3 4 5 DISTURBANCE INDICATORS 01 B1 B2 B3 D1 D2 D3
 Type SWD LWD B U DP OV IV DIST C E INSTREAM VEG N A M V PATTERN TM ME IM IR SI ST
 LB SHP U V S O RB SHP U V S O ISLANDS N O I F S AN
 TEXTURE F G C B R A TEXTURE F G C B R A BARS N SIDE DIAG MID SPAN BR
 RIP VEG N G S C D M W RIP VEG N G S C D M W COUPLING DC PC CO
 STAGE INIT SHR PS YF MF NA STAGE INIT SHR PS YF MF NA CONFINEMENT EN CO FC DC UN N/A
 C NID MAP # 932050 NID # 35 TYPE D HT/LG (m) 1.2/0.1 PHOTO R F COMMENTS (94) UTM

HABITAT QUALITY Good EB hap in channelized sections b/w RD's. No shab obs - mid large/G, D - suitable to one pool observed. Stream severely damaged by RD's, impeded passage to AB
 FSZ
 ROLL # DIG 367 # ST DIR X COMMENTS view of wetland
 WILDLIFE DOCUMENTATION
 WILDLIFE OBSERVATIONS
 COMMENTS
 Only one 10 m long channel b/w RD's. Everything is flooded & damaged by beavers. EB was captured in ... @ King. 7:00 am A/L.
 S3 in forest W1 in wetland
 (95)

761000593

SITE CARD

STREAM NAME (GPS) A 82647 (local) King 3

WATERSHED CODE _____

ILP MAP # 93L089 ILP # 40240 MID MAP # _____ MID # _____

REACH # 70 SITE # 38 FIELD UTM 9 667425 6082019 6P3 SITE LG 250GE ACCESS FT

DATE 20071019 08 TIME 11:20 AGENCY CO16 CREW MS BS FISH FORM D4

CHANNEL

CHANNEL WIDTH (m) 3.23 0.25 0.5 2.82 4 AL

WETTED WIDTH (m) 2.8 1.4 2.2 1.8 2.1 2.0 2.15

RES. POOL DEPTH (m) 0.6 0 0 0 0 0 3 2

W₁ Dy (m) 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2

COVER M No Vis. Ch. DW Dry/Int. Tribs.

SWD LWD B U DP OV IV CROWN CLOSURE

AMT T T T T S T D N

LOC P T P T P T P T

LB SHP U DS 0 DS 0 DS 0 DS 0

TEXTURE CG B R A CG B R A

RIP. VEG. N G C D M W N G C D M W

STAGE INIT SHR PS VF MF NA STAGE INIT SHR PS VF MF NA

C MID MAP # _____ MID # _____ TYPE _____ HT/LG (m) _____ PHOTO _____ COMMENTS _____ UTM _____

(104)

R - overall poor base for LKC, relatively fast flow, no spread
 SC, no pools, no run
 D - none - no pools
 S - usable but eggs will be washed d/s

ROLL # _____ FOC LG _____ DIR _____ COMMENTS _____

DIG 377 ST U book
 DIG 378 ST D -

GROUP _____ WILDLIFE OBSERVATIONS _____ GROUP _____ WILDLIFE OBSERVATIONS _____

C King when 9, 667442, 6082175
 Ensure adequate passage for LKC. S6

(105)

7610001315

COMBINED FISH COLLECTION

GAZETTED NAME Fulton Riv A82647 (local) King 3 LAKE STREAM WETLAND

WATERSHED CODE _____

WATERBODY ID _____ ILP MAP # 93L089 ILP # 40240 SITE/LAKE CARD ATTACHED Y N

PROJECT ID _____ REACH # 7 FISH PERMIT # SM07-35801

DATE 20071019 08 to _____ AGENCY CO16 CREW MS BS RE-SAMPLE

SITE / METHOD

SITE # 38 MID MAP # _____ MID # _____ SITE UTM 9 667425 6082019 6P3 MTD / NO. EF1 STREAM CONDITION 9 50 L COMMENTS _____

FISH SUMMARY

SITE #	MTD #	H/P	SPECIES	STAGE	AGE	TOTAL	MIN LENGTH	MAX LENGTH	FISH ACT	COMMENTS
38	EF1	1	LKC	J		9	54	117	2	

NET / TRAP SPECIFICATIONS

C	SITE #	MTD #	HAUL	DATE IN	TIME IN	DATE OUT	TIME OUT	NET TYPE	LENGTH	DEPTH	SCREEN SIZE	SET	HAR.

(106)

C	SITE #	MTD #	PASS	TIME IN	TIME OUT	EF SEC.	LENGTH	WIDTH	ENCL.	VOLUME	PREL.	FIELD	MAKE	MODEL
	38	EF1	1	1120	1165	384	200	2	3	800	80	6	SR	128

C	SITE #	MTD #	H/P	SPEC	LENGTH	WEIGHT	SEX	MATURE	STRUCTURE	AGE SAMPLE #	AGE	VOUCHER #	GENETIC STRUCTURE SAMPLE #	COMMENTS	PHOTO
	38	EF1	1	LKC	61										R_ F_
					117										R_ F_
					54										R_ F_
					59										R_ F_
					98										R_ F_
					111										R_ F_
					58										R_ F_
					62										R_ F_
					63										R_ F_

(107)

761000593

SITE CARD

STREAM NAME (GPS) Fulton Riv A82647 (local) King 2

WATERSHED CODE _____

ILP MAP # 93L089 ILP # 40244 MID MAP # _____ MID # _____

REACH # 20 SITE # 39 FIELD UTM 9 667425 6082019 6P3 SITE LG 200165 ACCESS FT

DATE 20071019 08 TIME 12:25 AGENCY CO16 CREW MS BS FISH FORM Y (D)

CHANNEL

CHANNEL WIDTH (m) MS 0.6 0.7 0.4 0.6 0.5 AL

WETTED WIDTH (m) MS 0.3 0.5 0.4 0.4 0.2 4 2

RES. POOL DEPTH (m) MS 0.0 0.0 0.0 0.0 0.0 0 0

W₁ Dy (m) 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2

COVER M No Vis. Ch. DW Dry/Int. Tribs.

SWD LWD B U DP OV IV CROWN CLOSURE

AMT T T T T S T D N

LOC P T P T P T P T

LB SHP U DS 0 DS 0 DS 0 DS 0

TEXTURE CG B R A CG B R A

RIP. VEG. N G C D M W N G C D M W

STAGE INIT SHR PS VF MF NA STAGE INIT SHR PS VF MF NA

C MID MAP # _____ MID # _____ TYPE _____ HT/LG (m) _____ PHOTO _____ COMMENTS _____ UTM _____

(108)

NFH - tiny & isolated stream, seeps through ground, holes reaching parent stream, inaccessible to LKC and to identifiable LKC habitat anyway

ROLL # _____ FOC LG _____ DIR _____ COMMENTS _____

DIG 379 ST D Bed - NCD fashion
 DIG 380 ST U ker - stream fashion

GROUP _____ WILDLIFE OBSERVATIONS _____ GROUP _____ WILDLIFE OBSERVATIONS _____

C King 9, 667632, 6082002
 Becomes NCD @ 9, 667599, 6081921
 Burdenice stream u/s of road. NCD/S6

(109)

761000593

SITE CARD

STREAM NAME (GPS) Black A82621-2 (local) called AC

WATERSHED CODE _____

ILP MAP # 93L089 ILP # 40240 MID MAP # _____ MID # _____

REACH # 20 SITE # 40 FIELD UTM 9 678942 6083661P3 SITE LG 4090 ACCESS F

DATE 20071019 09 TIME 11:10 AGENCY CO16 CREW MS BS FISH FORM Y (D)

CHANNEL

CHANNEL WIDTH (m) 0.8

WETTED WIDTH (m) 0.8

RES. POOL DEPTH (m) _____

W₁ Dy (m) _____

COVER M No Vis. Ch. DW Dry/Int. Tribs.

SWD LWD B U DP OV IV CROWN CLOSURE

AMT _____

LOC _____

LB SHP U DS 0 DS 0 DS 0 DS 0

TEXTURE F G C B R A F G C B R A

RIP. VEG. N G C D M W N G C D M W

STAGE INIT SHR PS VF MF NA STAGE INIT SHR PS VF MF NA

C MID MAP # _____ MID # _____ TYPE _____ HT/LG (m) _____ PHOTO _____ COMMENTS _____ UTM _____

(110)

NFH - requires rough swampy area over channel bed, fluvial deposits, just heavy trickle spreading up to 2.5 m in places, overlaid flow or stagnation & disconnected pools

ROLL # _____ FOC LG _____ DIR _____ COMMENTS _____

DIG 385 ST U Book
 DIG 386 ST D Book
 DIG 387 ST D Book NCD section

GROUP _____ WILDLIFE OBSERVATIONS _____ GROUP _____ WILDLIFE OBSERVATIONS _____

C MS-018
 Becomes NCD @ site UTM. S6/NCD

(111)

7610000593
SITE CARD
 STREAM NAME: Block A8221-2 (loc) str AB
 WATERSHED CODE: 4601849271123894
 R/P MAP # 48000 R/P # 48000 MID MAP # 150 66 MID # 150 66
 REACH # 1 D SITE # 41 FIELD USE # 9 679200 AGENCY CO16 CREW MJ, BS ACCESS F
 DATE: 20070909 TIME: 11:40 AGENCY CO16 CREW MJ, BS FISH FORM # Y 30

CHANNEL: mbd GRADIENT % EMS REID #
 CHANNEL WIDTH (in) TEMP COND S/cm
 WETTED WIDTH (in) pH TURB T M L C
 RES. POOL DEPTH (in) FLD SNS

COVER: STAGE: L M H No Vis. Ch. Dry/Int.
 Type: SWD LWD B U DP OV IV CROWN CLOSURE DISTURBANCE INDICATORS
 AMT: LOC: DISTURBANCE INDICATORS: O1 B1 B2 B3 D1 D2 D3
 C1 C2 C3 C4 C5 S1 S2 S3 S4 S5

COVER: LWD FNC N F A DIST C E INSTREAM VEG N A M V PATTERN TM ME IM IR SI ST
 LB SHP U V S O RB SHP U V S O ISLANDS N O I F S AN
 TEXTURE F G C B R A TEXTURE F G C B R A BARS N SIDE DIAG MID SPAN BR
 RIP VEG N G S C D M W RIP VEG N G S C D M W COUPLING DC PC CO
 STAGE INIT SHR PS YF MF NA STAGE INIT SHR PS YF MF NA CONFINEMENT EN CO FC OC UN N/A

FEATURES: C MID MAP # MID # TYPE HT/LG (in) PHOTO COMMENTS UTM

(112)

NFH - moist well (1.5m wide) vegetated by huckleberries, some isolated "moss" patches, no flowing, no row, not a stream

ROLL # F FCLD DIR COMMENTS
 DIG 388 ST D no scale

GROUP WILDLIFE OBSERVATIONS GROUP WILDLIFE OBSERVATIONS

C C

NCD (113)

7610000593
SITE CARD
 STREAM NAME: Block A8221-2 (loc) str AA
 WATERSHED CODE: 4601849271118261
 R/P MAP # 48000 R/P # 48000 MID MAP # 150 0 MID # 150 0
 REACH # 1 D SITE # 43 FIELD USE # 9 679203 AGENCY CO16 CREW MJ, BS ACCESS FT
 DATE: 20070909 TIME: 11:55 AGENCY CO16 CREW MJ, BS FISH FORM # Y 30

CHANNEL: mbd GRADIENT % EMS REID #
 CHANNEL WIDTH (in) TEMP COND S/cm
 WETTED WIDTH (in) pH TURB T M L C
 RES. POOL DEPTH (in) FLD SNS

COVER: STAGE: L M H No Vis. Ch. Dry/Int.
 Type: SWD LWD B U DP OV IV CROWN CLOSURE DISTURBANCE INDICATORS
 AMT: LOC: DISTURBANCE INDICATORS: O1 B1 B2 B3 D1 D2 D3
 C1 C2 C3 C4 C5 S1 S2 S3 S4 S5

COVER: LWD FNC N F A DIST C E INSTREAM VEG N A M V PATTERN TM ME IM IR SI ST
 LB SHP U V S O RB SHP U V S O ISLANDS N O I F S AN
 TEXTURE F G C B R A TEXTURE F G C B R A BARS N SIDE DIAG MID SPAN BR
 RIP VEG N G S C D M W RIP VEG N G S C D M W COUPLING DC PC CO
 STAGE INIT SHR PS YF MF NA STAGE INIT SHR PS YF MF NA CONFINEMENT EN CO FC OC UN N/A

FEATURES: C MID MAP # MID # TYPE HT/LG (in) PHOTO COMMENTS UTM

(114)

NFH - Drainage in a mixture of both channelized sections, underlain flow & overland flow, seasonal channel intermittent, fluxion discontinuous, flows through small gully @ 5-7% gradient, drains to NFB stream

ROLL # F FCLD DIR COMMENTS
 DIG 389 ST BD beak
 DIG 390 ST D beak

GROUP WILDLIFE OBSERVATIONS GROUP WILDLIFE OBSERVATIONS

C C

NCD (115)

7610000593
SITE CARD
 STREAM NAME: Block A8221-1 (loc) str AD
 WATERSHED CODE: 4601849271118261
 R/P MAP # 48000 R/P # 48000 MID MAP # 100 66 MID # 100 66
 REACH # 2 D SITE # 43 FIELD USE # 9 678450 AGENCY CO16 CREW MJ, BS ACCESS FT
 DATE: 20071009 TIME: 1:30P AGENCY CO16 CREW MJ, BS FISH FORM # Y 30

CHANNEL: mbd GRADIENT % EMS REID #
 CHANNEL WIDTH (in) TEMP COND S/cm
 WETTED WIDTH (in) pH TURB T M L C
 RES. POOL DEPTH (in) FLD SNS

COVER: STAGE: L M H No Vis. Ch. Dry/Int.
 Type: SWD LWD B U DP OV IV CROWN CLOSURE DISTURBANCE INDICATORS
 AMT: LOC: DISTURBANCE INDICATORS: O1 B1 B2 B3 D1 D2 D3
 C1 C2 C3 C4 C5 S1 S2 S3 S4 S5

COVER: LWD FNC N F A DIST C E INSTREAM VEG N A M V PATTERN TM ME IM IR SI ST
 LB SHP U V S O RB SHP U V S O ISLANDS N O I F S AN
 TEXTURE F G C B R A TEXTURE F G C B R A BARS N SIDE DIAG MID SPAN BR
 RIP VEG N G S C D M W RIP VEG N G S C D M W COUPLING DC PC CO
 STAGE INIT SHR PS YF MF NA STAGE INIT SHR PS YF MF NA CONFINEMENT EN CO FC OC UN N/A

FEATURES: C MID MAP # MID # TYPE HT/LG (in) PHOTO COMMENTS UTM

(116)

NCD? - No drainage present however noted slope begins to fail w/ul cabinetment area -> indicates more moisture, cracks noted in several locations

ROLL # F FCLD DIR COMMENTS
 DIG 387 ST X
 DIG 392 ST X

GROUP WILDLIFE OBSERVATIONS GROUP WILDLIFE OBSERVATIONS

C C

NCD (117)

7610000593
SITE CARD
 STREAM NAME: McLean Area (loc) Cr W A 81443
 WATERSHED CODE: 4601849271118261
 R/P MAP # 932048 R/P # 48000 MID MAP # 150 66 MID # 150 66
 REACH # 1 D SITE # 44 FIELD USE # 9 658137 AGENCY CO16 CREW MJ, BS ACCESS FT
 DATE: 20070909 TIME: 1:12:0 AGENCY CO16 CREW MJ, BS FISH FORM # Y 30

CHANNEL: mbd GRADIENT % EMS REID #
 CHANNEL WIDTH (in) TEMP COND S/cm
 WETTED WIDTH (in) pH TURB T M L C
 RES. POOL DEPTH (in) FLD SNS

COVER: STAGE: L M H No Vis. Ch. Dry/Int.
 Type: SWD LWD B U DP OV IV CROWN CLOSURE DISTURBANCE INDICATORS
 AMT: LOC: DISTURBANCE INDICATORS: O1 B1 B2 B3 D1 D2 D3
 C1 C2 C3 C4 C5 S1 S2 S3 S4 S5

COVER: LWD FNC N F A DIST C E INSTREAM VEG N A M V PATTERN TM ME IM IR SI ST
 LB SHP U V S O RB SHP U V S O ISLANDS N O I F S AN
 TEXTURE F G C B R A TEXTURE F G C B R A BARS N SIDE DIAG MID SPAN BR
 RIP VEG N G S C D M W RIP VEG N G S C D M W COUPLING DC PC CO
 STAGE INIT SHR PS YF MF NA STAGE INIT SHR PS YF MF NA CONFINEMENT EN CO FC OC UN N/A

FEATURES: C MID MAP # MID # TYPE HT/LG (in) PHOTO COMMENTS UTM

(118)

NFH

ROLL # F FCLD DIR COMMENTS
 DIG 394 ST X Noisier blurry

GROUP WILDLIFE OBSERVATIONS GROUP WILDLIFE OBSERVATIONS

C C

Seepage through swampy area isolated mud puddles, no rowed channel, no flowing

NCD (119)

761000593
SITE CARD
 STREAM NAME: BLK A 76129
 WATERSHED CODE: 932009
 R.P. MAP # 3129
 REACH # 2 D
 DATE: 20070910
 TIME: 12:40
 AGENCY: CO16
 CREW: MJ, BS
 CHANNEL: M2 0.8 0.5 0.5 0.7 0.7 0.6
 WETTED WIDTH: M3 0.8 0.5 0.5 0.6 0.4 0.5
 R.P. POOL DEPTH: M4 0.0 0.0 0.0 0.0 0.0 0.0
 CHANNEL WIDTH: 8 FT
 GRADIENT: 4%
 EMB: 8 CTS
 COND: 80 S/cm
 pH: 7.5
 TURB: T M L C
 FLD SNS: None
 BED MATERIAL: Dominant: F Subdom: G
 DBS (cm): 10
 D (cm): 4
 Morph: CP
 DISTURBANCE INDICATORS: 01 B1 B2 B3 D1 D2 D3
 C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
 PATTERN: TM ME IM IR ST
 ISLANDS: 0 I F S AN
 BARS: 0 SIDE DIAG MID SPAN BR
 COUPLING: DC PC CD
 CONFINEMENT: EN FC OC UN N/A
 COVER: SWD LWD B U DP OV IV
 AMT: P T N P T S N
 LOC: P T N P T S N
 CROWN CLOSURE: 0 1 2 3 4 5
 INSTREAM VEG: 0 A M V
 LB SHP: U V S O
 RB SHP: U V S O
 TEXTURE: 0 G C B R A
 RIP VEG: N G S C D M W
 STAGE: INIT SHR PS YF MF NA
 PHOTO: R F
 COMMENTS: (126)

WPH - Tim, shallow creek with no riparian cover to support fish. No sufficient depth or cover to conduct any meaningful sampling.

ROLL #	#	FOCUS	DIR	COMMENTS
D16	401	ST	U	book
D16	402	ST	D	book

GROUP: WILDLIFE OBSERVATIONS

C WB = 0.15, 0.17, 0.15, 0.14, 0.11, 0.12

56 (127)

761000593
SITE CARD
 STREAM NAME: BLK A 76129
 WATERSHED CODE: 932009
 R.P. MAP # 4501
 REACH # 1 D
 DATE: 20070910
 TIME: 13:05
 AGENCY: CO16
 CREW: MJ, BS
 CHANNEL: M5 0.6 0.3 0.4 0.3 0.7 0.5
 WETTED WIDTH: M5 0.4 0.3 0.2 0.2 0.5 0.3
 R.P. POOL DEPTH: M4 0.0 0.0 0.0 0.0 0.0 0.0
 CHANNEL WIDTH: 13 FT
 GRADIENT: 8%
 EMB: 8 CTS
 COND: 80 S/cm
 pH: 7.5
 TURB: T M L C
 FLD SNS: None
 BED MATERIAL: Dominant: C Subdom: F
 DBS (cm): 14
 D (cm): 3
 Morph: CP
 DISTURBANCE INDICATORS: 01 B1 B2 B3 D1 D2 D3
 C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
 PATTERN: TM ME IM IR ST
 ISLANDS: 0 I F S AN
 BARS: 0 SIDE DIAG MID SPAN BR
 COUPLING: DC PC CD
 CONFINEMENT: EN FC OC UN N/A
 COVER: SWD LWD B U DP OV IV
 AMT: P T N P T S N
 LOC: P T N P T S N
 CROWN CLOSURE: 0 1 2 3 4 5
 INSTREAM VEG: 0 A M V
 LB SHP: U V S O
 RB SHP: U V S O
 TEXTURE: 0 G C B R A
 RIP VEG: N G S C D M W
 STAGE: INIT SHR PS YF MF NA
 PHOTO: R F
 COMMENTS: 128

Tim, little shallow discharges @ site with WPH, no connection to any fish stream, to small to support any fish population anyway.

ROLL #	#	FOCUS	DIR	COMMENTS
D16	405	ST	U	Book
D16	406	ST	D	Book

GROUP: WILDLIFE OBSERVATIONS

C WB = 0.09, 0.15, 0.11, 0.09, 0.16, 0.12
 Stream may flow into
 1 catch as bottom cover
 GPS'd 005-023

56 129

761000593
SITE CARD
 STREAM NAME: BLK A 76129
 WATERSHED CODE: 932009
 R.P. MAP # 4502
 REACH # 1 D
 DATE: 20070910
 TIME: 14:50
 AGENCY: CO16
 CREW: MJ, BS
 CHANNEL: M5 0.6 0.3 0.4 0.3 0.7 0.5
 WETTED WIDTH: M5 0.4 0.3 0.2 0.2 0.5 0.3
 R.P. POOL DEPTH: M4 0.0 0.0 0.0 0.0 0.0 0.0
 CHANNEL WIDTH: 13 FT
 GRADIENT: 8%
 EMB: 8 CTS
 COND: 80 S/cm
 pH: 7.5
 TURB: T M L C
 FLD SNS: None
 BED MATERIAL: Dominant: C Subdom: F
 DBS (cm): 14
 D (cm): 3
 Morph: CP
 DISTURBANCE INDICATORS: 01 B1 B2 B3 D1 D2 D3
 C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
 PATTERN: TM ME IM IR ST
 ISLANDS: 0 I F S AN
 BARS: 0 SIDE DIAG MID SPAN BR
 COUPLING: DC PC CD
 CONFINEMENT: EN FC OC UN N/A
 COVER: SWD LWD B U DP OV IV
 AMT: P T N P T S N
 LOC: P T N P T S N
 CROWN CLOSURE: 0 1 2 3 4 5
 INSTREAM VEG: 0 A M V
 LB SHP: U V S O
 RB SHP: U V S O
 TEXTURE: 0 G C B R A
 RIP VEG: N G S C D M W
 STAGE: INIT SHR PS YF MF NA
 PHOTO: R F
 COMMENTS: 130

WPH - seepage watershed for 60m channel discontinuous and flowing as well, dry gully in a 50% slope section and nothing beyond.

ROLL #	#	FOCUS	DIR	COMMENTS
D16	407	ST	U	Book

GROUP: WILDLIFE OBSERVATIONS

C WB
 Stream discharges @ site with WPH
 GPS'd 014-028

NCD 131

761000593
SITE CARD
 STREAM NAME: BLK A 76129
 WATERSHED CODE: 932009
 R.P. MAP # 27500
 REACH # 1 D
 DATE: 20070910
 TIME: 15:30
 AGENCY: CO16
 CREW: MJ, BS
 CHANNEL: M5 0.9 0.7 0.9 0.8 0.9 0.7
 WETTED WIDTH: M5 0.5 0.4 0.5 0.4 0.5
 R.P. POOL DEPTH: M5 0.0 0.0 0.0 0.0 0.0
 CHANNEL WIDTH: 13 FT
 GRADIENT: 4%
 EMB: 10 CTS
 COND: 80 S/cm
 pH: 7.5
 TURB: T M L C
 FLD SNS: None
 BED MATERIAL: Dominant: F Subdom: N/A
 DBS (cm): 0.1
 D (cm): 0.1
 Morph: LC
 DISTURBANCE INDICATORS: 01 B1 B2 B3 D1 D2 D3
 C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
 PATTERN: TM ME IM IR ST
 ISLANDS: 0 I F S AN
 BARS: 0 SIDE DIAG MID SPAN BR
 COUPLING: DC PC CD
 CONFINEMENT: EN FC OC UN N/A
 COVER: SWD LWD B U DP OV IV
 AMT: S N N N T P N
 LOC: S N N N T P N
 CROWN CLOSURE: 0 1 2 3 4 5
 INSTREAM VEG: 0 A M V
 LB SHP: U V S O
 RB SHP: U V S O
 TEXTURE: 0 G C B R A
 RIP VEG: N G S C D M W
 STAGE: INIT SHR PS YF MF NA
 PHOTO: R F
 COMMENTS: 132

WPH - King of Mucks creek, somewhat full of small sticks up S or D may, with conducive to fish seasonal use.

ROLL #	#	FOCUS	DIR	COMMENTS
D16	408	ST	U	Book
D16	409	ST	D	Book

GROUP: WILDLIFE OBSERVATIONS

C WB = 0.22, 0.25, 0.17, 0.12, 0.2, 0.23

56 133

781000593
SITE CARD
 STREAM NAME (pals) Blk A82646 (local)
 WATERSHED CODE
 R/P MAP # 093E085 R/P # 62173 MID MAP #
 REACH # 10 SITE # 57 FIELD UTM 9,630440,596464693 SITE LG 100,6E ACCESS FT
 DATE 20070911 TIME 11:45 AGENCY CO16 CREW MJ, BJ HIGH FORM Y
 CHANNEL (mtd) GRADIENT % EMS REG #
 CHANNEL WIDTH (m) TEMP C COND S/cm WATER
 WETTED WIDTH (m) pH TURB T M L C
 RES. POOL DEPTH (m) FLD SNS
 W₁ D₁ (m) STAGE L M H No Vis. Cl. Dry/Int. Trib. Bed Material Dominant Subdom.
 COVER Type SWD LWD B U DP OV IV CROWN CLOSURE DBS (cm) G (cm) Morph.
 AMT LOC 0 1 2 3 4 5 DISTURBANCE INDICATORS O1 B1 B2 B3 D1 D2 D3
 C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
 LWD FNC N A DIST C E INSTREAM VEG N A M V PATTERN TM ME IM IR SI ST
 LB SHP U V S O RB SHP U V S O ISLANDS N O I F S AN
 TEXTURE F G C B R A TEXTURE F G C B R A BARS N SIDE DIAG MID SPAN BR
 RIP VEG N G S C D M W RIP VEG N G S C D M W COUPLING DC PC CO
 STAGE INIT SHR PS YF MF NA STAGE INIT SHR PS YF MF NA CONFINEMENT EN CD FC OC UN N/A
 FEATURES C MID MAP # MID # TYPE HT / LG (m) PHOTO COMMENTS UTM
 R F
 R F
 R F
 R F

Barley seepage, must make union joins wetland @ with water. No fluxion, sear or continuity.

ROLL #	#	FOCAL	DIR	COMMENTS
DIG	415	CT	U	No scale

GROUP WILDLIFE OBSERVATIONS GROUP WILDLIFE OBSERVATIONS

C

seepage begins @ HTH. 9.630372, 5966458

NCD

143

781000593
SITE CARD
 STREAM NAME (pals) Blk A82646 (local)
 WATERSHED CODE
 R/P MAP # 20 R/P # 62180 MID MAP #
 REACH # 58 SITE # 58 FIELD UTM 9,631338,5966351,693 SITE LG 100,0 ACCESS FT
 DATE 20070911 TIME 12:15 AGENCY CO16 CREW MJ, BJ HIGH FORM Y
 CHANNEL (mtd) GRADIENT % EMS REG #
 CHANNEL WIDTH (m) TEMP C COND S/cm WATER
 WETTED WIDTH (m) pH TURB T M L C
 RES. POOL DEPTH (m) FLD SNS
 W₁ D₁ (m) STAGE L M H No Vis. Cl. Dry/Int. Trib. Bed Material Dominant Subdom.
 COVER Type SWD LWD B U DP OV IV CROWN CLOSURE DBS (cm) G (cm) Morph.
 AMT LOC 0 1 2 3 4 5 DISTURBANCE INDICATORS O1 B1 B2 B3 D1 D2 D3
 C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
 LWD FNC N A DIST C E INSTREAM VEG N A M V PATTERN TM ME IM IR SI ST
 LB SHP U V S O RB SHP U V S O ISLANDS N O I F S AN
 TEXTURE F G C B R A TEXTURE F G C B R A BARS N SIDE DIAG MID SPAN BR
 RIP VEG N G S C D M W RIP VEG N G S C D M W COUPLING DC PC CO
 STAGE INIT SHR PS YF MF NA STAGE INIT SHR PS YF MF NA CONFINEMENT EN CD FC OC UN N/A
 FEATURES C MID MAP # MID # TYPE HT / LG (m) PHOTO COMMENTS UTM
 R F
 R F
 R F
 R F

NEH - seepage with dry & isolated mud puddle, no continuity, sear & short several sections, no fluxion.

ROLL #	#	FOCAL	DIR	COMMENTS
DIG	416	CT	U	dog

GROUP WILDLIFE OBSERVATIONS GROUP WILDLIFE OBSERVATIONS

C

NCD

145

781000593
SITE CARD
 STREAM NAME (pals) A82646 (local)
 WATERSHED CODE
 R/P MAP # 93E085 R/P # 62179 MID MAP #
 REACH # 20 SITE # 59 FIELD UTM 9,631237,596428698 SITE LG 100,0 ACCESS FT
 DATE 20070911 TIME 12:25 AGENCY CO16 CREW MJ, BJ HIGH FORM Y
 CHANNEL (mtd) GRADIENT % EMS REG #
 CHANNEL WIDTH (m) TEMP C COND S/cm WATER
 WETTED WIDTH (m) pH TURB T M L C
 RES. POOL DEPTH (m) FLD SNS
 W₁ D₁ (m) STAGE L M H No Vis. Cl. Dry/Int. Trib. Bed Material Dominant Subdom.
 COVER Type SWD LWD B U DP OV IV CROWN CLOSURE DBS (cm) G (cm) Morph.
 AMT LOC 0 1 2 3 4 5 DISTURBANCE INDICATORS O1 B1 B2 B3 D1 D2 D3
 C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
 LWD FNC N A DIST C E INSTREAM VEG N A M V PATTERN TM ME IM IR SI ST
 LB SHP U V S O RB SHP U V S O ISLANDS N O I F S AN
 TEXTURE F G C B R A TEXTURE F G C B R A BARS N SIDE DIAG MID SPAN BR
 RIP VEG N G S C D M W RIP VEG N G S C D M W COUPLING DC PC CO
 STAGE INIT SHR PS YF MF NA STAGE INIT SHR PS YF MF NA CONFINEMENT EN CD FC OC UN N/A
 FEATURES C MID MAP # MID # TYPE HT / LG (m) PHOTO COMMENTS UTM
 R F
 R F
 R F
 R F

NEH - seepage with some sides of meadow runoff generally, seepage ground with some isolated puddles of water. No fluxion or sear observed.

ROLL #	#	FOCAL	DIR	COMMENTS
DIG	417	ST	U	Book

GROUP WILDLIFE OBSERVATIONS GROUP WILDLIFE OBSERVATIONS

C

NCD

147

781000593
SITE CARD
 STREAM NAME (pals) A82646 (local)
 WATERSHED CODE
 R/P MAP # 93E085 R/P # 62179 MID MAP #
 REACH # 40 SITE # 60 FIELD UTM 9,631138,596420693 SITE LG 100,6E ACCESS FT
 DATE 20070911 TIME 12:45 AGENCY CO16 CREW MJ, BJ HIGH FORM Y
 CHANNEL (mtd) GRADIENT % EMS REG #
 CHANNEL WIDTH (m) TEMP C COND S/cm WATER
 WETTED WIDTH (m) pH TURB T M L C
 RES. POOL DEPTH (m) FLD SNS
 W₁ D₁ (m) STAGE L M H No Vis. Cl. Dry/Int. Trib. Bed Material Dominant Subdom.
 COVER Type SWD LWD B U DP OV IV CROWN CLOSURE DBS (cm) G (cm) Morph.
 AMT LOC 0 1 2 3 4 5 DISTURBANCE INDICATORS O1 B1 B2 B3 D1 D2 D3
 C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
 LWD FNC N A DIST C E INSTREAM VEG N A M V PATTERN TM ME IM IR SI ST
 LB SHP U V S O RB SHP U V S O ISLANDS N O I F S AN
 TEXTURE F G C B R A TEXTURE F G C B R A BARS N SIDE DIAG MID SPAN BR
 RIP VEG N G S C D M W RIP VEG N G S C D M W COUPLING DC PC CO
 STAGE INIT SHR PS YF MF NA STAGE INIT SHR PS YF MF NA CONFINEMENT EN CD FC OC UN N/A
 FEATURES C MID MAP # MID # TYPE HT / LG (m) PHOTO COMMENTS UTM
 R F
 R F
 R F
 R F

NEH - seepage with water collected in small of cluster pond signs of runoff in & out of pond. No sear or fluxion, just moist area vegetated by meadow.

ROLL #	#	FOCAL	DIR	COMMENTS
DIG	418	ST	U	No scale

GROUP WILDLIFE OBSERVATIONS GROUP WILDLIFE OBSERVATIONS

C

NCD

149

7610000593
SITE CARD
 STREAM NAME: (local) A 82646
 WATERSHED CODE: 93E085
 R/P MAP: 62187
 REACH: 1 D
 DATE: 20070911 TIME: 1415 AGENCY: CO16 CREW: MJ, BS
 CHANNEL: (inlet) GRADIENT %: 11
 CHANNEL WIDTH (m): T 10.0, 1.0, 1.3, 1.2, 1.3
 WETTED WIDTH (m): T 0.0, 1.1, 0.0, 0.6, 0
 RES. POOL DEPTH (m): M 0.33, 0.12, 0.17, 0.20, 0.21, 0.38
 W, Dp (m): 0.2, 0.2, 0.2, 0.2
 COVER: LWD FNC: N A DIST: C D
 DISTURBANCE INDICATORS: 01 B1 B2 B3 D1 D2 D3
 PATTERN: TM ME IM IR S1 ST
 ISLANDS: N D I F S AN
 BARS: N SIDE DIAG MID SPAN BR
 COUPLING: DC PC CO
 CONFINEMENT: EN CO FC OC UN N/A
 COMMENTS: No Vis. Ch. DW
 UTM: 150

UFH - drainage carries significant amount of water during spring runoff. However, scoured channel bed & fluvial substrate discontinuities w/ the surveyed length. Isolated pools within scoured areas still watered into drainage disperse before reaching present stream.

ROLL #	F	FOC LG	DIR	COMMENTS
DIG 419	ST	U		book
DIG 420	ST	D		book

GROUP	WILDLIFE OBSERVATIONS	GROUP	WILDLIFE OBSERVATIONS
C		C	
EPO UTM 9.630937, 596711.3			
Not a stream as per defn - within			

NCD 151

760001315
COMBINED FISH COLLECTION
 GAZETTED NAME: A 82646 (local) LAKE STREAM WETLAND
 WATERSHED CODE: 93E085
 R/P MAP: 62184
 REACH: 1
 DATE: 20071011 TIME: 1450 AGENCY: CO16 CREW: MJ, BS
 FISH PERMIT #: 34707-35801
 SITE # MTD # H/P SPECIES STAGE AGE TOTAL MIN LENGTH MAX LENGTH FISH ACT COMMENTS
 62 EF1 1 1 NEC 10
 NET/TRAP SPECIFICATIONS
 C SITE # MTD # HAUL DATE IN TIME IN DATE OUT TIME OUT NET TYPE LENGTH DEPTH MESH SIZE SET HAD
 UTM: 154

SITE #	MTD #	PASS	TIME IN	TIME OUT	EF SEC	LENGTH	WIDTH	ENCL	VOLTAGE	FREQ	PULSE	MAKE	MODEL
62	EF1	1	1450	1510	178	300	0.7	0	700	50	6	SR	12B

SITE #	MTD #	H/P	SPEC	LENGTH	WEIGHT	SEX	MATUR	STRUCTURE	AGE SAMPLE #	AGE	VOUCHER #	GENETIC STRUCTURE SAMPLE #	COMMENTS	PHOTO
														R_F
														R_F
														R_F
														R_F
														R_F
														R_F
														R_F
														R_F
														R_F
														R_F

7610000593
SITE CARD
 STREAM NAME: (local) A 82646
 WATERSHED CODE: 93E085
 R/P MAP: 62184
 REACH: 1 D
 DATE: 20071011 TIME: 1450 AGENCY: CO16 CREW: MJ, BS
 CHANNEL: (inlet) GRADIENT %: 11
 CHANNEL WIDTH (m): T 10.0, 1.0, 1.3, 1.2, 1.3
 WETTED WIDTH (m): T 0.0, 1.1, 0.0, 0.6, 0
 RES. POOL DEPTH (m): M 0.33, 0.12, 0.17, 0.20, 0.21, 0.38
 W, Dp (m): 0.2, 0.2, 0.2, 0.2
 COVER: LWD FNC: N A DIST: C D
 DISTURBANCE INDICATORS: 01 B1 B2 B3 D1 D2 D3
 PATTERN: TM ME IM IR S1 ST
 ISLANDS: N D I F S AN
 BARS: N SIDE DIAG MID SPAN BR
 COUPLING: DC PC CO
 CONFINEMENT: EN CO FC OC UN N/A
 COMMENTS: No Vis. Ch. DW
 UTM: 152

Seasonal stream with potential refuge hole within 12m from parent stream. Stream although still has water in many pools was not populated by BS during this year wet summer and what indicates stream is featureless permanently. No D or S hole.

ROLL #	F	FOC LG	DIR	COMMENTS
D16 423	ST	U		Book
D16 424	ST	D		Book

GROUP	WILDLIFE OBSERVATIONS	GROUP	WILDLIFE OBSERVATIONS
C		C	
WB: 0.25, 0.17, 0.16, 0.36, 0.22, 0.19			
Second sampling (SKE 2000) - RFC			

56 153

7610000593
SITE CARD
 STREAM NAME: (local) A 82646
 WATERSHED CODE: 93E085
 R/P MAP: 62169
 REACH: 2 D
 DATE: 20071011 TIME: 1545 AGENCY: CO16 CREW: MJ, BS
 CHANNEL: (inlet) GRADIENT %: 12
 CHANNEL WIDTH (m): T 2.9, 2.3, 3.8, 2.0, 2.7, 9.3
 WETTED WIDTH (m): T 1.7, 0.9, 1.4, 1.0, 1.3, 1.1
 RES. POOL DEPTH (m): M 0.54, 0.19, 0.36, 0.17, 0.10
 W, Dp (m): 0.4, 0.4, 0.5, 0.5
 COVER: LWD FNC: N A DIST: C D
 DISTURBANCE INDICATORS: 01 B1 B2 B3 D1 D2 D3
 PATTERN: TM ME IM IR S1 ST
 ISLANDS: N D I F S AN
 BARS: N SIDE DIAG MID SPAN BR
 COUPLING: DC PC CO
 CONFINEMENT: EN CO FC OC UN N/A
 COMMENTS: No Vis. Ch. DW
 UTM: 156

D - excellent - many deep pools, 15V, not too fast flow
 S - good - many bays & uniform gravel patches, good bedding & flow
 D - some pools seem to be suitable -> G oval

ROLL #	F	FOC LG	DIR	COMMENTS
DIG 425	ST	U		Book
DIG 426	ST	D		Lx -

GROUP	WILDLIFE OBSERVATIONS	GROUP	WILDLIFE OBSERVATIONS
C		C	
WR: 0.46, 0.47, 0.38, 0.45, 0.43, 0.46			
RP: fairly abundant			

53 157

761000515
COMBINED FISH COLLECTION
 GAZETTED NAME: A 82446 (local) LAKE STREAM WETLAND
 WATERSHED CODE: _____
 WATERBODY ID: _____
 PROJECT ID: _____
 DATE: 2/07/09 11:17 to _____ AGENCY: CO16 CREW: MS, BS RE-SAMPLE
 ILP MAP # 93E085 ILP # 62169 SITE/LAKE CARD ATTACHED Y N
 REACH # 2 FISH PERMIT # SMD7-35801
 DATE: 2/07/09 11:17 to _____ AGENCY: CO16 CREW: MS, BS RE-SAMPLE
 SITE # 63 MTD # EF1 H/P 1 SPEC RB LENGTH 49 WEIGHT 49 SEX M SEX MATURE _____ AGE 49 VOUCHER # _____ GENETIC STRUCTURE _____ COMMENTS R-F
 SITE # 63 MTD # EF1 H/P 1 SPEC RB LENGTH 49 WEIGHT 49 SEX M SEX MATURE _____ AGE 49 VOUCHER # _____ GENETIC STRUCTURE _____ COMMENTS R-F
 SITE # 63 MTD # EF1 H/P 1 SPEC RB LENGTH 49 WEIGHT 49 SEX M SEX MATURE _____ AGE 49 VOUCHER # _____ GENETIC STRUCTURE _____ COMMENTS R-F
 NET / TRAP SPECIFICATIONS
 C SITE # MTD # HAUL DATE IN TIME IN DATE OUT TIME OUT NET TYPE LENGTH DEPTH MESH SIZE SET HAD
 158

SITE #	MTD #	H/P	SPEC	LENGTH	WEIGHT	SEX	MATURE	AGE	VOUCHER #	GENETIC STRUCTURE	COMMENTS	PHOTO
63	EF1	1	RB	49	49	M		49			R-F	
			RB	49	49	M		49			R-F	
			RB	49	49	M		49			R-F	
			RB	51	51	M		51			R-F	

761000593
SITE CARD
 STREAM NAME: Bk + 481501 (local)
 WATERSHED CODE: _____
 ILP MAP # 93E085 ILP # 62169 SITE/LAKE CARD ATTACHED Y N
 REACH # 1 D SITE # 64 FIELD UTM 9.633060, 5968177693 SITE LR 100.66 ACCESS FT
 DATE: 2/07/09 11:17 TIME 17:00 AGENCY: CO16 CREW: MJ, BS FISH FORM: Y CD
 CHANNEL WIDTH (m): _____ GRADIENT %: _____ EMS: _____ REG. # _____
 CHANNEL WIDTH (m): _____ TEMP: _____ COND: _____ S/cm
 WETTED WIDTH (m): _____ pH: _____ TURB: _____ T M L C
 RES. POOL DEPTH (m): _____ FLD SNS: _____
 W₂ Dp (m): _____ STAGE: L M H No Vis. Ch. Dry/Int. Trib. _____
 COVER: SWD LWD B U DP OV IV CROWN CLOSURE DIST C E INSTREAM VEG N A M V
 LB SHIP U V S O RB SHIP U V S O
 TEXTURE F G C B R A TEXTURE F G C B R A
 RIP VEG N G S C D M W RIP VEG N G S C D M W
 STAGE INIT SHR PS YF MF NA STAGE INIT SHR PS YF MF NA
 CONFINEMENT EN CO FC DC UN N/A
 COMMENTS: _____
 160

No any kind of drainage present @ proposed site.
 inst seepage @ gully bottom, vegetated by willows & alder
 ROLL # 716 FOC LG 427 DIR U COMMENTS No scale
 WILDLIFE OBSERVATIONS: _____
 NCD 161

761000593
SITE CARD
 STREAM NAME: K77159 (local)
 WATERSHED CODE: 1805740009, 52200977027675
 ILP MAP # 93E085 ILP # 62169 SITE/LAKE CARD ATTACHED Y N
 REACH # 4 D SITE # 65 FIELD UTM 9.675003, 5987103693 SITE LR 300.66 ACCESS FT
 DATE: 2/07/09 11:12 TIME 08:20 AGENCY: CO16 CREW: MJ, BS FISH FORM: Y CD
 CHANNEL WIDTH (m): 1.1 1.1 1.0 0.8 0.7 0.9 AL 7.5
 CHANNEL WIDTH (m): 0.4 0.9 0.3 0.5 0.4 0.6 11
 RES. POOL DEPTH (m): 1.5 2.0 1.0 0.8
 W₂ Dp (m): 0.1 0.2 0.1 0.1 0.1 0.1 No Vis. Ch. Dry/Int. Trib. _____
 COVER: SWD LWD B U DP OV IV CROWN CLOSURE DIST C E INSTREAM VEG N A M V
 LB SHIP U V S O RB SHIP U V S O
 TEXTURE F G C B R A TEXTURE F G C B R A
 RIP VEG N G S C D M W RIP VEG N G S C D M W
 STAGE INIT SHR PS YF MF NA STAGE INIT SHR PS YF MF NA
 CONFINEMENT EN CO FC DC UN N/A
 COMMENTS: Stream disperses no connection to Francois L. in R3.
 162

NFH - tiny & mud deep creek with no forensic fish hole. Inaccessible from Francois L. @ any fish. No sex'd lab
 ROLL # 216 FOC LG 428 DIR 45 COMMENTS Dispersion point
 429 U bed
 430 D bed
 WILDLIFE OBSERVATIONS: W₂ = 0.14, 0.21, 0.11, 0.15, 0.24, 0.19
 R bed UTM 9.674627, 5987104
 W bed UTM 9.674275, 5987221
 S6 163

761000593
SITE CARD
 STREAM NAME: K77159 (local)
 WATERSHED CODE: _____
 ILP MAP # 93E085 ILP # 62169 SITE/LAKE CARD ATTACHED Y N
 REACH # 1 D SITE # 66 FIELD UTM 9.674722, 598712693 SITE LR 100.66 ACCESS FT
 DATE: 2/07/09 11:12 TIME 09:15 AGENCY: CO16 CREW: MS, BS FISH FORM: Y CD
 CHANNEL WIDTH (m): _____ GRADIENT %: _____ EMS: _____ REG. # _____
 CHANNEL WIDTH (m): _____ TEMP: _____ COND: _____ S/cm
 WETTED WIDTH (m): _____ pH: _____ TURB: _____ T M L C
 RES. POOL DEPTH (m): _____ FLD SNS: _____
 W₂ Dp (m): _____ STAGE: L M H No Vis. Ch. Dry/Int. Trib. _____
 COVER: SWD LWD B U DP OV IV CROWN CLOSURE DIST C E INSTREAM VEG N A M V
 LB SHIP U V S O RB SHIP U V S O
 TEXTURE F G C B R A TEXTURE F G C B R A
 RIP VEG N G S C D M W RIP VEG N G S C D M W
 STAGE INIT SHR PS YF MF NA STAGE INIT SHR PS YF MF NA
 CONFINEMENT EN CO FC DC UN N/A
 COMMENTS: _____
 164

Meltoater runoff through gentle gully, no scum observed or fluxion, just seasonal collection of water w/ small depressions
 No photos - making to photograph
 WILDLIFE OBSERVATIONS: _____
 NCD 165

760001315
COMBINED FISH COLLECTION
 (local) Umbra Mtn 91650 LAKE STREAM WETLAND

GAZETTED NAME _____
 WATERSHED CODE 180374000952001414003080
 WATERBODY ID _____
 PROJECT ID _____
 DATE: 20071013 to _____ AGENCY CO16 CREW MS BS

REACH # _____
 FISH PERMIT # 5407-35801

DATE: 20071013 to _____ AGENCY CO16 CREW MS BS

SITE # 76 MID MAP # _____ NID # _____ SITE UTM 10,329749 598213,6P3 MTD/NO. EF1 STREAM CONDITION 11 67 C

SITE # 76 MTD/# EF1 H/P 1 SPECIES NFC STAGE _____ AGE _____ TOTAL LENGTH _____ MAX LENGTH _____ FISH ACT _____ COMMENTS _____

NET/TRAP SPECIFICATIONS

C	SITE #	MTD/#	HAUL	DATE IN	TIME IN	DATE OUT	TIME OUT	NET TYPE	LENGTH	DEPTH	MESH SIZE	SET	HAB.

190

SITE #	MTD/#	PASS	TIME IN	TIME OUT	EF SEC	LENGTH	WIDTH	ENCL	VOLTAGE	FREQ	PULSE	MAKE	MODEL
76	EF1	1	1355	1515	947	800	1.5	0	600	80	6	SO	125

SITE #	MTD/#	H/P	SPEC	LENGTH	WEIGHT	SEX	MATRN	AGE SAMPLE #	VOUCHER #	GENETIC STRUCTURE SAMPLE #	COMMENTS	PHOTO
76	EF1	1	NFC									R_F

191

SITE CARD
 STREAM NAME: Umbra Mtn (local) King @ 91650
 WATERSHED CODE: 180374000952001414003080
 REACH # 4 D SITE # 78 FIELD UTM 10,331469 5979821,6P3 SITE LG 4000 ACCESS FT
 DATE: 20071014 TIME 12:15 AGENCY CO16 CREW MS BS FISH FORM 11 N

CHANNEL COND AL GRADIENT % 9 RECD # 70 S/cm SP
 CHANNEL WIDTH (m) 2.8 WETTED WIDTH (m) 1.8 RES. POOL DEPTH (m) 0.45
 W. Depth 0.70 STAGE L O H No Vis. Ch. DW Dry/Int.

COVER Type SWD LWD B U DP DV IV CROWN CLOSURE AMT LOC

COVER Type SWD LWD B U DP DV IV CROWN CLOSURE AMT LOC

TEXTURE F G C B A RIP VEG. N G S C D M W STAGE INIT SHR PS YF MF NA

PHOTO 10,331469 5979821,6P3 COMMENTS Impassable to all fish

192

R-exc RB has available, v. stable creek area while carrying lots of water (bedrock controlled)
 S- very scarce grasses and only in very low pool crests, other with R/B/C, but definitely unable to fish present
 D- excellent many deep & large R controlled pools habitat isolated by the S-w falls

ROLL #	#	FOC LG	DIR	COMMENTS
D16	454	ST	U	probe
D16	455	ST	D	back
D16	451	ST	U	Falls

WB PRESENT & fairly abundant below falls, many more visually observed.

193

COMBINED FISH COLLECTION
 (local) Umbra Mtn 91650 LAKE STREAM WETLAND

GAZETTED NAME _____
 WATERSHED CODE 180374000952001414003080
 WATERBODY ID _____
 PROJECT ID _____
 DATE: 20071014 to _____ AGENCY CO16 CREW MS BS

REACH # 54
 FISH PERMIT # 5407-35801

DATE: 20071014 to _____ AGENCY CO16 CREW MS BS

SITE # 77 MID MAP # _____ NID # _____ SITE UTM 10,331469 5979821,6P3 MTD/NO. EF1 STREAM CONDITION 9 70 C

SITE # 78 MID MAP # _____ NID # _____ SITE UTM 10,331469 5979821,6P3 MTD/NO. EF1 STREAM CONDITION 9 70 C

SITE # 77 MTD/# EF1 H/P 1 SPECIES RB STAGE J AGE _____ TOTAL LENGTH _____ MAX LENGTH _____ FISH ACT _____ COMMENTS immediately below

SITE # 77 MTD/# EF1 H/P 1 SPECIES RB STAGE A AGE _____ TOTAL LENGTH _____ MAX LENGTH _____ FISH ACT _____ COMMENTS falls

SITE # 78 MTD/# EF1 H/P 2 SPECIES NFC STAGE _____ AGE _____ TOTAL LENGTH _____ MAX LENGTH _____ FISH ACT _____ COMMENTS _____

NET/TRAP SPECIFICATIONS

C	SITE #	MTD/#	HAUL	DATE IN	TIME IN	DATE OUT	TIME OUT	NET TYPE	LENGTH	DEPTH	MESH SIZE	SET	HAB.

194

SITE #	MTD/#	PASS	TIME IN	TIME OUT	EF SEC	LENGTH	WIDTH	ENCL	VOLTAGE	FREQ	PULSE	MAKE	MODEL
77	EF1	1	1215	1215	8	3	2	0	500	90	6	SE	BB
78	EF1	2	1230	1250	733	400	2	0	500	90	6	SR	125

SITE #	MTD/#	H/P	SPEC	LENGTH	WEIGHT	SEX	MATRN	AGE SAMPLE #	VOUCHER #	GENETIC STRUCTURE SAMPLE #	COMMENTS	PHOTO
77	EF1	1	RB	238								R_F
				272								R_F
				62								R_F
				49								R_F

195

SITE CARD
 STREAM NAME: A 22819-1 (local) _____
 WATERSHED CODE: 460820700201901
 REACH # 3 D SITE # 79 FIELD UTM 9,679579 6040695,6P3 SITE LG 300 ACCESS 1/4
 DATE: 20070915 TIME 09:15 AGENCY CO16 CREW MS BS FISH FORM Y ch

CHANNEL COND _____ GRADIENT % _____ RECD # _____ S/cm _____
 CHANNEL WIDTH (m) _____ WETTED WIDTH (m) _____ RES. POOL DEPTH (m) _____
 W. Depth _____ STAGE L M H No Vis. Ch. DW Dry/Int.

COVER Type SWD LWD B U DP DV IV CROWN CLOSURE AMT LOC

COVER Type SWD LWD B U DP DV IV CROWN CLOSURE AMT LOC

TEXTURE F G C B R A RIP VEG. N G S C D M W STAGE INIT SHR PS YF MF NA

PHOTO _____ COMMENTS _____

196

VEH

ROLL #	#	FOC LG	DIR	COMMENTS
D16	456	ST	U	Natural appearance of drainage
D16	457	ST	U	Drainage channel

U-natural drainage @ present likely has been enhanced during Hwy construction. Seepers present @ that time has been eliminated. Ditch was dugout to improve runoff from the right of way. Overgrown tips of dirt strip

visible, as well as excavator road on the west side of drainage / area cleared along ditch for a 8m wide. Drains disappear @ the edge of forest of private land.

NED 197

7610000593

SITE CARD *A82490-2*

WATERSHED CODE _____

R.P. MAP # *93F082* R.P.# *82506* NID MAP # _____ NID # _____

REACH # *1-D* SITE # *103* FIELD UTM *10 324243 6973015 6P3* SITE LG *150 62* ACCESS *FT*

DATE *20071002* TIME *15:30* AGENCY *CO16* CREW *MJ, BS* FISH FORM *Y 6B*

CHANNEL *mbd* **GRADIENT %** _____ **EMS** _____ **REG. #** _____

CHANNEL WIDTH (m) _____ **TEMP** _____ **COND.** _____ **S/cm** _____

WETTED WIDTH (m) _____ **pH** _____ **TURB.** *T M L C*

RES. POOL DEPTH (m) _____ **FLO SNS** _____

W₁₀ D₅₀ (m) _____ **STAGE** *L M H* **No Vis. Ch.** _____ **Dry/Int.** _____

COVER **SWD** *LWD B U DP OV IV* **CROWN CLOSURE** *0 1 2 3 4 5* **DISTURBANCE INDICATORS** *01 B1 B2 B3 D1 D2 D3*

LWD FNC *N F A* **DIST** *C E* **INSTREAM VEG** *N A M V* **PATTERN** *TM ME IM IR SI ST*

LB SHP *U V S O* **RB SHP** *U V S O* **ISLANDS** *N O I F S AN*

TEXTURE *F G C B R A* **TEXTURE** *F G C B R A* **BARBS** *N SIDE DIAG MID SPAN BR*

RIP. VEG. *N G S C D M W* **RIP. VEG.** *N G S C D M W* **COUPLING** *DC PC CO*

STAGE *INIT SHR PS YF MF NA* **STAGE** *INIT SHR PS YF MF NA* **CONFINEMENT** *EN CD FC OC UN N/A*

FEATURES **C** **NID MAP #** _____ **NID #** _____ **TYPE** _____ **HT/LG (m)** _____ **PHOTO** _____ **COMMENTS** _____ **UTM** _____

255

NFH - signs of seepage with just wetter area than surrounding forest. No scour, fluxion or channel

ROLL # *216* **#** *489* **FOC LG** *ST* **DIR** *W* **COMMENTS** *Boole*

GROUP _____ **WILDLIFE OBSERVATIONS** _____ **GROUP** _____ **WILDLIFE OBSERVATIONS** _____

NCD

256

7610000593

SITE CARD *A82490-1*

WATERSHED CODE _____

R.P. MAP # *93F082* R.P.# *82508* NID MAP # _____ NID # _____

REACH # *1-D* SITE # *104* FIELD UTM *10 324018 5973416 6P3* SITE LG *100 10* ACCESS *V4*

DATE *20071002* TIME *16:00* AGENCY *CO16* CREW *MJ, BS* FISH FORM *Y 6B*

CHANNEL *mbd* **GRADIENT %** _____ **EMS** _____ **REG. #** _____

CHANNEL WIDTH (m) _____ **TEMP** _____ **COND.** _____ **S/cm** _____

WETTED WIDTH (m) _____ **pH** _____ **TURB.** *T M L C*

RES. POOL DEPTH (m) _____ **FLO SNS** _____

W₁₀ D₅₀ (m) _____ **STAGE** *L M H* **No Vis. Ch.** _____ **Dry/Int.** _____

COVER **SWD** *LWD B U DP OV IV* **CROWN CLOSURE** *0 1 2 3 4 5* **DISTURBANCE INDICATORS** *01 B1 B2 B3 D1 D2 D3*

LWD FNC *N F A* **DIST** *C E* **INSTREAM VEG** *N A M V* **PATTERN** *TM ME IM IR SI ST*

LB SHP *U V S O* **RB SHP** *U V S O* **ISLANDS** *N O I F S AN*

TEXTURE *F G C B R A* **TEXTURE** *F G C B R A* **BARBS** *N SIDE DIAG MID SPAN BR*

RIP. VEG. *N G S C D M W* **RIP. VEG.** *N G S C D M W* **COUPLING** *DC PC CO*

STAGE *INIT SHR PS YF MF NA* **STAGE** *INIT SHR PS YF MF NA* **CONFINEMENT** *EN CD FC OC UN N/A*

FEATURES **C** **NID MAP #** _____ **NID #** _____ **TYPE** _____ **HT/LG (m)** _____ **PHOTO** _____ **COMMENTS** _____ **UTM** _____

257

NFH

ROLL # _____ **#** _____ **FOC LG** _____ **DIR** _____ **COMMENTS** *Nothing to photograph*

GROUP _____ **WILDLIFE OBSERVATIONS** _____ **GROUP** _____ **WILDLIFE OBSERVATIONS** _____

No drainage @ mapped location or 100m radius

NA

258

7610000593

SITE CARD *A82490-4*

WATERSHED CODE _____

R.P. MAP # *93F082* R.P.# *82510* NID MAP # _____ NID # _____

REACH # *2-D* SITE # *105* FIELD UTM *10 325233 5972217 6P3* SITE LG *100 10* ACCESS *V4*

DATE *20071002* TIME *16:20* AGENCY *CO16* CREW *MJ, BS* FISH FORM *Y 6B*

CHANNEL *mbd* **GRADIENT %** _____ **EMS** _____ **REG. #** _____

CHANNEL WIDTH (m) _____ **TEMP** _____ **COND.** _____ **S/cm** _____

WETTED WIDTH (m) _____ **pH** _____ **TURB.** *T M L C*

RES. POOL DEPTH (m) _____ **FLO SNS** _____

W₁₀ D₅₀ (m) _____ **STAGE** *L M H* **No Vis. Ch.** _____ **Dry/Int.** _____

COVER **SWD** *LWD B U DP OV IV* **CROWN CLOSURE** *0 1 2 3 4 5* **DISTURBANCE INDICATORS** *01 B1 B2 B3 D1 D2 D3*

LWD FNC *N F A* **DIST** *C E* **INSTREAM VEG** *N A M V* **PATTERN** *TM ME IM IR SI ST*

LB SHP *U V S O* **RB SHP** *U V S O* **ISLANDS** *N O I F S AN*

TEXTURE *F G C B R A* **TEXTURE** *F G C B R A* **BARBS** *N SIDE DIAG MID SPAN BR*

RIP. VEG. *N G S C D M W* **RIP. VEG.** *N G S C D M W* **COUPLING** *DC PC CO*

STAGE *INIT SHR PS YF MF NA* **STAGE** *INIT SHR PS YF MF NA* **CONFINEMENT** *EN CD FC OC UN N/A*

FEATURES **C** **NID MAP #** _____ **NID #** _____ **TYPE** _____ **HT/LG (m)** _____ **PHOTO** _____ **COMMENTS** _____ **UTM** _____

259

NFH

ROLL # _____ **#** _____ **FOC LG** _____ **DIR** _____ **COMMENTS** *Nothing to photograph*

GROUP _____ **WILDLIFE OBSERVATIONS** _____ **GROUP** _____ **WILDLIFE OBSERVATIONS** _____

Drainage does not exist. No soil drainage @ mapped location or 100m radius

NA

260

7610000593

SITE CARD *A82490-3*

WATERSHED CODE _____

R.P. MAP # *93F082* R.P.# *82511* NID MAP # _____ NID # _____

REACH # *1-D* SITE # *106* FIELD UTM *10 326252 5972116 6P3* SITE LG *100 10* ACCESS *FT*

DATE *20071002* TIME *16:45* AGENCY *CO16* CREW *MJ, BS* FISH FORM *Y 6B*

CHANNEL *mbd* **GRADIENT %** _____ **EMS** _____ **REG. #** _____

CHANNEL WIDTH (m) _____ **TEMP** _____ **COND.** _____ **S/cm** _____

WETTED WIDTH (m) _____ **pH** _____ **TURB.** *T M L C*

RES. POOL DEPTH (m) _____ **FLO SNS** _____

W₁₀ D₅₀ (m) _____ **STAGE** *L M H* **No Vis. Ch.** _____ **Dry/Int.** _____

COVER **SWD** *LWD B U DP OV IV* **CROWN CLOSURE** *0 1 2 3 4 5* **DISTURBANCE INDICATORS** *01 B1 B2 B3 D1 D2 D3*

LWD FNC *N F A* **DIST** *C E* **INSTREAM VEG** *N A M V* **PATTERN** *TM ME IM IR SI ST*

LB SHP *U V S O* **RB SHP** *U V S O* **ISLANDS** *N O I F S AN*

TEXTURE *F G C B R A* **TEXTURE** *F G C B R A* **BARBS** *N SIDE DIAG MID SPAN BR*

RIP. VEG. *N G S C D M W* **RIP. VEG.** *N G S C D M W* **COUPLING** *DC PC CO*

STAGE *INIT SHR PS YF MF NA* **STAGE** *INIT SHR PS YF MF NA* **CONFINEMENT** *EN CD FC OC UN N/A*

FEATURES **C** **NID MAP #** _____ **NID #** _____ **TYPE** _____ **HT/LG (m)** _____ **PHOTO** _____ **COMMENTS** _____ **UTM** _____

261

ROLL # _____ **#** _____ **FOC LG** _____ **DIR** _____ **COMMENTS** *Nothing to photograph*

GROUP _____ **WILDLIFE OBSERVATIONS** _____ **GROUP** _____ **WILDLIFE OBSERVATIONS** _____

No drainage @ mapped location. Parent "stream" is NCD

NA

262

7610000593
SITE CARD
 STREAM NAME: (opt) A32490-3 (local)
 WATERSHED CODE: 180374000952004149943204171
 I/P MAP # 935002 I/P # 92800 NID MAP #
 REACH # 2 D SITE # 107 FIELD UTM 10 326065 5973521 6P3 SITE LG 100.0 ACCESS V4
 DATE: 20070925 TIME 1:10:5 AGENCY CO16 CREW MS JS
 CHANNEL
 CHANNEL WIDTH (m) GRADIENT % EMS TEMP C COND. S/cm
 WETTED WIDTH (m) pH TURB. T M L C
 RES. POOL DEPTH (m) FLD SWS
 W₁ D₁ (m) STAGE L M H No Vis. Ch. Dry/let. BED MATERIAL Dominant Subdom. Morph.
 DW Tribes.
 COVER Type SWD LWD B U DP OV IV CROWN CLOSURE DISTURBANCE INDICATORS
 AMT 0 1 2 3 4 5
 LOC
 LWD FNC N F A DIST C E INSTREAM VEG N A M V PATTERN TM ME IM IR SI ST
 LB SHP U V S O RB SHP U V S O ISLANDS N O I F S AN
 TEXTURE F G C B R A TEXTURE F G C B R A BARS N SIDE DIAG MID SPAN BR
 RIP VEG N G S C D M W RIP VEG N G S C D M W COUPLING DC PC CO
 STAGE INIT SHR PS YF MF NA STAGE INIT SHR PS YF MF NA CONFINEMENT EN CO FC OC UN N/A
 FEATURES C NID MAP # NID # TYPE HT / LG (m) PHOTO COMMENTS UTM
 R F
 R F
 R F
 R F
 263

NFH - seepage with some significant b.e.d deep channels (5 x 2m) but scour occasional channel bed does not exceed 50 m in length. Mostly surface flow through elder patches on the 25m wide gully bottom.

ROLL #	#	FOC LG	DIR	COMMENTS
DIG	491	ST	U	Book

GROUP	WILDLIFE OBSERVATIONS	GROUP	WILDLIFE OBSERVATIONS
C		C	

NCD
264

7610000593
SITE CARD
 STREAM NAME: (opt) A81175-1 (local)
 WATERSHED CODE: 160137400095200414005280125801
 I/P MAP # 935002 I/P # 92800 NID MAP #
 REACH # 2 D SITE # 108 FIELD UTM 10 320112 5975226 6P3 SITE LG 100.0 ACCESS V4
 DATE: 20070926 TIME 0:18:0 AGENCY CO16 CREW MJ JS
 CHANNEL
 CHANNEL WIDTH (m) GRADIENT % EMS TEMP C COND. S/cm
 WETTED WIDTH (m) pH TURB. T M L C
 RES. POOL DEPTH (m) FLD SWS
 W₁ D₁ (m) STAGE L M H No Vis. Ch. Dry/let. BED MATERIAL Dominant Subdom. Morph.
 DW Tribes.
 COVER Type SWD LWD B U DP OV IV CROWN CLOSURE DISTURBANCE INDICATORS
 AMT 0 1 2 3 4 5
 LOC
 LWD FNC N F A DIST C E INSTREAM VEG N A M V PATTERN TM ME IM IR SI ST
 LB SHP U V S O RB SHP U V S O ISLANDS N O I F S AN
 TEXTURE F G C B R A TEXTURE F G C B R A BARS N SIDE DIAG MID SPAN BR
 RIP VEG N G S C D M W RIP VEG N G S C D M W COUPLING DC PC CO
 STAGE INIT SHR PS YF MF NA STAGE INIT SHR PS YF MF NA CONFINEMENT EN CO FC OC UN N/A
 FEATURES C NID MAP # NID # TYPE HT / LG (m) PHOTO COMMENTS UTM
 R F
 R F
 R F
 R F
 265

NFH

ROLL #	#	FOC LG	DIR	COMMENTS
				Nothing to photograph

GROUP	WILDLIFE OBSERVATIONS	GROUP	WILDLIFE OBSERVATIONS
C	Planted on T&M Drainage does not exist	C	

NA
266

7610000593
SITE CARD
 STREAM NAME: (opt) A81175-2 (local)
 WATERSHED CODE: 160137400095200414005280125801
 I/P MAP # 935002 I/P # 92800 NID MAP #
 REACH # 2 D SITE # 109 FIELD UTM 10 317686 5974979 6P3 SITE LG 100.0 ACCESS FT
 DATE: 20071009 TIME 0:8:50 AGENCY CO16 CREW MJ JS
 CHANNEL
 CHANNEL WIDTH (m) GRADIENT % EMS TEMP C COND. S/cm
 WETTED WIDTH (m) pH TURB. T M L C
 RES. POOL DEPTH (m) FLD SWS
 W₁ D₁ (m) STAGE L M H No Vis. Ch. Dry/let. BED MATERIAL Dominant Subdom. Morph.
 DW Tribes.
 COVER Type SWD LWD B U DP OV IV CROWN CLOSURE DISTURBANCE INDICATORS
 AMT 0 1 2 3 4 5
 LOC
 LWD FNC N F A DIST C E INSTREAM VEG N A M V PATTERN TM ME IM IR SI ST
 LB SHP U V S O RB SHP U V S O ISLANDS N O I F S AN
 TEXTURE F G C B R A TEXTURE F G C B R A BARS N SIDE DIAG MID SPAN BR
 RIP VEG N G S C D M W RIP VEG N G S C D M W COUPLING DC PC CO
 STAGE INIT SHR PS YF MF NA STAGE INIT SHR PS YF MF NA CONFINEMENT EN CO FC OC UN N/A
 FEATURES C NID MAP # NID # TYPE HT / LG (m) PHOTO COMMENTS UTM
 R F
 R F
 R F
 R F
 267

NFH - average valley bottom ~ 40m wide with isolated muddy ripples among hummocks, water smelly, silty, no scour or channelized sections.

ROLL #	#	FOC LG	DIR	COMMENTS
DIG	492	ST	X	No scale

GROUP	WILDLIFE OBSERVATIONS	GROUP	WILDLIFE OBSERVATIONS
C		C	

NCD/W3?
268

7610000593
SITE CARD
 STREAM NAME: (opt) A32495-4 (local)
 WATERSHED CODE: 18037400095200414006998
 I/P MAP # 935002 I/P # 92800 NID MAP #
 REACH # 2 D SITE # 110 FIELD UTM 10 319793 5978166 6P3 SITE LG 120.0 ACCESS FT
 DATE: 20071009 TIME 3:10:0 AGENCY CO16 CREW MS JS
 CHANNEL
 CHANNEL WIDTH (m) GRADIENT % EMS TEMP 7 C COND. 25 S/cm SW
 WETTED WIDTH (m) pH TURB. T M L C
 RES. POOL DEPTH (m) FLD SWS None
 W₁ D₁ (m) STAGE L M H No Vis. Ch. Dry/let. BED MATERIAL Dominant Subdom. Morph.
 DW Tribes.
 COVER Type SWD LWD B U DP OV IV CROWN CLOSURE DISTURBANCE INDICATORS
 AMT 0 1 2 3 4 5
 LOC
 LWD FNC N F A DIST C E INSTREAM VEG N A M V PATTERN TM ME IM IR SI ST
 LB SHP U V S O RB SHP U V S O ISLANDS N O I F S AN
 TEXTURE F G C B R A TEXTURE F G C B R A BARS N SIDE DIAG MID SPAN BR
 RIP VEG N G S C D M W RIP VEG N G S C D M W COUPLING DC PC CO
 STAGE INIT SHR PS YF MF NA STAGE INIT SHR PS YF MF NA CONFINEMENT EN CO FC OC UN N/A
 FEATURES C NID MAP # NID # TYPE HT / LG (m) PHOTO COMMENTS UTM
 R F
 R F
 R F
 R F
 269

NFH - seasonal stream with no SVD lot, documented NPB in 1998 by FIN'S
 Stream trickles b/c cobbles & will dry out soon.

ROLL #	#	FOC LG	DIR	COMMENTS
DIG	493	ST	U	Book
DIG	494	ST	D	Book

GROUP	WILDLIFE OBSERVATIONS	GROUP	WILDLIFE OBSERVATIONS
C	WRS = 0.24, 0.22, 0.25, 0.26, 0.25, 0.17	C	

56
270

~~SECRET~~

Block A 82495-1 - checked drainage field
- nothing and @ King's → nothing in photos
minibar & trib hole (5110A)(110B)

7610000593
SITE CARD

STREAM NAME (pass) (local) A 82495-2

WATERSHED CODE _____

SLP MAP # 93F092 SLP # 92501 NID MAP # _____ NID # _____

REACH # 10 SITE # 111 FIELD UTM 10 317118 5977068673 SITE LG 100 0 ACCESS V4

DATE 200710926 TIME 11 45 AGENCY CO16 CREW HJ BS FISH FORM Y D

CHANNEL		GRADIENT %		EMS		REQ #	
CHANNEL WIDTH (m)				TEMP	C	CONG	S/cm
WETTED WIDTH (m)				pH		TURB	T M L C
RES. POOL DEPTH (m)				FLD SNS			
W ₁ D ₁ (m)		STAGE	L M H	BED MATERIAL		Subdom.	
				D15 (cm)	D (cm)	Morph	
COVER		CROWN CLOSURE		DISTURBANCE INDICATORS			
Type	SWD LWD B U DP DV IV	0	1 2 3 4 5	O1	B1	B2	B3
AMT				C1	C2	C3	C4
LOC				C5	S1	S2	S3
LWD FNC		INSTREAM VEG		PATTERN			
N	A	DIST	C E	N	M	I	R
LB SHP	U V S O	RB SHP	U V S O	TM	ME	IM	IR
TEXTURE	F G C B R A	TEXTURE	F G C B R A	ISLANDS	N	O	I
RIP VEG	N G S C D M W	RIP VEG	N G S C D M W	COUPLING	DC	PC	CO
STAGE	INIT SHR PS YF MF NA	STAGE	INIT SHR PS YF MF NA	CONFINEMENT	EN	CO	FC
C	NID MAP #	NID #	TYPE	HT/LG (m)	PHOTO	COMMENTS	UTM
					R	F	
					R	F	
					R	F	
					R	F	

271

NFH - Gully with signs of meltwater runoff, no scour, no fluxion on banks, just scuffed drift by running water for very short time

ROLL #	F	FOC LG	DIR	COMMENTS
D16	495	ST	U	Book

GROUP	WILDLIFE OBSERVATIONS	GROUP	WILDLIFE OBSERVATIONS

NCD

272

7610000593
SITE CARD

STREAM NAME (pass) (local) A 82495-3

WATERSHED CODE _____

SLP MAP # 1S013740009520014140052802540560

REACH # 10 SITE # 112 FIELD UTM 10 316127 5977173673 SITE LG 100 0 ACCESS FF

DATE 200710926 TIME 1 23 5 AGENCY CO16 CREW HJ BS FISH FORM Y D

CHANNEL		GRADIENT %		EMS		REQ #	
CHANNEL WIDTH (m)				TEMP	C	CONG	S/cm
WETTED WIDTH (m)				pH		TURB	T M L C
RES. POOL DEPTH (m)				FLD SNS			
W ₁ D ₁ (m)		STAGE	L M H	BED MATERIAL		Subdom.	
				D15 (cm)	D (cm)	Morph	
COVER		CROWN CLOSURE		DISTURBANCE INDICATORS			
Type	SWD LWD B U DP DV IV	0	1 2 3 4 5	O1	B1	B2	B3
AMT				C1	C2	C3	C4
LOC				C5	S1	S2	S3
LWD FNC		INSTREAM VEG		PATTERN			
N	A	DIST	C E	N	M	I	R
LB SHP	U V S O	RB SHP	U V S O	ISLANDS	N	O	I
TEXTURE	F G C B R A	TEXTURE	F G C B R A	COUPLING	DC	PC	CO
RIP VEG	N G S C D M W	RIP VEG	N G S C D M W	CONFINEMENT	EN	CO	FC
STAGE	INIT SHR PS YF MF NA	STAGE	INIT SHR PS YF MF NA				
C	NID MAP #	NID #	TYPE	HT/LG (m)	PHOTO	COMMENTS	UTM
					R	F	
					R	F	
					R	F	
					R	F	

273

NFH - seepage through swampy area with isolated puddles, no scour, fluxion or banks → not a stream

ROLL #	F	FOC LG	DIR	COMMENTS
D16	496	ST	U	Book

GROUP	WILDLIFE OBSERVATIONS	GROUP	WILDLIFE OBSERVATIONS

NCD

274

7610000593
SITE CARD

STREAM NAME (pass) (local) A 82495-3

WATERSHED CODE _____

SLP MAP # 93F091 SLP # 91500 NID MAP # _____ NID # _____

REACH # 10 SITE # 113 FIELD UTM 10 315067 5976534673 SITE LG 100 0 ACCESS FF

DATE 200710926 TIME 1 31 0 AGENCY CO16 CREW HJ BS FISH FORM Y D

CHANNEL		GRADIENT %		EMS		REQ #	
CHANNEL WIDTH (m)				TEMP	C	CONG	S/cm
WETTED WIDTH (m)				pH		TURB	T M L C
RES. POOL DEPTH (m)				FLD SNS			
W ₁ D ₁ (m)		STAGE	L M H	BED MATERIAL		Subdom.	
				D15 (cm)	D (cm)	Morph	
COVER		CROWN CLOSURE		DISTURBANCE INDICATORS			
Type	SWD LWD B U DP DV IV	0	1 2 3 4 5	O1	B1	B2	B3
AMT				C1	C2	C3	C4
LOC				C5	S1	S2	S3
LWD FNC		INSTREAM VEG		PATTERN			
N	A	DIST	C E	N	M	I	R
LB SHP	U V S O	RB SHP	U V S O	ISLANDS	N	O	I
TEXTURE	F G C B R A	TEXTURE	F G C B R A	COUPLING	DC	PC	CO
RIP VEG	N G S C D M W	RIP VEG	N G S C D M W	CONFINEMENT	EN	CO	FC
STAGE	INIT SHR PS YF MF NA	STAGE	INIT SHR PS YF MF NA				
C	NID MAP #	NID #	TYPE	HT/LG (m)	PHOTO	COMMENTS	UTM
					R	F	
					R	F	
					R	F	
					R	F	

275

NFH - seepage to the nearby small wetland, no scour, fluxion or banks - not a stream

ROLL #	F	FOC LG	DIR	COMMENTS
D16	497	ST	U	Book

GROUP	WILDLIFE OBSERVATIONS	GROUP	WILDLIFE OBSERVATIONS

NCD

276

7610000593

SITE CARD

STREAM NAME (exact) (local) **A82495-3**

WATERSHED CODE

ILP MAP # **93F092** RPA # **92502** NID MAP # NID #

REACH # **1 0** SITE # **114** FIELD UTM **10 51371 59704.673** SITE LG **400 0** ACCESS **FT**

DATE **2007007.6** TIME **13:30** AGENCY **CO16** CREW **H5, B5** FISH FORM **Y**

CHANNEL		GRADIENT %		EMS	
CHANNEL WIDTH (m)				TEMP	C
WETTED WIDTH (m)				pH	
RES. POOL DEPTH (m)				FLO SNS	

COVER		CROWN CLOSURE	
SWD	LWD	B	U
DP	OV	IV	
0	1	2	3
4	5		

DISTURBANCE INDICATORS		PATTERN	
D1	B1	B2	B3
D2	D3	D4	D5
D6	D7	D8	D9

UTM **277**

NFH - water seeps from one wetland to another, no flowing, some ex channel w/ W, just squishy ground

ROLL #	#	FOC LG	DIR	COMMENTS
26	490	ST	D	No scale

GROUP WILDLIFE OBSERVATIONS

WCD in woods
W3/AC in L 278

7610000593

SITE CARD

STREAM NAME (exact) (local) **A82493-3**

WATERSHED CODE

ILP MAP # **180374000952004140052802540652** NID MAP # NID #

REACH # **1 0** SITE # **115** FIELD UTM **10 36073 597987.693** SITE LG **200 0** ACCESS **FT**

DATE **20070926** TIME **14:40** AGENCY **CO16** CREW **H5, B5** FISH FORM **Y**

CHANNEL		GRADIENT %		EMS	
CHANNEL WIDTH (m)				TEMP	9 C 13
WETTED WIDTH (m)				pH	
RES. POOL DEPTH (m)				FLO SNS	

COVER		CROWN CLOSURE	
SWD	LWD	B	U
DP	OV	IV	
0	1	2	3
4	5		

DISTURBANCE INDICATORS		PATTERN	
D1	B1	B2	B3
D2	D3	D4	D5
D6	D7	D8	D9

UTM **279**

NFH - tiny & muddy creek with no perennial flow, no S or O, R usable but no fish in present stream

ROLL #	#	FOC LG	DIR	COMMENTS
16	500	ST	U	Book
16	501	ST	D	Book

GROUP WILDLIFE OBSERVATIONS

WCD=0.15, 0.17, 0.20, 0.16, 0.19, 0.25
Combs only w/ lower 13m of stream
S6 280

7610000593

SITE CARD

STREAM NAME (exact) (local) **A82493-3**

WATERSHED CODE

ILP MAP # **180374000952004140052802540652180** NID MAP # NID #

REACH # **1 0** SITE # **116** FIELD UTM **10 36071 597809.693** SITE LG **100 60** ACCESS **FT**

DATE **20070926** TIME **15:10** AGENCY **CO16** CREW **H5, B5** FISH FORM **Y**

CHANNEL		GRADIENT %		EMS	
CHANNEL WIDTH (m)				TEMP	9 C 13
WETTED WIDTH (m)				pH	
RES. POOL DEPTH (m)				FLO SNS	

COVER		CROWN CLOSURE	
SWD	LWD	B	U
DP	OV	IV	
0	1	2	3
4	5		

DISTURBANCE INDICATORS		PATTERN	
D1	B1	B2	B3
D2	D3	D4	D5
D6	D7	D8	D9

UTM **281**

NFH - small stream which offers only seasonal R hab, no S or O hab, drain to NFH stream documented in 2000

ROLL #	#	FOC LG	DIR	COMMENTS
16	502	ST	U	Book
16	503	ST	D	Book

GROUP WILDLIFE OBSERVATIONS

WCD=0.10, 0.14, 0.19, 0.26, 0.23, 0.19
S6 282

7610000593

SITE CARD

STREAM NAME (exact) (local) **A82493-3**

WATERSHED CODE

ILP MAP # **43F092** RPA # **92503** NID MAP # NID #

REACH # **1 0** SITE # **117** FIELD UTM **10 316189 5978138.693** SITE LG **100 0** ACCESS **FT**

DATE **20070926** TIME **15:50** AGENCY **CO16** CREW **H5, B5** FISH FORM **Y**

CHANNEL		GRADIENT %		EMS	
CHANNEL WIDTH (m)				TEMP	C
WETTED WIDTH (m)				pH	
RES. POOL DEPTH (m)				FLO SNS	

COVER		CROWN CLOSURE	
SWD	LWD	B	U
DP	OV	IV	
0	1	2	3
4	5		

DISTURBANCE INDICATORS		PATTERN	
D1	B1	B2	B3
D2	D3	D4	D5
D6	D7	D8	D9

UTM **283**

NFH - seepage - no defined channel, no occur

ROLL #	#	FOC LG	DIR	COMMENTS
16	504	ST	U	Book

GROUP WILDLIFE OBSERVATIONS

WCD
284

SITE CARD

STREAM NAME (exact) (local) *A82497-2*

WATERSHED CODE *18037400095200414007730*

R/P MAP # *93 F092* R/P # *92505* NID MAP # *100.10* NID #

REACH # *30* SITE # *123* FIELD UTM *10,31482, 5979207* SITE LG *100.10* ACCESS *FT*

DATE *200710027* TIME *12:50* AGENCY *COIG* CREW *MJ, BS* FISH FORM *Y*

CHANNEL *width* *depth* *gradient %* *EMS* *REG. #*

CHANNEL WIDTH (m) *TEMP* *C* *COND.* *S/cm*

WETTED WIDTH (m) *pH* *TURB.* *T M L C*

RES. POOL DEPTH (m) *FLO SNS*

W₁ D₁ (m) *STAGE* *L M H* *No Vts. Ch. DW* *Dry/fat. Tribes.* *BED MATERIAL* *Dominant* *Subdom.*

COVER *Type* *SWD* *LWD* *B* *U* *DP* *OV* *IV* *CROWN CLOSURE* *DIST* *C E* *INSTREAM VEG* *N A M V* *PATTERN* *TM* *ME* *IM* *IR* *SI* *ST*

AMT *LOC* *0* *1* *2* *3* *4* *5* *C1* *C2* *C3* *C4* *C5* *S1* *S2* *S3* *S4* *S5* *ISLANDS* *N* *O* *I* *F* *S* *AN*

LWD FNC *N* *F* *A* *DIST* *C E* *INSTREAM VEG* *N A M V* *PATTERN* *TM* *ME* *IM* *IR* *SI* *ST*

LB SHP *U* *V* *S* *O* *RB SHP* *U* *V* *S* *O* *ISLANDS* *N* *O* *I* *F* *S* *AN*

TEXTURE *F* *G* *C* *B* *R* *A* *TEXTURE* *F* *G* *C* *B* *R* *A* *ISLANDS* *N* *O* *I* *F* *S* *AN*

RIP VEG *N* *G* *S* *C* *D* *M* *W* *RIP VEG* *N* *G* *S* *C* *D* *M* *W* *ISLANDS* *N* *O* *I* *F* *S* *AN*

STAGE *INIT* *SHR* *PS* *YF* *MF* *NA* *STAGE* *INIT* *SHR* *PS* *YF* *MF* *NA* *ISLANDS* *N* *O* *I* *F* *S* *AN*

FEATURES *C* *NID MAP #* *NID #* *TYPE* *HT / LG (m)* *PHOTO* *COMMENTS* *UTM*

R *F*

R *F*

R *F*

R *F*

293

NFH - surface flow from Wetland through shallow corridor (~20m wide) - no scum, fluxions or channel.

ROLL # *#* **FDC LG** **DIR** **COMMENTS**

DIG 509 ST X Book

GROUP **WILDLIFE OBSERVATIONS** **GROUP** **WILDLIFE OBSERVATIONS**

C *Belongs stream @ UTM 10,31482, 5979207 (still transition - but continuously scum bed becomes predominant.)* *NCD*

294

SITE CARD

STREAM NAME (exact) (local) *A82497-2*

WATERSHED CODE *18037400095200414007730*

R/P MAP # *93 F092* R/P # *92505* NID MAP # *100.10* NID #

REACH # *30* SITE # *123* FIELD UTM *10,31482, 5979207* SITE LG *100.10* ACCESS *FT*

DATE *200710027* TIME *13:35* AGENCY *COIG* CREW *MJ, BS* FISH FORM *Y*

CHANNEL *width* *depth* *gradient %* *EMS* *REG. #*

CHANNEL WIDTH (m) *TEMP* *C* *COND.* *S/cm*

WETTED WIDTH (m) *pH* *TURB.* *T M L C*

RES. POOL DEPTH (m) *FLO SNS*

W₁ D₁ (m) *STAGE* *L M H* *No Vts. Ch. DW* *Dry/fat. Tribes.* *BED MATERIAL* *Dominant* *Subdom.*

COVER *Type* *SWD* *LWD* *B* *U* *DP* *OV* *IV* *CROWN CLOSURE* *DIST* *C E* *INSTREAM VEG* *N A M V* *PATTERN* *TM* *ME* *IM* *IR* *SI* *ST*

AMT *LOC* *0* *1* *2* *3* *4* *5* *C1* *C2* *C3* *C4* *C5* *S1* *S2* *S3* *S4* *S5* *ISLANDS* *N* *O* *I* *F* *S* *AN*

LWD FNC *N* *F* *A* *DIST* *C E* *INSTREAM VEG* *N A M V* *PATTERN* *TM* *ME* *IM* *IR* *SI* *ST*

LB SHP *U* *V* *S* *O* *RB SHP* *U* *V* *S* *O* *ISLANDS* *N* *O* *I* *F* *S* *AN*

TEXTURE *F* *G* *C* *B* *R* *A* *TEXTURE* *F* *G* *C* *B* *R* *A* *ISLANDS* *N* *O* *I* *F* *S* *AN*

RIP VEG *N* *G* *S* *C* *D* *M* *W* *RIP VEG* *N* *G* *S* *C* *D* *M* *W* *ISLANDS* *N* *O* *I* *F* *S* *AN*

STAGE *INIT* *SHR* *PS* *YF* *MF* *NA* *STAGE* *INIT* *SHR* *PS* *YF* *MF* *NA* *ISLANDS* *N* *O* *I* *F* *S* *AN*

FEATURES *C* *NID MAP #* *NID #* *TYPE* *HT / LG (m)* *PHOTO* *COMMENTS* *UTM*

R *F*

R *F*

R *F*

R *F*

295

ROLL # **FDC LG** **DIR** **COMMENTS**

Nothing to photograph

GROUP **WILDLIFE OBSERVATIONS** **GROUP** **WILDLIFE OBSERVATIONS**

C *Wet area overall - mislabeled (looks like old skidder trail where someone logged nice size spruce)* *look like joins GPS'd stream/drainage* *NCD*

296

SITE CARD

STREAM NAME (exact) (local) *A82493-1*

WATERSHED CODE *18037400095200414007730*

R/P MAP # *93 F092* R/P # *92505* NID MAP # *100.10* NID #

REACH # *10* SITE # *124* FIELD UTM *10,31451, 5978246P3* SITE LG *100.0* ACCESS *FT*

DATE *200710027* TIME *1:50* AGENCY *COIG* CREW *MJ, BS* FISH FORM *Y*

CHANNEL *width* *depth* *gradient %* *EMS* *REG. #*

CHANNEL WIDTH (m) *TEMP* *C* *COND.* *S/cm*

WETTED WIDTH (m) *pH* *TURB.* *T M L C*

RES. POOL DEPTH (m) *FLO SNS*

W₁ D₁ (m) *STAGE* *L M H* *No Vts. Ch. DW* *Dry/fat. Tribes.* *BED MATERIAL* *Dominant* *Subdom.*

COVER *Type* *SWD* *LWD* *B* *U* *DP* *OV* *IV* *CROWN CLOSURE* *DIST* *C E* *INSTREAM VEG* *N A M V* *PATTERN* *TM* *ME* *IM* *IR* *SI* *ST*

AMT *LOC* *0* *1* *2* *3* *4* *5* *C1* *C2* *C3* *C4* *C5* *S1* *S2* *S3* *S4* *S5* *ISLANDS* *N* *O* *I* *F* *S* *AN*

LWD FNC *N* *F* *A* *DIST* *C E* *INSTREAM VEG* *N A M V* *PATTERN* *TM* *ME* *IM* *IR* *SI* *ST*

LB SHP *U* *V* *S* *O* *RB SHP* *U* *V* *S* *O* *ISLANDS* *N* *O* *I* *F* *S* *AN*

TEXTURE *F* *G* *C* *B* *R* *A* *TEXTURE* *F* *G* *C* *B* *R* *A* *ISLANDS* *N* *O* *I* *F* *S* *AN*

RIP VEG *N* *G* *S* *C* *D* *M* *W* *RIP VEG* *N* *G* *S* *C* *D* *M* *W* *ISLANDS* *N* *O* *I* *F* *S* *AN*

STAGE *INIT* *SHR* *PS* *YF* *MF* *NA* *STAGE* *INIT* *SHR* *PS* *YF* *MF* *NA* *ISLANDS* *N* *O* *I* *F* *S* *AN*

FEATURES *C* *NID MAP #* *NID #* *TYPE* *HT / LG (m)* *PHOTO* *COMMENTS* *UTM*

R *F*

R *F*

R *F*

R *F*

297

ROLL # **FDC LG** **DIR** **COMMENTS**

Nothing to photograph

GROUP **WILDLIFE OBSERVATIONS** **GROUP** **WILDLIFE OBSERVATIONS**

C *Drainage does not exist* *NA*

298

SITE CARD

STREAM NAME (exact) (local) *A82493-1*

WATERSHED CODE *18037400095200414007730*

R/P MAP # *93 F092* R/P # *92505* NID MAP # *100.10* NID #

REACH # *30* SITE # *125* FIELD UTM *10,31539, 5978856P3* SITE LG *100.0E* ACCESS *FT*

DATE *200710027* TIME *1:54:10* AGENCY *COIG* CREW *MJ, BS* FISH FORM *Y*

CHANNEL *width* *depth* *gradient %* *EMS* *REG. #*

CHANNEL WIDTH (m) *TEMP* *C* *COND.* *S/cm*

WETTED WIDTH (m) *pH* *TURB.* *T M L C*

RES. POOL DEPTH (m) *FLO SNS*

W₁ D₁ (m) *STAGE* *L M H* *No Vts. Ch. DW* *Dry/fat. Tribes.* *BED MATERIAL* *Dominant* *Subdom.*

COVER *Type* *SWD* *LWD* *B* *U* *DP* *OV* *IV* *CROWN CLOSURE* *DIST* *C E* *INSTREAM VEG* *N A M V* *PATTERN* *TM* *ME* *IM* *IR* *SI* *ST*

AMT *LOC* *0* *1* *2* *3* *4* *5* *C1* *C2* *C3* *C4* *C5* *S1* *S2* *S3* *S4* *S5* *ISLANDS* *N* *O* *I* *F* *S* *AN*

LWD FNC *N* *F* *A* *DIST* *C E* *INSTREAM VEG* *N A M V* *PATTERN* *TM* *ME* *IM* *IR* *SI* *ST*

LB SHP *U* *V* *S* *O* *RB SHP* *U* *V* *S* *O* *ISLANDS* *N* *O* *I* *F* *S* *AN*

TEXTURE *F* *G* *C* *B* *R* *A* *TEXTURE* *F* *G* *C* *B* *R* *A* *ISLANDS* *N* *O* *I* *F* *S* *AN*

RIP VEG *N* *G* *S* *C* *D* *M* *W* *RIP VEG* *N* *G* *S* *C* *D* *M* *W* *ISLANDS* *N* *O* *I* *F* *S* *AN*

STAGE *INIT* *SHR* *PS* *YF* *MF* *NA* *STAGE* *INIT* *SHR* *PS* *YF* *MF* *NA* *ISLANDS* *N* *O* *I* *F* *S* *AN*

FEATURES *C* *NID MAP #* *NID #* *TYPE* *HT / LG (m)* *PHOTO* *COMMENTS* *UTM*

R *F*

R *F*

R *F*

R *F*

299

NFH - seepage through valley, no scum, fluxions or channel, just muddy puddles

ROLL # **FDC LG** **DIR** **COMMENTS**

DIG 510 ST U Book

GROUP **WILDLIFE OBSERVATIONS** **GROUP** **WILDLIFE OBSERVATIONS**

C *NCD*

300

761000593
SITE CARD
 STREAM NAME (gsal) (local) # 82493-2
 WATERSHIP CODE 1803740009520041400512802540615
 RLP MAP # 1803740009520041400512802540615
 REACH # 1 D SITE # 126 FIELD UTM 10 315783 5977625 6P3 SITE LG 100 GE ACCESS FT
 DATE 7/00/2009 TIME 16:20 AGENCY C016 CREW MS BS FISH FORM Y AD
 CHANNEL (mhd) GRADIENT % EMS TEMP C COND S/cm
 CHANNEL WIDTH (m) WETTED WIDTH (m) RES. POOL DEPTH (m)
 W₂ D₂ (m) STAGE L M H No Vis. Ch. Dry/Int. DW Tribs.
 COVER Type SWD LWD B U DP OV IV CROWN CLOSURE DIST. C E INSTREAM VEG N A M V
 AMT LB SHP U V S O RB SHP U V S O PATTERN TM ME IM IR SI ST
 LOC TEXTURE F G C B R A TEXTURE F G C B R A ISLANDS N O I F S AN
 RIP. VEG. N G S C D M W RIP. VEG. N G S C D M W BARS N SIDE DIAG MID SPAN BR
 STAGE INIT SHR PS YF MF NA STAGE INIT SHR PS YF MF NA COUPLING DC PC CO
 CONFINEMENT EN CO FC OC UN N/A
 C NID MAP # NID # TYPE HT / LG (m) PHOTO COMMENTS UTM
 R F
 R F
 R F
 R F
 301

NFH - seepage through wall, slightly prone, no scour
 fluvium or banks, drift layer barely moved by debris
 later

ROLL # # FOC LG DIR COMMENTS
 D16 512 ST U Book

GROUP WILDLIFE OBSERVATIONS GROUP WILDLIFE OBSERVATIONS

C

NCD
 302

761000593
SITE CARD
 STREAM NAME (gsal) (local) # 82498-2
 WATERSHIP CODE 93F091
 RLP MAP # 93F091 RLP # 91502 NID MAP # NID #
 REACH # 2 D SITE # 127 FIELD UTM 10 312828 5978974 6P3 SITE LG 200 10 ACCESS FT
 DATE 2/07/2009 TIME 07:15 AGENCY C016 CREW MJ BS FISH FORM Y AD
 CHANNEL (mhd) GRADIENT % EMS TEMP C COND S/cm
 CHANNEL WIDTH (m) WETTED WIDTH (m) RES. POOL DEPTH (m)
 W₂ D₂ (m) STAGE L M H No Vis. Ch. Dry/Int. DW Tribs.
 COVER Type SWD LWD B U DP OV IV CROWN CLOSURE DIST. C E INSTREAM VEG N A M V
 AMT LB SHP U V S O RB SHP U V S O PATTERN TM ME IM IR SI ST
 LOC TEXTURE F G C B R A TEXTURE F G C B R A ISLANDS N O I F S AN
 RIP. VEG. N G S C D M W RIP. VEG. N G S C D M W BARS N SIDE DIAG MID SPAN BR
 STAGE INIT SHR PS YF MF NA STAGE INIT SHR PS YF MF NA COUPLING DC PC CO
 CONFINEMENT EN CO FC OC UN N/A
 C NID MAP # NID # TYPE HT / LG (m) PHOTO COMMENTS UTM
 R F
 R F
 R F
 R F
 303

NFH - seepage through gully leading natural pond in terrain
 depression. Outflow occasional with surface flow out of
 pond. No scour fluvium or channel. Water likely flows
 temporarily during storms or very wet summers.

ROLL # # FOC LG DIR COMMENTS
 D16 513 ST U book - drainage
 D16 514 ST X no scale - pond

GROUP WILDLIFE OBSERVATIONS GROUP WILDLIFE OBSERVATIONS

C

NCD
 304

761000593
SITE CARD
 STREAM NAME (gsal) (local) # 82498-2
 WATERSHIP CODE 93F091
 RLP MAP # 93F091 RLP # 91501 NID MAP # NID #
 REACH # 1 D SITE # 128 FIELD UTM 10 311589 5978974 6P3 SITE LG 500 10 ACCESS FT
 DATE 2/07/2009 TIME 08:45 AGENCY C016 CREW MS BS FISH FORM Y AD
 CHANNEL (mhd) GRADIENT % EMS TEMP C COND S/cm
 CHANNEL WIDTH (m) WETTED WIDTH (m) RES. POOL DEPTH (m)
 W₂ D₂ (m) STAGE L M H No Vis. Ch. Dry/Int. DW Tribs.
 COVER Type SWD LWD B U DP OV IV CROWN CLOSURE DIST. C E INSTREAM VEG N A M V
 AMT LB SHP U V S O RB SHP U V S O PATTERN TM ME IM IR SI ST
 LOC TEXTURE F G C B R A TEXTURE F G C B R A ISLANDS N O I F S AN
 RIP. VEG. N G S C D M W RIP. VEG. N G S C D M W BARS N SIDE DIAG MID SPAN BR
 STAGE INIT SHR PS YF MF NA STAGE INIT SHR PS YF MF NA COUPLING DC PC CO
 CONFINEMENT EN CO FC OC UN N/A
 C NID MAP # NID # TYPE HT / LG (m) PHOTO COMMENTS UTM
 R F
 R F
 R F
 R F
 305

NFH - drainage flows through wetland corridor with no
 defined channel continuously. Sections of channel & fluvium
 separate, mostly water splashed through wetland with
 big puddles interconnected. No stream as per definition.
 All area severely trampled by cattle.

ROLL # # FOC LG DIR COMMENTS
 D16 515 ST X Book
 D16 516 ST U Book

GROUP WILDLIFE OBSERVATIONS GROUP WILDLIFE OBSERVATIONS

C Stream mismapped - located w
 150m N. (maybe unmapped?)
 WF = 106-117

NCD
 306

761000593
SITE CARD
 STREAM NAME (gsal) (local) # 82498-2
 WATERSHIP CODE 93F091
 RLP MAP # 93F091 RLP # 91500 NID MAP # NID #
 REACH # 2 D SITE # 129 FIELD UTM 10 311612 5978965 6P3 SITE LG 100 10 ACCESS FT
 DATE 2/07/2009 TIME 09:45 AGENCY C016 CREW MS BS FISH FORM Y AD
 CHANNEL (mhd) GRADIENT % EMS TEMP C COND S/cm
 CHANNEL WIDTH (m) WETTED WIDTH (m) RES. POOL DEPTH (m)
 W₂ D₂ (m) STAGE L M H No Vis. Ch. Dry/Int. DW Tribs.
 COVER Type SWD LWD B U DP OV IV CROWN CLOSURE DIST. C E INSTREAM VEG N A M V
 AMT LB SHP U V S O RB SHP U V S O PATTERN TM ME IM IR SI ST
 LOC TEXTURE F G C B R A TEXTURE F G C B R A ISLANDS N O I F S AN
 RIP. VEG. N G S C D M W RIP. VEG. N G S C D M W BARS N SIDE DIAG MID SPAN BR
 STAGE INIT SHR PS YF MF NA STAGE INIT SHR PS YF MF NA COUPLING DC PC CO
 CONFINEMENT EN CO FC OC UN N/A
 C NID MAP # NID # TYPE HT / LG (m) PHOTO COMMENTS UTM
 R F
 R F
 R F
 R F
 307

NFH - seepage with occasional mud puddles, no scour
 fluvium or channel - just a stream

ROLL # # FOC LG DIR COMMENTS
 D16 517 ST U Book

GROUP WILDLIFE OBSERVATIONS GROUP WILDLIFE OBSERVATIONS

C

NCD
 308

7610000593
SITE CARD
 STREAM NAME (local) A82492-3
 WATERSHED CODE
 ILP MAP # 93F081 ILP # 81500 NID MAP #
 REACH # 1 D SITE # 133 FIELD UTM 10 305815 597202 679 SITE LG 100 ACCESS PT
 DATE 20071002 TIME 1450 AGENCY CO16 CREW MJ BS FISH FORM Y
 CHANNEL (mtd) GRADIENT %
 CHANNEL WIDTH (m) TEMP C CONG S/cm
 WETTED WIDTH (m) pH TURB T M L C
 RES. POOL DEPTH (m) FLD SNS
 W₁ D₁ (m) STAGE L M H No Vts Ch DW Dry/Int Tribes
 COVER Type SWD LWD B U DP OV IV CROWN CLOSURE DISTURBANCE INDICATORS D1 B1 B2 B3 D1 D2 D3
 AMT LOC 0 1 2 3 4 5 C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
 LWD FNC N F A DIST C E INSTREAM VEG N A M V PATTERN TM ME IM IR SI ST
 LB SHP U V S O RB SHP U V S O ISLANDS N O I F S AN
 TEXTURE F G C B R A TEXTURE F G C B R A BARS N SIDE DIAG MID SPAN BR
 RIP VEG N G S C D M W RIP VEG N G S C D M W COUPLING DC PC CO
 STAGE INIT SHR PS YF MF NA STAGE INIT SHR PS YF MF NA CONFINEMENT EN CO FC OC UN N/A
 FEATURES C NID MAP # NID # TYPE HT/LG (m) PHOTO COMMENTS UTM
 R F
 R F
 R F

NFI - tundra very low no signs of water just moist ground indicated by abundance of tundra berries

ROLL # # FOC LG DIR COMMENTS
 216 524 ST X No scale

GROUP WILDLIFE OBSERVATIONS GROUP WILDLIFE OBSERVATIONS

C

NCD/WII

318

7610000593
SITE CARD
 STREAM NAME (local) A82492-3
 WATERSHED CODE
 ILP MAP # 93F081 ILP # 81500 NID MAP #
 REACH # 1 D SITE # 134 FIELD UTM 10 306201 597201 693 SITE LG 100 ACCESS PT
 DATE 20071002 TIME 1510 AGENCY CO16 CREW MJ BS FISH FORM Y
 CHANNEL (mtd) GRADIENT %
 CHANNEL WIDTH (m) TEMP C CONG S/cm
 WETTED WIDTH (m) pH TURB T M L C
 RES. POOL DEPTH (m) FLD SNS
 W₁ D₁ (m) STAGE L M H No Vts Ch DW Dry/Int Tribes
 COVER Type SWD LWD B U DP OV IV CROWN CLOSURE DISTURBANCE INDICATORS D1 B1 B2 B3 D1 D2 D3
 AMT LOC 0 1 2 3 4 5 C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
 LWD FNC N F A DIST C E INSTREAM VEG N A M V PATTERN TM ME IM IR SI ST
 LB SHP U V S O RB SHP U V S O ISLANDS N O I F S AN
 TEXTURE F G C B R A TEXTURE F G C B R A BARS N SIDE DIAG MID SPAN BR
 RIP VEG N G S C D M W RIP VEG N G S C D M W COUPLING DC PC CO
 STAGE INIT SHR PS YF MF NA STAGE INIT SHR PS YF MF NA CONFINEMENT EN CO FC OC UN N/A
 FEATURES C NID MAP # NID # TYPE HT/LG (m) PHOTO COMMENTS UTM
 R F
 R F
 R F

NFI - seepage through gully, no scoured channel bed, no flowing, not a stream

ROLL # # FOC LG DIR COMMENTS
 216 525 ST U Book

GROUP WILDLIFE OBSERVATIONS GROUP WILDLIFE OBSERVATIONS

C

NCD

320

7610000593
SITE CARD
 STREAM NAME (local) A82492-2
 WATERSHED CODE
 ILP MAP # 93F081 ILP # 81500 NID MAP #
 REACH # 4 D SITE # 135 FIELD UTM 10 305986 597155 963 SITE LG 100 ACCESS PT
 DATE 20071002 TIME 1530 AGENCY CO16 CREW MJ BS FISH FORM Y
 CHANNEL (mtd) GRADIENT %
 CHANNEL WIDTH (m) TEMP C CONG S/cm
 WETTED WIDTH (m) pH TURB T M L C
 RES. POOL DEPTH (m) FLD SNS
 W₁ D₁ (m) STAGE L M H No Vts Ch DW Dry/Int Tribes
 COVER Type SWD LWD B U DP OV IV CROWN CLOSURE DISTURBANCE INDICATORS D1 B1 B2 B3 D1 D2 D3
 AMT LOC 0 1 2 3 4 5 C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
 LWD FNC N F A DIST C E INSTREAM VEG N A M V PATTERN TM ME IM IR SI ST
 LB SHP U V S O RB SHP U V S O ISLANDS N O I F S AN
 TEXTURE F G C B R A TEXTURE F G C B R A BARS N SIDE DIAG MID SPAN BR
 RIP VEG N G S C D M W RIP VEG N G S C D M W COUPLING DC PC CO
 STAGE INIT SHR PS YF MF NA STAGE INIT SHR PS YF MF NA CONFINEMENT EN CO FC OC UN N/A
 FEATURES C NID MAP # NID # TYPE HT/LG (m) PHOTO COMMENTS UTM
 R F
 R F
 R F

NFI - seepage/surface flow through deep gully, no scour, flowing or channel - not a stream

ROLL # # FOC LG DIR COMMENTS
 216 526 ST U Book

GROUP WILDLIFE OBSERVATIONS GROUP WILDLIFE OBSERVATIONS

C

NCD

322

7610000593
SITE CARD
 STREAM NAME (local) A82492-1
 WATERSHED CODE
 ILP MAP # 93F081 ILP # 81501 NID MAP #
 REACH # 1 D SITE # 136 FIELD UTM 10 305540 597095 073 SITE LG 100 ACCESS PT
 DATE 20071002 TIME 1700 AGENCY CO16 CREW MJ BS FISH FORM Y
 CHANNEL (mtd) GRADIENT %
 CHANNEL WIDTH (m) TEMP C CONG S/cm
 WETTED WIDTH (m) pH TURB T M L C
 RES. POOL DEPTH (m) FLD SNS
 W₁ D₁ (m) STAGE L M H No Vts Ch DW Dry/Int Tribes
 COVER Type SWD LWD B U DP OV IV CROWN CLOSURE DISTURBANCE INDICATORS D1 B1 B2 B3 D1 D2 D3
 AMT LOC 0 1 2 3 4 5 C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
 LWD FNC N F A DIST C E INSTREAM VEG N A M V PATTERN TM ME IM IR SI ST
 LB SHP U V S O RB SHP U V S O ISLANDS N O I F S AN
 TEXTURE F G C B R A TEXTURE F G C B R A BARS N SIDE DIAG MID SPAN BR
 RIP VEG N G S C D M W RIP VEG N G S C D M W COUPLING DC PC CO
 STAGE INIT SHR PS YF MF NA STAGE INIT SHR PS YF MF NA CONFINEMENT EN CO FC OC UN N/A
 FEATURES C NID MAP # NID # TYPE HT/LG (m) PHOTO COMMENTS UTM
 R F
 R F
 R F

NFI - seepage through swayer valley, surface flow & puddles, no scour, no flowing - not a stream

ROLL # # FOC LG DIR COMMENTS
 216 527 ST X No scale

GROUP WILDLIFE OBSERVATIONS GROUP WILDLIFE OBSERVATIONS

C

NCD

324

7610000593
SITE CARD
 LOCAL: A82494-3
 WATERSHED CODE: 93F081
 RFP MAP # 81502
 REACH # 3 D SITE # 137 FIELD UTM 10 308208 5499150 693 SITE LG 100.0 ACCESS FT
 DATE 20071029 TIME 0815 AGENCY C016 CREW MS BS FISH FORM Y 0

CHANNEL: CHAN. WID. (m) WETTED WID. (m) RES. POOL DEPTH (m) STAGE L M H No Vn. Ch DW Dry/Int. Tribes.

COVER: SWD LWD B U DP OV IV CROWN CLOSURE DIST C E INSTREAM VEG N A M V

FEATURES: C NID MAP # NID # TYPE HT/LG (m) PHOTO COMMENTS UTM 325

NFH - seepage joining W just d/s of site WFH - not clearly corridor with no scoured channel, fluxion or banks - not a stream

ROLL # # FOC LG DIR COMMENTS
 D16 528 ST 130 Book

WILDLIFE OBSERVATIONS: GROUP WILDLIFE OBSERVATIONS

C NCD 326

7610000593
SITE CARD
 LOCAL: A82494-2
 WATERSHED CODE: 93F081
 RFP MAP # 81503
 REACH # 2 D SITE # 138 FIELD UTM 10 30609 5469909 693 SITE LG 100.0 ACCESS FT
 DATE 20071029 TIME 1112.5 AGENCY C016 CREW MS BS FISH FORM Y 0

CHANNEL: CHAN. WID. (m) WETTED WID. (m) RES. POOL DEPTH (m) STAGE L M H No Vn. Ch DW Dry/Int. Tribes.

COVER: SWD LWD B U DP OV IV CROWN CLOSURE DIST C E INSTREAM VEG N A M V

FEATURES: C NID MAP # NID # TYPE HT/LG (m) PHOTO COMMENTS UTM 327

NFH - seepage through forest no scour, fluxion or banks, just isolated collection puddles & squishy ground - not a stream

ROLL # # FOC LG DIR COMMENTS
 D16 529 ST 4 Book

WILDLIFE OBSERVATIONS: GROUP WILDLIFE OBSERVATIONS

C NCD 328

7610000593
SITE CARD
 LOCAL: A82494-2
 WATERSHED CODE: 1803740009520041400528016540650
 RFP MAP # 3 D SITE # 150 FIELD UTM 310685 697026663 SITE LG 150.0 ACCESS FT
 DATE 20071029 TIME 1115.0 AGENCY C016 CREW MS BS FISH FORM Y 0

CHANNEL: CHAN. WID. (m) WETTED WID. (m) RES. POOL DEPTH (m) STAGE L M H No Vn. Ch DW Dry/Int. Tribes.

COVER: SWD LWD B U DP OV IV CROWN CLOSURE DIST C E INSTREAM VEG N A M V

FEATURES: C NID MAP # NID # TYPE HT/LG (m) PHOTO COMMENTS UTM 329

NFH - drainage is composed of channelized sections, overland flow with puddles & subsurface seepage through shrubby corridor. Occurs channel bed & fluvial deposits' discontinuity & not exceeding 40m in length - therefore not a stream

ROLL # # FOC LG DIR COMMENTS
 D16 530 ST U Book

WILDLIFE OBSERVATIONS: GROUP WILDLIFE OBSERVATIONS

C NCD 330

7610000593
SITE CARD
 LOCAL: A82494-2
 WATERSHED CODE: 93F081
 RFP MAP # 81504
 REACH # 1 D SITE # 140 FIELD UTM 10 310638 6970499 693 SITE LG 200.0 ACCESS FT
 DATE 20071029 TIME 1115 AGENCY C016 CREW MS BS FISH FORM Y 0

CHANNEL: CHAN. WID. (m) WETTED WID. (m) RES. POOL DEPTH (m) STAGE L M H No Vn. Ch DW Dry/Int. Tribes.

COVER: SWD LWD B U DP OV IV CROWN CLOSURE DIST C E INSTREAM VEG N A M V

FEATURES: C NID MAP # NID # TYPE HT/LG (m) PHOTO COMMENTS UTM 331

NFH

Nothing to photograph

ROLL # # FOC LG DIR COMMENTS

WILDLIFE OBSERVATIONS: GROUP WILDLIFE OBSERVATIONS

C N/A Drainage does not exist N/A 332

7610000593
SITE CARD (local) **A82719-3**

STREAM NAME (gkx) _____ (local) _____

WATERSHED CODE **460148790037900**

ILP MAP # **60** ILP # **160** FIELD UTM **9640109 6063607 6P3** SITE LG **100.10** ACCESS **FT**

REACH # **20** DATE **20071109** TIME **10:20** AGENCY **CO16** CREW **MJ BS** FISH FORM **0 N**

CHANNEL (mhd) _____ GRADIENT % _____ EMS _____ REG. # _____

CHANNEL WIDTH (m) **1.7 2.2 2.6 3.2 2.1** TEMP **5** COND. **80** S/cm **54**

WETTED WIDTH (m) **1.7 1.3 1.6 1.1 1.8 1.9** pH _____ TURB. **T M L D 60**

RES. POOL DEPTH (m) **1.5 0.32 0.11 0.45 0.38 0.26 0.41** FLD SNS _____

W. By (m) **0.37 0.24 1.45** STAGE **OV H** No Vis. Ch. _____ Dry/Int. _____

COVER

SWD LWD B U DP OV IV CROWN CLOSURE

AMT **T S S T D T A**

LOC **A P P P P A**

LWD FNC **N O A** DIST **C O** INSTREAM VEG **A M V**

LB SHP **U V S O** RB SHP **U V S O**

TEXTURE **F G O B R A** TEXTURE **F G O B R A**

RIP VEG **N G S C D M W** RIP VEG **N G S C D M W**

STAGE **INIT SHR PS YF MF NA** STAGE **INIT SHR PS YF MF NA**

CONFINEMENT **EN CO FC OC UN N/A**

UTM **381**

R - excellent, cover diverse & abundant creek table, although some sediment wedges present, & GWD clumps but overall no significant erosion, many hard dependent rocks
 S - good - good holding, many pretty uniform gravel patches in pool crests
 D - two likely suitable pools observed, decent OW but in R/d

ROLL # | # | FOC LG | DIR | COMMENTS

D16 571 5T X CT photo

575 4 Book

576 V D Book

GROUP | WILDLIFE OBSERVATIONS | GROUP | WILDLIFE OBSERVATIONS

C | WS = 0.33, 0.37, 0.36, 0.28, 0.38, 0.43 | C

382

709001315
COMBINED FISH COLLECTION

GAZETTED NAME (local) **A82719-3** LAKE STREAM WETLAND

WATERSHED CODE **460148790037900**

WATERBODY ID _____ ILP MAP # _____ ILP # _____ SITE/LAKE CARD ATTACHED N

PROJECT ID _____ REACH # **516** FISH PERMIT # **5407-3580**

DATE **2007** to _____ AGENCY **CO16** CREW **MJ BS** RE-SAMPLE

SITE # | MTD # | H/P | SPEC. | LENGTH | WEIGHT | SEX | MATURE | AGE SAMPLE # | VOUCHER # | GENETIC STRUCTURE SAMPLE # | COMMENTS | PHOTO

159 | EF1 | 1 | CT | 137 | 8 | | | | | | | | R - F

160 | EF1 | 1 | CT | 119 | 2 | | | | | | | | R - F

159 | EF1 | 1 | CT | 96 | 10.9 | | | | | | | | R - F

160 | EF1 | 1 | CT | 72 | 7.7 | | | | | | | | R - F

160 | EF1 | 1 | CT | 81 | 6.8 | | | | | | | | R - F

161 | EF1 | 1 | CT | 65 | 6.5 | | | | | | | | R - F

NET/TRAP SPECIFICATIONS

C | SITE # | MTD # | HAUL | DATE IN | TIME IN | DATE OUT | TIME OUT | NET TYPE | LENGTH | DEPTH | MESH SIZE | SET | HUR

383

159 | MTD # | H/P | PASS | TIME IN | TIME OUT | EF SEC | LENGTH | WIDTH | ENCL. | VOLTAGE | FREQ. | PULSE | MAKE | MODEL

159 | EF1 | 1 | 1020 | 1115 | 363 | 500 | 1.5 | 0 | 500 | 80 | 6 | SE | 123

160 | EF1 | 1 | 1145 | 1148 | 48 | 20 | 1.5 | 0 | 500 | 80 | 6 | SE | 123

159 | MTD # | H/P | SPEC. | LENGTH | WEIGHT | SEX | MATURE | AGE SAMPLE # | VOUCHER # | GENETIC STRUCTURE SAMPLE # | COMMENTS | PHOTO

159 | EF1 | 1 | CT | 137 | 8 | | | | | | | | R - F

160 | EF1 | 1 | CT | 119 | 2 | | | | | | | | R - F

159 | EF1 | 1 | CT | 96 | 10.9 | | | | | | | | R - F

160 | EF1 | 1 | CT | 72 | 7.7 | | | | | | | | R - F

160 | EF1 | 1 | CT | 81 | 6.8 | | | | | | | | R - F

161 | EF1 | 1 | CT | 65 | 6.5 | | | | | | | | R - F

1 captured d/b of CV in 127 sec

384

7610000593
SITE CARD (local) **A82719-1**

STREAM NAME (gkx) _____ (local) _____

WATERSHED CODE _____

ILP MAP # **93L076** ILP # **77911** FIELD UTM **968001 6064163 6P3** SITE LG **200.0** ACCESS **V4**

REACH # **20** DATE **20071109** TIME **1:31:40** AGENCY **CO16** CREW **MJ RJ** FISH FORM **Y CD**

CHANNEL (mhd) _____ GRADIENT % _____ EMS _____ REG. # _____

CHANNEL WIDTH (m) _____ TEMP _____ COND. _____ S/cm _____

WETTED WIDTH (m) _____ pH _____ TURB. **T M L C**

RES. POOL DEPTH (m) _____ FLD SNS _____

W. By (m) _____ STAGE **L M H** No Vis. Ch. _____ Dry/Int. _____

COVER

SWD LWD B U DP OV IV CROWN CLOSURE

AMT _____

LOC _____

LWD FNC **N F A** DIST **C E** INSTREAM VEG **N A M V**

LB SHP **U V S O** RB SHP **U V S O**

TEXTURE **F G O B R A** TEXTURE **F G O B R A**

RIP VEG **N G S C D M W** RIP VEG **N G S C D M W**

STAGE **INIT SHR PS YF MF NA** STAGE **INIT SHR PS YF MF NA**

CONFINEMENT **EN CO FC OC UN N/A**

UTM **385**

Nothing to photograph

ROLL # | # | FOC LG | DIR | COMMENTS

C | Stream does not exist @ mapped Xing or anywhere else within frog break - mis-mapped! GPS'd | C

386

7610000593
SITE CARD (local) **A82719-2**

STREAM NAME (gkx) _____ (local) _____

WATERSHED CODE _____

ILP MAP # **93L076** ILP # **77921** FIELD UTM **968934 6064449 6P3** SITE LG **100.66** ACCESS **FS**

REACH # **30** DATE **20071109** TIME **1:42:00** AGENCY **CO16** CREW **MJ RJ** FISH FORM **Y CD**

CHANNEL (mhd) _____ GRADIENT % _____ EMS _____ REG. # _____

CHANNEL WIDTH (m) **1.4 1.6 1.2 1.5 1.3** TEMP **4** COND. **60** S/cm **54**

WETTED WIDTH (m) **1.9 0.25 0.7 0.3 1.0** pH _____ TURB. **T M L D 60**

RES. POOL DEPTH (m) **1.5 0.35 0.1003** FLD SNS _____

W. By (m) **0.2 0.2 0.1 1.4** STAGE **OV H** No Vis. Ch. _____ Dry/Int. _____

COVER

SWD LWD B U DP OV IV CROWN CLOSURE

AMT **S T D P A T T**

LOC **A P P A P T T**

LWD FNC **N O A** DIST **C O** INSTREAM VEG **N A O V**

LB SHP **U V S O** RB SHP **U V S O**

TEXTURE **F G O B R A** TEXTURE **F G O B R A**

RIP VEG **N G S C D M W** RIP VEG **N G S C D M W**

STAGE **INIT SHR PS YF MF NA** STAGE **INIT SHR PS YF MF NA**

CONFINEMENT **EN CO FC OC UN N/A**

UTM **387**

TFH - shallow & seasonal creek, seeps through ground near xing but a 30 m / 10 perennial hole runs E or ON, some R exhibits that isolated from any FTS stream.

ROLL # | # | FOC LG | DIR | COMMENTS

D16 571 5T 4 Book

D16 578 5T 7 Book

GROUP | WILDLIFE OBSERVATIONS | GROUP | WILDLIFE OBSERVATIONS

C | stream mis-mapped - mapped location GPS'd WP148 - delete first | C

WS = 0.16, 0.11, 0.17, 0.21, 0.18, 0.16

Beasmas NED @ UTM 9689735-6964550

388

SITE CARD

STREAM NAME (local) A 82779-2

WATERSHED CODE 932076 ILP MAP # 7722 NID MAP # 100 NID # 0

REACH # 2 DATE 20071105 TIME 1515 AGENCY CO16 CREW MJ, BS ACCESS FU

CHANNEL (mtd) 1.05 GRADIENT % 0.05 EMS 0 TEMP C COND. S/cm

CHANNEL WIDTH (m) 1.05 WETTED WIDTH (m) 1.05 RES. POOL DEPTH (m) 0.05

W₉ (m) 0.05 STAGE L M H No Vis. Ch. DW Dry/Int. Tribes.

COVER: SWD LWD B U DP OV IV CROWN CLOSURE: 0 1 2 3 4 5

TEXTURE: F G C B R A RB SHP: U V S O

ISLANDS: N O I F S AN

COUPLING: DC PC CO

CONFINEMENT: EN CO FC OC UN N/A

PHOTO: R F

389

SITE CARD

STREAM NAME (local) A 82776-1

WATERSHED CODE 96032540155900 ILP MAP # 30 NID MAP # 200 NID # 0

REACH # 3 DATE 20071105 TIME 1645 AGENCY CO16 CREW MJ, BS ACCESS FU

CHANNEL (mtd) 0.5 GRADIENT % 0.07 EMS 5 TEMP C COND. 110 S/cm

CHANNEL WIDTH (m) 0.5 WETTED WIDTH (m) 0.5 RES. POOL DEPTH (m) 0.05

W₉ (m) 0.05 STAGE L M H No Vis. Ch. DW Dry/Int. Tribes.

COVER: SWD LWD B U DP OV IV CROWN CLOSURE: 0 1 2 3 4 5

TEXTURE: F G C B R A RB SHP: U V S O

ISLANDS: N O I F S AN

COUPLING: DC PC CO

CONFINEMENT: EN CO FC OC UN N/A

PHOTO: R F

390

Nothing to photograph

Mapped drainage doesn't exist

COMBINED FISH COLLECTION

GAZETTED NAME (local) A 82776-2 LAKE STREAM WETLAND

WATERSHED CODE 46032540255900 ILP MAP # 3 NID MAP # 200 NID # 0

REACH # 3 DATE 20071105 TIME 1645 AGENCY CO16 CREW MJ, BS ACCESS FU

PROJECT ID 3 FISH PERMIT # SM07-35801 RE-SAMPLE

DATE 20071105 TO 20071105 AGENCY CO16 CREW MJ, BS RE-SAMPLE

SITE # 164 MTD # EF1 H/P 1 SPECIES NPC STAGE 0 AGE 0 TOTAL # 0

NET/TRAP SPECIFICATIONS: C SITE # MTD # HAUL DATE IN TIME IN DATE OUT TIME OUT NET TYPE LENGTH DEPTH MESH SIZE SET HAR

392

SITE CARD

STREAM NAME (local) A 82776-2

WATERSHED CODE 932076 ILP MAP # 7722 NID MAP # 100 NID # 0

REACH # 1 DATE 20071105 TIME 1755 AGENCY CO16 CREW MJ, BS ACCESS FU

CHANNEL (mtd) 1.05 GRADIENT % 0.05 EMS 0 TEMP C COND. S/cm

CHANNEL WIDTH (m) 1.05 WETTED WIDTH (m) 1.05 RES. POOL DEPTH (m) 0.05

W₉ (m) 0.05 STAGE L M H No Vis. Ch. DW Dry/Int. Tribes.

COVER: SWD LWD B U DP OV IV CROWN CLOSURE: 0 1 2 3 4 5

TEXTURE: F G C B R A RB SHP: U V S O

ISLANDS: N O I F S AN

COUPLING: DC PC CO

CONFINEMENT: EN CO FC OC UN N/A

PHOTO: R F

395

Nothing to photograph

Drainage does not exist

SITE CARD

STREAM NAME (local) A 82776-2

WATERSHED CODE 932076 ILP MAP # 7722 NID MAP # 100 NID # 0

REACH # 1 DATE 20071105 TIME 1755 AGENCY CO16 CREW MJ, BS ACCESS FU

CHANNEL (mtd) 1.05 GRADIENT % 0.05 EMS 0 TEMP C COND. S/cm

CHANNEL WIDTH (m) 1.05 WETTED WIDTH (m) 1.05 RES. POOL DEPTH (m) 0.05

W₉ (m) 0.05 STAGE L M H No Vis. Ch. DW Dry/Int. Tribes.

COVER: SWD LWD B U DP OV IV CROWN CLOSURE: 0 1 2 3 4 5

TEXTURE: F G C B R A RB SHP: U V S O

ISLANDS: N O I F S AN

COUPLING: DC PC CO

CONFINEMENT: EN CO FC OC UN N/A

PHOTO: R F

396

SITE CARD

STREAM NAME (local) A 82776-2

WATERSHED CODE 932076 ILP MAP # 7722 NID MAP # 100 NID # 0

REACH # 1 DATE 20071105 TIME 1755 AGENCY CO16 CREW MJ, BS ACCESS FU

CHANNEL (mtd) 1.05 GRADIENT % 0.05 EMS 0 TEMP C COND. S/cm

CHANNEL WIDTH (m) 1.05 WETTED WIDTH (m) 1.05 RES. POOL DEPTH (m) 0.05

W₉ (m) 0.05 STAGE L M H No Vis. Ch. DW Dry/Int. Tribes.

COVER: SWD LWD B U DP OV IV CROWN CLOSURE: 0 1 2 3 4 5

TEXTURE: F G C B R A RB SHP: U V S O

ISLANDS: N O I F S AN

COUPLING: DC PC CO

CONFINEMENT: EN CO FC OC UN N/A

PHOTO: R F

396

761000593 SITE CARD (local) **A 82776-1**

STREAM NAME (local) **4604961001860029200**

WATERSHED CODE **4604961001860029200**

ILP MAP # **166** FIELD UTM **9 64282 605379 6P3** SITE LG **980.0** ACCESS **FR**

REACH # **2** DATE **20071120** TIME **0930** AGENCY **CO16** CREW **HJ 1B5** FISH FORM **D** N

CHANNEL (mhd) **222.4** **2.1** **1.9** **2025** GRADIENT % **AL** EMS **5** C **T3** COND. **80** S/cm **54**

CHANNEL WIDTH (m) **SE 1.2** WETTED WIDTH (m) **1.0** B **U** DP **OV** IV **IV** PH **10** TURB. **T M L D BE**

REL. POOL DEPTH (m) **NS 0.48** **0.93** **0.5** **0.27** FLD SNS **Extensive weeding, erosion**

W₁ (m) **0.3** **0.4** **0.4** **0.4** No Vis. Ch. **0** Dry/Int. **4** BED MATERIAL **D** **25** Morph **C**

COVER Type **T** SWD **L** W **B** U **DP** OV **IV** CROWN CLOSURE **0** DIST **0** **1** **2** **3** **4** **5**

LB SHIP **U** **V** **S** **D** RB SHIP **U** **V** **S** **D** PATTERN **TM** **ME** **IM** **IR** **ST**

TEXTURE **F** **G** **0** **0** **A** TEXTURE **F** **G** **0** **0** **A** ISLANDS **N** **O** **I** **F** **S** **AN**

RIP VEG. **N** **G** **S** **D** **M** **W** RIP VEG. **N** **G** **S** **D** **M** **W** BARS **N** **O** **DIAG** **MID** **SPAN** **BR**

STAGE **INIT** **SHR** **PS** **YF** **MF** **DF** STAGE **INIT** **SHR** **PS** **YF** **MF** **DF** COUPLING **DC** **PC** **CO**

CONFINEMENT **EN** **CO** **FC** **OC** **UN** **N/A**

FEATURES C NID MAP # **166** NID # **4** TYPE **F** HT (m) **4** PHOTO **SE R161582** COMMENTS **Barrier to fish** UTM **9 64282 605379 6P3**

Habitat affected by ranging cattle - banks trampled, water quality poor d/t cattle feces in stream, stream disturbed frequently as cattle wade through. Stream may dry out during drier years.

ROLL #	#	FOCLO	DIR	COMMENTS
DIG	583	UT	U	Rock
DIG	584	LT	D	Rock
DIG	582	ST	M	Deam

GROUP	WILDLIFE OBSERVATIONS	GROUP	WILDLIFE OBSERVATIONS
C	Channel measurements difficult to obtain d/t blockings.	C	Fish passage obstructed by dam @ xing (water retention for cattle (SS))

Unlikely fish use d/t significant environmental damage caused by ranging cattle.

398

760001315 COMBINED FISH COLLECTION (local) **A 82776-1** LAKE STREAM WETLAND

GAZETTED NAME **4604961001860029200**

WATERSHED CODE **4604961001860029200**

WATERBODY ID **166** ILP MAP # **166** SITE/LAKE CARD ATTACHED **X** **Y** **N**

PROJECT ID **2** FISH PERMIT # **5M07-35801**

DATE **20071120** to **20071120** AGENCY **CO16** CREW **HJ 1B5** RE-SAMPLE

SITE #	NID MAP #	NID #	SITE UTM	MTD/NO.	STREAM CONDITION	COMMENTS
166			9 64282 605379 6P3	EP1	5 80 C	W

SITE #	MTD/#	H/P	SPECIES	STAGE	AGE	TOTAL LENGTH	MIN LENGTH	MAX LENGTH	FISH AGE	COMMENTS
166	EP1	1	NFC			0				

NET / TRAP SPECIFICATIONS

C	SITE #	MTD/#	HAUL	DATE IN	TIME IN	DATE OUT	TIME OUT	NET TYPE	LENGTH	DEPTH	MESH SIZE	SET	HAB

399

SITE #	MTD/#	PASS	TIME IN	TIME OUT	EF SEC	LENGTH	WIDTH	ENCL	VOLTAGE	FREQ	PHASE	MAKE	MODEL
166	EP1	1	0900	1115	948	1000	1.5	0	500	80	6	SR	12B

SITE #	MTD/#	H/P	SPEC	LENGTH	WEIGHT	SEX	MATUR	STRUCTON	AGE SAMPLE #	AGE	VOUCHER #	GENETIC STRUCTON	SAMPLE #	COMMENTS	PHOTO
															R_F_

400

761000593 SITE CARD (local) **A 82776-1**

STREAM NAME (local) **4604961001860029200**

WATERSHED CODE **4604961001860029200**

ILP MAP # **167** FIELD UTM **9 643896 605379 6P3** SITE LG **430.0** ACCESS **FR**

REACH # **3.2** DATE **20071120** TIME **1330** AGENCY **CO16** CREW **HJ 1B5** FISH FORM **D** N

CHANNEL (mhd) **222.4** **2.1** **1.9** **2025** GRADIENT % **AL** EMS **5** C **T3** COND. **80** S/cm **54**

CHANNEL WIDTH (m) **T 0.9** **1.1** **0.7** **1.3** **1.1** **1.4** WETTED WIDTH (m) **1.0** B **U** DP **OV** IV **IV** PH **10** TURB. **T M L D BE**

REL. POOL DEPTH (m) **NS 0.48** **0.93** **0.5** **0.27** FLD SNS **Extensive weeding, erosion**

W₁ (m) **0.3** **0.4** **0.4** **0.4** No Vis. Ch. **0** Dry/Int. **4** BED MATERIAL **D** **25** Morph **C**

COVER Type **T** SWD **L** W **B** U **DP** OV **IV** CROWN CLOSURE **0** DIST **0** **1** **2** **3** **4** **5**

LB SHIP **U** **V** **S** **D** RB SHIP **U** **V** **S** **D** PATTERN **TM** **ME** **IM** **IR** **ST**

TEXTURE **F** **G** **0** **0** **A** TEXTURE **F** **G** **0** **0** **A** ISLANDS **N** **O** **I** **F** **S** **AN**

RIP VEG. **N** **G** **S** **D** **M** **W** RIP VEG. **N** **G** **S** **D** **M** **W** BARS **N** **O** **DIAG** **MID** **SPAN** **BR**

STAGE **INIT** **SHR** **PS** **YF** **MF** **DF** STAGE **INIT** **SHR** **PS** **YF** **MF** **DF** COUPLING **DC** **PC** **CO**

CONFINEMENT **EN** **CO** **FC** **OC** **UN** **N/A**

FEATURES C NID MAP # **167** NID # **4** TYPE **F** HT (m) **4** PHOTO **OR 161585** COMMENTS **impossible to collect** UTM **9 643896 605379 6P3**

Creek wide overall - no boulder barriels but for salmonids high isolated above 4m fall obstruction. No isolated fish pop life at falls.

ROLL #	#	FOCLO	DIR	COMMENTS
DIG	585	UT	U	Probe - falls
DIG	586	LT	D	Probe
DIG	587	ST	M	Probe

GROUP	WILDLIFE OBSERVATIONS	GROUP	WILDLIFE OBSERVATIONS
C	W19 = 0.35, 0.46, 0.78, 0.29, 0.41, 0.39 xing with 9.644117.6053773.	C	

402

760001315 COMBINED FISH COLLECTION (local) **A 82776-1** LAKE STREAM WETLAND

GAZETTED NAME **4604961001860029200**

WATERSHED CODE **4604961001860029200**

WATERBODY ID **167** ILP MAP # **167** SITE/LAKE CARD ATTACHED **X** **Y** **N**

PROJECT ID **2** FISH PERMIT # **5M07-35801**

DATE **20071120** to **20071120** AGENCY **CO16** CREW **HJ 1B5** RE-SAMPLE

SITE #	NID MAP #	NID #	SITE UTM	MTD/NO.	STREAM CONDITION	COMMENTS
167			9 643896 605379 6P3	EP1	5 80 C	

SITE #	MTD/#	H/P	SPECIES	STAGE	AGE	TOTAL LENGTH	MIN LENGTH	MAX LENGTH	FISH AGE	COMMENTS
167	EP1	1	NFC			0				

NET / TRAP SPECIFICATIONS

C	SITE #	MTD/#	HAUL	DATE IN	TIME IN	DATE OUT	TIME OUT	NET TYPE	LENGTH	DEPTH	MESH SIZE	SET	HAB

403

SITE #	MTD/#	PASS	TIME IN	TIME OUT	EF SEC	LENGTH	WIDTH	ENCL	VOLTAGE	FREQ	PHASE	MAKE	MODEL
167	EP1	1	1300	1330	608	430	1	0	400	90	6	SR	12B

SITE #	MTD/#	H/P	SPEC	LENGTH	WEIGHT	SEX	MATUR	STRUCTON	AGE SAMPLE #	AGE	VOUCHER #	GENETIC STRUCTON	SAMPLE #	COMMENTS	PHOTO
															R_F_

404

7610000593
SITE CARD

STREAM NAME (type) (local) A82778-1

WATERSHED CODE _____

ILP MAP # 93LD76 ILP # 77811 NID MAP # _____ NID # _____

REACH # 1 D SITE # 174 FIELD UTM 1636952 6064785 6P3 SITE LG 200.0 ACCESS FT

DATE 20.07.10.07 TIME 1.53.0 AGENCY CO16 CREW MJ BS FISH FORM Y 4b

CHANNEL (mtd) GRADIENT % _____ EMS _____ REG. # _____

CHANNEL WIDTH (m) 1.0 0.8 1.0 0.8 1.2 1.0 0.9 TEMP _____ COND. _____ S/cm _____

WETTED WIDTH (m) 1.2 0.8 0.5 0.8 1.2 0.8 0.5 pH _____ TURB. T M L C _____

RES. POOL DEPTH (m) 0.2 0.14 FLD SNS _____

W₁ D₁ (m) 0.2 0.17 0.15 STAGE L M H No Vis. Ch. Dry/Int. _____

COVER (mtd) CROWN CLOSURE _____

Type SWD LWD B U DP OV IV _____

AMT _____

LOC _____

LWD FNC N A DIST C E INSTREAM VEG N A M V PATTERN TM ME IM IR SI ST

LB SHP U V S O RB SHP U V S O ISLANDS N O I F S AN

TEXTURE F G C B R A TEXTURE F G C B R A BARS N SIDE DIAG MID SPAN BR

RIP VEG. N G S C D M W RIP VEG. N G S C D M W COUPLING DC PC CO

STAGE INIT SHR PS YF MF NA STAGE INIT SHR PS YF MF NA CONFINEMENT EN CD FC OC UN N/A

FEATURES

C NID MAP # NID # TYPE HT/LG (m) PHOTO COMMENTS UTM

421

NFB - small & moderately steep stream with deep incised channel. No S or O, some parental & hab but stream overall looks good but & drains to NFB parent stream.

ROLL #	#	FOC LG	DIR	COMMENTS
V10	602	ST	L	Bank
D10	604	ST	D	Bank
D10	605	ST	X	Bank - NCD portion

GROUP WILDLIFE OBSERVATIONS GROUP WILDLIFE OBSERVATIONS

C NFB = 0.18, 0.17, 0.19, 0.21, 0.18, 0.19
King VIM, 4.63664, 6064785
Barcode: NCD @ 191M
9.636632, 6064792.

S6/NCD

422

Oct 6, 2005 Wisc
420-525800 (5175A)

Big Cr Channel: Sit 7.8, 6.9, 5.6,
6.1, 5.2, 5.7, 6.7, 7.3

7610000593
SITE CARD

STREAM NAME (type) (local) A82784-1

WATERSHED CODE _____

ILP MAP # 93M008 ILP # 78417 NID MAP # _____ NID # _____

REACH # 1 D SITE # 176 FIELD UTM 91653275 6104398 6P3 SITE LG 100.0 ACCESS FT

DATE 20.07.10.08 TIME 09.20 AGENCY CO16 CREW MJ BS FISH FORM Y 2

CHANNEL (mtd) GRADIENT % _____ EMS _____ REG. # _____

CHANNEL WIDTH (m) _____ TEMP _____ COND. _____ S/cm _____

WETTED WIDTH (m) _____ pH _____ TURB. T M L C _____

RES. POOL DEPTH (m) _____ FLD SNS _____

W₁ D₁ (m) _____ STAGE L M H No Vis. Ch. Dry/Int. _____

COVER (mtd) CROWN CLOSURE _____

Type SWD LWD B U DP OV IV _____

AMT _____

LOC _____

LWD FNC N A DIST C E INSTREAM VEG N A M V PATTERN TM ME IM IR SI ST

LB SHP U V S O RB SHP U V S O ISLANDS N O I F S AN

TEXTURE F G C B R A TEXTURE F G C B R A BARS N SIDE DIAG MID SPAN BR

RIP VEG. N G S C D M W RIP VEG. N G S C D M W COUPLING DC PC CO

STAGE INIT SHR PS YF MF NA STAGE INIT SHR PS YF MF NA CONFINEMENT EN CD FC OC UN N/A

FEATURES

C NID MAP # NID # TYPE HT/LG (m) PHOTO COMMENTS UTM

423

NFB - wetland with surface flow through, 40 m channel with fluvium b/n wetlands, otherwise no fluvium or scoured channel bed - Not a stream

ROLL #	#	FOC LG	DIR	COMMENTS
D10	606	ST	4	Bank

GROUP WILDLIFE OBSERVATIONS GROUP WILDLIFE OBSERVATIONS

C

NCD/W3

424

7610000593
SITE CARD

STREAM NAME (type) (local) A82784-1

WATERSHED CODE _____

ILP MAP # 93M008 ILP # 78416 NID MAP # _____ NID # _____

REACH # 1 D SITE # 176 FIELD UTM 91653406 6104524 6P3 SITE LG 100.0 ACCESS FT

DATE 20.07.10.08 TIME 09.40 AGENCY CO16 CREW MJ BS FISH FORM Y 4b

CHANNEL (mtd) GRADIENT % _____ EMS _____ REG. # _____

CHANNEL WIDTH (m) _____ TEMP _____ COND. _____ S/cm _____

WETTED WIDTH (m) _____ pH _____ TURB. T M L C _____

RES. POOL DEPTH (m) _____ FLD SNS _____

W₁ D₁ (m) _____ STAGE L M H No Vis. Ch. Dry/Int. _____

COVER (mtd) CROWN CLOSURE _____

Type SWD LWD B U DP OV IV _____

AMT _____

LOC _____

LWD FNC N A DIST C E INSTREAM VEG N A M V PATTERN TM ME IM IR SI ST

LB SHP U V S O RB SHP U V S O ISLANDS N O I F S AN

TEXTURE F G C B R A TEXTURE F G C B R A BARS N SIDE DIAG MID SPAN BR

RIP VEG. N G S C D M W RIP VEG. N G S C D M W COUPLING DC PC CO

STAGE INIT SHR PS YF MF NA STAGE INIT SHR PS YF MF NA CONFINEMENT EN CD FC OC UN N/A

FEATURES

C NID MAP # NID # TYPE HT/LG (m) PHOTO COMMENTS UTM

425

NFB - seepage through alder corridor, descends over 18% slope in first 10m from "mouth", no scoured channel, fluvium or banks - not a stream

ROLL #	#	FOC LG	DIR	COMMENTS
D10	607	ST	4	Bank

GROUP WILDLIFE OBSERVATIONS GROUP WILDLIFE OBSERVATIONS

C

NCD

426

761000593
SITE CARD
 STREAM NAME (gatz) (local) A 82784-1
 WATERSHED CODE
 ILP MAP # 93M008 ILP # 78415 NID MAP # NID #
 REACH # 1 D SITE # 177 FIELD UTM 9 653456 604615 6P3 SITE LG 100.0 ACCESS FT
 DATE 7/20/08 TIME 09:50 AGENCY CO16 CREW HJ BS FISH FORM Y 0
 CHANNEL (mtd) GRADIENT % EMS TEMP COND S/cm
 CHANNEL WIDTH (m) WETTED WIDTH (m) RES. POOL DEPTH (m)
 W₁ D₁ (m) STAGE L M H No Vis. Ch DW Dry/Int. Tribs.
 COVER Type SWD LWD B U DP OV IV CROWN CLOSURE DISTURBANCE INDICATORS O1 B1 B2 B3 D1 D2 D3
 AMT LOC 0 1 2 3 4 5 C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
 LWD FNC N F A DIST C E INSTREAM VEG N A M V PATTERN TM ME IM IR SI ST
 LB SHP U V S O RB SHP U V S O ISLANDS N O I F S AN
 TEXTURE F G C B R A TEXTURE F G C B R A BARS N SIDE DIAG MID SPAN BR
 RIP. VEG. N G S C D M W RIP. VEG. N G S C D M W COUPLING DC PC CO
 STAGE INIT SHR PS YF MF NA STAGE INIT SHR PS YF MF NA CONFINEMENT EN CO FC OC UN N/A
 C NID MAP # NID # TYPE HT/LG (m) PHOTO COMMENTS UTM
 R F
 R F
 R F
 427

NFH - seepage through shale repeated by pines & alder
 of surface flow, no scarred channel, fluvium or banks -
 not a stream
 ROLL # # FOC LG DIR COMMENTS
 D16 608 SS U No scale
 GROUP WILDLIFE OBSERVATIONS GROUP WILDLIFE OBSERVATIONS
 NCD
 428

761000593
SITE CARD
 STREAM NAME (gatz) (local) A 82784-1
 WATERSHED CODE
 ILP MAP # 93M008 ILP # 78414 NID MAP # NID #
 REACH # 1 D SITE # 178 FIELD UTM 9 653674 610452 6P3 SITE LG 100.0 ACCESS FT
 DATE 7/20/08 TIME 10:20 AGENCY CO16 CREW HJ BS FISH FORM Y 0
 CHANNEL (mtd) GRADIENT % EMS TEMP COND S/cm
 CHANNEL WIDTH (m) WETTED WIDTH (m) RES. POOL DEPTH (m)
 W₁ D₁ (m) STAGE L M H No Vis. Ch DW Dry/Int. Tribs.
 COVER Type SWD LWD B U DP OV IV CROWN CLOSURE DISTURBANCE INDICATORS O1 B1 B2 B3 D1 D2 D3
 AMT LOC 0 1 2 3 4 5 C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
 LWD FNC N F A DIST C E INSTREAM VEG N A M V PATTERN TM ME IM IR SI ST
 LB SHP U V S O RB SHP U V S O ISLANDS N O I F S AN
 TEXTURE F G C B R A TEXTURE F G C B R A BARS N SIDE DIAG MID SPAN BR
 RIP. VEG. N G S C D M W RIP. VEG. N G S C D M W COUPLING DC PC CO
 STAGE INIT SHR PS YF MF NA STAGE INIT SHR PS YF MF NA CONFINEMENT EN CO FC OC UN N/A
 C NID MAP # NID # TYPE HT/LG (m) PHOTO COMMENTS UTM
 R F
 R F
 R F
 429

NFH - seepage through muddy corridor, some isolated scarred
 sections to the first 50 m where deposits over 10% slope,
 no continuity of fluvial deposits, scarred bed - not a stream
 ROLL # # FOC LG DIR COMMENTS
 D16 609 SS U Book
 GROUP WILDLIFE OBSERVATIONS GROUP WILDLIFE OBSERVATIONS
 NCD
 430

761000593
SITE CARD
 STREAM NAME (gatz) (local) A 82784-1
 WATERSHED CODE
 ILP MAP # 93M002 ILP # 78413 NID MAP # NID #
 REACH # 1 D SITE # 179 FIELD UTM 9 654087 610480 6P3 SITE LG 150.0 ACCESS FT
 DATE 7/20/08 TIME 10:45 AGENCY CO16 CREW HJ BS FISH FORM Y 0
 CHANNEL (mtd) GRADIENT % EMS TEMP COND S/cm
 CHANNEL WIDTH (m) WETTED WIDTH (m) RES. POOL DEPTH (m)
 W₁ D₁ (m) STAGE L M H No Vis. Ch DW Dry/Int. Tribs.
 COVER Type SWD LWD B U DP OV IV CROWN CLOSURE DISTURBANCE INDICATORS O1 B1 B2 B3 D1 D2 D3
 AMT LOC 0 1 2 3 4 5 C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
 LWD FNC N F A DIST C E INSTREAM VEG N A M V PATTERN TM ME IM IR SI ST
 LB SHP U V S O RB SHP U V S O ISLANDS N O I F S AN
 TEXTURE F G C B R A TEXTURE F G C B R A BARS N SIDE DIAG MID SPAN BR
 RIP. VEG. N G S C D M W RIP. VEG. N G S C D M W COUPLING DC PC CO
 STAGE INIT SHR PS YF MF NA STAGE INIT SHR PS YF MF NA CONFINEMENT EN CO FC OC UN N/A
 C NID MAP # NID # TYPE HT/LG (m) PHOTO COMMENTS UTM
 R F
 R F
 R F
 431

NFH - seepage through gully @ 10-13% channelized in
 lower section for 20m then mix overland & scarred
 channel sections; totally dissipate 10m away from parent
 stream; lacks continuous scour, fluvium & channel - not
 a stream
 ROLL # # FOC LG DIR COMMENTS
 D16 610 SS U Book
 GROUP WILDLIFE OBSERVATIONS GROUP WILDLIFE OBSERVATIONS
 NCD
 432

761000593
SITE CARD
 STREAM NAME (gatz) (local) A 82784-1
 WATERSHED CODE
 ILP MAP # 93M008 ILP # 78412 NID MAP # NID #
 REACH # 1 D SITE # 180 FIELD UTM 9 654278 610502 6P3 SITE LG 100.0 ACCESS FT
 DATE 7/20/08 TIME 11:20 AGENCY CO16 CREW HJ BS FISH FORM Y 0
 CHANNEL (mtd) GRADIENT % EMS TEMP COND S/cm
 CHANNEL WIDTH (m) WETTED WIDTH (m) RES. POOL DEPTH (m)
 W₁ D₁ (m) STAGE L M H No Vis. Ch DW Dry/Int. Tribs.
 COVER Type SWD LWD B U DP OV IV CROWN CLOSURE DISTURBANCE INDICATORS O1 B1 B2 B3 D1 D2 D3
 AMT LOC 0 1 2 3 4 5 C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
 LWD FNC N F A DIST C E INSTREAM VEG N A M V PATTERN TM ME IM IR SI ST
 LB SHP U V S O RB SHP U V S O ISLANDS N O I F S AN
 TEXTURE F G C B R A TEXTURE F G C B R A BARS N SIDE DIAG MID SPAN BR
 RIP. VEG. N G S C D M W RIP. VEG. N G S C D M W COUPLING DC PC CO
 STAGE INIT SHR PS YF MF NA STAGE INIT SHR PS YF MF NA CONFINEMENT EN CO FC OC UN N/A
 C NID MAP # NID # TYPE HT/LG (m) PHOTO COMMENTS UTM
 R F
 R F
 R F
 433

NFH
 Nothing to photograph
 ROLL # # FOC LG DIR COMMENTS
 D16 611 SS U
 GROUP WILDLIFE OBSERVATIONS GROUP WILDLIFE OBSERVATIONS
 Drainage does not exist
 NA
 434

761000593
SITE CARD
 (local) A 82784-1

STREAM NAME (local) []
 WATERSHED CODE []
 ILP MAP # 93M008 ILP # 78411 NID MAP # [] NID # []
 REACH # 1 D SITE # 181 FIELD UTM 9 654323 6105603 693 SITE LG 400.0 ACCESS FJ
 DATE 20.07.10.08 TIME 12:45 AGENCY CO16 CREW HJ BS FISH FORM (1) N

CHANNEL width and GRADIENT %
 CHANNEL WIDTH (m) 1.06 1.0 0.9 0.8
 WETTED WIDTH (m) 1.06 0.7 0.6 0.7 0.6 0.6
 RES. POOL DEPTH (m) 1.5 0.9 0.2 0.6
 W₁ (m) 0.2 0.2 0.1 1.5 STAGE L V H No Vis. Ch. Dry/Int. DW Tribs.

COVER Type SWD LWD B U DP OV IV CROWN CLOSURE
 AMT ST N S T D N
 LOC P T A R

LB SHP U D S O BB SHP U V S O
 TEXTURE F G C B R A
 RIP. VEG. N G S C D M W
 STAGE INIT SHR PS YF MF NA

EMIS TEMP 4 C 73 COND. 60 S/cm
 pH 0.5 0.5
 FLD SNS None
 BED MATERIAL Dominant F Subdom. MF LC
 DWS (cm) 10 D (cm) 1.0 Morph. []
 DISTURBANCE INDICATORS O1 B1 B2 B3 D1 D2 D3
 C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
 PATTERN TM ME IM IR SI ST
 ISLANDS N O I F S AN
 BARS N SIDE DIAG MID SPAN BR
 COUPLING DC PC CO
 CONFINEMENT EN CO FC OC UN N/A

FEATURES C NID MAP # NID # TYPE HT / LG (m) PHOTO COMMENTS UTM
 R F
 R F
 R F
 R F
 435

R - usable for CP, however only seasonally as stream likely is dry during drier seasons
 DW - none, S - none - only fines in substrate

ROLL # # FOC LG DIR COMMENTS
 DIG 611 ST 4 Bank
 DIG 612 ST D Bank

GROUP WILDLIFE OBSERVATIONS GROUP WILDLIFE OBSERVATIONS

C WB = 0.12, 0.19, 0.15, 0.16, 0.15,
 becomes NCD @ UTM
 0.654460.6105390
 S4/NCD
 436

57365

760001315
COMBINED FISH COLLECTION
 (local) A 82784-1 LAKE STREAM WETLAND

GAZETTE NAME []
 WATERSHED CODE []
 WATERBODY ID [] ILP MAP # 93M008 ILP # 78411 SITE LAKE CARD ATTACHED Y N
 PROJECT ID [] REACH # [] FISH PERMIT # SM07-35801

DATE 20.07.10.08 to [] AGENCY CO16 CREW HJ BS RE-SAMPLE

SITE # NID MAP # NID # SITE UTM MTD / NO. STREAM CONDITION COMMENTS
 181 9 654323 6105603 693 EF 1 4 60 C

SITE # MTD / # H / P SPECIES STAGE AGE TOTAL # MIN LENGTH MAX LENGTH FISH ACT COMMENTS
 181 EF 1 1 NFC 0

NET / TRAP SPECIFICATIONS
 C SITE # MTD / # HAUL DATE IN TIME IN DATE OUT TIME OUT NET TYPE LENGTH DEPTH MESH SIZE SET HAB
 437

C SITE # MTD / # PASS TIME IN TIME OUT # SEC LENGTH WIDTH ENCL VOLTAGE FREQ PULSE MAKE MODEL
 181 EF 1 1 1250 1315 166 200 0.6 0 600 80 6 3A 12B

C SITE # MTD / # H / P SPEC LENGTH WEIGHT SEX MATURE AGE STRUCTURE VOUCHER # GENETIC STRUCTURE COMMENTS PHOTO
 438

57365

761000593
SITE CARD
 (local) A 82784-1

STREAM NAME (local) []
 WATERSHED CODE []
 ILP MAP # 93M008 ILP # 78412 NID MAP # [] NID # []
 REACH # 2 D SITE # 182 FIELD UTM 9 655171 6104841 693 SITE LG 100.0 ACCESS FT
 DATE 20.07.10.08 TIME 14:30 AGENCY CO16 CREW HJ BS FISH FORM Y (1) N

CHANNEL width and GRADIENT %
 CHANNEL WIDTH (m) []
 WETTED WIDTH (m) []
 RES. POOL DEPTH (m) []
 W₁ (m) [] STAGE L M H No Vis. Ch. Dry/Int. DW Tribs.

COVER Type SWD LWD B U DP OV IV CROWN CLOSURE
 AMT []
 LOC []

LB SHP U D S O BB SHP U V S O
 TEXTURE F G C B R A
 RIP. VEG. N G S C D M W
 STAGE INIT SHR PS YF MF NA

EMIS TEMP C COND. S/cm
 pH []
 FLD SNS None
 BED MATERIAL Dominant C Subdom. B
 DWS (cm) 55 D (cm) 14 Morph. CF
 DISTURBANCE INDICATORS O1 B1 B2 B3 D1 D2 D3
 C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
 PATTERN TM ME IM IR SI ST
 ISLANDS N O I F S AN
 BARS N SIDE DIAG MID SPAN BR
 COUPLING DC PC CO
 CONFINEMENT EN CO FC OC UN N/A

FEATURES C NID MAP # NID # TYPE HT / LG (m) PHOTO COMMENTS UTM
 R F
 R F
 R F
 R F
 439

NFH - shrubby plateau/bench flow - water seasonally puddles up, no channel, sand or silt observed - not a stream!

ROLL # # FOC LG DIR COMMENTS
 DIG 613 ST X No scale

GROUP WILDLIFE OBSERVATIONS GROUP WILDLIFE OBSERVATIONS

C []
 NCD
 440

57365

761000593
SITE CARD
 (local) A-82784-1

STREAM NAME (local) 4801531.09005800
 WATERSHED CODE []
 ILP MAP # [] ILP # 183 NID MAP # [] NID # []
 REACH # 2 D SITE # 183 FIELD UTM 9 654762 6103815 693 SITE LG 200.0 ACCESS FT
 DATE 20.07.10.08 TIME 16:40 AGENCY CO16 CREW HJ BS FISH FORM Y (1) N

CHANNEL width and GRADIENT %
 CHANNEL WIDTH (m) 4.26 3.4 3.0 3.0 3.5 2.8
 WETTED WIDTH (m) 4.25 2.4 2.3 3.0 3.1 2.2
 RES. POOL DEPTH (m) 1.5 0.2 0.3
 W₁ (m) 0.4 0.4 0.5 STAGE L H No Vis. Ch. Dry/Int. DW Tribs.

COVER Type SWD LWD B U DP OV IV CROWN CLOSURE
 AMT T P S D S T T T
 LOC 0 1 0 3 4 5

LB SHP U D S O BB SHP U V S O
 TEXTURE F G C B R A
 RIP. VEG. N G S C D M W
 STAGE INIT SHR PS YF MF NA

EMIS TEMP 4 C 73 COND. S/cm
 pH 6.4
 FLD SNS None
 BED MATERIAL Dominant C Subdom. B
 DWS (cm) 55 D (cm) 14 Morph. CF
 DISTURBANCE INDICATORS O1 B1 B2 B3 D1 D2 D3
 C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
 PATTERN TM ME IM IR SI ST
 ISLANDS N O I F S AN
 BARS N SIDE DIAG MID SPAN BR
 COUPLING DC PC CO
 CONFINEMENT EN CO FC OC UN N/A

FEATURES C NID MAP # NID # TYPE HT / LG (m) PHOTO COMMENTS UTM
 R F
 R F
 R F
 R F
 441

R - G - creek stable d/d abundance of B & LWD, no eroded benches present
 S - F - usable & patches present, holding fair under shallow entrenches
 D - none.

ROLL # # FOC LG DIR COMMENTS
 DIG 614 ST 4 Probe
 DIG 615 ST D Probe

GROUP WILDLIFE OBSERVATIONS GROUP WILDLIFE OBSERVATIONS

C WB = 0.44, 0.42, 0.41, 0.47, 0.46, 0.38
 Not sampled d/d CP refunction
 but no obstructions to mud from Tributary site to 100m
 4/4
 442

57365

761000593
SITE CARD
A 82783-1

WATERSHED CODE: A 82783-1

RP MAP # 93M007 IP # 78312 NID MAP # NID #
REACH # 1 D SITE # 187 FIELD UTM 9 650946 6105716 6P3 SITE LG 100.0 ACCESS FT

DATE 20071109 TIME 08:50 AGENCY CO16 CREW MJ BS

CHANNEL width (m) GRADIENT % EMS TEMP COND. S/cm
WETTED WIDTH (m) pH FLD SNS BED MATERIAL Dominant Subdom.
RES. POOL DEPTH (m) DWS (cm) D (cm) Morph.

COVER Type SWD LWD B U DP OV IV CROWN CLOSURE DISTURBANCE INDICATORS O1 B1 B2 B3 D1 D2 D3
AMT LOC 0 1 2 3 4 5 C1 C2 C3 C4 C5 S1 S2 S3 S4 S5

LWD FNC N F A DIST P E INSTREAM VEG N A M V PATTERN TM ME IM IR SI ST
LB SHP U V S D RB SHP U V S D ISLANDS N O I F S AN
TEXTURE F G C B R A TEXTURE F G C B R A BARS N SIDE DIAG MID SPAN BR
RIP VEG N G S C D M W RIP VEG N G S C D M W COUPLING DC PC CO
STAGE INIT SHR PS YF MF NA STAGE INIT SHR PS YF MF NA CONFINEMENT EN CO FC OC UN N/A

FEATURES C NID MAP # NID # TYPE HT/LG (m) PHOTO COMMENTS UTM
R F
R F
R F
R F
443

NFH - extremely muddy with standing water, no scour, fluvial deposits of banks - just a stream

ROLL # 616 DIR 617 ST 4 COMMENTS No scale

GROUP WILDLIFE OBSERVATIONS GROUP WILDLIFE OBSERVATIONS

NCD
444

761000593
SITE CARD
A 82783-1

WATERSHED CODE: A 82783-1

RP MAP # 93M007 IP # 78313 NID MAP # NID #
REACH # 1 D SITE # 188 FIELD UTM 9 651016 6105716 6P3 SITE LG 300.0 ACCESS FT

DATE 20071109 TIME 09:20 AGENCY CO16 CREW MJ BS

CHANNEL width (m) GRADIENT % EMS TEMP COND. S/cm
WETTED WIDTH (m) pH FLD SNS BED MATERIAL Dominant Subdom.
RES. POOL DEPTH (m) DWS (cm) D (cm) Morph.

COVER Type SWD LWD B U DP OV IV CROWN CLOSURE DISTURBANCE INDICATORS O1 B1 B2 B3 D1 D2 D3
AMT LOC 0 1 2 3 4 5 C1 C2 C3 C4 C5 S1 S2 S3 S4 S5

LWD FNC N F A DIST P E INSTREAM VEG N A M V PATTERN TM ME IM IR SI ST
LB SHP U V S D RB SHP U V S D ISLANDS N O I F S AN
TEXTURE F G C B R A TEXTURE F G C B R A BARS N SIDE DIAG MID SPAN BR
RIP VEG N G S C D M W RIP VEG N G S C D M W COUPLING DC PC CO
STAGE INIT SHR PS YF MF NA STAGE INIT SHR PS YF MF NA CONFINEMENT EN CO FC OC UN N/A

FEATURES C NID MAP # NID # TYPE HT/LG (m) PHOTO COMMENTS UTM
R F
R F
R F
R F
445

NFH - 15-20m wide deep creek with pockets of standing water, no connectivity and scour, fluvium on channel - just a stream

ROLL # 616 DIR 618 ST 4 COMMENTS No scale

GROUP WILDLIFE OBSERVATIONS GROUP WILDLIFE OBSERVATIONS

Unmapped drainage - GPS'd
Scourage disturbed by the plant/d construction - water collects on the east side of right of way
NCD
446

761000593
SITE CARD
A 82783-1

WATERSHED CODE: A 82783-1

RP MAP # 93M007 IP # 78314 NID MAP # NID #
REACH # 1 D SITE # 186 FIELD UTM 9 650920 6105716 6P3 SITE LG 100.0 ACCESS FT

DATE 20071109 TIME 09:50 AGENCY CO16 CREW MJ BS

CHANNEL width (m) GRADIENT % EMS TEMP COND. S/cm
WETTED WIDTH (m) pH FLD SNS BED MATERIAL Dominant Subdom.
RES. POOL DEPTH (m) DWS (cm) D (cm) Morph.

COVER Type SWD LWD B U DP OV IV CROWN CLOSURE DISTURBANCE INDICATORS O1 B1 B2 B3 D1 D2 D3
AMT LOC 0 1 2 3 4 5 C1 C2 C3 C4 C5 S1 S2 S3 S4 S5

LWD FNC N F A DIST P E INSTREAM VEG N A M V PATTERN TM ME IM IR SI ST
LB SHP U V S D RB SHP U V S D ISLANDS N O I F S AN
TEXTURE F G C B R A TEXTURE F G C B R A BARS N SIDE DIAG MID SPAN BR
RIP VEG N G S C D M W RIP VEG N G S C D M W COUPLING DC PC CO
STAGE INIT SHR PS YF MF NA STAGE INIT SHR PS YF MF NA CONFINEMENT EN CO FC OC UN N/A

FEATURES C NID MAP # NID # TYPE HT/LG (m) PHOTO COMMENTS UTM
R F
R F
R F
R F
447

NFH - Scourage/overland flow through a 20-25m wide pullie bottom vegetated meadow by alder and some willows with few shrubs. No scoured channel, fluvium or scars - just isolated pools with standing water. No channel 4/5 of the King.

ROLL # 616 DIR 619 ST 4 COMMENTS book

GROUP WILDLIFE OBSERVATIONS GROUP WILDLIFE OBSERVATIONS

Drainage misclassified by Trifon in 1997!
NCD
448

761000593
SITE CARD
A 82783-1

WATERSHED CODE: A 82783-1

RP MAP # 93M007 IP # 78311 NID MAP # NID #
REACH # 4 D SITE # 187 FIELD UTM 9 651750 6105370 6P3 SITE LG 630.0 ACCESS FT

DATE 20071109 TIME 10:45 AGENCY CO16 CREW MJ BS

CHANNEL width (m) GRADIENT % EMS TEMP COND. S/cm
WETTED WIDTH (m) pH FLD SNS BED MATERIAL Dominant Subdom.
RES. POOL DEPTH (m) DWS (cm) D (cm) Morph.

COVER Type SWD LWD B U DP OV IV CROWN CLOSURE DISTURBANCE INDICATORS O1 B1 B2 B3 D1 D2 D3
AMT LOC 0 1 2 3 4 5 C1 C2 C3 C4 C5 S1 S2 S3 S4 S5

LWD FNC N F A DIST P E INSTREAM VEG N A M V PATTERN TM ME IM IR SI ST
LB SHP U V S D RB SHP U V S D ISLANDS N O I F S AN
TEXTURE F G C B R A TEXTURE F G C B R A BARS N SIDE DIAG MID SPAN BR
RIP VEG N G S C D M W RIP VEG N G S C D M W COUPLING DC PC CO
STAGE INIT SHR PS YF MF NA STAGE INIT SHR PS YF MF NA CONFINEMENT EN CO FC OC UN N/A

FEATURES C NID MAP # NID # TYPE HT/LG (m) PHOTO COMMENTS UTM
R F
R F
R F
R F
449

R - Good R habitat for DV/CT (RBI) however sampling due to wetness of season proved to be inconclusive. Sd OW - none - stream too shallow & lacks suitable substrate

Access may be impeded by W/ds CV @ King or stream may not be utilized by fish of all. Requires resampling in spring

ROLL # 616 DIR 620 ST 4 COMMENTS Book
616 DIR 621 ST 4 COMMENTS Book

GROUP WILDLIFE OBSERVATIONS GROUP WILDLIFE OBSERVATIONS

UWH 9.651750 6105370 stream disturbed for ~9m by nest logjam structures - stream flows over logjam & channel not quite developed yet - old channel abandoned - stream channelized for how along old outside bank on west side.
W/B: 0.29, 0.36, 0.32, 0.36, 0.31, 0.32
Access impeded by CV - logjam seems top wall - found on W side of the road.
IF EB 53/54 @ UWH 9.651665 6105716 (diff. reach also) - more W 150m upstream (Vox) C/D: 1.45, 1.3, 1.3 1.6, 1.4 % = 1
450

7610000593
SITE CARD
 STREAM NAME (local) # 82787-1
 WATERSHED CODE
 R/P MAP # 93M008 R/P # 78711
 REACH # 0 SITE # 194 FIELD UTM 9 656412 6102079 GFS SITE LG 200.0 ACCESS FT
 DATE 20071101 TIME 1:10.5 AGENCY CO16 CREW M3, B5
 CHANNEL
 CHANNEL WIDTH (m) GRADIENT %
 WETTED WIDTH (m) EMS
 RES. POOL DEPTH (m) TEMP COND. S/cm
 W₂ D₂ (m) FLD SNS
 COVER
 Type SWD LWD B U DP OV IV
 AMT
 LOC
 CROWN CLOSURE
 DISTURBANCE INDICATORS
 D1 B1 B2 B3 D1 D2 D3
 C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
 LWD FNC N F A DIST C E INSTREAM VEG N A M V PATTERN TM ME IM IR SI ST
 LB SHP U V S O RB SHP U V S O ISLANDS N O I F S AN
 TEXTURE F G C B R A TEXTURE F G C B R A BARS N SIDE DIAG MID SPAN BR
 RIP VEG N G S C D M W RIP VEG N G S C D M W COUPLING DC PC CO
 STAGE INIT SHR PS YF MF NA STAGE INIT SHR PS YF MF NA CONFINEMENT EN CO FC OC UN N/A
 FEATURES
 C NID MAP # NID # TYPE HT / LG (m) PHOTO COMMENTS UTM
 R F
 R F
 R F
 R F
 459

NPH - seepage through small puddle, no flowing, scoured channel bed or banks - not a stream - just bunch of puddles

ROLL # # FOC LG DIR COMMENTS
 D16 628 ST Y No scale

GROUP WILDLIFE OBSERVATIONS GROUP WILDLIFE OBSERVATIONS

C

460

7610000593
SITE CARD
 STREAM NAME (local) # 82787-1
 WATERSHED CODE 4805319010
 R/P MAP # 20 R/P # 192
 REACH # 20 SITE # 192 FIELD UTM 9 656539 6102093 GFS SITE LG 150.0 ACCESS FT
 DATE 20071101 TIME 1:14.0 AGENCY CO16 CREW M3, B5
 CHANNEL
 CHANNEL WIDTH (m) GRADIENT %
 WETTED WIDTH (m) EMS
 RES. POOL DEPTH (m) TEMP COND. S/cm
 W₂ D₂ (m) FLD SNS
 COVER
 Type SWD LWD B U DP OV IV
 AMT
 LOC
 CROWN CLOSURE
 DISTURBANCE INDICATORS
 D1 B1 B2 B3 D1 D2 D3
 C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
 LWD FNC N F A DIST C E INSTREAM VEG N A M V PATTERN TM ME IM IR SI ST
 LB SHP U V S O RB SHP U V S O ISLANDS N O I F S AN
 TEXTURE F G C B R A TEXTURE F G C B R A BARS N SIDE DIAG MID SPAN BR
 RIP VEG N G S C D M W RIP VEG N G S C D M W COUPLING DC PC CO
 STAGE INIT SHR PS YF MF NA STAGE INIT SHR PS YF MF NA CONFINEMENT EN CO FC OC UN N/A
 FEATURES
 C NID MAP # NID # TYPE HT / LG (m) PHOTO COMMENTS UTM
 R F
 R F
 R F
 R F
 461

A - Good @ any flow, creek stable, no erosion noted d/t presence of boulders
 SC gravel present, somewhat remnant of splay, not much holding in place
 D - bank - no significant pools noted

ROLL # # FOC LG DIR COMMENTS
 D16 629 ST Y Book
 D16 630 ST D Book

GROUP WILDLIFE OBSERVATIONS GROUP WILDLIFE OBSERVATIONS

C

Not sampled - d/t low water temp → easy access - no obstruction noted
 1st SC → CW ~ 2.5 m, 2.3 m in U
 2nd SC - CW ~ 1.7 m

462

7610000593
SITE CARD
 STREAM NAME (local) # 82787-1
 WATERSHED CODE 4805310002345213210
 R/P MAP # 93M008 R/P # 78712
 REACH # 20 SITE # 193
 FIELD UTM 9 656777 6102026 GFS SITE LG 300.0 ACCESS FT
 DATE 20071101 TIME 1:24.55 AGENCY CO16 CREW M3, B5
 CHANNEL
 CHANNEL WIDTH (m) GRADIENT %
 WETTED WIDTH (m) EMS
 RES. POOL DEPTH (m) TEMP COND. S/cm
 W₂ D₂ (m) FLD SNS
 COVER
 Type SWD LWD B U DP OV IV
 AMT
 LOC
 CROWN CLOSURE
 DISTURBANCE INDICATORS
 D1 B1 B2 B3 D1 D2 D3
 C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
 LWD FNC N F A DIST C E INSTREAM VEG N A M V PATTERN TM ME IM IR SI ST
 LB SHP U V S O RB SHP U V S O ISLANDS N O I F S AN
 TEXTURE F G C B R A TEXTURE F G C B R A BARS N SIDE DIAG MID SPAN BR
 RIP VEG N G S C D M W RIP VEG N G S C D M W COUPLING DC PC CO
 STAGE INIT SHR PS YF MF NA STAGE INIT SHR PS YF MF NA CONFINEMENT EN CO FC OC UN N/A
 FEATURES
 C NID MAP # NID # TYPE HT / LG (m) PHOTO COMMENTS UTM
 R F
 R F
 R F
 R F
 463

NPH - drainage through shallow puddle with fragmented scoured channel bed, banks & fluvial deposits, they become stream 100m further d/s as channel becomes more pronounced @ site location.

ROLL # # FOC LG DIR COMMENTS
 D16 631 ST Y Book

GROUP WILDLIFE OBSERVATIONS GROUP WILDLIFE OBSERVATIONS

C

Drainage refers out 400 m d/s from site location according to notes 97

464

7610000593
SITE CARD
 STREAM NAME (local) # 82787-2
 WATERSHED CODE 48053100023452182150
 R/P MAP # 93M008 R/P # 78721
 REACH # 0 SITE # 194
 FIELD UTM 9 657167 6102314 GFS SITE LG 200.0 ACCESS FT
 DATE 20071101 TIME 1:34.0 AGENCY CO16 CREW M3, B5
 CHANNEL
 CHANNEL WIDTH (m) GRADIENT %
 WETTED WIDTH (m) EMS
 RES. POOL DEPTH (m) TEMP COND. S/cm
 W₂ D₂ (m) FLD SNS
 COVER
 Type SWD LWD B U DP OV IV
 AMT
 LOC
 CROWN CLOSURE
 DISTURBANCE INDICATORS
 D1 B1 B2 B3 D1 D2 D3
 C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
 LWD FNC N F A DIST C E INSTREAM VEG N A M V PATTERN TM ME IM IR SI ST
 LB SHP U V S O RB SHP U V S O ISLANDS N O I F S AN
 TEXTURE F G C B R A TEXTURE F G C B R A BARS N SIDE DIAG MID SPAN BR
 RIP VEG N G S C D M W RIP VEG N G S C D M W COUPLING DC PC CO
 STAGE INIT SHR PS YF MF NA STAGE INIT SHR PS YF MF NA CONFINEMENT EN CO FC OC UN N/A
 FEATURES
 C NID MAP # NID # TYPE HT / LG (m) PHOTO COMMENTS UTM
 R F
 R F
 R F
 R F
 465

NPH - swampy area with isolated puddles, no scoured channel bed, fluvial deposits or banks - not a stream

ROLL # # FOC LG DIR COMMENTS
 D16 632 ST X No scale

GROUP WILDLIFE OBSERVATIONS GROUP WILDLIFE OBSERVATIONS

C

466

7610000593
SITE CARD
 A82787-2

STREAM NAME (gsz) (total) _____
 WATERSHED CODE _____
 R/P MAP # 93M008 R/P # 78722 NID MAP # _____ NID # _____
 REACH # 1A SITE # 195 FIELD UTM 9 657427 610937 6P3 SITE LG 100.0 ACCESS FT
 DATE 2007/10/10 TIME 7:430 AGENCY CO16 CREW MJ, BS FISH FORM Y (D)

CHANNEL (msh) (total) GRADIENT % _____ EMS _____
 CHANNEL WIDTH (m) _____ TEMP C _____ COND. S/cm _____
 WETTED WIDTH (m) _____ pH _____ TURB. T M L C _____
 RES. POOL DEPTH (m) _____ FLD SNS _____

W₁ Dp (m) _____ STAGE L M H _____ No Vrs. Ch. Dry/Int. Tribes. _____
 COVER (Total) _____
 Type SWD LWD B U DP OV IV CROWN CLOSURE _____
 AMT _____ DISTURBANCE INDICATORS O1 B1 B2 B3 D1 D2 D3 _____
 LOC _____ C1 C2 C3 C4 C5 S1 S2 S3 S4 S5 _____

LWD FNC N F A DIST C E INSTREAM VEG N A M V PATTERN TM ME IM IR SI ST
 LB SHP U V S O RB SHP U V S O ISLANDS N O I F S AN
 TEXTURE F G C B R A TEXTURE F G C B R A BARS N SIDE DIAG MID SPAN BR
 RIP VEG. N G S C D M W RIP VEG. N G S C D M W COUPLING DC PC CO
 STAGE INIT SHR PS YF MF NA STAGE INIT SHR PS YF MF NA CONFINEMENT EN CO FC OC UN N/A

FEATURES
 C NID MAP # NID # TYPE HT/LG (m) (msh) PHOTO COMMENTS UTM
 R F _____
 R F _____
 R F _____
 R F _____

467

NFH

ROLL # # FOC LG DIR COMMENTS

Nothing to photograph

GROUP WILDLIFE OBSERVATIONS GROUP WILDLIFE OBSERVATIONS

C
 Drainage does not exist there is only a 90m wetland intrusion towards drainage and then nothing but forest floor. Mismapped - drains other way to NE

NA 468

7610000593

7610000593
SITE CARD
 A82781-1

STREAM NAME (gsz) (total) _____
 WATERSHED CODE 4805310002345218250
 R/P MAP # 93M008 R/P # 78722 NID MAP # _____ NID # _____
 REACH # 3 D SITE # 196 FIELD UTM 9 657420 610710 6P3 SITE LG 100.0 ACCESS FT
 DATE 2007/10/10 TIME 7:500 AGENCY CO16 CREW MJ, BS FISH FORM Y (D)

CHANNEL (msh) (total) GRADIENT % _____ EMS _____
 CHANNEL WIDTH (m) _____ TEMP C _____ COND. S/cm _____
 WETTED WIDTH (m) _____ pH _____ TURB. T M L C _____
 RES. POOL DEPTH (m) _____ FLD SNS _____

W₁ Dp (m) _____ STAGE L M H _____ No Vrs. Ch. Dry/Int. Tribes. _____
 COVER (Total) _____
 Type SWD LWD B U DP OV IV CROWN CLOSURE _____
 AMT _____ DISTURBANCE INDICATORS O1 B1 B2 B3 D1 D2 D3 _____
 LOC _____ C1 C2 C3 C4 C5 S1 S2 S3 S4 S5 _____

LWD FNC N F A DIST C E INSTREAM VEG N A M V PATTERN TM ME IM IR SI ST
 LB SHP U V S O RB SHP U V S O ISLANDS N O I F S AN
 TEXTURE F G C B R A TEXTURE F G C B R A BARS N SIDE DIAG MID SPAN BR
 RIP VEG. N G S C D M W RIP VEG. N G S C D M W COUPLING DC PC CO
 STAGE INIT SHR PS YF MF NA STAGE INIT SHR PS YF MF NA CONFINEMENT EN CO FC OC UN N/A

FEATURES
 C NID MAP # NID # TYPE HT/LG (m) (msh) PHOTO COMMENTS UTM
 R F _____
 R F _____
 R F _____
 R F _____

469

NFH - seepage through, water with some isolated (algae) puddles & no scum, silt or banks - not a stream

ROLL # # FOC LG DIR COMMENTS

DIG 633 ST 4 Book (Delete photo)

GROUP WILDLIFE OBSERVATIONS GROUP WILDLIFE OBSERVATIONS

C
 Does not exist

NA 470

7610000593

7610000593
SITE CARD
 A82787-1

STREAM NAME (gsz) (total) _____
 WATERSHED CODE _____
 R/P MAP # 93M008 R/P # 78722 NID MAP # _____ NID # _____
 REACH # 1 D SITE # 197 FIELD UTM 9 657423 610754 6P3 SITE LG 100.66 ACCESS FT
 DATE 2007/10/10 TIME 7:520 AGENCY CO16 CREW MJ, BS FISH FORM Y (D)

CHANNEL (msh) (total) GRADIENT % _____ EMS _____
 CHANNEL WIDTH (m) _____ TEMP C _____ COND. S/cm _____
 WETTED WIDTH (m) _____ pH _____ TURB. T M L C _____
 RES. POOL DEPTH (m) _____ FLD SNS _____

W₁ Dp (m) _____ STAGE L M H _____ No Vrs. Ch. Dry/Int. Tribes. _____
 COVER (Total) _____
 Type SWD LWD B U DP OV IV CROWN CLOSURE _____
 AMT _____ DISTURBANCE INDICATORS O1 B1 B2 B3 D1 D2 D3 _____
 LOC _____ C1 C2 C3 C4 C5 S1 S2 S3 S4 S5 _____

LWD FNC N F A DIST C E INSTREAM VEG N A M V PATTERN TM ME IM IR SI ST
 LB SHP U V S O RB SHP U V S O ISLANDS N O I F S AN
 TEXTURE F G C B R A TEXTURE F G C B R A BARS N SIDE DIAG MID SPAN BR
 RIP VEG. N G S C D M W RIP VEG. N G S C D M W COUPLING DC PC CO
 STAGE INIT SHR PS YF MF NA STAGE INIT SHR PS YF MF NA CONFINEMENT EN CO FC OC UN N/A

FEATURES
 C NID MAP # NID # TYPE HT/LG (m) (msh) PHOTO COMMENTS UTM
 R F _____
 R F _____
 R F _____
 R F _____

471

NFH - small puddly with isolated puddles, no scum, silt or banks - not a stream

ROLL # # FOC LG DIR COMMENTS

DIG 634 ST 4 Book

GROUP WILDLIFE OBSERVATIONS GROUP WILDLIFE OBSERVATIONS

C
 It appears that seepage flows in different directions, then mapped - check with others.

NCS 472

7610000593

7610000593
SITE CARD
 A82786-1

STREAM NAME (gsz) (total) _____
 WATERSHED CODE _____
 R/P MAP # 93M008 R/P # 78611 NID MAP # _____ NID # _____
 REACH # 1 D SITE # 198 FIELD UTM 9 653483 610230 6P3 SITE LG 100.0 ACCESS FT
 DATE 2007/10/11 TIME 1:13.5 AGENCY CO16 CREW MJ, BS FISH FORM Y (D)

CHANNEL (msh) (total) GRADIENT % _____ EMS _____
 CHANNEL WIDTH (m) _____ TEMP C _____ COND. S/cm _____
 WETTED WIDTH (m) _____ pH _____ TURB. T M L C _____
 RES. POOL DEPTH (m) _____ FLD SNS _____

W₁ Dp (m) _____ STAGE L M H _____ No Vrs. Ch. Dry/Int. Tribes. _____
 COVER (Total) _____
 Type SWD LWD B U DP OV IV CROWN CLOSURE _____
 AMT _____ DISTURBANCE INDICATORS O1 B1 B2 B3 D1 D2 D3 _____
 LOC _____ C1 C2 C3 C4 C5 S1 S2 S3 S4 S5 _____

LWD FNC N F A DIST C E INSTREAM VEG N A M V PATTERN TM ME IM IR SI ST
 LB SHP U V S O RB SHP U V S O ISLANDS N O I F S AN
 TEXTURE F G C B R A TEXTURE F G C B R A BARS N SIDE DIAG MID SPAN BR
 RIP VEG. N G S C D M W RIP VEG. N G S C D M W COUPLING DC PC CO
 STAGE INIT SHR PS YF MF NA STAGE INIT SHR PS YF MF NA CONFINEMENT EN CO FC OC UN N/A

FEATURES
 C NID MAP # NID # TYPE HT/LG (m) (msh) PHOTO COMMENTS UTM
 R F _____
 R F _____
 R F _____
 R F _____

473

NFH - seepage - no flowing, scum or banks - not a stream - swampy area

ROLL # # FOC LG DIR COMMENTS

DIG 635 ST D Book

GROUP WILDLIFE OBSERVATIONS GROUP WILDLIFE OBSERVATIONS

C
 What was mapped as a stream in seepage.

NCS 474

7610000593

SITE CARD
 761000593
 STREAM NAME: [] LOCAL: A 82786-1
 WATERSHED CODE: 4801581000058009
 ILP MAP # [] ILP # [] NID MAP # [] NID # []
 REACH # 4 D SITE # 199 FIELD UTM 9 653493.6102302.693 SITE LG 300.0 ACCESS FT
 DATE 20071101 TIME 11:50 AGENCY CO16 CREW M3 B3 FISH FORM Y CD
 CHANNEL: CHW (m) 1.5, 1.3, 1.2, 1.5, 1.4, 1.5 GRADIENT % 2.4
 WETTED WIDTH (m) 1.3, 1.1, 1.2, 1.0, 1.1, 1.3
 RES. POOL DEPTH (m) 0.3, 0.2, 0.15, 0.2
 W_s (g/l) 0.4, 0.4, 0.3, 0.3 STAGE L M H No Vis. Ch. Dry/Int. Tribes.
 COVER: Type SWD LWD B U DP OV IV CROWN CLOSURE
 AMT S T P D S S N
 LDC 0 1 2 3 4 5
 LWD FNC N F A DIST C E INSTREAM VEG N A M V
 LB SHP U V S O RB SHP U V S O
 TEXTURE F G C B R A TEXTURE F G C B R A
 RIP. VEG. N G S C D M W RIP. VEG. N G S C D M W
 STAGE INIT SHR PS YF MF NA STAGE INIT SHR PS YF MF NA
 DISTURBANCE INDICATORS: D1 B1 B2 B3 D1 D2 D3
 C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
 PATTERN: TM ME IM IR SI ST
 ISLANDS: N D I F S AN
 BARS: N SIDE DIAG MID SPAN BR
 COUPLING: DC PC CO
 CONFINEMENT: EN CO FC OC UN N/A
 FEATURES: C NID MAP # NID # TYPE HT / LG (m) PHOTO COMMENTS UTM
 R F W_s = 0.31, 0.46, 0.35, 0.32, 0.37, 0.39
 475

R - appears that streams low scoured flows indicated by the presence of scaly dirt with algae, but not preferable for EB
 S - water - fines almost 95%
 CW - none - too shallow.
 Unlikely fish use -> spring sampling would determine fish weeding status. Passage for EB through W questionable

ROLL #	#	FOCLG	DIR	COMMENTS
D16	636	5T	U	Book
D16	637	5T	D	Book

GROUP	WILDLIFE OBSERVATIONS	GROUP	WILDLIFE OBSERVATIONS
C	Flows through shoulder corridor W _s 20-80 m water (treat as W32) M ₃ mapped - flows through mapped W _s 20-80 m water	C	(S6)

SITE CARD
 761000593
 STREAM NAME: [] LOCAL: A 82786-1
 WATERSHED CODE: 4801581000058009
 ILP MAP # 93M008 ILP # 78612 NID MAP # [] NID # []
 REACH # 2 D SITE # 200 FIELD UTM 9 653168.6102357.693 SITE LG 100.0 ACCESS FT
 DATE 20071101 TIME 13:05 AGENCY CO16 CREW M3 B3 FISH FORM Y CD
 CHANNEL: CHW (m) [] GRADIENT % []
 WETTED WIDTH (m) []
 RES. POOL DEPTH (m) []
 W_s (g/l) [] STAGE L M H No Vis. Ch. Dry/Int. Tribes.
 COVER: Type SWD LWD B U DP OV IV CROWN CLOSURE
 AMT [] [] [] [] [] []
 LDC 0 1 2 3 4 5
 LWD FNC N F A DIST C E INSTREAM VEG N A M V
 LB SHP U V S O RB SHP U V S O
 TEXTURE F G C B R A TEXTURE F G C B R A
 RIP. VEG. N G S C D M W RIP. VEG. N G S C D M W
 STAGE INIT SHR PS YF MF NA STAGE INIT SHR PS YF MF NA
 DISTURBANCE INDICATORS: D1 B1 B2 B3 D1 D2 D3
 C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
 PATTERN: TM ME IM IR SI ST
 ISLANDS: N D I F S AN
 BARS: N SIDE DIAG MID SPAN BR
 COUPLING: DC PC CO
 CONFINEMENT: EN CO FC OC UN N/A
 FEATURES: C NID MAP # NID # TYPE HT / LG (m) PHOTO COMMENTS UTM
 R F
 477

NFH - seepage/surface flow with some scoured pools, no continuity of scour, channel & banks - not a stream

ROLL #	#	FOCLG	DIR	COMMENTS
D16	638	5T	D	Book

GROUP	WILDLIFE OBSERVATIONS	GROUP	WILDLIFE OBSERVATIONS
C		C	NCD

SITE CARD
 761000593
 STREAM NAME: [] LOCAL: A 82786-1
 WATERSHED CODE: 48015810000615000
 ILP MAP # [] ILP # [] NID MAP # [] NID # []
 REACH # 3 D SITE # 201 FIELD UTM 9 652931.6102531.693 SITE LG 100.0 ACCESS FT
 DATE 20071101 TIME 13:25 AGENCY CO16 CREW M3 B3 FISH FORM Y CD
 CHANNEL: CHW (m) [] GRADIENT % []
 WETTED WIDTH (m) []
 RES. POOL DEPTH (m) []
 W_s (g/l) [] STAGE L M H No Vis. Ch. Dry/Int. Tribes.
 COVER: Type SWD LWD B U DP OV IV CROWN CLOSURE
 AMT [] [] [] [] [] []
 LDC 0 1 2 3 4 5
 LWD FNC N F A DIST C E INSTREAM VEG N A M V
 LB SHP U V S O RB SHP U V S O
 TEXTURE F G C B R A TEXTURE F G C B R A
 RIP. VEG. N G S C D M W RIP. VEG. N G S C D M W
 STAGE INIT SHR PS YF MF NA STAGE INIT SHR PS YF MF NA
 DISTURBANCE INDICATORS: D1 B1 B2 B3 D1 D2 D3
 C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
 PATTERN: TM ME IM IR SI ST
 ISLANDS: N D I F S AN
 BARS: N SIDE DIAG MID SPAN BR
 COUPLING: DC PC CO
 CONFINEMENT: EN CO FC OC UN N/A
 FEATURES: C NID MAP # NID # TYPE HT / LG (m) PHOTO COMMENTS UTM
 R F W_s = 0.38, 0.35, 0.37, 0.29, 0.35, 0.36
 479

NFH - stream documented by Triton 97 meters out in wetland in Reach d/s. No perennial habitat present w/s, no spawning substrate, E usable but isolated to fill

ROLL #	#	FOCLG	DIR	COMMENTS
D16	639	5T	U	Book
D16	640	5T	D	Book

GROUP	WILDLIFE OBSERVATIONS	GROUP	WILDLIFE OBSERVATIONS
C		C	S6

SITE CARD
 761000593
 STREAM NAME: [] LOCAL: A 82786-1
 WATERSHED CODE: 48015810000615000
 ILP MAP # 93M007 ILP # 78613 NID MAP # [] NID # []
 REACH # 2 D SITE # 202 FIELD UTM 9 652901.6102479.693 SITE LG 100.0 ACCESS FT
 DATE 20071101 TIME 14:05 AGENCY CO16 CREW M3 B3 FISH FORM Y CD
 CHANNEL: CHW (m) [] GRADIENT % []
 WETTED WIDTH (m) []
 RES. POOL DEPTH (m) []
 W_s (g/l) [] STAGE L M H No Vis. Ch. Dry/Int. Tribes.
 COVER: Type SWD LWD B U DP OV IV CROWN CLOSURE
 AMT [] [] [] [] [] []
 LDC 0 1 2 3 4 5
 LWD FNC N F A DIST C E INSTREAM VEG N A M V
 LB SHP U V S O RB SHP U V S O
 TEXTURE F G C B R A TEXTURE F G C B R A
 RIP. VEG. N G S C D M W RIP. VEG. N G S C D M W
 STAGE INIT SHR PS YF MF NA STAGE INIT SHR PS YF MF NA
 DISTURBANCE INDICATORS: D1 B1 B2 B3 D1 D2 D3
 C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
 PATTERN: TM ME IM IR SI ST
 ISLANDS: N D I F S AN
 BARS: N SIDE DIAG MID SPAN BR
 COUPLING: DC PC CO
 CONFINEMENT: EN CO FC OC UN N/A
 FEATURES: C NID MAP # NID # TYPE HT / LG (m) PHOTO COMMENTS UTM
 R F
 481

NFH - substrate stable with seepage/surface flow, no scour, channel or fluvial deposits - not a stream

ROLL #	#	FOCLG	DIR	COMMENTS
D16	641	5T	U	No scale

GROUP	WILDLIFE OBSERVATIONS	GROUP	WILDLIFE OBSERVATIONS
C		C	NCD

761000593
SITE CARD
 STREAM NAME (local) A 82786-1
 WATERSHED CODE
 R/P MAP # 93M007 R/P # 78614 N/D MAP # N/D #
 REACH # 20 SITE # 202 FIELD UTM 9 85 108 6102499.6P3 SITE LG 100 0 ACCESS FT
 DATE 20071101 TIME 1425 AGENCY CO16 CREW HJ BS FISH FORM Y 20

CHANNEL (mhd) GRADIENT % EMS COND. S/cm
 CHANNEL WIDTH (m) TEMP C
 WETTED WIDTH (m) pH
 RES. POOL DEPTH (m) FLD SNS

W₁ D₁ (m) STAGE L M H No Vis. Ch Dry/Int. Tribes
 COVER Total
 Type SWD LWD B U DP OV IV CROWN CLOSURE
 AMT LOC 0 1 2 3 4 5
 LWD FNC N F A DIST C E INSTREAM VEG N A M V PATTERN TM ME IM IR SI ST
 LB SHP U V S O RB SHP U V S O ISLANDS N O I F S AN
 TEXTURE F G C B R A TEXTURE F G C B R A BARS N SIDE DIAG MID SPAN BR
 RIP VEG N G S C D M W RIP VEG N G S C D M W COUPLING DC PC CO
 STAGE INIT SHR PS YF MF NA STAGE INIT SHR PS YF MF NA CONFINEMENT EN CO FC OC UN N/A

FEATURES
 C N/D MAP # N/D # TYPE HT/LG (m) PHOTO COMMENTS UTM
 R F
 R F
 R F
 R F
 483

NPH - a 10m wide swale with older, mainly seepage with isolated small puddles - no scoured channel bed, fluvium or banks - not a stream

ROLL # # FOC LG DIR COMMENTS
 D16 642 ST U No scale

GROUP WILDLIFE OBSERVATIONS GROUP WILDLIFE OBSERVATIONS
 C
 NCD
 484

761000593
SITE CARD
 STREAM NAME (local) A 82786-1
 WATERSHED CODE
 R/P MAP # 93M007 R/P # 78615 N/D MAP # N/D #
 REACH # 10 SITE # 204 FIELD UTM 9 852689 6102400.6P3 SITE LG 100 0 ACCESS FT
 DATE 20071101 TIME 1435 AGENCY CO16 CREW HJ BS FISH FORM Y 20

CHANNEL (mhd) GRADIENT % EMS COND. S/cm
 CHANNEL WIDTH (m) TEMP C
 WETTED WIDTH (m) pH
 RES. POOL DEPTH (m) FLD SNS

W₁ D₁ (m) STAGE L M H No Vis. Ch Dry/Int. Tribes
 COVER Total
 Type SWD LWD B U DP OV IV CROWN CLOSURE
 AMT LOC 0 1 2 3 4 5
 LWD FNC N F A DIST C E INSTREAM VEG N A M V PATTERN TM ME IM IR SI ST
 LB SHP U V S O RB SHP U V S O ISLANDS N O I F S AN
 TEXTURE F G C B R A TEXTURE F G C B R A BARS N SIDE DIAG MID SPAN BR
 RIP VEG N G S C D M W RIP VEG N G S C D M W COUPLING DC PC CO
 STAGE INIT SHR PS YF MF NA STAGE INIT SHR PS YF MF NA CONFINEMENT EN CO FC OC UN N/A

FEATURES
 C N/D MAP # N/D # TYPE HT/LG (m) PHOTO COMMENTS UTM
 R F
 R F
 R F
 R F
 485

NPH - shrubby (elder) swale, 10-15m wide, seepage/surface flow no scoured channel bed, fluvium or banks - not a stream

ROLL # # FOC LG DIR COMMENTS
 D16 643 ST U No scale

GROUP WILDLIFE OBSERVATIONS GROUP WILDLIFE OBSERVATIONS
 C
 NCD
 486

761000593
SITE CARD
 STREAM NAME (local) 82786-1
 WATERSHED CODE
 R/P MAP # 93M007 R/P # 78616 N/D MAP # N/D #
 REACH # 20 SITE # 205 FIELD UTM 9 852572 6102504.6P3 SITE LG 100 0 ACCESS FT
 DATE 20071101 TIME 1445 AGENCY CO16 CREW HJ BS FISH FORM Y 20

CHANNEL (mhd) GRADIENT % EMS COND. S/cm
 CHANNEL WIDTH (m) TEMP C
 WETTED WIDTH (m) pH
 RES. POOL DEPTH (m) FLD SNS

W₁ D₁ (m) STAGE L M H No Vis. Ch Dry/Int. Tribes
 COVER Total
 Type SWD LWD B U DP OV IV CROWN CLOSURE
 AMT LOC 0 1 2 3 4 5
 LWD FNC N F A DIST C E INSTREAM VEG N A M V PATTERN TM ME IM IR SI ST
 LB SHP U V S O RB SHP U V S O ISLANDS N O I F S AN
 TEXTURE F G C B R A TEXTURE F G C B R A BARS N SIDE DIAG MID SPAN BR
 RIP VEG N G S C D M W RIP VEG N G S C D M W COUPLING DC PC CO
 STAGE INIT SHR PS YF MF NA STAGE INIT SHR PS YF MF NA CONFINEMENT EN CO FC OC UN N/A

FEATURES
 C N/D MAP # N/D # TYPE HT/LG (m) PHOTO COMMENTS UTM
 R F
 R F
 R F
 R F
 487

NPH - seepage with some surface flow through 15-25m wide older corridor - no scoured channel bed, fluvium or banks - not a stream

ROLL # # FOC LG DIR COMMENTS
 D16 644 ST D No scale - didn't turn out

GROUP WILDLIFE OBSERVATIONS GROUP WILDLIFE OBSERVATIONS
 C
 NCD
 488

761000593
SITE CARD
 STREAM NAME (local) A 82786-2
 WATERSHED CODE 480153100029.T00
 R/P MAP # 93M009 R/P # 822 N/D MAP # N/D #
 REACH # 30 SITE # 206 FIELD UTM 9 854864 6101568.6P3 SITE LG 100 0 ACCESS FT
 DATE 20071112 TIME 0840 AGENCY CO16 CREW HJ BS FISH FORM Y 20

CHANNEL (mhd) GRADIENT % EMS COND. S/cm
 CHANNEL WIDTH (m) TEMP C
 WETTED WIDTH (m) pH
 RES. POOL DEPTH (m) FLD SNS

W₁ D₁ (m) STAGE L M H No Vis. Ch Dry/Int. Tribes
 COVER Total
 Type SWD LWD B U DP OV IV CROWN CLOSURE
 AMT LOC 0 1 2 3 4 5
 LWD FNC N F A DIST C E INSTREAM VEG N A M V PATTERN TM ME IM IR SI ST
 LB SHP U V S O RB SHP U V S O ISLANDS N O I F S AN
 TEXTURE F G C B R A TEXTURE F G C B R A BARS N SIDE DIAG MID SPAN BR
 RIP VEG N G S C D M W RIP VEG N G S C D M W COUPLING DC PC CO
 STAGE INIT SHR PS YF MF NA STAGE INIT SHR PS YF MF NA CONFINEMENT EN CO FC OC UN N/A

FEATURES
 C N/D MAP # N/D # TYPE HT/LG (m) PHOTO COMMENTS UTM
 R F
 R F
 R F
 R F
 489

NPH - seepage through N 20m wide elder corridor, no scoured channel or fluvium - not a stream

ROLL # # FOC LG DIR COMMENTS
 D16 646 ST D No scale

GROUP WILDLIFE OBSERVATIONS GROUP WILDLIFE OBSERVATIONS
 C
 NCD
 490

7610000593
SITE CARD
 A82786-2

STREAM NAME (local) _____
 WATERSHED CODE _____
 R/P MAP # 93M008 R/P # 78221 NID MAP # _____ NID # _____
 REACH # 10 SITE # 207 FIELD UTM 9 1655846 610449 693 SITE LG 100 0 ACCESS F7
 DATE 20071012 TIME 0920 AGENCY 2016 CREW M3, B5 FISH FORM Y 0

CHANNEL mid GRADIENT % EMS REG #
 CHANNEL WIDTH (m) _____ TEMP. _____ COND. _____
 WETTED WIDTH (m) _____ pH _____ TURB. T M L C
 RES. POOL DEPTH (m) _____ FLD SNS _____

COVER
 Type SWD LWD B U DP OV IV CROWN CLOSURE
 AMT _____
 LOC _____

FEATURES
 C NID MAP # NID # TYPE HT/LG (m) PHOTO COMMENTS UTM
 491

NFH - seepage/surface flow through @ 20-30 m alder corridor
 joins large W d/s; fringed and short channelized (2.5m)
 reaches with some gravel deposits but no continuous
 channel or bed - not a stream

ROLL #	#	FOC LG	DIR	COMMENTS
DIG 647	ST	U		No scale

GROUP	WILDLIFE OBSERVATIONS	GROUP	WILDLIFE OBSERVATIONS
C		C	NCD 492

7610000593
SITE CARD
 A82786-2

STREAM NAME (local) _____
 WATERSHED CODE 48053100056500
 R/P MAP # 93M008 R/P # 819 NID MAP # _____ NID # _____
 REACH # 120 SITE # 208 FIELD UTM 9 1655949 610387 693 SITE LG 700 0 ACCESS F7
 DATE 20071012 TIME 0913 AGENCY 2016 CREW M3, B5 FISH FORM Y 0

CHANNEL mid GRADIENT % EMS REG #
 CHANNEL WIDTH (m) T 1.5 1.9 1.6 1.7 1.3 1.5 A TEMP. 2.0 C 73 COND. _____
 WETTED WIDTH (m) T 1.2 1.6 1.5 1.4 1.2 1.3 4.2 pH _____ TURB. T M L C 66
 RES. POOL DEPTH (m) T 0.17 0.18 0.20 0.18 0.17 4.4 FLD SNS None

COVER
 Type SWD LWD B U DP OV IV CROWN CLOSURE
 AMT STTTTST DIST C 0 INSTREAM VEG N A M V PATTERN TM ME IM IR ST
 LOC P T T P A A T 0 1 2 3 4 5

FEATURES
 C NID MAP # NID # TYPE HT/LG (m) PHOTO COMMENTS UTM
 493
 Stream disperses in 1 - no connection to PB
 wetlands
 W 800 93 0 29 0 31 0 30 28 0 35

Stream length ~ 600 m b/w wetlands - no SGD hole observed
 R has rubble but inaccessible as stream disjunct in wetland

ROLL #	#	FOC LG	DIR	COMMENTS
DIG 648	ST	D		Fish feature
643	U			Book
650	D			Book
651	U			NCD section - dog for scale

GROUP	WILDLIFE OBSERVATIONS	GROUP	WILDLIFE OBSERVATIONS
C	Becomes NCD @ UTM 9 1655949 610387 693	C	Needs resampling in spring - fish use unlikely (SG) 494

7610000593
SITE CARD
 A82788-1

STREAM NAME (local) _____
 WATERSHED CODE 48053100082000
 R/P MAP # 80 R/P # 209 NID MAP # _____ NID # _____
 REACH # 80 SITE # 209 FIELD UTM 9 165900 609678 693 SITE LG 150 0 ACCESS F7
 DATE 20071012 TIME 1220 AGENCY 2016 CREW M3, B5 FISH FORM Y 0

CHANNEL mid GRADIENT % EMS REG #
 CHANNEL WIDTH (m) T 1.3 1.5 1.7 1.3 1.4 1.4 AL TEMP. 1 C 33 COND. _____
 WETTED WIDTH (m) T 1.2 1.3 1.4 1.3 0.9 0.7 6.5 pH _____ TURB. T M L C 66
 RES. POOL DEPTH (m) 1.3 0.9 0.9 0.2 0.3 0.2 7.5 FLD SNS None

COVER
 Type SWD LWD B U DP OV IV CROWN CLOSURE
 AMT STTTTST DIST C 0 INSTREAM VEG N A M V PATTERN TM ME IM IR ST
 LOC P T T P A A T 0 1 2 3 4 5

FEATURES
 C NID MAP # NID # TYPE HT/LG (m) PHOTO COMMENTS UTM
 495
 W 0.22 0.15 0.18 0.14 0.24 0.27

Poor sediment habitat small fast and shallow creek likely
 dry through summer, No S - alder gravel very compact
 No DW - too shallow, R - some potential but head seeps

ROLL #	#	FOC LG	DIR	COMMENTS
DIG 653	ST	U		Book
DIG 654	ST	D		Bank

GROUP	WILDLIFE OBSERVATIONS	GROUP	WILDLIFE OBSERVATIONS
C	Require resampling in early summer to determine fish status (SG) 496	C	

7610000593
SITE CARD
 A82788-1

STREAM NAME (local) _____
 WATERSHED CODE 48053100082000
 R/P MAP # 10 R/P # 210 NID MAP # _____ NID # _____
 REACH # 10 SITE # 210 FIELD UTM 9 165758 609932 693 SITE LG 270 0 ACCESS F7
 DATE 20071012 TIME 1310 AGENCY 2016 CREW M3, B5 FISH FORM Y 0

CHANNEL mid GRADIENT % EMS REG #
 CHANNEL WIDTH (m) T 1.1 2.8 1.0 0.7 0.9 1.1 AL TEMP. 1 C 73 COND. _____
 WETTED WIDTH (m) T 1.1 0.6 0.9 0.7 0.8 0.9 11.14 pH _____ TURB. T M L C 66
 RES. POOL DEPTH (m) 0.5 0.1 0.2 0.2 0.3 0.4 9.14 FLD SNS None

COVER
 Type SWD LWD B U DP OV IV CROWN CLOSURE
 AMT STTTTST DIST C 0 INSTREAM VEG N A M V PATTERN TM ME IM IR ST
 LOC P T T P A A T 0 1 2 3 4 5

FEATURES
 C NID MAP # NID # TYPE HT/LG (m) PHOTO COMMENTS UTM
 497
 W 0.26 0.16 0.19 0.18 0.17 0.18

Dravel near fish habitat small & shallow creek with poor
 ISC; algae underpinning channel - 80 m w/s from site location

ROLL #	#	FOC LG	DIR	COMMENTS
DIG 655	ST	U		Book
DIG 656	ST	D		Book

GROUP	WILDLIFE OBSERVATIONS	GROUP	WILDLIFE OBSERVATIONS
C	flows as rubble bridge (SG) 498	C	

761000593
SITE CARD (local) **A82788-1**

WATERSHED CODE: _____

RP MAP # **93M008** RP # **78811** NO MAP # _____ NO # _____

REACH # **1 D** SITE # **211** FIELD UTM **9 657737 609445.6P3** SITE LG **100.6E** ACCESS **FT**

DATE **20071101** TIME **1410** AGENCY **CO16** CREW **H5 BS** FISH FORM **Y**

CHANNEL width **1.4** GRADIENT % _____ EMS _____ REG. # _____

CHANNEL WIDTH (m) _____ TEMP _____ COND. _____ S/cm

WETTED WIDTH (m) _____ pH _____ TURB. **T M L C**

RES. POOL DEPTH (m) _____ FLD SNS _____

W₁ Dp (m) _____ STAGE **L M H** No Vis. Ch. Dry/Int. _____

COVER

Type	SWD	LWD	B	U	DP	OV	IV	CROWN CLOSURE							
AMT															
LOC															
LWD FNC	N	F	A	DIST	C	E	INSTREAM VEG	N	A	M	V				
LB SHP	U	V	S	O	RB SHP	U	V	S	O						
TEXTURE	F	G	C	B	R	A	TEXTURE	F	G	C	B	R	A		
RIP. VEG.	N	G	S	C	D	M	W	RIP. VEG.	N	G	S	C	D	M	W
STAGE	INIT	SHR	PS	YF	MF	NA	STAGE	INIT	SHR	PS	YF	MF	NA		

DISURBANCE INDICATORS: D1 B1 B2 B3 D1 D2 D3
C1 C2 C3 C4 C5 S1 S2 S3 S4 S5

PATTERN: TM ME IM IR SI ST
ISLANDS: N O I F S AN
BARS: N SIDE DIAG MID SPAN BR
COUPLING: DC PC CO
CONFINEMENT: EN CO FC OC UN N/A

PHOTO _____ COMMENTS _____

UTM _____

499

ROLL # _____ # _____ FOC LG _____ DIR _____ COMMENTS _____

Nothing to photograph

GROUP _____ WILDLIFE OBSERVATIONS _____ GROUP _____ WILDLIFE OBSERVATIONS _____

C Drainage does not exist

NA 500

761000593
SITE CARD (local) **A82788-1**

WATERSHED CODE: _____

RP MAP # **93M008** RP # **78812** NO MAP # _____ NO # _____

REACH # **2 D** SITE # **212** FIELD UTM **9 657290.6100478.6P3** SITE LG **100.0** ACCESS **FT**

DATE **20071101** TIME **1445** AGENCY **CO16** CREW **H5 BS** FISH FORM **Y**

CHANNEL width **1.4** GRADIENT % _____ EMS _____ REG. # _____

CHANNEL WIDTH (m) _____ TEMP _____ COND. _____ S/cm

WETTED WIDTH (m) _____ pH _____ TURB. **T M L C**

RES. POOL DEPTH (m) _____ FLD SNS _____

W₁ Dp (m) _____ STAGE **L M H** No Vis. Ch. Dry/Int. _____

COVER

Type	SWD	LWD	B	U	DP	OV	IV	CROWN CLOSURE							
AMT															
LOC															
LWD FNC	N	F	A	DIST	C	E	INSTREAM VEG	N	M	V					
LB SHP	U	V	S	O	RB SHP	U	V	S	O						
TEXTURE	F	G	C	B	R	A	TEXTURE	F	G	C	B	R	A		
RIP. VEG.	N	G	S	C	D	M	W	RIP. VEG.	N	G	S	C	D	M	W
STAGE	INIT	SHR	PS	YF	MF	NA	STAGE	INIT	SHR	PS	YF	MF	NA		

DISURBANCE INDICATORS: D1 B1 B2 B3 D1 D2 D3
C1 C2 C3 C4 C5 S1 S2 S3 S4 S5

PATTERN: TM ME IM IR SI ST
ISLANDS: N O I F S AN
BARS: N SIDE DIAG MID SPAN BR
COUPLING: DC PC CO
CONFINEMENT: EN CO FC OC UN N/A

PHOTO _____ COMMENTS _____

UTM _____

501

RP# - seepage / surface flow through 20-25 cm wide alder path - no scum, glaucous or heules noted - not a stream.

ROLL # _____ # _____ FOC LG _____ DIR _____ COMMENTS _____

DE 657 ST D No scale

GROUP _____ WILDLIFE OBSERVATIONS _____ GROUP _____ WILDLIFE OBSERVATIONS _____

C

NCD 502

761000593
SITE CARD (local) **A82788-1**

WATERSHED CODE: **480153100080028**

RP MAP # **93M008** RP # **78813** NO MAP # _____ NO # _____

REACH # **3 D** SITE # **213** FIELD UTM **9 657479.6100251.6P3** SITE LG **400.0** ACCESS **FT**

DATE **20071101** TIME **1230** AGENCY **CO16** CREW **H5 BS** FISH FORM **Y**

CHANNEL width **1.7** GRADIENT % _____ EMS _____ REG. # _____

CHANNEL WIDTH (m) **1.7 1.9 2.0 1.7 1.9 1.8** TEMP _____ COND. _____ S/cm

WETTED WIDTH (m) **1.3 1.0 0.9 1.5 1.2 1.1** pH _____ TURB. **T M L C**

RES. POOL DEPTH (m) **HS 0.38 0.21 0.54 0.33 0.23** FLD SNS _____

W₁ Dp (m) **0.4 0.4 0.4 HS** STAGE **0 M H** No Vis. Ch. Dry/Int. _____

COVER

Type	SWD	LWD	B	U	DP	OV	IV	CROWN CLOSURE							
AMT															
LOC															
LWD FNC	N	F	A	DIST	C	E	INSTREAM VEG	N	A	M	V				
LB SHP	U	V	S	O	RB SHP	U	V	S	O						
TEXTURE	F	G	C	B	R	A	TEXTURE	F	G	C	B	R	A		
RIP. VEG.	N	G	S	C	D	M	W	RIP. VEG.	N	G	S	C	D	M	W
STAGE	INIT	SHR	PS	YF	MF	NA	STAGE	INIT	SHR	PS	YF	MF	NA		

DISURBANCE INDICATORS: D1 B1 B2 B3 D1 D2 D3
C1 C2 C3 C4 C5 S1 S2 S3 S4 S5

PATTERN: TM ME IM IR SI ST
ISLANDS: N O I F S AN
BARS: N SIDE DIAG MID SPAN BR
COUPLING: DC PC CO
CONFINEMENT: EN CO FC OC UN N/A

PHOTO _____ COMMENTS _____

UTM _____

WB=04,039,04,046,037,041

Stream disappears in few area, no channel or continuity for 40m, d/s str dry

503

Overall poor fish habitat, stream violent @ times created some braided sections. Break E hat during low flows however access to fish habitat as possible DW observed d/s. No perennial hab - although one pool found is suitable. No S - gravels very soft, very easy movable by H-H flow.

ROLL # _____ # _____ FOC LG _____ DIR _____ COMMENTS _____

DE 659 ST BD No scale - disruption
660 ST U Break
661 ST D Break

GROUP _____ WILDLIFE OBSERVATIONS _____ GROUP _____ WILDLIFE OBSERVATIONS _____

C Suspected fish straggle. Need to be resampled to determine accessibility @ higher flows.

(56) 504

Appendix II: Photographs

Site 1: view upstream



Site 1: view downstream



Site 2: view upstream



Site 2: view downstream



Site 3: view upstream



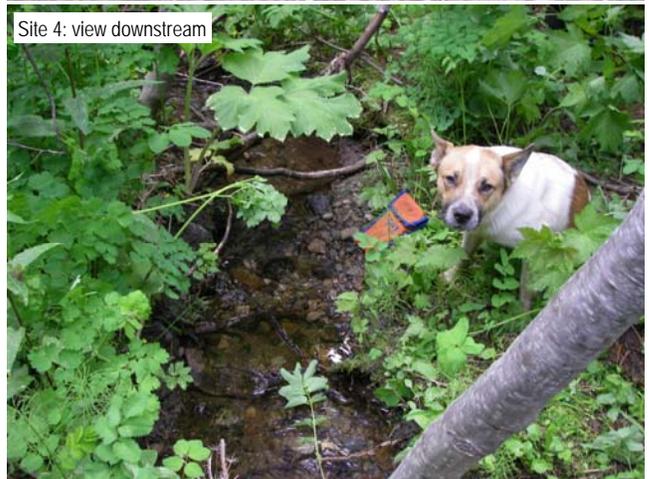
Site 3: view downstream



Site 4: view upstream



Site 4: view downstream



Site 5: view upstream



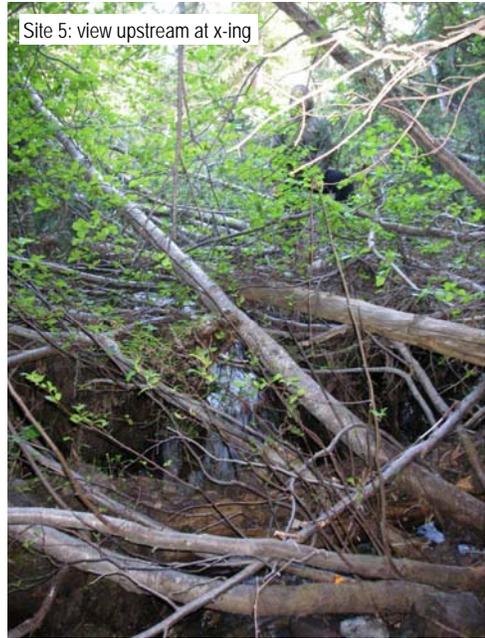
Site 5: view downstream



Site 5: RB at x-ing



Site 5: view upstream at x-ing



Site 6: view upstream

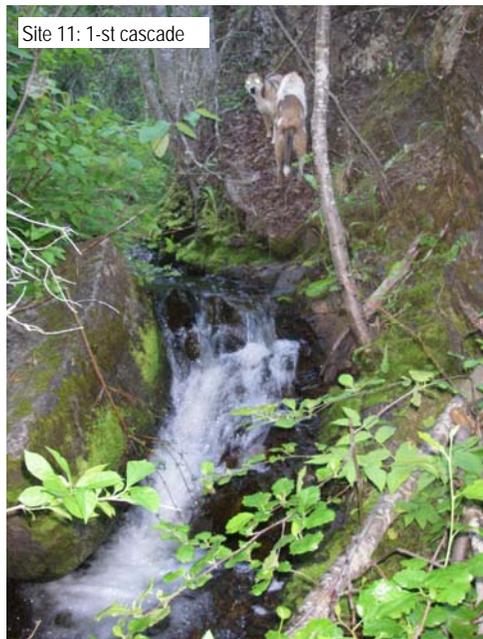


Site 8: view upstream



Site 6: view downstream





Site 11: view downstream



Site 12: view upstream



Site 12: view downstream



Site 13: view upstream



Site 13: view downstream



Site 14: view upstream



Site 15: view upstream



Site 15: view downstream



Site 16: view upstream



Site 16: view downstream



Site 16X: view downstream



Site 17: view upstream



Site 17: view downstream



Site 18: view down



Site 21: view upstream



Site 21: view downstream





Site 29: view down



Site 30: view across



Site 31: view across



Site 31: view upstream



Site 32: view upstream



Site 33: view upstream



Site 34: view upstream



Site 35: view across



Site 35: view downstream



Site 36: view upstream



Site 36: view downstream



Site 37: view upstream



Site 37: view downstream



Site 38: view upstream



Site 38: view downstream



Site 39: view downstream





Site 43: view across—sloughing 2



Site 45: view upstream



Site 45: view downstream



Site 45: view upstream—dewatering



Site 45: view downstream—scour/braiding



Site 46: view upstream



Site 46: view downstream



Site 50: view upstream



Site 50: view downstream



Site 51: view upstream



Site 51: view downstream



Site 52: view upstream



Site 53: view downstream



Site 53: view upstream



Site 54: view downstream



Site 55: view down





Site 62: view downstream



Site 63: view upstream



Site 63: view downstream



Site 64: view upstream



Site 65: dissipation



Site 65: view upstream



Site 65: view downstream



Site 67: view upstream



Site 68: view upstream



Site 69: view upstream



Site 69: view downstream



Site 70: view upstream



Site 70: view downstream



Site 71: view upstream

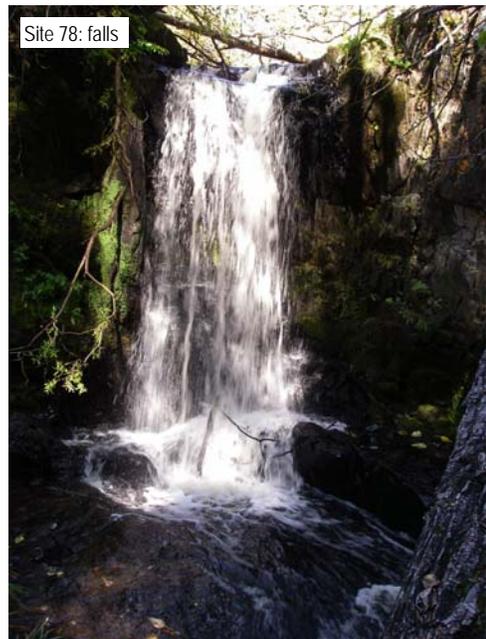


Site 73: view down



Site 74: view upstream





Site 79: view upstream



Site 79: view upstream—remnants of runoff ditch



Site 80: view upstream



Site 81: view upstream



Site 82: view across - pond



Site 82: view upstream



Site 83: view upstream



Site 84: view upstream







Site 93: view downstream



Site 94: view downstream



Site 96: view downstream



Site 97: view upstream



Site 97: view downstream



Site 98: view across



Site 99: view upstream



Site 101: view upstream



Site 102: view upstream



Site 103: view upstream



Site 107: view upstream



Site 109: view across



Site 110: view upstream



Site 110: view downstream



Site 111: view upstream



Site 112: view upstream





Site 118: view downstream



Site 122: view across



Site 125: view upstream



Site 126: view upstream



Site 127: view upstream



Site 127: view across



Site 128: view across



Site 128: view upstream



Site 129: view upstream



Site 130: view upstream



Site 131: view upstream



Site 131: view downstream



Site 132: view upstream



Site 132: view downstream



Site 132: view downstream



Site 133: view across



Site 134: view upstream



Site 135: view upstream



Site 136: view across



Site 137: view down



Site 138: view upstream



Site 139: view upstream



Site 141: view upstream



Site 142: view upstream





Site 146: view downstream



Site 148: view upstream



Site 149: view upstream



Site 149: view downstream



Site 150: view upstream



Site 150: view downstream



Site 151: view upstream



Site 151: view downstream





Site 156: view upstream



Site 157: view upstream



Site 157: view upstream



Site 158: dissipation



Site 158: view down near dissipation area



Site 158: dewatering



Site 158: view d/s of x-ing



Site 158: view u/s of x-ing



Site 160: cutthroat trout



Site 160: view upstream



Site 160: view downstream



Site 162: view upstream



Site 162: view downstream



Site 164: view upstream



Site 164: view downstream



Site 164: dissipation





Site 168: view upstream



Site 168: view downstream



Site 169: view downstream



Site 169: view upstream



Site 170: Dolly Varden char



Site 170: view upstream



Site 170: view downstream



Site 171: view down 1





Site 175: view upstream



Site 176: view upstream



Site 177: view upstream



Site 178: view upstream



Site 179: view upstream



Site 181: view upstream



Site 181: view downstream



Site 182: view across



Site 183: view upstream



Site 183: view downstream



Site 184: view upstream



Site 185: view upstream



Site 186: view upstream



Site 187: view upstream



Site 187: view downstream



Site 188: view upstream



Site 188: view downstream



Site 189: view upstream



Site 189: view downstream



Site 190: view upstream



Site 190: view downstream



Site 191: view upstream



Site 192: view upstream



Site 192: view downstream



Site 193: view upstream



Site 194: view across



Site 196: view upstream



Site 197: view upstream



Site 198: view downstream



Site 199: view upstream



Site 199: view downstream



Site 200: view downstream





Site 208: view upstream



Site 208: view downstream



Site 208: NCD section



Site 209: view upstream



Site 209: view downstream



Site 210: view upstream



Site 210: view downstream

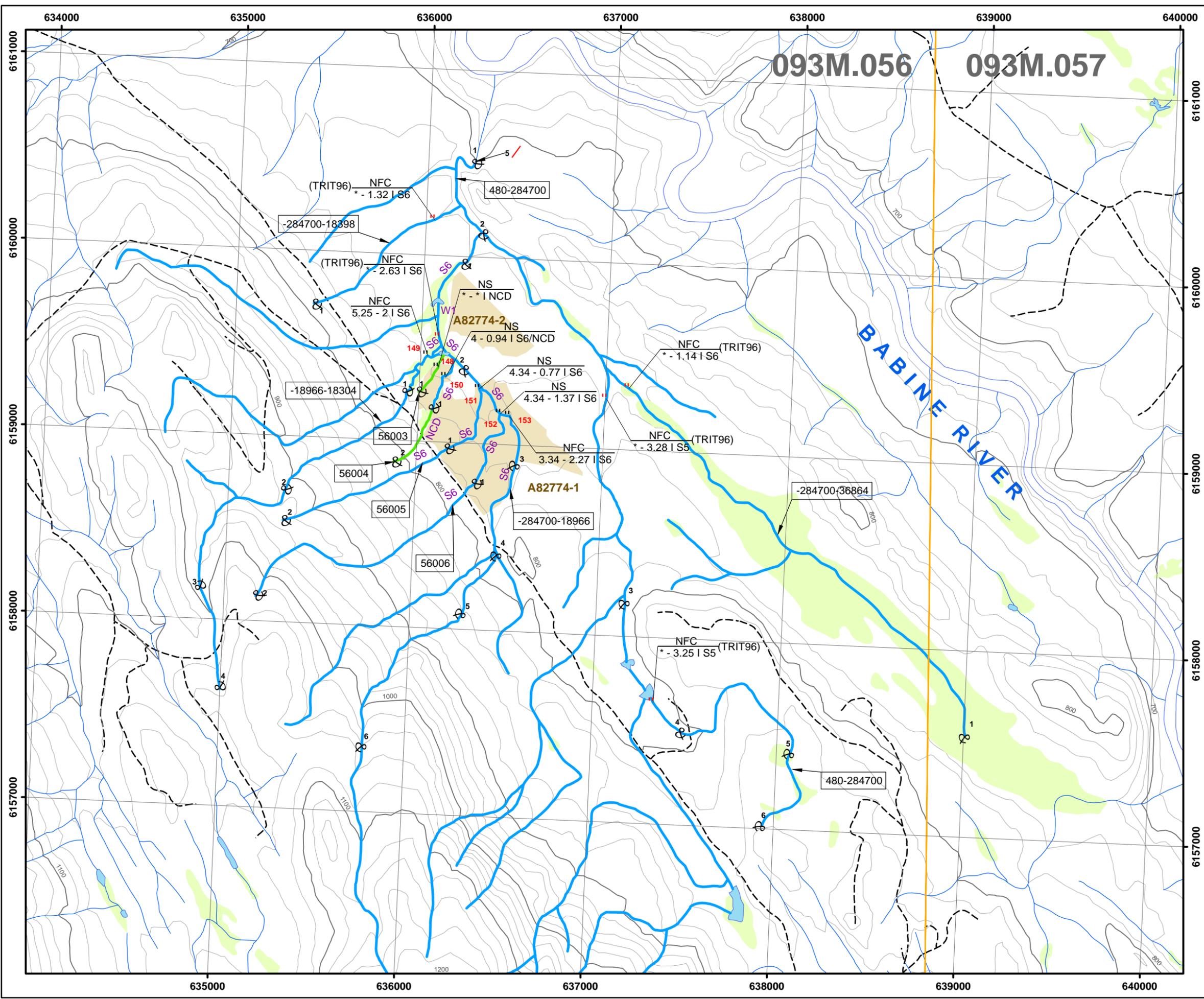


Site 212: view downstream





Appendix III: Hardcopy Maps



2007 Stream Assessment for Burns Lake Timber Sales Office Babine Business Area

Proposed Blocks A82774-1, 2
Scale 1: 20,000



Map 1 of 25

Projection: UTM (Zone 9)
Datum: NAD 83
Inventory Company: FINS Consulting Ltd.
Field Survey: July 8 - November 18, 2007

Map Produced by FINS Consulting Ltd. **FINS CONSULTING LTD.**

Stream Fish Bearing Status and Riparian Classification:

- Fish-bearing stream (Blue line)
- Non fish-bearing stream (Light blue line)
- Suspected fish presence (Red dashed line)
- Suspected fish absence (Blue dashed line)
- Non-Classified Drainage (NCD) (Green shaded area)
- No Drainage Present (NA) (White area)

Symbols and abbreviation used:

Fish Species - Spawning (Inferred): RB* (SK) 8 - 5.71 (S2) 8 - 5.7 - 0.33 (S2) - IM

Site location with reference and stream information: RB* (SK) 8 - 5.71 (S2) 8 - 5.7 - 0.33 (S2) - IM

Assessment at the Road Crossing: RB* (SK) 8 - 5.71 (S2) 8 - 5.7 - 0.33 (S2) - IM

Additional Sampling: RB EF: 7sec/2m

Previous Sampling Location Consultant and Year of Survey: (SKR01)

Stream Reference: Stream 2

Watershed Code: 218-541200-70000

Site Features:

- Falls (Red slash symbol)
- Debris Jam (Red 1 symbol)
- Cascade (Red 2 symbol)
- Dam (Red square symbol)
- Beaver Dam (Red horizontal line symbol)
- Velocity Barrier (Red vertical line symbol)
- Culvert (Red circle symbol)
- Dewatering (Red vertical line with horizontal bars symbol)
- Base Map Anomaly (Red diamond symbol)
- Disappearing Point (Blue diamond symbol)
- Spring (Blue circle symbol)
- Base Map Anomaly (Red diamond symbol)
- Height (m) 20 31 Length (m)

Habitat Value Rating:

- Critical (CR)** Extremely abundant or important fish and/or fish habitat present, habitat critical in sustaining a subsistence, commercial, or recreational fishery, or species at risk.
- Important (IM)** Moderately abundant fish and/or fish habitat present, but deemed to be not critical; contains similar habitat readily available to the stock elsewhere within a particular watershed.
- Marginal (MG)** Sparse fish and/or fish habitat present (i.e. low value habitat or under/unused habitat), habitat that marginally contributes to fish production.
- NA** No fish present, regardless of habitat quality.

Fish Species:

- BB Burbot
- BMC Brassy minnow
- CAS Prickly sculpin
- CSU Largescale sucker
- CH Chinook salmon
- CT Cuthroat trout
- DV Dolly Varden char
- LKC Lake chub
- LSU Longnose sucker
- LT Lake trout
- LW Lake whitefish
- NFC No Fish Captured
- NS Not Sampled
- NSC Northern pike minnow
- PCC Peamouth chub
- RB Rainbow trout
- RSC Redside shiner

Other Symbols and Abbreviations:

- Other streams (Blue line)
- Highway (Red line)
- Other Paved Road (Red dashed line)
- Gravel Road (Red dashed line with dots)
- Proposed Road (Red dashed line with dots)
- Railroad (Red dashed line with cross-ticks)
- Contours (20m intervals) (Black line)
- Reach Boundaries and Reach Numbers (Black line with 1)
- A74841 Proposed cutblock reference (Black line with A74841)
- Proposed cutblock (Black line with A74841)
- Lakes (Blue area)
- Wetlands (Green area)
- Mapsheet Boundary (Black line)

Legend:

- BH Beacon Hills Cons. Ltd.
- Carm Carmanah Res. Ltd.
- DGCS DeGisi & C. Schell Cons. Ltd.
- ECOF Ecofor Cons. Ltd.
- FINS FINS Cons. Ltd.
- HC Hatfield Cons. Ltd.
- RJA RJA Cons. Ltd.
- SKR SKR Cons. Ltd.
- TRIT Triton Env. Cons. Ltd.

Coordinates for Site Locations			
Area	Stream	Site	UTM (Z.E.N.)
A82774-1	56003	148	9.636096.6159397
A82774-1	56002	149	9.636038.6159461
A82774-1	56004	150	9.636139.6159348
A82774-1	56005	151	9.636322.6159294
A82774-1	56006	152	9.636441.6159164
A82774-1	56001	153	9.636490.6159155

Confirmed Coordinates for End of Fish Use (EFU) and/or Riparian Classification Change			
Area	Stream	Point	UTM (Z.E.N.)
A82774	480-284700	EFU	9.636252.6160512
A82774-1	56004	S6/NCD	9.636075.6159171

**2007 Stream Assessment
for
Burns Lake Timber Sales Office
Babine Business Area**

**Proposed Blocks A82783, A82784, A82785,
A82786, A82787 & A82788**

Scale 1: 20,000



Map 2 of 25

Projection: UTM (Zone 9)
Datum: NAD 83
Inventory Company: FINS Consulting Ltd.
Field Survey: July 8 - November 18, 2007

Map Produced by FINS Consulting Ltd. **FINS CONSULTING LTD.**

Stream Fish Bearing Status and Riparian Classification:

- Fish-bearing stream
- Suspected fish presence
- Suspected fish absence
- Non fish-bearing stream
- Non-Classified Drainage (NCD)
- No Drainage Present (NA)

Symbols and abbreviation used:

- Site location with reference and stream information
- Fish code
- Sampling method
- Fish Species
- Assessment at the Road Crossing
- Previous Sampling Location
- Stream ILP
- Watershed Code

Site Features:

- Falls
- Dam
- Culvert
- Debris Jam
- Beaver Dam
- Dewatering
- Cascades
- Velocity Barrier
- Disappearing Point
- Beam Map Anomaly
- Spring

Habitat Value Rating:

- Critical (CR)** Extremely abundant or important fish and/or fish habitat present, habitat critical in sustaining a subsistence, commercial, or recreational fishery, or species at risk.
- Important (IM)** Moderately abundant fish and/or fish habitat present, but deemed to be not critical, contains similar habitat readily available to the stock elsewhere within a particular watershed.
- Marginal (MG)** Sparse fish and/or fish habitat present (i.e. low value habitat or under/over utilized habitat), habitat that marginally contributes to fish production.
- NA** No fish present, regardless of habitat quality.

Fish Species:

- BB Burbot
- BMC Bony minnow
- CAS Pickle sculpin
- CSU Longnose sucker
- CH Chui salmon
- CT Cutthroat trout
- DV Dolly Varden char
- LKC Lake chub
- LSU Longnose sucker
- LT Lake trout
- LW Lake whitefish
- NFC No Fish Captured
- NS Not Sampled
- NSC Northern pike minnow
- PCC Peamouth chub
- RB Rainbow trout
- RSC Rossie darter

Other Symbols and Abbreviations:

- Other Drainages
- Reach Boundaries and Reach Numbers
- Highway
- Paved Main Road
- Gravel Road
- Proposed Road
- Railroad
- Contours (20m intervals)
- Proposed outback reference
- Proposed outback
- Lakes
- Wetlands and Riparian Classification
- Mapsheet Boundary

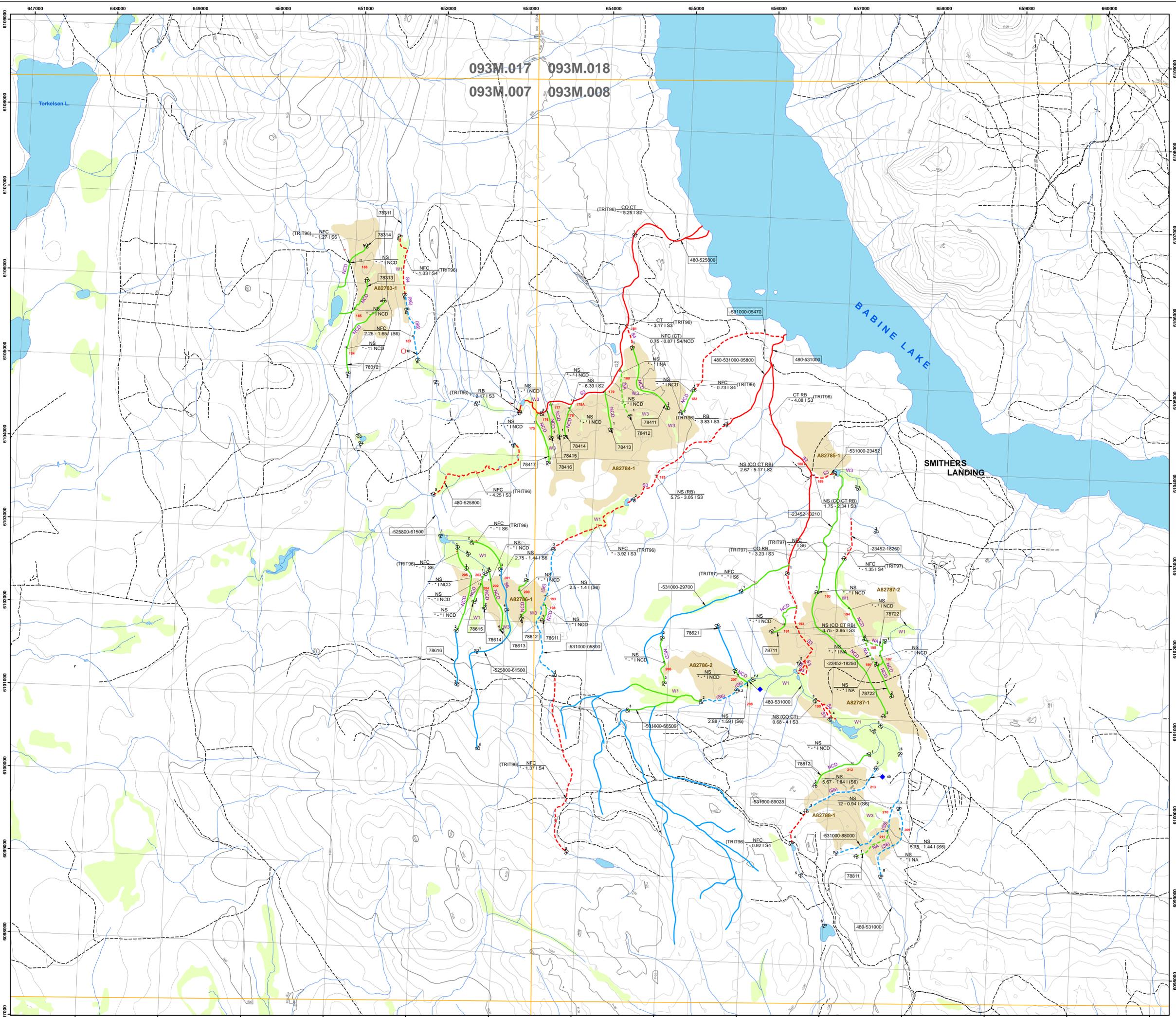
BH Beacon Hills Cons. Ltd. EOCF Ecofor Cons. Ltd. RJA RJA Cons. Ltd.
Carm Carmanah Res. Ltd. FINS FINS Cons. Ltd. SKR SKR Cons. Ltd.
DCGS DeGisi & C. Schell Cons. Ltd. HC Hatfield Cons. Ltd. TRIT Triton Env., Cons. Ltd.

Coordinates for Site Locations

Area	Stream	Site	UTM (E.N.)
A82784-1	480-525800	175A	9.653712 6104881
A82784-1	78417	175	9.653275 6104398
A82784-1	78418	175	9.653408 6104524
A82784-1	78415	177	9.653449 6104611
A82784-1	78414	178	9.653674 6104582
A82784-1	78415	178	9.654094 6104789
A82784-1	78412	180	9.654278 6105052
A82784-1	78411	181	9.654523 6105603
A82784-1	480-531000-05470	182	9.655050 6104850
A82784-1	480-531000-05800	183	9.654782 6103814
A82783-1	78312	184	9.650943 6105202
A82783-1	78313	185	9.651016 6105076
A82783-1	78314	186	9.650584 6102928
A82783-1	78311	187	9.651750 6105370
A82785-1	480-531000	188	9.656565 6104020
A82785-1	480-531000-23452	189	9.656672 6102899
A82787-1	480-531000	190	9.656814 6101199
A82787-1	78711	191	9.656385 6102088
A82787-1	480-531000	192	9.656539 6102059
A82787-1	480-531000-23452-18210	193	9.656769 6102508
A82787-2	480-531000-23452-18250	194	9.657167 6102314
A82787-2	78722	195	9.657417 6101929
A82787-1	480-531000-23452-18250	196	9.657479 6101710
A82787-1	78722	197	9.657571 6101755
A82786-1	78611	198	9.653483 6102190
A82786-1	480-531000-05800	199	9.653481 6102305
A82786-1	78612	200	9.653186 6102359
A82786-1	480-525800-61500	201	9.656627 6102531
A82786-1	78613	202	9.652801 6102470
A82786-1	78614	203	9.652738 6102499
A82786-1	78615	204	9.652664 6102415
A82786-1	78616	205	9.652570 6102504
A82786-2	480-531000-29700	206	9.654957 6101589
A82786-2	78621	207	9.655584 6101453
A82786-2	480-531000-56500	208	9.655669 6101387
A82788-1	480-531000	209	9.657900 6099678
A82788-1	480-531000-89000	210	9.657737 6099929
A82788-1	78811	211	9.657737 6099645
A82788-1	78812	212	9.657289 6100447
A82788-1	480-531000-89028	213	9.657478 6100251

Confirmed Coordinates for End of Fish Use (EFU) and/or Riparian Classification Change

Area	Stream	Point	UTM (E.N.)
A82784-1	480-531000	S3W11	9.656537 6101846
A82784-1	480-531000	S3W11	9.656977 6100996
A82784-1	480-531000-05800	S3W11	9.654507 6103827
A82784-1	78411	S4NCD	9.644401 6102374
A82784-1	480-531000	W1S3	9.656785 6101210
A82787-2	480-531000-23452-18250	NCDNA	9.657362 6101952



093M/008

**2007 Stream Assessment
for
Burns Lake Timber Sales Office
Babine Business Area**

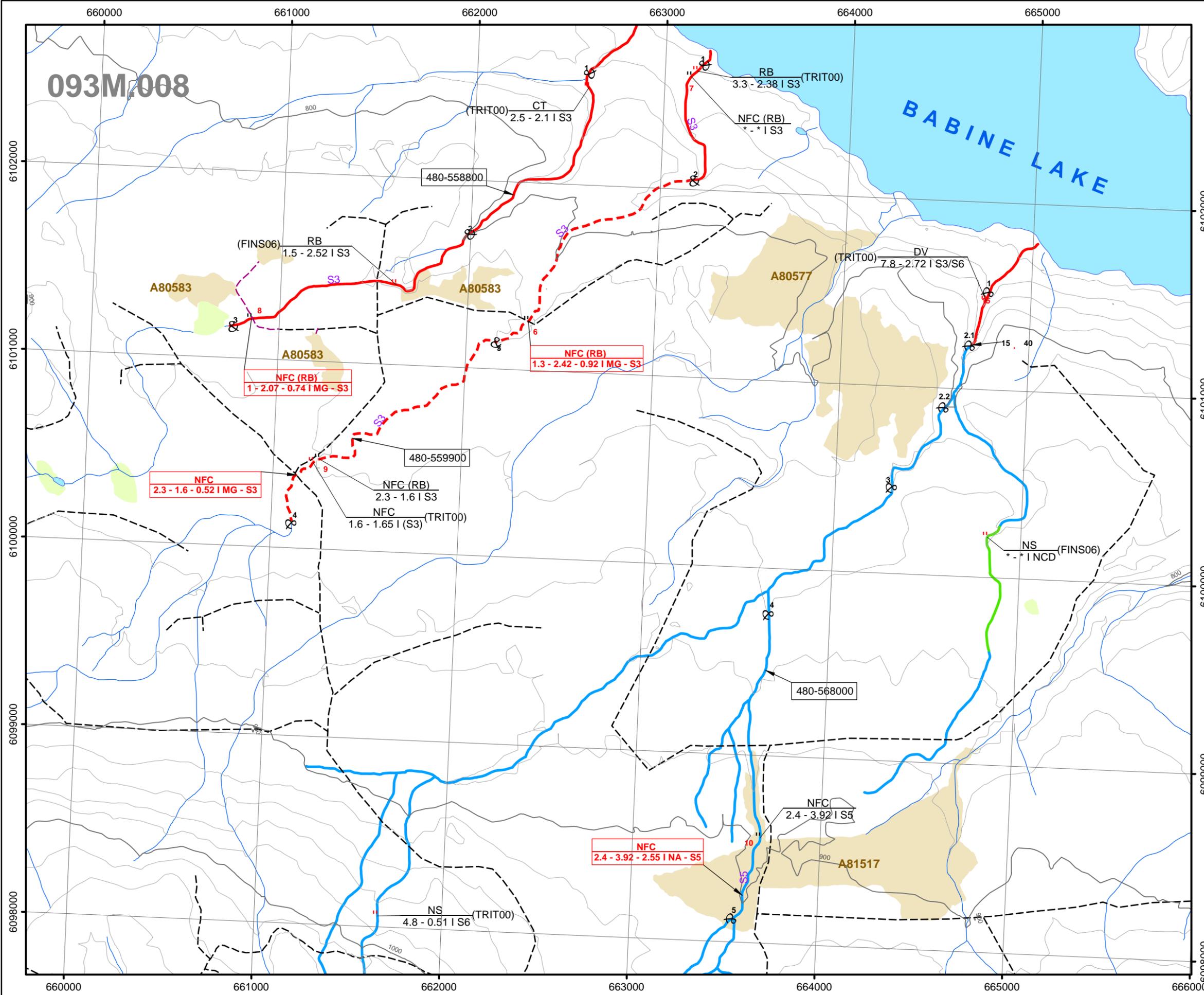
Proposed Blocks A80557, A80583 & A81517
Scale 1: 20,000



Map 3 of 25

Projection: UTM (Zone 9)
Datum: NAD 83
Inventory Company: FINS Consulting Ltd.
Field Survey: July 8 - November 18, 2007

Map Produced by FINS Consulting Ltd. **FINS CONSULTING LTD.**



- Stream Fish Bearing Status and Riparian Classification:**
- Fish-bearing stream
 - - - Suspected fish presence
 - · - · - Suspected fish absence
 - Non fish-bearing stream
 - Non-Classified Drainage (NCD)
 - · - · - No Drainage Present (NA)

- Symbols and abbreviation used:**
- Fish Species (Spawning Inferred)
 - Site location with reference and stream information
 - Fish Species (Spawning Inferred)
 - Assessment at the Road Crossing
 - Gradient (%)
 - Channel Width (m)
 - D/D (m)
 - FFC Class (Inferred)
 - Habitat Rating
 - Fish code
 - Additional Sampling
 - Previous Sampling Location
 - Consultant and Year of Survey
 - Stream Reference
 - Watershed Code

- Site Features:**
- / Falls
 - 1 Debris Jam
 - . Cascade
 - Dam
 - Beaver Dam
 - Velocity Barrier
 - Culvert
 - Dewatering
 - Base Map Anomaly
 - ◆ Disappearing Point
 - Spring
 - 20
 - 31

- Habitat Value Rating:**
- Critical (CR)** Extremely abundant or important fish and/or fish habitat present, habitat critical in sustaining a subsistence, commercial, or recreational fishery, or species at risk.
 - Important (IM)** Moderately abundant fish and/or fish habitat present, but deemed to be not critical, contains similar habitat readily available to the stock elsewhere within a particular watershed.
 - Marginal (MG)** Sparse fish and/or fish habitat present (i.e. low value habitat or under/non utilized habitat), habitat that marginally contributes to fish production.
 - NA** No fish present, regardless of habitat quality.

- Fish Species:**
- BB Burbot
 - BMC Brassy minnow
 - CAS Prickly sculpin
 - CSU largescale sucker
 - CH Chinook salmon
 - CT Cutthroat trout
 - DV Dolly Varden char
 - LKC Lake chub
 - LSU Longnose sucker
 - LT Lake trout
 - LW Lake whitefish
 - NFC No Fish Captured
 - NS Not Sampled
 - NSC Northern pike minnow
 - PCC Peamouth chub
 - RB Rainbow trout
 - RSC Redside shiner

- Other Symbols and Abbreviations:**
- Other streams
 - Highway
 - Other Paved Road
 - - - Gravel Road
 - · - · - Proposed Road
 - · - · - Railroad
 - Contours (20m intervals)
 - Reach Boundaries and Reach Numbers
 - A74841 Proposed cutblock reference
 - Proposed cutblock
 - Lakes
 - Wetlands
 - Mapsheet Boundary

- BH Beacon Hills Cons. Ltd. ECOF Ecofor Cons. Ltd. RJA RJA Cons. Ltd.
 Carm Carmanah Res. Ltd. FINS FINS Cons. Ltd. SKR SKR Cons. Ltd.
 DGCS DeGisi & C. Schell Cons. Ltd. HC Hatfield Cons. Ltd. TRIT Triton Env. Cons. Ltd.

Coordinates for Site Locations

Area	Stream	Site	UTM (Z.E.N.)
A80577	480-559900	6 at X-ing	9.662326.6101261
A80577	480-559900	7	9.663139.6102602
A80583	480-558800	8 at X-ing	9.660851.6101213
Access to A80577 & A80583	480-559900	9	9.661244.6100479
Access to A80577 & A80583	480-559900	9 X-ing	9.661126.6100389
A81517	480-568000	10	9.663680.6098562
A81517	480-568000	10 X-ing	9.663597.6098251

Confirmed Coordinates for End of Fish Use (EFU) and/or Riparian Classification Change

Area	Stream	Point	UTM (Z.E.N.)
A81517	480-568000	EFU	9.664696.6101236

**2007 Stream Assessment
for
Burns Lake Timber Sales Office
Babine Business Area**

Proposed Block A82647

Scale 1: 20,000



Map 4 of 25

Projection: UTM (Zone 9)

Datum: NAD 83

Inventory Company: FINS Consulting Ltd.

Field Survey: July 8 - November 18, 2007

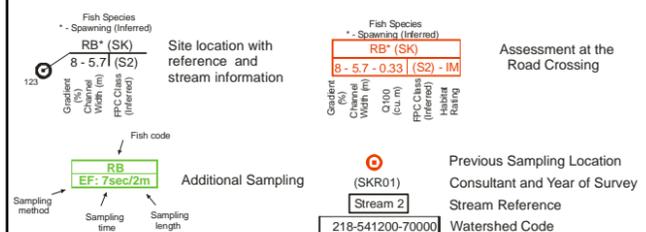
Map Produced by FINS Consulting Ltd.



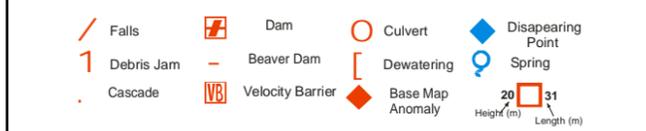
Stream Fish Bearing Status and Riparian Classification:



Symbols and abbreviation used:



Site Features:



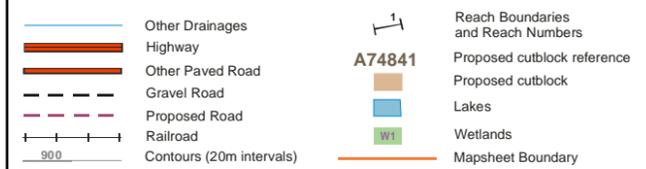
Habitat Value Rating:

Critical (CR) Extremely abundant or important fish and/or fish habitat present, habitat critical in sustaining a subsistence, commercial, or recreational fishery, or species at risk.
Important (IM) Moderately abundant fish and/or fish habitat present, but deemed to be not critical; contains similar habitat readily available to the stock elsewhere within a particular watershed.
Marginal (MG) Sparse fish and/or fish habitat present (i.e. low value habitat or under/non utilized habitat), habitat that marginally contributes to fish production.
NA No fish present, regardless of habitat quality.

Fish Species:

BB Burbot, BMC Brassy minnow, CAS Prickly sculpin, CSU Largescale sucker, CH Chinook salmon, CT Cutthroat trout, DV Dolly Varden char, LKC Lake chub, LSU Longnose sucker, LT Lake trout, LW Lake whitefish, NFC No Fish Captured, NS Not Sampled, NCC Northern pike minnow, PCC Peamouth chub, RB Rainbow trout, RSC Redside shiner.

Other Symbols and Abbreviations:



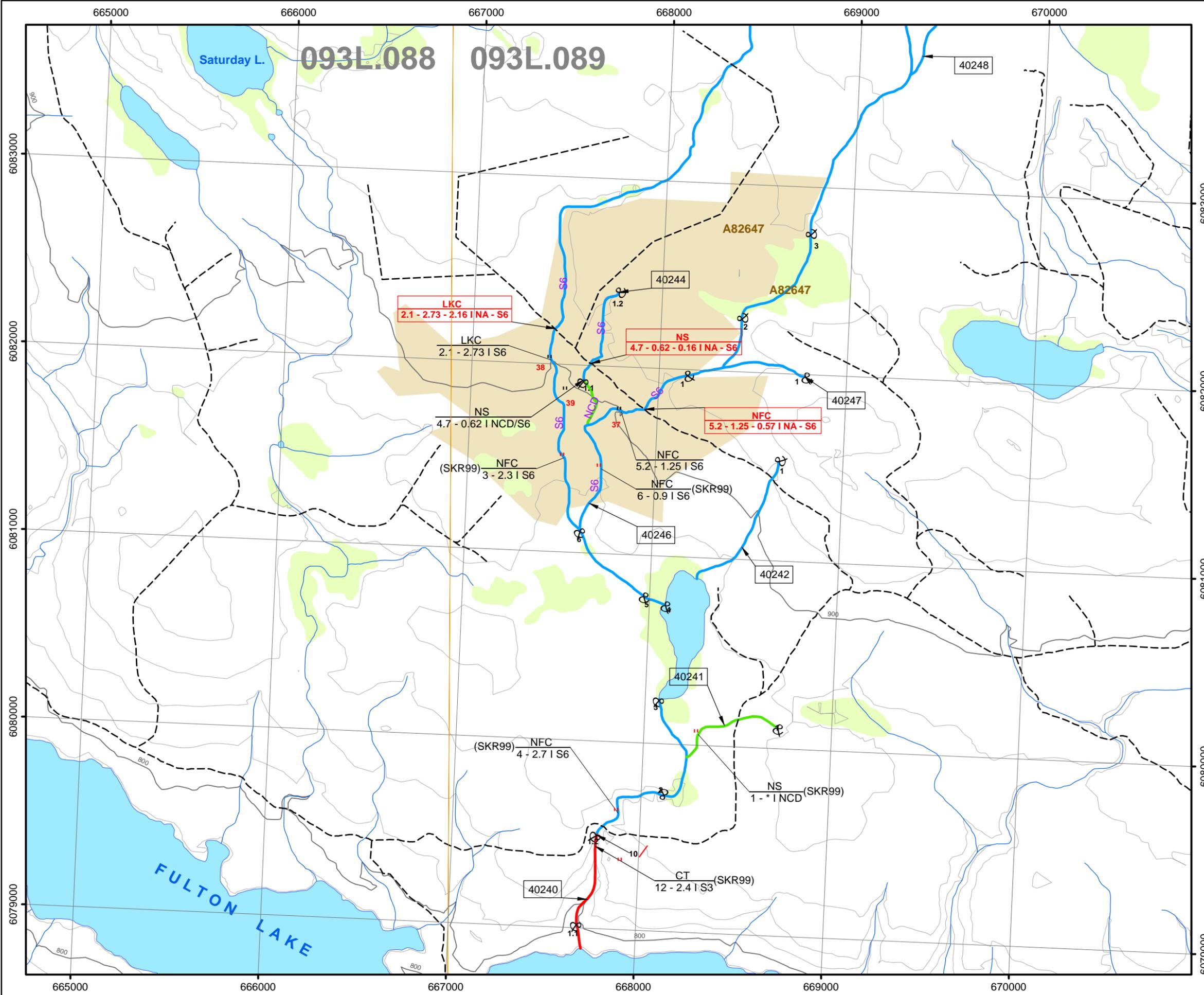
BH Beacon Hills Cons. Ltd., Carm Carmanah Res. Ltd., DGCS DeGisi & C. Schell Cons. Ltd., ECOF Ecofor Cons. Ltd., FINS FINS Cons. Ltd., HC Hatfield Cons. Ltd., RJA RJA Cons. Ltd., SKR SKR Cons. Ltd., TRIT Triton Env.. Cons. Ltd.

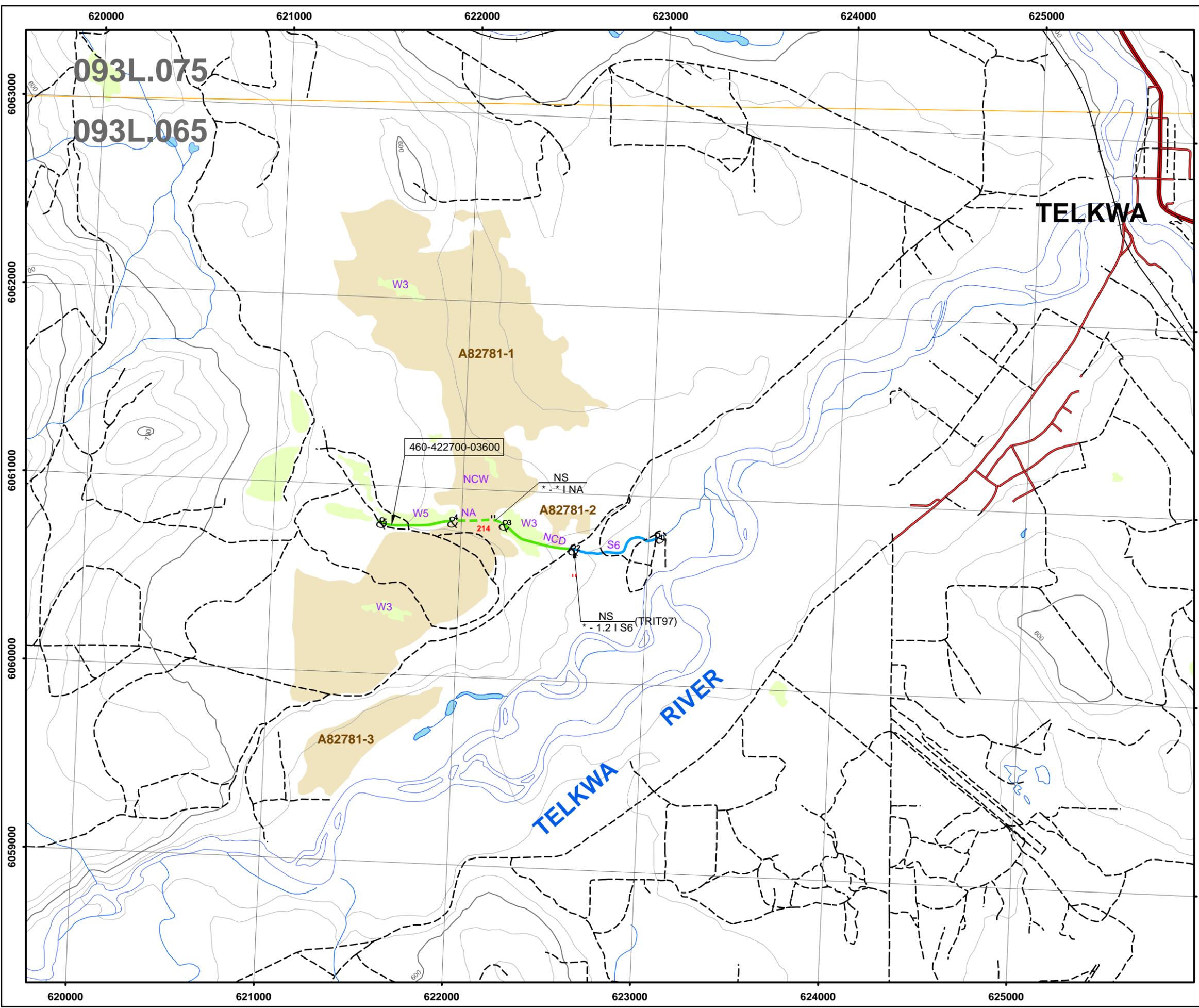
Coordinates for Site Locations

Area	Stream	Site	UTM (Z.E.N.)
A82647	40246	37	9.667807.6081759
A82647	40246	37 X-ing	9.667932.6081778
A82647	40240	38	9.667425.6082019
A82647	40240	38 X-ing	9.667437.6082188
A82647	40244	39	9.667599.6081921
A82647	40244	39 X-ing	9.667633.6082011

Confirmed Coordinates for End of Fish Use (EFU) and/or Riparian Classification Change

Area	Stream	Point	UTM (Z.E.N.)
A82647	40240	EFU	9.667772.6079500
A82647	40244	NCD/S6	9.667599.6081921





2007 Stream Assessment for Burnes Lake Timber Sales Office Babine Business Area

Proposed Blocks A82781-1, 2

Scale 1: 20,000



Map 5 of 25

Projection: UTM (Zone 9)
Datum: NAD 83
Inventory Company: FINS Consulting Ltd.
Field Survey: July 8 - November 18, 2007

Map Produced by FINS Consulting Ltd. **FINS CONSULTING LTD.**

Stream Fish Bearing Status and Riparian Classification:

- Fish-bearing stream
- Non fish-bearing stream
- Suspected fish presence
- Non-Classified Drainage (NCD)
- Suspected fish absence
- No Drainage Present (NA)

Symbols and abbreviation used:

- Fish Species - Spawning (Inferred)
- RB* (SK)
- 8 - 5.71 (S2)
- Site location with reference and stream information
- Fish Species - Spawning (Inferred)
- RB* (SK)
- 8 - 5.7 - 0.33 (S2) - IM
- Assessment at the Road Crossing
- Fish code
- RB
- EF: 7sec/2m
- Additional Sampling
- Previous Sampling Location
- SKR01
- Stream Reference
- Stream 2
- 218-541200-70000
- Watershed Code

Site Features:

- / Falls
- / Dam
- / Culvert
- / Disappearing Point
- / Debris Jam
- / Beaver Dam
- / Dewatering
- / Spring
- / Cascade
- / Velocity Barrier
- / Base Map Anomaly
- / 20
- / 31
- / Height (m)
- / Length (m)

Habitat Value Rating:

- Critical (CR)** Extremely abundant or important fish and/or fish habitat present, habitat critical in sustaining a subsistence, commercial, or recreational fishery, or species at risk.
- Important (IM)** Moderately abundant fish and/or fish habitat present, but deemed to be not critical; contains similar habitat readily available to the stock elsewhere within a particular watershed.
- Marginal (MG)** Sparse fish and/or fish habitat present (i.e. low value habitat or under/non utilized habitat), habitat that marginally contributes to fish production.
- NA** No fish present, regardless of habitat quality.

Fish Species:

- BB Burbot
- BMC Brassy minnow
- CAS Prickly sculpin
- CSU Largescale sucker
- CH Chinook salmon
- CT Cutthroat trout
- DV Dolly Varden char
- LKC Lake chub
- LSU Longnose sucker
- LT Lake trout
- LW Lake whitefish
- NFC No Fish Captured
- NS Not Sampled
- NSC Northern pike minnow
- PCC Peamouth chub
- RB Rainbow trout
- RSC Redside shiner

Other Symbols and Abbreviations:

- Other streams
- Highway
- Other Paved Road
- Gravel Road
- Proposed Road
- Railroad
- Contours (20m intervals)
- Reach Boundaries and Reach Numbers
- A74841
- Proposed cutblock reference
- Proposed cutblock
- Lakes
- Wetlands
- Mapsheet Boundary

- BH Beacon Hills Cons. Ltd.
- Carmanah Res. Ltd.
- DGCS DeGisi & C. Schell Cons. Ltd.
- ECOF Ecofor Cons. Ltd.
- FINS FINS Cons. Ltd.
- HC Hatfield Cons. Ltd.
- RJA RJA Cons. Ltd.
- FINS FINS Cons. Ltd.
- SKR SKR Cons. Ltd.
- TRIT Triton Env. Cons. Ltd.

Coordinates for Site Locations

Area	Stream	Site	UTM (Z.E.N.)
A82817-4	460-967671-63097	31	9.687752.6037005

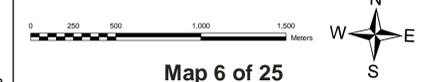
Confirmed Coordinates for End of Fish Use (EFU) and/or Riparian Classification Change

Area	Stream	Point	UTM (Z.E.N.)
A82781-1	460-424700-03600	S6/NCD	9.622588.6060706
A82781-1	460-424700-03600	W3/NA	9.622218.6060824
A82781-1	460-424700-03600	NA/W3	9.621938.6060826

2007 Stream Assessment for Burns Lake Timber Sales Office Babine Business Area

Proposed Blocks A82777, A82778 & A82779

Scale 1: 20,000



Map 6 of 25

Projection: UTM (Zone 9)

Datum: NAD 83

Inventory Company: FINS Consulting Ltd.
Field Survey: July 8 - November 18, 2007

Map Produced by FINS Consulting Ltd. **FINS CONSULTING LTD.**

Stream Fish Bearing Status and Riparian Classification:

- Fish-bearing stream
- - - Suspected fish presence
- ... Suspected fish absence
- ... Non fish-bearing stream
- ... Non-Classified Drainage (NCD)
- ... No Drainage Present (NA)

Symbols and abbreviation used:

- Fish Species
- RB* (SK) Site location with reference and stream information
- 8-5.7 (S2) Fish code
- 8-5.7 (S2) - M Assessment at the Road Crossing
- (SKR01) Previous Sampling Location
- 00123 Consultant and Year of Survey
- 218-541200-70000 Stream ILP
- 218-541200-70000 Watershed Code

Site Features:

- Falls
- Dam
- Culvert
- Debris Jam
- Beaver Dam
- Dewatering Point
- Cascade
- Velocity Barrier
- Disappearing Point
- Base Map Anomaly
- Spring

Habitat Value Rating:

- Critical (CR)** Extremely abundant or important fish and/or fish habitat present, habitat critical in sustaining a subsistence, commercial, or recreational fishery, or species at risk.
- Important (IM)** Moderately abundant fish and/or fish habitat present, but deemed to be not critical; contains similar habitat readily available to the stock elsewhere within a particular watershed.
- Marginal (MG)** Sparse fish and/or fish habitat present (i.e. low value habitat or underutilized habitat), habitat that marginally contributes to fish production.
- NA** No fish present, regardless of habitat quality.

Fish Species:

BB Burbot	DV Dolly Varden char	NS Not Sampled
BMC Brassy minnow	LKC Lake chub	NSC Northern pike minnow
CAS Prickly sculpin	LSU Longnose sucker	PCC Peamouth chub
CSJ Largemouth scolar	LT Lake trout	RB Rainbow trout
CH Chinook salmon	LW Lake whitefish	RSC Roadside streamer
CT Cutthroat trout	NFC No Fish Captured	

Other Symbols and Abbreviations:

- Other Drainages
- Reach Boundaries and Reach Numbers
- Highway
- Paved Main Road
- Gravel Road
- Proposed Road
- Railroad
- Contours (20m intervals)
- Proposed block reference
- Proposed outblock
- Lakes
- Wetlands and Riparian Classification
- Mapsheet Boundary

Legend:

- 1 Paved Main Road
- 2 Gravel Road
- 3 Proposed Road
- 4 Railroad
- 5 Contours (20m intervals)
- 6 Proposed block reference
- 7 Proposed outblock
- 8 Lakes
- 9 Wetlands and Riparian Classification
- 10 Mapsheet Boundary

Legend:

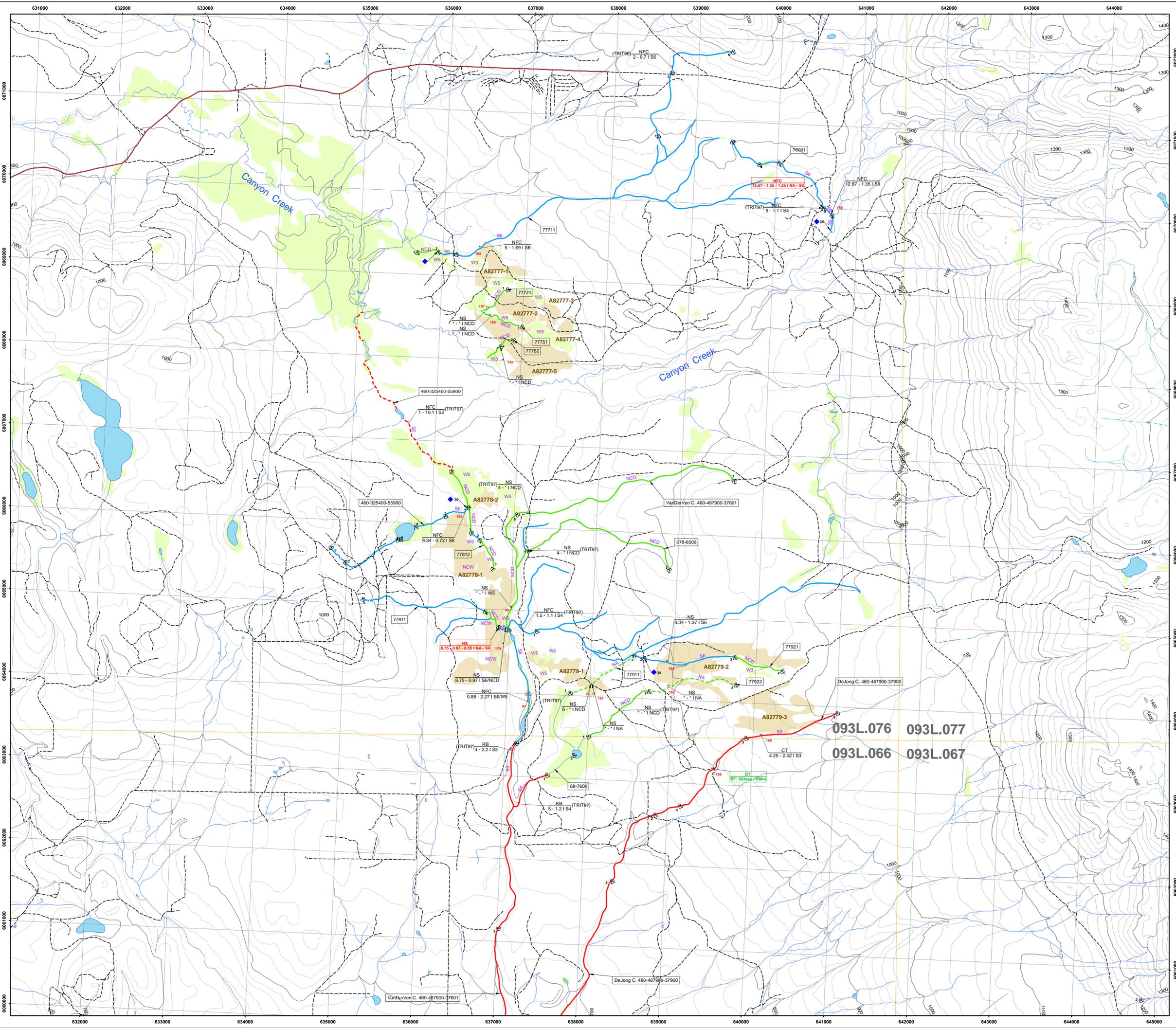
- BH Beacon Hills Cons. Ltd.
- ECOF Ecofor Cons. Ltd.
- RJA RJA Cons. Ltd.
- Carm Carmanah Res. Ltd.
- FINS FINS Cons. Ltd.
- SKR SKR Cons. Ltd.
- DCS DeGisi & C. Schell Cons. Ltd.
- HC Hatfield Cons. Ltd.
- TRIT Triton Env. Cons. Ltd.

Coordinates for Site Locations

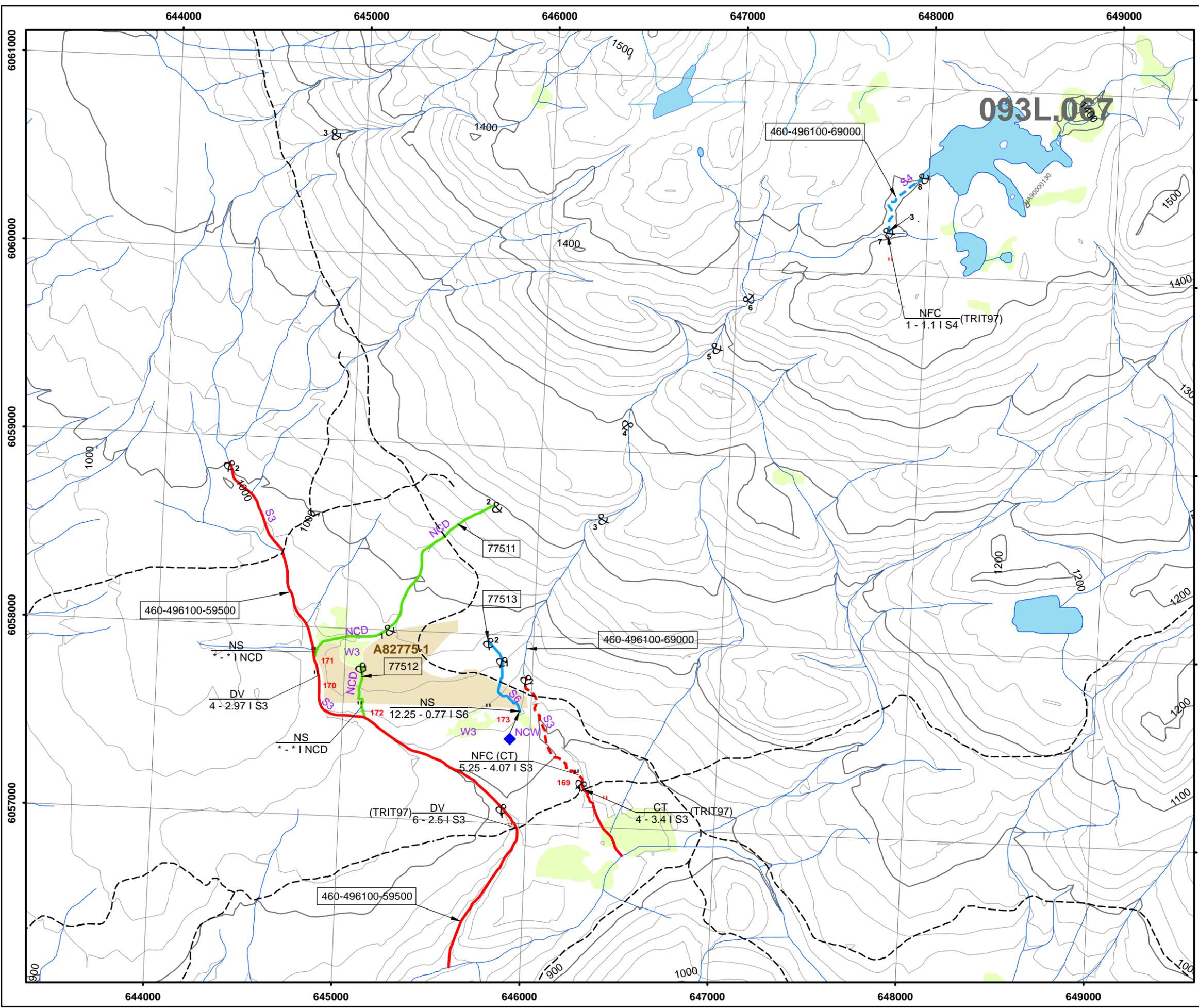
Area	Stream	Site	UTM (Z.E.N.)
A82778-1	VanDerVen C. / 460-487900-37601	90	9.637015.6065021
A82778-1	VanDerVen C. / 460-487900-37601	91	9.637275.6063898
A82777-1	77711	154	9.636459.6069349
A82777-5	77751	155	9.636612.6068929
A82777-5	77752	156	9.636744.6068171
A82777-2	77721	157	9.636578.6068626
Deep C. FSR 1.7km	76001	158	9.640677.6069937
Deep C. FSR 1.7km	76001	158 X-ing	9.640579.6070007
A82779-3	DeJong C. / 460-487900-37900	159	9.639543.6063189
A82779-3	DeJong C. / 460-487900-37900	160	9.640109.6063607
A82779-1	77911	161	9.638023.6064154
A82779-2	77921	162	9.638934.6064449
A82779-2	77922	163	9.638962.6064153
A82778-1	460-325400-55900	164	9.636410.6066170
A82778-1	77811	174	9.636952.6064785
A82778-1	77811	174 X-ing	9.636871.6064782

Confirmed Coordinates for End of Fish Use (EFU) and/or Riparian Classification Change

Area	Stream	Point	UTM (Z.E.N.)
Deep C. FSR 1.7km	76001	EFU	9.640676.6069739
A82777-1	77711	NCD/S6	9.635937.6069285
A82778-1	460-325400-55900	NCD/S6	9.636424.6066204
A82779-2	VanDerVen C. / 460-487900-37601	S3/S6	9.637130.6063392
A82778-1	VanDerVen C. / 460-487900-37601	S6/W5	9.636975.6064775
A82778-1	77811	S6/NCD	9.636857.6064796



093L.076 093L.077
093L.066 093L.067



2007 Stream Assessment for Burns Lake Timber Sales Office Babine Business Area

Proposed Block A82775-1

Scale 1: 20,000



Map 7 of 25

Projection: UTM (Zone 9)

Datum: NAD 83

Inventory Company: FINS Consulting Ltd.

Field Survey: July 8 - November 18, 2007

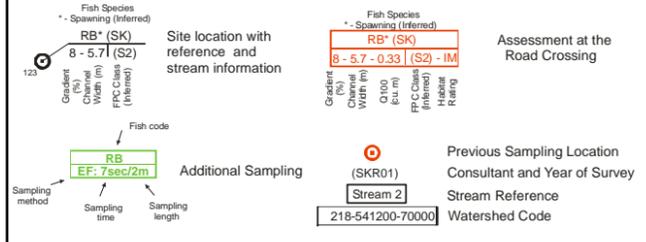
Map Produced by FINS Consulting Ltd.



Stream Fish Bearing Status and Riparian Classification:



Symbols and abbreviation used:



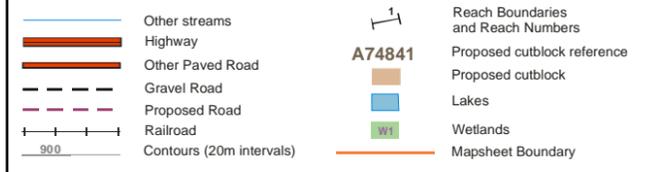
Habitat Value Rating:

- Critical (CR)** Extremely abundant or important fish and/or fish habitat present, habitat critical in sustaining a subsistence, commercial, or recreational fishery, or species at risk.
- Important (IM)** Moderately abundant fish and/or fish habitat present, but deemed to be not critical; contains similar habitat readily available to the stock elsewhere within a particular watershed.
- Marginal (MG)** Sparse fish and/or fish habitat present (i.e. low value habitat or under/non utilized habitat), habitat that marginally contributes to fish production.
- NA** No fish present, regardless of habitat quality.

Fish Species:

- BB Burbot
- BMC Brassy minnow
- LKC Lake chub
- CAS Prickly sculpin
- CSU Largescale sucker
- CH Chinook salmon
- CT Cutthroat trout
- DV Dolly Varden char
- LSU Longnose sucker
- LT Lake trout
- LW Lake whitefish
- NFC No Fish Captured
- NS Not Sampled
- NSC Northern pike minnow
- PCC Peamouth chub
- RB Rainbow trout
- RSC Redside shiner

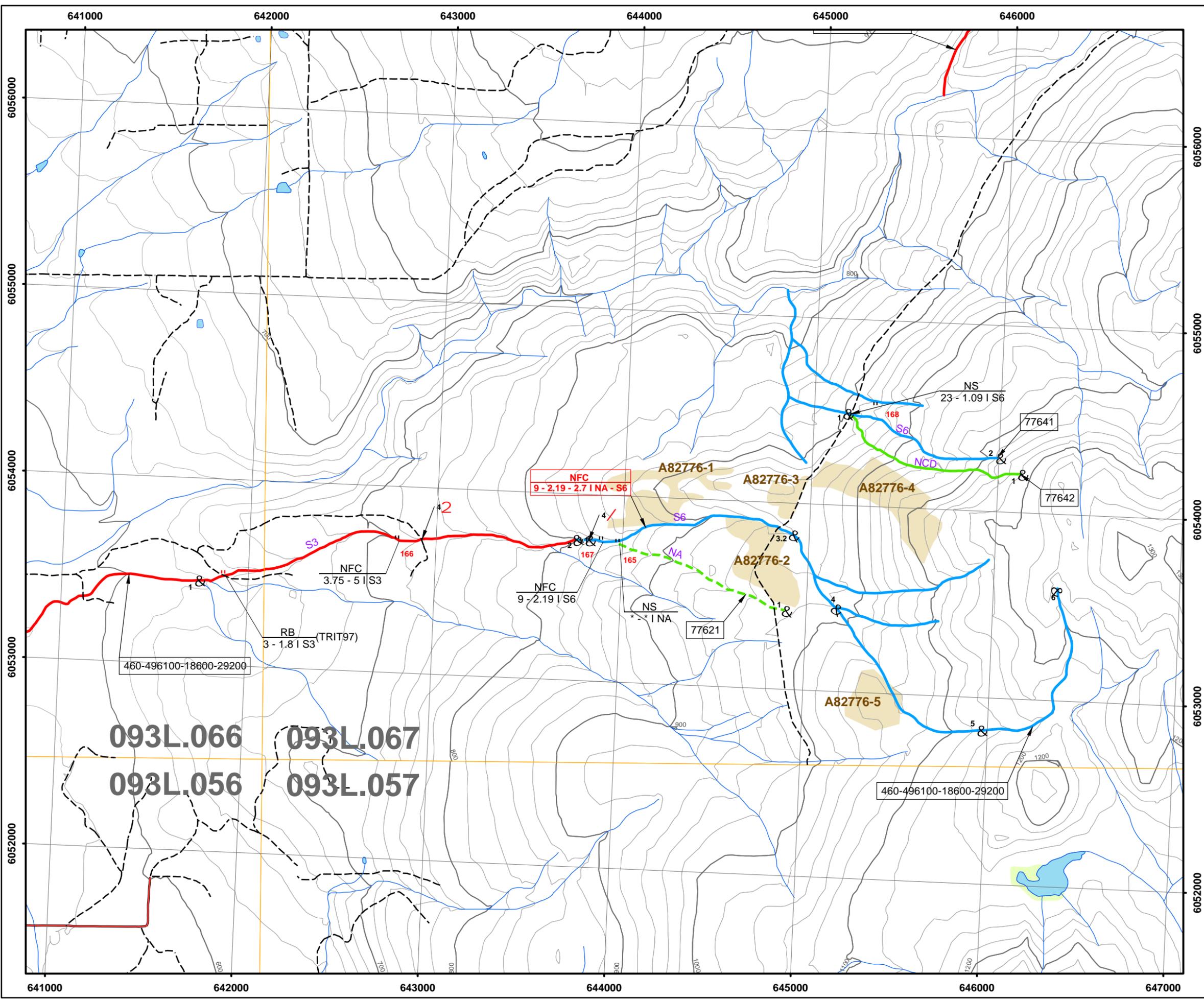
Other Symbols and Abbreviations:



- BH Beacon Hills Cons. Ltd.
- Carm Carmanah Res. Ltd.
- DGCS DeGisi & C. Schell Cons. Ltd.
- ECOF Ecofor Cons. Ltd.
- FINS FINS Cons. Ltd.
- HC Hatfield Cons. Ltd.
- RJA RJA Cons. Ltd.
- SKR SKR Cons. Ltd.
- TRIT Triton Env. Cons. Ltd.

Coordinates for Site Locations

Area	Stream	Site	UTM (Z.E.N.)
A82775-1	460-496100-69000	169	9.646270.6057273
A82775-1	460-496100-59500	170	9.644863.6057742
A82775-1	77511	171	9.644844.6057867
A82775-1	77512	172	9.645101.6057588
A82775-1	77513	173	9.645942.6057598



2007 Stream Assessment for Burns Lake Timber Sales Office Babine Business Area

Proposed Blocks A82776-1, 2, 3, 4, 5

Scale 1: 20,000



Map 8 of 25

Projection: UTM (Zone 9)
Datum: NAD 83
Inventory Company: FINS Consulting Ltd.
Field Survey: July 8 - November 18, 2007

Map Produced by FINS Consulting Ltd. **FINS CONSULTING LTD.**

- Stream Fish Bearing Status and Riparian Classification:**
- Fish-bearing stream
 - Suspected fish presence
 - Suspected fish absence
 - Non fish-bearing stream
 - Non-Classified Drainage (NCD)
 - No Drainage Present (NA)

- Symbols and abbreviation used:**
- Fish Species: RB* (SK) 8 - 5.71 (S2)
 - Fish Species: RB* (SK) 8 - 5.7 - 0.33 (S2) - IM
 - Fish Species: RB* (SK) 8 - 5.7 - 0.33 (S2) - IM
 - Site location with reference and stream information
 - Site location with reference and stream information
 - Site location with reference and stream information
 - Assessment at the Road Crossing
 - Assessment at the Road Crossing
 - Assessment at the Road Crossing
 - Previous Sampling Location
 - Previous Sampling Location
 - Previous Sampling Location
 - Consultant and Year of Survey
 - Consultant and Year of Survey
 - Consultant and Year of Survey
 - Stream Reference
 - Stream Reference
 - Stream Reference
 - Watershed Code
 - Watershed Code
 - Watershed Code

- Site Features:**
- / Falls
 - / Dam
 - / Culvert
 - 1 Debris Jam
 - 1 Beaver Dam
 - 1 Disappearing Point
 - . Cascade
 - . Velocity Barrier
 - . Spring
 - . Base Map Anomaly
 - . Height (m)
 - . Length (m)

- Habitat Value Rating:**
- Critical (CR)** Extremely abundant or important fish and/or fish habitat present, habitat critical in sustaining a subsistence, commercial, or recreational fishery, or species at risk.
 - Important (IM)** Moderately abundant fish and/or fish habitat present, but deemed to be not critical; contains similar habitat readily available to the stock elsewhere within a particular watershed.
 - Marginal (MG)** Sparse fish and/or fish habitat present (i.e. low value habitat or under/non utilized habitat), habitat that marginally contributes to fish production.
 - NA** No fish present, regardless of habitat quality.

- Fish Species:**
- BB Burbot
 - BMC Brassy minnow
 - CAS Prickly sculpin
 - CSU Largescale sucker
 - CH Chinook salmon
 - CT Cutthroat trout
 - DV Dolly Varden char
 - LKC Lake chub
 - LSU Longnose sucker
 - LT Lake trout
 - LW Lake whitefish
 - NFC No Fish Captured
 - NS Not Sampled
 - NPC Northern pike minnow
 - PCC Peamouth chub
 - RT Rainbow trout
 - RSC Redside shiner

- Other Symbols and Abbreviations:**
- Other streams
 - Highway
 - Other Paved Road
 - Gravel Road
 - Proposed Road
 - Railroad
 - Contours (20m intervals)
 - Reach Boundaries and Reach Numbers
 - A74841 Proposed cutblock reference
 - Proposed cutblock
 - Lakes
 - Wetlands
 - Mapsheet Boundary

- Other Symbols and Abbreviations:**
- BH Beacon Hills Cons. Ltd.
 - Carm Carmanah Res. Ltd.
 - DGCS DeGisi & C. Schell Cons. Ltd.
 - ECOF Ecofor Cons. Ltd.
 - FINS FINS Cons. Ltd.
 - HC Hatfield Cons. Ltd.
 - RJA RJA Cons. Ltd.
 - SKR SKR Cons. Ltd.
 - TRIT Triton Env. Cons. Ltd.

Coordinates for Site Locations			
Area	Stream	Site	UTM (Z.E.N.)
A82776-2	77621	165	9.643986.6053740
A82776-1	460-496100-18600-29200	166	9.642802.6053709
A82776-1	460-496100-18600-29200	167	9.643896.6053749
A82776-1	460-496100-18600-29200	167 X-ing	9.644119.6053839
A82776-4	77641	168	9.645193.6054490

Confirmed Coordinates for End of Fish Use (EFU) and/or Riparian Classification Change			
Area	Stream	Point	UTM (Z.E.N.)
A82776-1	460-496100-18600-29200	EFU	9.643818.6053753

2007 Stream Assessment for Burns Lake Timber Sales Office Babine Business Area

Proposed Blocks A81441 & A81443

Scale 1: 20,000



Map 9 of 25

Projection: UTM (Zone 9)
Datum: NAD 83
Inventory Company: FINS Consulting Ltd.
Field Survey: July 8 - November 18, 2007

Map Produced by FINS Consulting Ltd. **FINS CONSULTING LTD.**

Stream Fish Bearing Status and Riparian Classification:

- Fish-bearing stream
- - - Suspected fish presence
- · - · - Suspected fish absence
- Non fish-bearing stream
- Non-Classified Drainage (NCD)
- · - · - No Drainage Present (NA)

Symbols and abbreviation used:

- Fish Species
- * Spawning (Inferred)
- RB' (SK) Site location with reference and stream information
- 8 - 5.7 | (S2) Assessment at the Road Crossing
- 8 - 5.7 - 0.33 | (S2) - IM Assessment at the Road Crossing
- Fish Species
- * Spawning (Inferred)
- RB' (SK) Site location with reference and stream information
- 8 - 5.7 - 0.33 | (S2) - IM Assessment at the Road Crossing
- RB Fish code
- EF: 7sec/2m Additional Sampling
- Previous Sampling Location
- SKR01 Consultant and Year of Survey
- Stream 2 Stream Reference
- 218-541200-70000 Watershed Code

Site Features:

- / Falls
- 1 Debris Jam
- . Cascade
- Dam
- Beaver Dam
- Culvert
- Dewatering
- Velocity Barrier
- ◆ Disappearing Point
- Spring
- Base Map Anomaly
- 20 Height (m)
- 31 Length (m)

Habitat Value Rating:

- Critical (CR)** Extremely abundant or important fish and/or fish habitat present, habitat critical in sustaining a subsistence, commercial, or recreational fishery, or species at risk.
- Important (IM)** Moderately abundant fish and/or fish habitat present, but deemed to be not critical; contains similar habitat readily available to the stock elsewhere within a particular watershed.
- Marginal (MG)** Sparse fish and/or fish habitat present (i.e. low value habitat or under/non utilized habitat), habitat that marginally contributes to fish production.
- NA** No fish present, regardless of habitat quality.

Fish Species:

- BB Burbot
- BMC Brassy minnow
- CAS Prickly sculpin
- CSU Largescale sucker
- CH Chinook salmon
- CT Cutthroat trout
- DV Dolly Varden char
- LKC Lake chub
- LSU Longnose sucker
- LT Lake trout
- LW Lake whitefish
- NFC No Fish Captured
- NS Not Sampled
- NSC Northern pike minnow
- PCC Peamouth chub
- RB Rainbow trout
- RSC Redside shiner

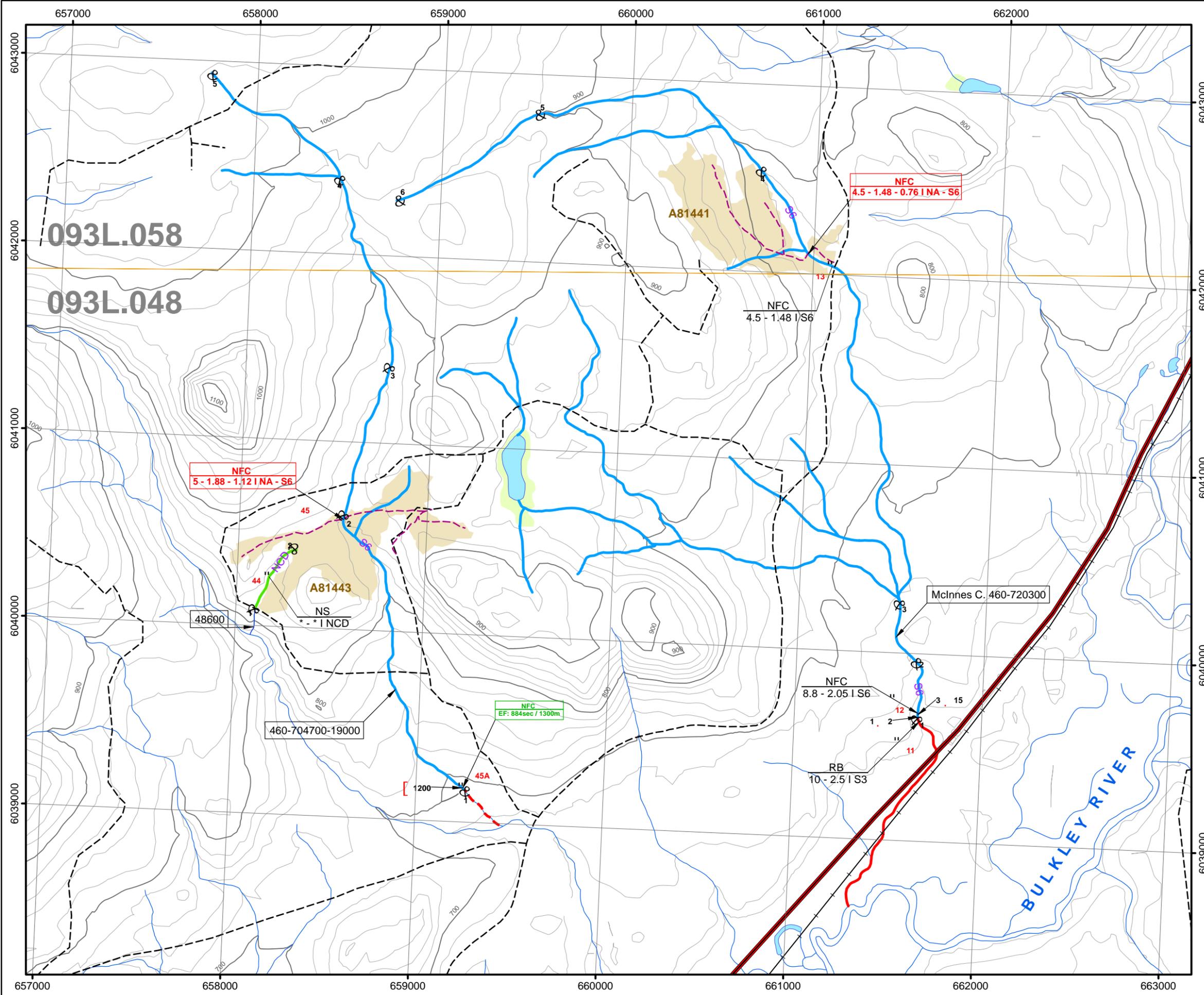
Other Symbols and Abbreviations:

- Other Drainages
- Highway
- Other Paved Road
- - - Gravel Road
- · - · - Proposed Road
- Railroad
- 900 Contours (20m intervals)
- | Reach Boundaries and Reach Numbers
- A74841 Proposed cutblock reference
- Proposed cutblock
- Lakes
- Wetlands
- Mapsheet Boundary

- BH Beacon Hills Cons. Ltd.
- Carm Carmanah Res. Ltd.
- DGCS DeGisi & C. Schell Cons. Ltd.
- ECOF Ecofor Cons. Ltd.
- FINS FINS Cons. Ltd.
- HC Hatfield Cons. Ltd.
- RJA RJA Cons. Ltd.
- SKR SKR Cons. Ltd.
- TRIT Triton Env. Cons. Ltd.

Coordinates for Site Locations			
Area	Stream	Site	UTM (Z.E.N.)
A81441	460-720300	11	9.661666.6039637
A81441	460-720300	12	9.661658.6039682
A81441	460-720300	13	9.661100.6042045
A81441	460-720300	13 X-ing	9.660970.6042106
A81443	48600	44	9.658170.6040262
A81443	460-704700-19000	45A	9.659251.6039182
A81443	460-704700-19000	45 at X-ng	9.658553.6040586

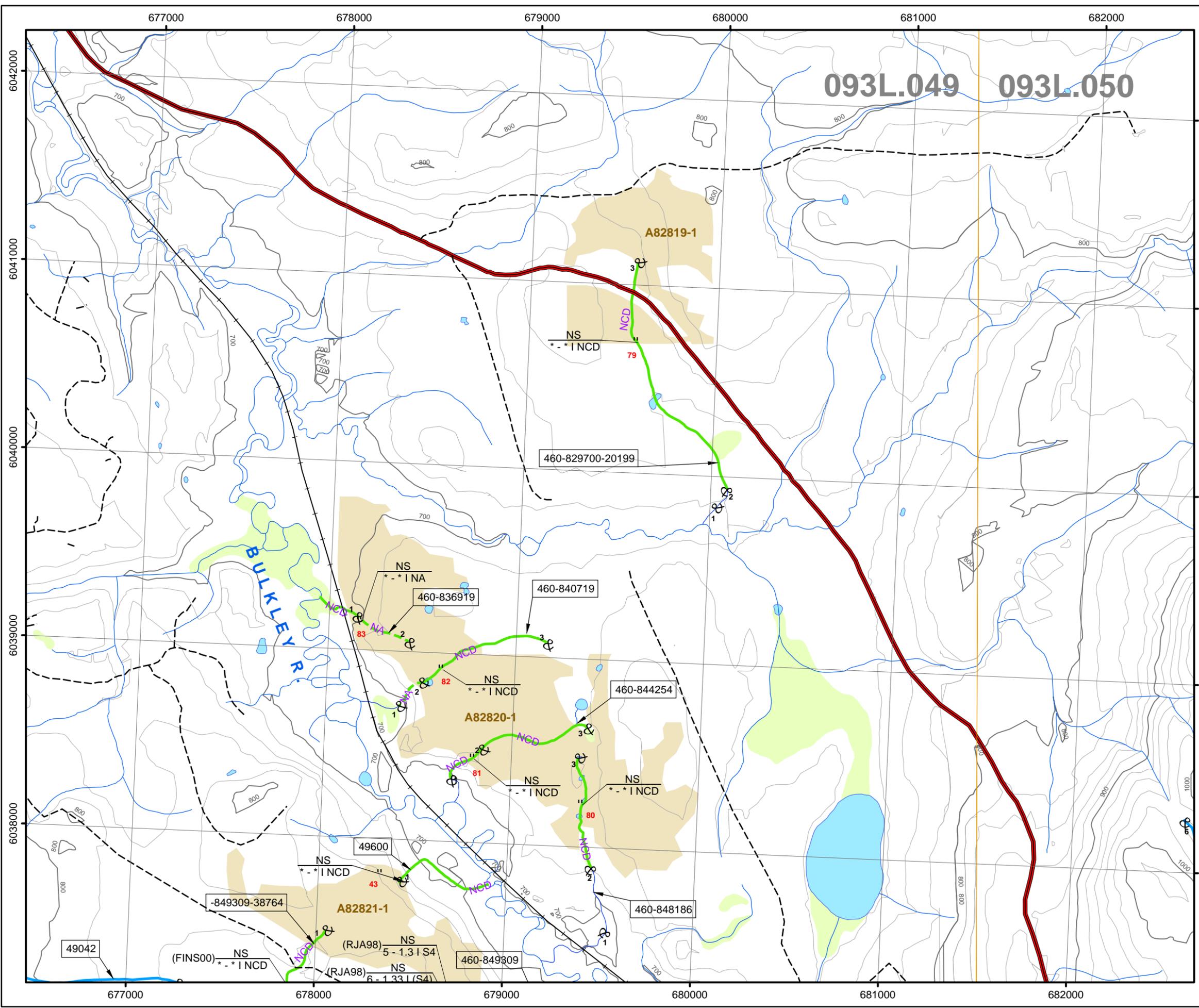
Confirmed Coordinates for End of Fish Use (EFU) and/or Riparian Classification Change			
Area	Stream	Point	UTM (Z.E.N.)
A81441	460-720300	EFU	9.661658.6039661
A81443	460-704700-19000	EFU	9.659251.6039182



657000 658000 659000 660000 661000 662000

6043000
6042000
6041000
6040000
6039000

657000 658000 659000 660000 661000 662000 663000



2007 Stream Assessment for Burns Lake Timber Sales Office Babine Business Area

Proposed Blocks A82819 & A82820

Scale 1: 20,000



Map 10 of 25

Projection: UTM (Zone 9)
Datum: NAD 83
Inventory Company: FINS Consulting Ltd.
Field Survey: July 8 - November 18, 2007

Map Produced by FINS Consulting Ltd. **FINS CONSULTING LTD.**

Stream Fish Bearing Status and Riparian Classification:

- Fish-bearing stream
- - - Suspected fish presence
- - - Suspected fish absence
- Non fish-bearing stream
- - - Non-Classified Drainage (NCD)
- - - No Drainage Present (NA)

Symbols and abbreviation used:

- Fish Species RB* (SK) 8 - 5.7 (S2)
- Spawning (Inferred)
- Site location with reference and stream information
- Fish Species RB* (SK) 8 - 5.7 - 0.33 | (S2) - IM
- Assessment at the Road Crossing
- Gradient (%)
- Channel Width (m)
- Channel Cross (m)
- Flow (cu. m)
- PFC Class (Inferred)
- Habitat Rating
- Fish code
- RB EF: 7sec/2m
- Additional Sampling
- Sampling method
- Sampling time
- Sampling length
- Previous Sampling Location (SKR01)
- Consultant and Year of Survey
- Stream Reference (Stream 2)
- Stream Reference (218-541200-70000)
- Watershed Code

Site Features:

- / Falls
- 1 Debris Jam
- . Cascade
- Dam
- Beaver Dam
- Velocity Barrier
- Culvert
- Dewatering
- ◆ Base Map Anomaly
- ◆ Disappearing Point
- Spring
- Height (m)
- Length (m)

Habitat Value Rating:

- Critical (CR)** Extremely abundant or important fish and/or fish habitat present, habitat critical in sustaining a subsistence, commercial, or recreational fishery, or species at risk.
- Important (IM)** Moderately abundant fish and/or fish habitat present, but deemed to be not critical; contains similar habitat readily available to the stock elsewhere within a particular watershed.
- Marginal (MG)** Sparse fish and/or fish habitat present (i.e. low value habitat or under/non utilized habitat), habitat that marginally contributes to fish production.
- NA** No fish present, regardless of habitat quality.

Fish Species:

- BB Burbot
- BMC Brassy minnow
- CAS Prickly sculpin
- CSU Largescale sucker
- CH Chinook salmon
- CT Cutthroat trout
- DV Dolly Varden char
- LKC Lake chub
- LSU Longnose sucker
- LT Lake trout
- LW Lake whitefish
- NFC No Fish Captured
- NS Not Sampled
- NSC Northern pike minnow
- PCC Peamouth chub
- RB Rainbow trout
- RSC Redside shiner

Other Symbols and Abbreviations:

- Other Drainages
- Highway
- Other Paved Road
- - - Gravel Road
- - - Proposed Road
- - - Railroad
- Contours (20m intervals)
- Reach Boundaries and Reach Numbers
- A74841 Proposed cutblock reference
- Proposed cutblock
- Lakes
- Wetlands
- Mapsheet Boundary

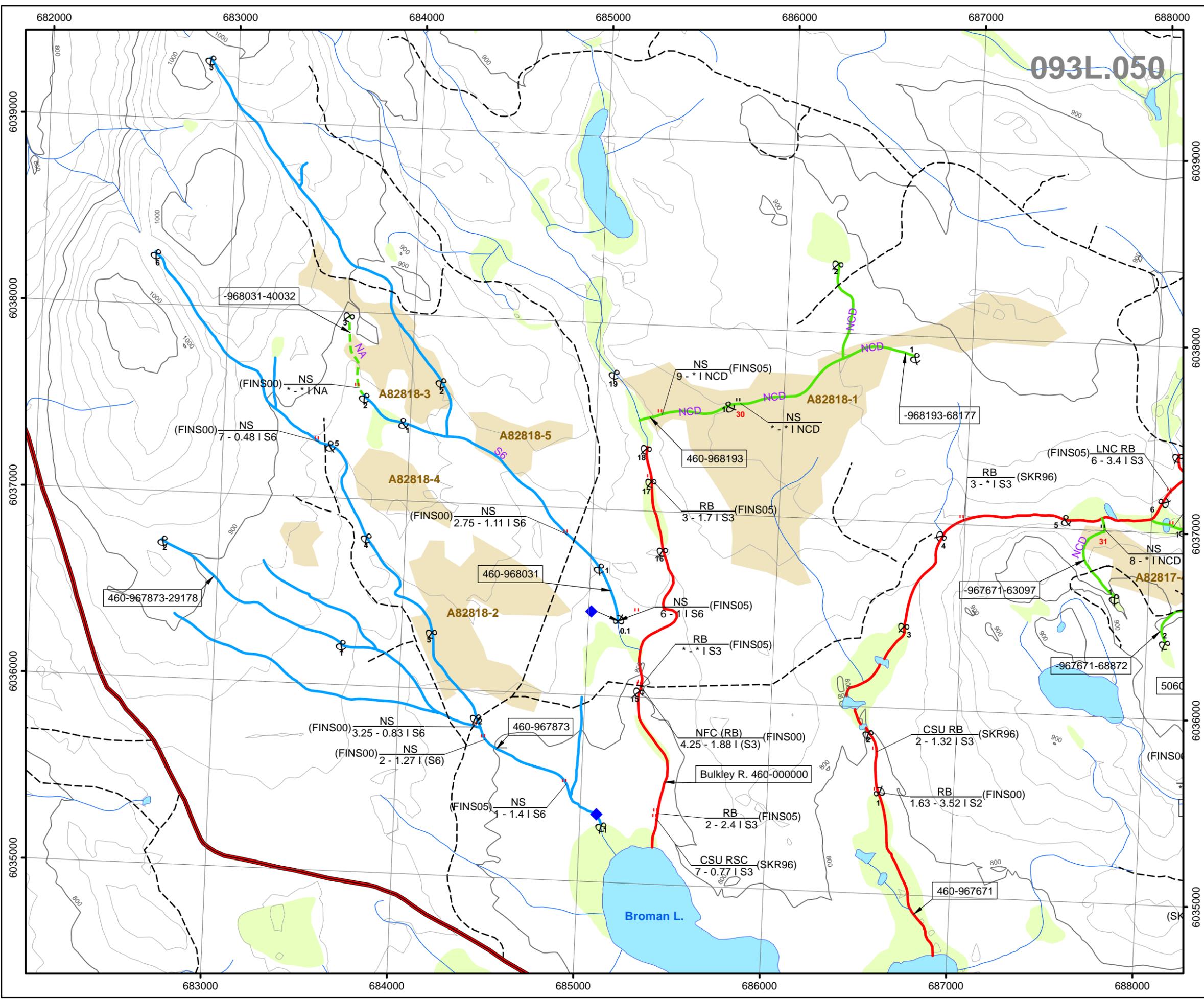
- BH Beacon Hills Cons. Ltd.
- Carm Carmanah Res. Ltd.
- DGCS DeGisi & C. Schell Cons. Ltd.
- ECOF Ecofor Cons. Ltd.
- FINS FINS Cons. Ltd.
- HC Hatfield Cons. Ltd.
- RJA RJA Cons. Ltd.
- SKR SKR Cons. Ltd.
- TRIT Triton Env. Cons. Ltd.

Coordinates for Site Locations

Area	Stream	Site	UTM (Z.E.N.)
A82819-1	460-829700-20199	79	9.679579.6040695
A82820-1	460-848186	80	9.679389.6038224
A82820-1	460-844254	81	9.678803.6038444
A82820-1	460-840719	82	9.678617.6038911
A82820-1	460-836919	83	9.678172.6039151

Confirmed Coordinates for End of Fish Use (EFU) and/or Riparian Classification Change

Area	Stream	Point	UTM (Z.E.N.)
A82820-1	460-840719	NA/NCD	9.678501.6038837
A82820-1	460-836919	NCD/NA	9.678145.6039182



2007 Stream Assessment for Burns Lake Timber Sales Office Babine Business Area

Proposed Blocks A82818-1, 2, 3, 4, 5
Scale 1: 20,000



Map 11 of 25

Projection: UTM (Zone 9)
Datum: NAD 83
Inventory Company: FINS Consulting Ltd.
Field Survey: July 8 - November 18, 2007

Map Produced by FINS Consulting Ltd. **FINS CONSULTING LTD.**

- Stream Fish Bearing Status and Riparian Classification:**
- Fish-bearing stream
 - Suspected fish presence
 - Suspected fish absence
 - Non fish-bearing stream
 - Non-Classified Drainage (NCD)
 - No Drainage Present (NA)

- Symbols and abbreviation used:**
- Fish Species (Spawning (Inferred))
 - Fish Species (Spawning (Inferred))
 - Fish Species (Spawning (Inferred))
 - Site location with reference and stream information
 - Site location with reference and stream information
 - Site location with reference and stream information
 - Assessment at the Road Crossing
 - Assessment at the Road Crossing
 - Assessment at the Road Crossing
 - Previous Sampling Location
 - Previous Sampling Location
 - Previous Sampling Location
 - Consultant and Year of Survey
 - Consultant and Year of Survey
 - Consultant and Year of Survey
 - Stream Reference
 - Stream Reference
 - Stream Reference
 - Watershed Code
 - Watershed Code
 - Watershed Code

- Site Features:**
- / Falls
 - / Dam
 - / Culvert
 - 1 Debris Jam
 - Beaver Dam
 - Dewatering
 - . Cascade
 - | Velocity Barrier
 - | Disappearing Point
 - | Spring
 - | Base Map Anomaly
 - | Height (m)
 - | Length (m)

- Habitat Value Rating:**
- Critical (CR)** Extremely abundant or important fish and/or fish habitat present, habitat critical in sustaining a subsistence, commercial, or recreational fishery, or species at risk.
 - Important (IM)** Moderately abundant fish and/or fish habitat present, but deemed to be not critical; contains similar habitat readily available to the stock elsewhere within a particular watershed.
 - Marginal (MG)** Sparse fish and/or fish habitat present (i.e. low value habitat or under/non utilized habitat), habitat that marginally contributes to fish production.
 - NA** No fish present, regardless of habitat quality.

- Fish Species:**
- BB Burbot
 - BMC Brassy minnow
 - CAS Prickly sculpin
 - CSU Largescale sucker
 - CH Chinook salmon
 - CT Cutthroat trout
 - DV Dolly Varden char
 - LKC Lake chub
 - LSU Longnose sucker
 - LT Lake trout
 - LW Lake whitefish
 - NFC No Fish Captured
 - NS Not Sampled
 - NSC Northern pike minnow
 - PCC Peamouth chub
 - RB Rainbow trout
 - RSC Redside shiner

- Other Symbols and Abbreviations:**
- Other Drainages
 - Highway
 - Other Paved Road
 - Gravel Road
 - Proposed Road
 - Railroad
 - Contours (20m intervals)
 - Reach Boundaries and Reach Numbers
 - A74841 Proposed cutblock reference
 - Proposed cutblock
 - Lakes
 - Wetlands
 - Mapsheet Boundary

- Legend:**
- BH Beacon Hills Cons. Ltd.
 - Carm Carmanah Res. Ltd.
 - DGCS DeGisi & C. Schell Cons. Ltd.
 - ECOF Ecofor Cons. Ltd.
 - FINS FINS Cons. Ltd.
 - HC Hatfield Cons. Ltd.
 - RJA RJA Cons. Ltd.
 - SKR SKR Cons. Ltd.
 - TRIT Triton Env. Cons. Ltd.

Coordinates for Site Locations			
Area	Stream	Site	UTM (Z.E.N.)
A82818-1	460-968193	30	9.685767.6037599

Confirmed Coordinates for End of Fish Use (EFU) and/or Riparian Classification Change			
Area	Stream	Point	UTM (Z.E.N.)
A82818-2,4,6	460-967873	EFU	9.685088.6035362
A82818-3,5	460-968031	EFU	9.685163.6036404

**2007 Stream Assessment
for
Burns Lake Timber Sales Office
Babine Business Area**

Proposed Blocks A82821-1, 2

Scale 1: 20,000



Map 12 of 25

Projection: UTM (Zone 9)
Datum: NAD 83
Inventory Company: FINS Consulting Ltd.
Field Survey: July 8 - November 18, 2007

Map Produced by FINS Consulting Ltd. **FINS CONSULTING LTD.**

- Stream Fish Bearing Status and Riparian Classification:**
- Fish-bearing stream
 - - - Suspected fish presence
 - - - Suspected fish absence
 - Non fish-bearing stream
 - - - Non-Classified Drainage (NCD)
 - - - No Drainage Present (NA)

- Symbols and abbreviation used:**
- Fish Species RB* (SK) 8 - 5.71 (S2)
 - Spawning (Inferred)
 - Site location with reference and stream information
 - Fish Species RB* (SK) 8 - 5.71 - 0.33 (S2) - IM
 - Assessment at the Road Crossing
 - Gradient (%)
 - Channel Width (m)
 - Flow (l/s)
 - FPC Class (Inferred)
 - Habitat Rating
 - Fish code
 - RB EF: 7sec/2m
 - Additional Sampling
 - Sampling method
 - Sampling time
 - Sampling length
 - Previous Sampling Location (SKR01)
 - Consultant and Year of Survey
 - Stream Reference (Stream 2)
 - Watershed Code (218-541200-70000)

- Site Features:**
- / Falls
 - 1 Debris Jam
 - Cascade
 - Dam
 - Beaver Dam
 - Dewatering
 - Velocity Barrier
 - Culvert
 - ◇ Disappearing Point
 - ♀ Spring
 - ◇ Base Map Anomaly
 - 20 Height (m)
 - 31 Length (m)

- Habitat Value Rating:**
- Critical (CR)** Extremely abundant or important fish and/or fish habitat present, habitat critical in sustaining a subsistence, commercial, or recreational fishery, or species at risk.
 - Important (IM)** Moderately abundant fish and/or fish habitat present, but deemed to be not critical; contains similar habitat readily available to the stock elsewhere within a particular watershed.
 - Marginal (MG)** Sparse fish and/or fish habitat present (i.e. low value habitat or under/non utilized habitat), habitat that marginally contributes to fish production.
 - NA** No fish present, regardless of habitat quality.

- Fish Species:**
- BB Burbot
 - BMC Brassy minnow
 - CAS Prickly sculpin
 - CSU Largescale sucker
 - CH Chinook salmon
 - CT Cutthroat trout
 - DV Dolly Varden char
 - LKC Lake chub
 - LSU Longnose sucker
 - LT Lake trout
 - LW Lake whitefish
 - NFC No Fish Captured
 - NS Not Sampled
 - NCC Northern pike minnow
 - PCC Peamouth chub
 - RB Rainbow trout
 - RSC Redside shiner

- Other Symbols and Abbreviations:**
- Other Drainages
 - Highway
 - Other Paved Road
 - - - Gravel Road
 - - - Proposed Road
 - - - Railroad
 - 900 Contours (20m intervals)
 - 1 Reach Boundaries and Reach Numbers
 - A74841 Proposed cutblock reference
 - A74841 Proposed cutblock
 - Lakes
 - Wetlands
 - Mapsheet Boundary

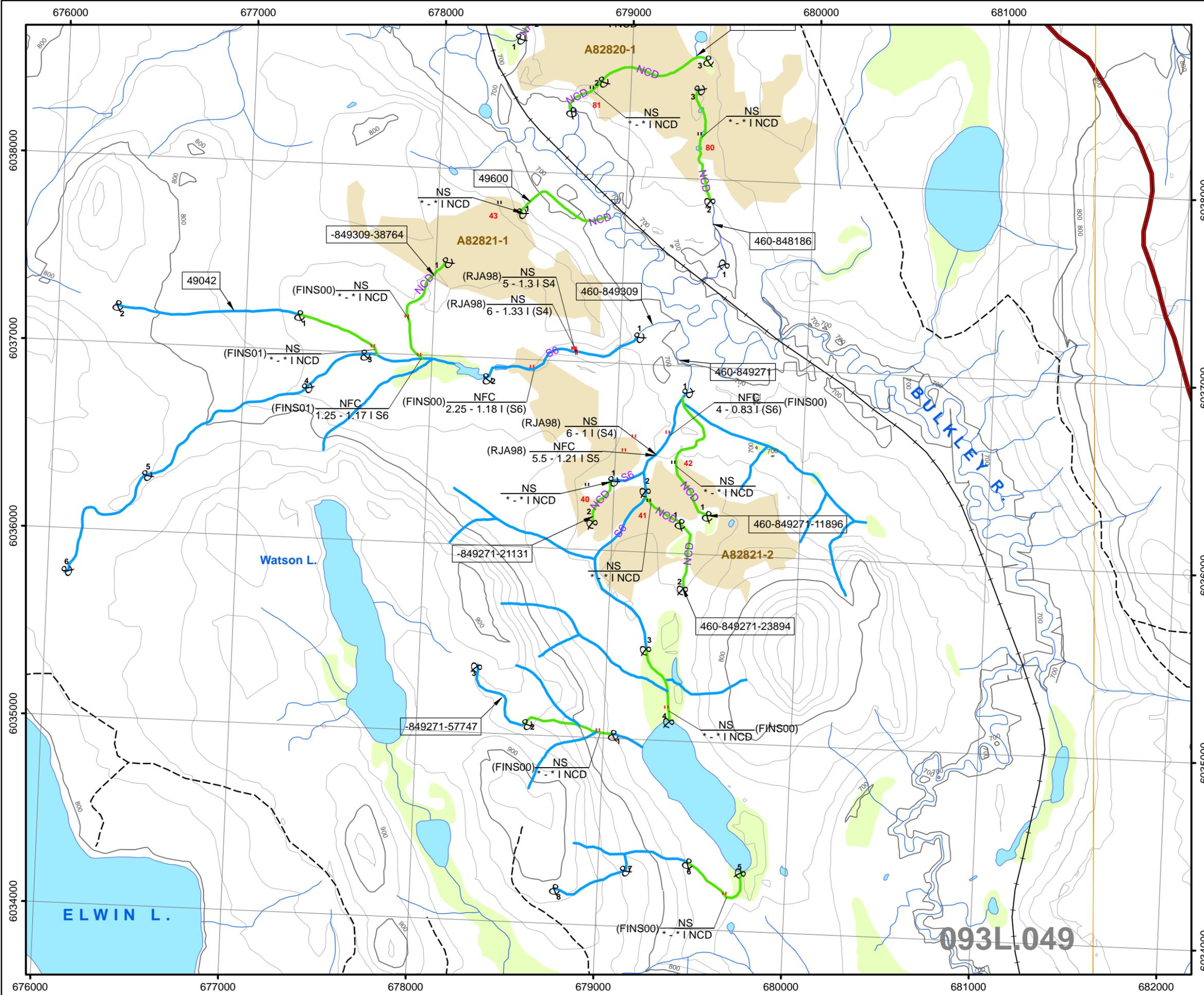
- BH Beacon Hills Cons. Ltd. ECOF Ecofor Cons. Ltd. RJA RJA Cons. Ltd.
Carm Carmanah Res. Ltd. FINS FINS Cons. Ltd. SKR SKR Cons. Ltd.
DGCS DeGisi & C. Schell Cons. Ltd. HC Hatfield Cons. Ltd. TRIT Triton Env.. Cons. Ltd.

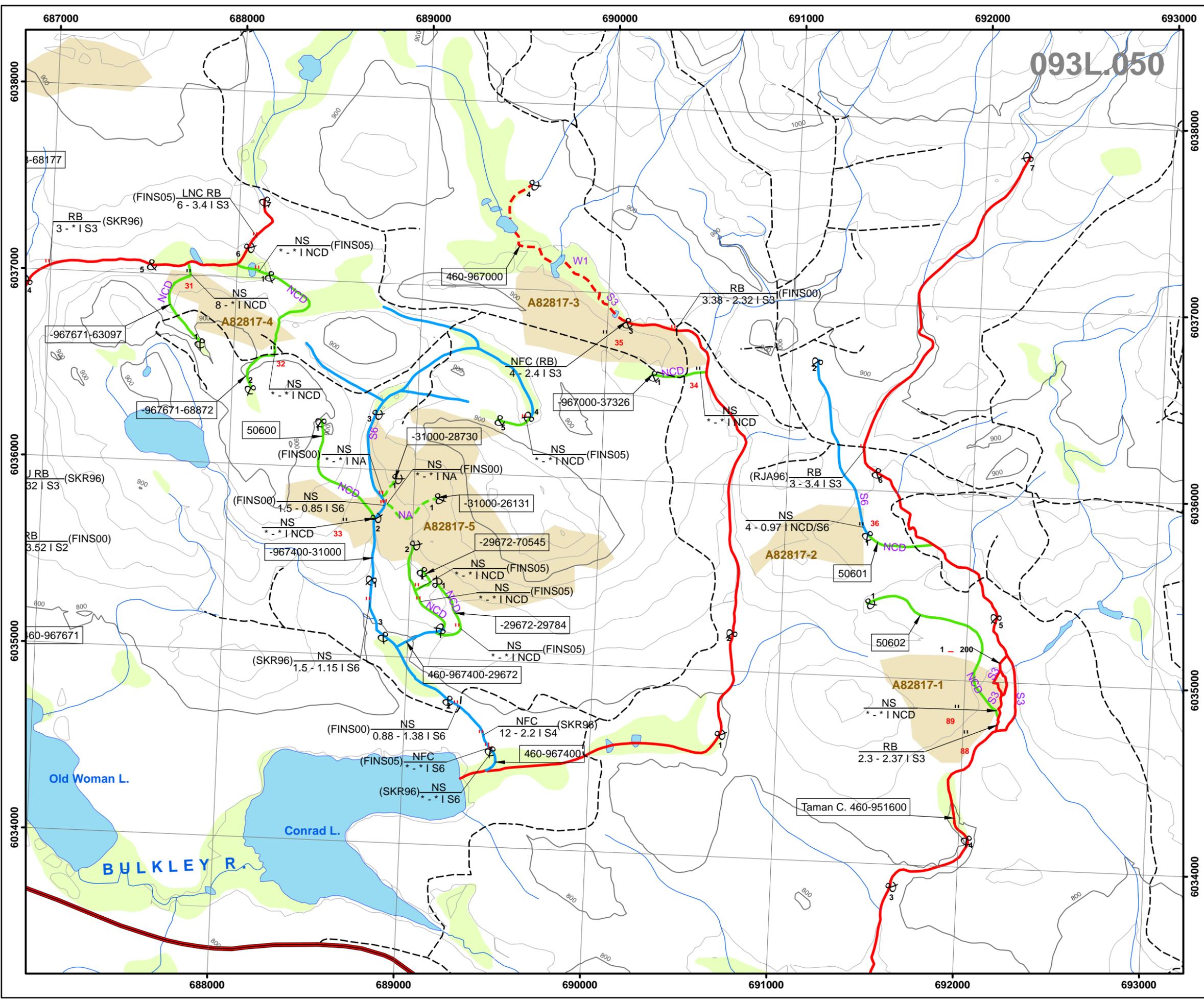
Coordinates for Site Locations

Area	Stream	Site	UTM (Z.E.N.)
A82821-2	460-849271-21131	40	9.678982.6036366
A82821-2	460-849271-23894	41	9.679201.6036259
A82821-2	460-849271-11896	42	9.679323.6036467
A82821-1	49600	43	9.678450.6037780

Confirmed Coordinates for End of Fish Use (EFU) and/or

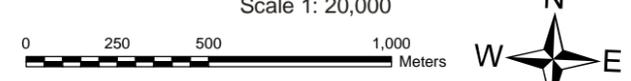
Area	Stream	Point	UTM (Z.E.N.)
A82821-2	460-849271-21131	S6/NCD	9.678982.6036366





2007 Stream Assessment for Burns Lake Timber Sales Office Babine Business Area

Proposed Blocks A82817-1, 2, 3, 4, 5
Scale 1: 20,000



Map 13 of 25

Projection: UTM (Zone 9)
Datum: NAD 83
Inventory Company: FINS Consulting Ltd.
Field Survey: July 8 - November 18, 2007

Map Produced by FINS Consulting Ltd. **FINS CONSULTING LTD.**

Stream Fish Bearing Status and Riparian Classification:

- Fish-bearing stream (Red line)
- Suspected fish presence (Green line)
- Suspected fish absence (Blue line)
- Non fish-bearing stream (Blue line)
- Non-Classified Drainage (NCD) (Green line)
- No Drainage Present (NA) (Green line)

Symbols and abbreviation used:

Fish Species: Spawning (Inferred) (SK) (Red circle), Spawning (Inferred) (S2) (Red circle), Fish code (RB) (Green circle), Additional Sampling (S2) (Red circle), Previous Sampling Location (SKR01) (Red circle), Consultant and Year of Survey (218-541200-70000) (Red circle), Stream Reference (Stream 2) (Red circle), Watershed Code (218-541200-70000) (Red circle)

Site Features:

- Falls (Red line)
- Debris Jam (Red line)
- Cascade (Red line)
- Dam (Red line)
- Beaver Dam (Red line)
- Velocity Barrier (Red line)
- Culvert (Red circle)
- Dewatering (Red line)
- Base Map Anomaly (Red circle)
- Disappearing Point (Red diamond)
- Spring (Red circle)
- Height (m) (Red circle)
- Length (m) (Red circle)

Habitat Value Rating:

- Critical (CR)** Extremely abundant or important fish and/or fish habitat present, habitat critical in sustaining a subsistence, commercial, or recreational fishery, or species at risk.
- Important (IM)** Moderately abundant fish and/or fish habitat present, but deemed to be not critical; contains similar habitat readily available to the stock elsewhere within a particular watershed.
- Marginal (MG)** Sparse fish and/or fish habitat present (i.e. low value habitat or under/non utilized habitat), habitat that marginally contributes to fish production.
- NA** No fish present, regardless of habitat quality.

Fish Species:

- BB Burbot
- BMC Brassy minnow
- CAS Prickly sculpin
- CSU Largescale sucker
- CH Chinook salmon
- CT Cutthroat trout
- DV Dolly Varden char
- LKC Lake chub
- LSU Longnose sucker
- LT Lake trout
- LW Lake whitefish
- NFC No Fish Captured
- NS Not Sampled
- NSC Northern pike minnow
- PCC Peamouth chub
- RB Rainbow trout
- RSC Redside shiner

Other Symbols and Abbreviations:

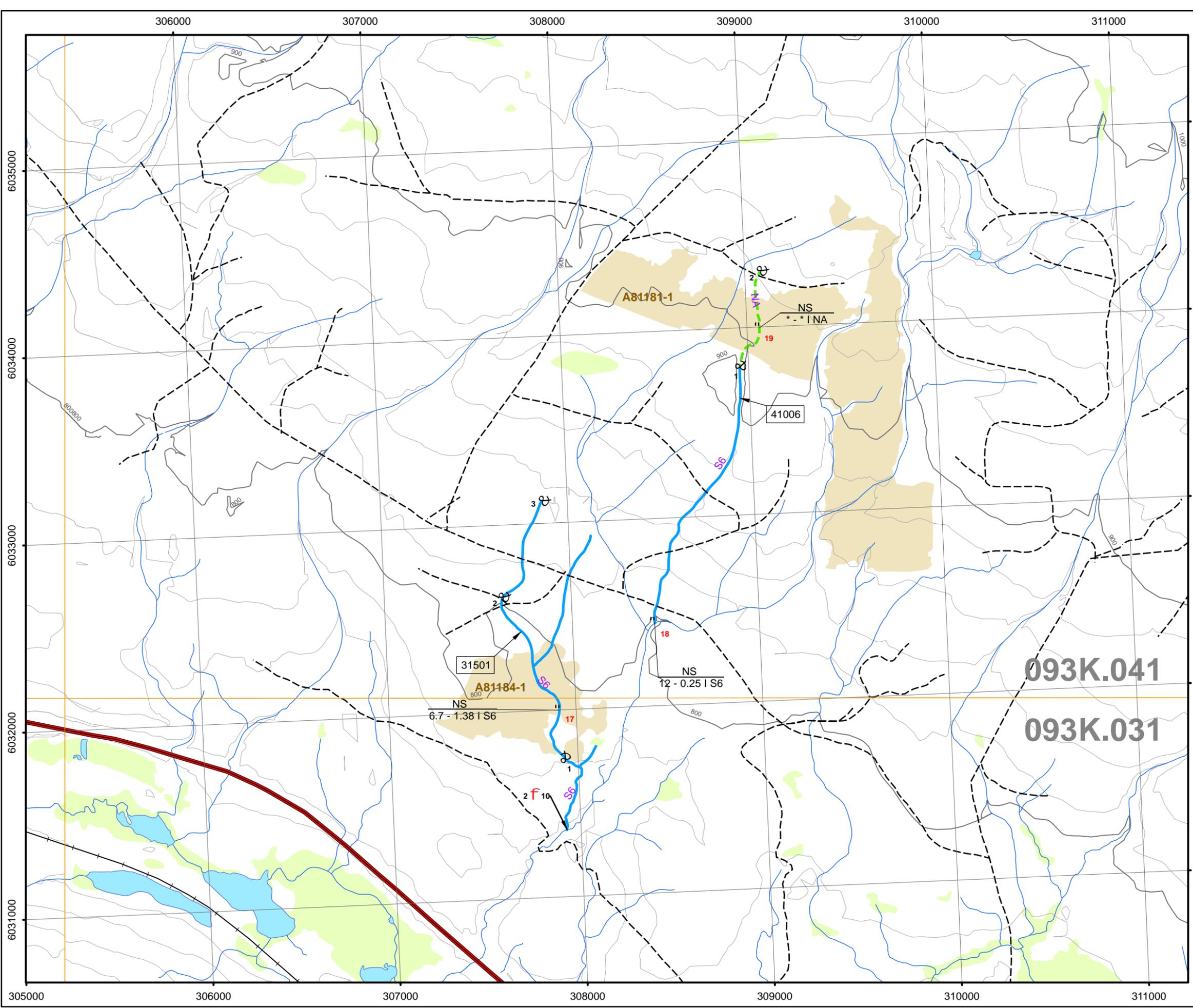
- Other Drainages (Blue line)
- Highway (Red line)
- Other Paved Road (Red line)
- Gravel Road (Red line)
- Proposed Road (Red line)
- Railroad (Red line)
- Contours (20m intervals) (Red line)
- Reach Boundaries and Reach Numbers (Red line)
- A74841 Proposed cutblock reference (Red line)
- Proposed cutblock (Red line)
- Lakes (Blue area)
- Wetlands (Green area)
- Mapsheet Boundary (Red line)

Legend:

- BH Beacon Hills Cons. Ltd.
- Carm Camanah Res. Ltd.
- DGCS DeGisi & C. Scheil Cons. Ltd.
- ECOF Ecofor Cons. Ltd.
- FINS FINS Cons. Ltd.
- HC Hatfield Cons. Ltd.
- RJA RJA Cons. Ltd.
- SKR SKR Cons. Ltd.
- TRIT Triton Env. Cons. Ltd.

Coordinates for Site Locations			
Area	Stream	Site	UTM (Z.E.N.)
A82817-4	460-967671-63097	31	9.687752.6037005
A82817-4	460-967671-68872	32	9.688222.6036610
A82817-5	50600	33	9.688787.6035728
A82817-3	460-967000-37326	34	9.690509.6036597
A82817-2	460-967000	35	9.690107.6036841
A82817-2	50601	36	9.691419.6035801
A82817-1	Taman C. / 460-951600	88	9.692181.6034770
A82817-1	50600	89	9.692174.6034847

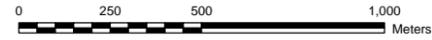
Confirmed Coordinates for End of Fish Use (EFU) and/or Riparian Classification Change			
Area	Stream	Point	UTM (Z.E.N.)
A82817-2	50601	NCD/S6	9.691442.6035770



2007 Stream Assessment for Burns Lake Timber Sales Office Babine Business Area

Proposed Block A81181 & A81184

Scale 1: 20,000



Map 14 of 25

Projection: UTM (Zone 10)

Datum: NAD 83

Inventory Company: FINS Consulting Ltd.

Field Survey: July 8 - November 18, 2007

Map Produced by FINS Consulting Ltd.



Stream Fish Bearing Status and Riparian Classification:

- Fish-bearing stream
- - - - Suspected fish presence
- Non fish-bearing stream
- Non-Classified Drainage (NCD)
- - - - Suspected fish absence
- - - - No Drainage Present (NA)

Symbols and abbreviation used:

- Fish Species (Inferred)
- Spawning (Inferred)
- RB* (SK) 8 - 5.7 (S2)
- Site location with reference and stream information
- RB* (SK) 8 - 5.7 - 0.33 (S2) - IM
- Assessment at the Road Crossing
- Fish code
- RB
- EF: 7sec/2m
- Additional Sampling
- (SKR01)
- Previous Sampling Location
- Stream Reference
- Stream 2
- 218-541200-70000
- Watershed Code

Site Features:

- / Falls
- 1 Debris Jam
- . Cascade
- Dam
- Beaver Dam
- | Velocity Barrier
- Culvert
- Dewatering
- ◇ Base Map Anomaly
- ◆ Disappearing Point
- ♀ Spring
- 20 Height (m)
- 31 Length (m)

Habitat Value Rating:

- Critical (CR)** Extremely abundant or important fish and/or fish habitat present, habitat critical in sustaining a subsistence, commercial, or recreational fishery, or species at risk.
- Important (IM)** Moderately abundant fish and/or fish habitat present, but deemed to be not critical; contains similar habitat readily available to the stock elsewhere within a particular watershed.
- Marginal (MG)** Sparse fish and/or fish habitat present (i.e. low value habitat or under/non utilized habitat), habitat that marginally contributes to fish production.
- NA** No fish present, regardless of habitat quality.

Fish Species:

- BB Burbot
- BMC Brassy minnow
- CAS Prickly sculpin
- CSJ Largescale sucker
- CH Chinook salmon
- CT Cutthroat trout
- DV Dolly Varden char
- LKC Lake chub
- LSU Longnose sucker
- LT Lake trout
- LW Lake whitefish
- NFC No Fish Captured
- NS Not Sampled
- NSC Northern pike minnow
- PCC Peamouth chub
- RB Rainbow trout
- RSC Redside shiner

Other Symbols and Abbreviations:

- Other Drainages
- Highway
- Other Paved Road
- - - - Gravel Road
- - - - Proposed Road
- - - - Railroad
- 900 Contours (20m intervals)
- | Reach Boundaries and Reach Numbers
- A74841 Proposed cutblock reference
- Proposed cutblock
- Lakes
- Wetlands
- Mapsheet Boundary

- BH Beacon Hills Cons. Ltd.
- Carm Carmanah Res. Ltd.
- DGCS DeGisi & C. Schell Cons. Ltd.
- ECOF Ecofor Cons. Ltd.
- FINS FINS Cons. Ltd.
- HC Hatfield Cons. Ltd.
- RJA RJA Cons. Ltd.
- SKR SKR Cons. Ltd.
- TRIT Triton Env. Cons. Ltd.

Coordinates for Site Locations

Area	Stream	Site	UTM (Z.E.N.)
A81184	31501	17	10.307911.6031999
A81181	41006	18	10.308439.6032447
A81181	41006	19	10.309066.6033995

Confirmed Coordinates for End of Fish Use (EFU) and/or Riparian Classification Change

Area	Stream	Point	UTM (Z.E.N.)
A81184	31501	EFU	10.307925.6031359

2007 Stream Assessment for Burns Lake Timber Sales Office Babine Business Area

Proposed Blocks A81192 & A82822

Scale 1: 20,000



Map 15 of 25

Projection: UTM (Zone 9)
Datum: NAD 83
Inventory Company: FINS Consulting Ltd.
Field Survey: July 8 - November 18, 2007

Map Produced by FINS Consulting Ltd. **FINS CONSULTING LTD.**

Stream Fish Bearing Status and Riparian Classification:

- Fish-bearing stream (Red solid line)
- Suspected fish presence (Red dashed line)
- Suspected fish absence (Red dotted line)
- Non fish-bearing stream (Blue solid line)
- Non-Classified Drainage (NCD) (Green solid line)
- No Drainage Present (NA) (Green dashed line)

Symbols and abbreviation used:

- Fish Species: Spawning (Interfered) (e.g., RB* (SK), S2)
- Site location with reference and stream information (e.g., 8-5.71 (S2))
- Assessment at the Road Crossing (e.g., 8-5.7-0.33 (S2) - IM)
- Fish code (e.g., RB, S2)
- Additional Sampling (e.g., EF: 75sec/2m)
- Previous Sampling Location Consultant and Year of Survey (e.g., SKR01)
- Stream Reference (e.g., Stream 2)
- Watershed Code (e.g., 218-541200-70000)

Site Features:

- Falls (Red slash)
- Debris Jam (Red 1)
- Cascade (Red dots)
- Dam (Red square)
- Beaver Dam (Red line)
- Velocity Barrier (Red V)
- Culvert (Red circle)
- Dewatering (Red U)
- Base Map Anomaly (Red diamond)
- Disappearing Point (Blue diamond)
- Spring (Blue circle)

Habitat Value Rating:

- Critical (CR)**: Extremely abundant or important fish and/or fish habitat present, habitat critical in sustaining a subsistence, commercial, or recreational fishery, or species at risk.
- Important (IM)**: Moderately abundant fish and/or fish habitat present, but deemed to be not critical; contains similar habitat readily available to the stock elsewhere within a particular watershed.
- Marginal (MG)**: Sparse fish and/or fish habitat present (i.e. low value habitat or under/non utilized habitat), habitat that marginally contributes to fish production.
- NA**: No fish present, regardless of habitat quality.

Fish Species:

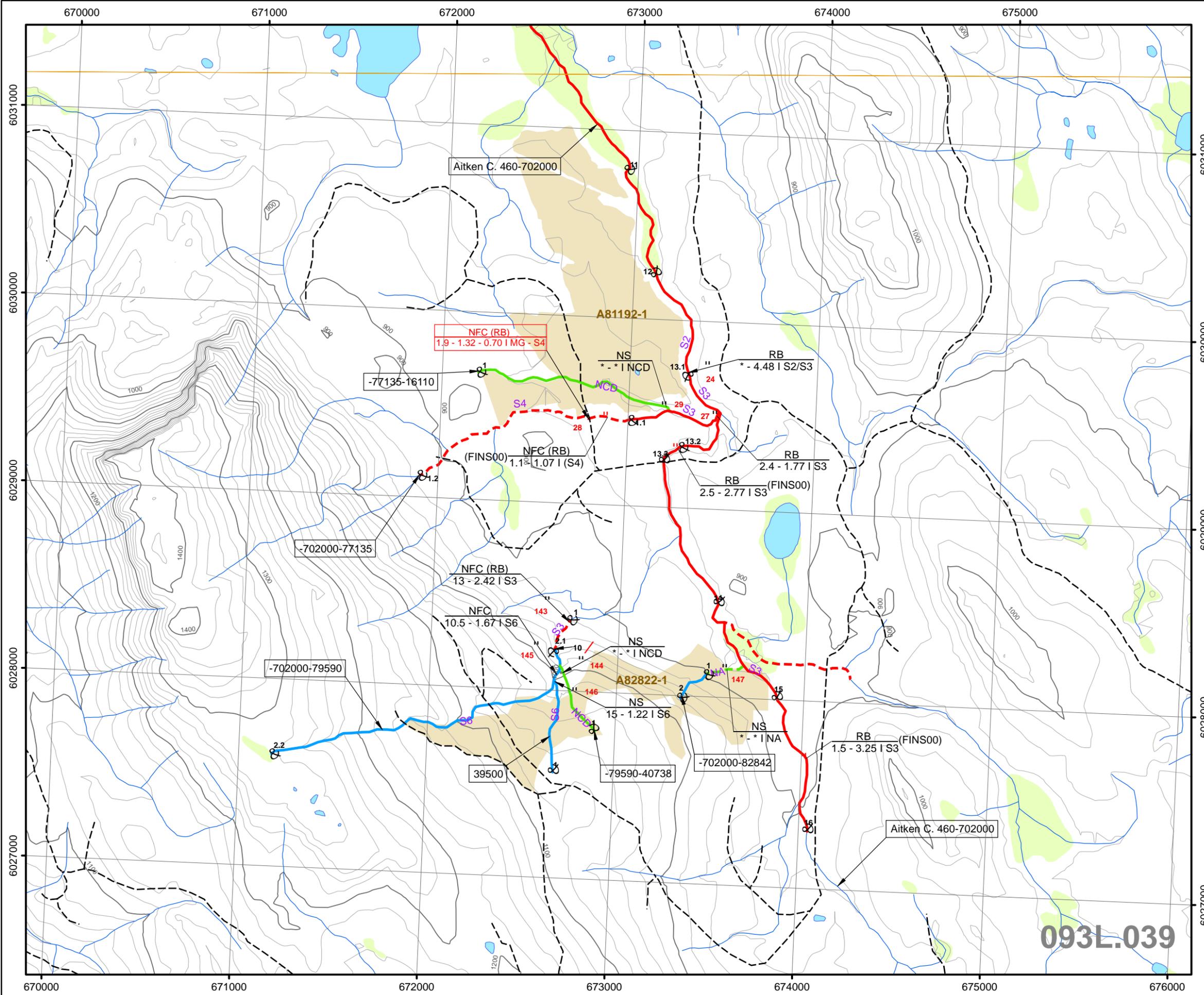
- BB Burbot, BMC Brassy minnow, CAS Prickly sculpin, CSU Largescale sucker, CH Chinook salmon, CT Cutthroat trout, DV Dolly Varden char, LKC Lake chub, LSU Longnose sucker, LT Lake trout, LW Lake whitefish, NS Not Sampled, NSC Northern pike minnow, PCC Peamouth chub, RB Rainbow trout, RSC Redside shiner

Other Symbols and Abbreviations:

- Other Drainages (Blue line)
- Highway (Red line)
- Other Paved Road (Red line)
- Gravel Road (Red line)
- Proposed Road (Red line)
- Railroad (Red line)
- Contours (20m intervals) (Grey line)
- Reach Boundaries and Reach Numbers (Red line)
- Proposed cutblock reference (Red line)
- Proposed cutblock (Red line)
- Lakes (Blue area)
- Wetlands (Green area)
- Mapsheet Boundary (Red line)

Legend:

- BH Beacon Hills Cons. Ltd., Carm Carmanah Res. Ltd., DGCS DeGisi & Schell Cons. Ltd.
- ECOF Ecofor Cons. Ltd., FINS FINS Cons. Ltd., HC Hatfield Cons. Ltd.
- RJA RJA Cons. Ltd., SKR SKR Cons. Ltd., TRIT Triton Env. Cons. Ltd.



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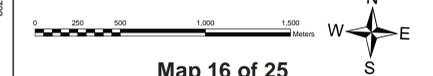
Coordinates for Site Locations			
Area	Stream	Site	UTM (Z.E.N.)
A81192-1	Aitken C. / 460-702000	24	9.673310.6029723
A81192-1	460-702000-77135	27	9.673474.6029498
A81192-1	460-702000-77135	28 at X-ing	9.672789.6029455
A81192-1	460-702000-77135-16110	29	9.673201.6029536
A82822-1	460-702000-79790	143	9.672733.6028368
A82822-1	460-702000-79790-40738	144	9.672709.6028095
A82822-1	460-702000-79790	145	9.672677.6028085
A82822-1	39500	146	9.672671.6028046
A82822-1	460-702000-82842	147	9.673584.6028151

Confirmed Coordinates for End of Fish Use (EFU) and/or Riparian Classification Change			
Area	Stream	Point	UTM (Z.E.N.)
A82822-1	460-702000-79790	EFU	9.672659.6028220
A81192-1	Aitken C. / 460-702000	S2/S3	9.673310.6029723
A81192-1	460-702000-77135	S3/S4	9.673010.6029460

**2007 Stream Assessment
for
Burns Lake Timber Sales Office
Babine Business Area**

Proposed Blocks A78462, A81195 & A82823

Scale 1: 20,000



Map 16 of 25

Projection: UTM (Zone 9)

Datum: NAD 83

Inventory Company: FINS Consulting Ltd.

Field Survey: July 8 - November 18, 2007

Map Produced by FINS Consulting Ltd. **FINS CONSULTING LTD.**

Stream Fish Bearing Status and Riparian Classification:

- Fish-bearing stream
- Suspected fish presence
- Suspected fish absence
- Non fish-bearing stream
- Non-Classified Drainage (NCD)
- No Drainage Present (NA)

Symbols and abbreviation used:

- Fish Species
- Site location with reference and stream information
- Fish code
- Additional Sampling
- Assessment at the Road Crossing
- Previous Sampling Location
- Stream ILP
- Watershed Code

Site Features:

- Falls
- Dam
- Culvert
- Debris Jam
- Beaver Dam
- Dewatering
- Cascade
- Velocity Barrier
- Disappearing Point
- Base Map Anomaly
- Spring

Habitat Value Rating:

- Critical (CR)** Extremely abundant or important fish and/or fish habitat present, habitat critical in sustaining a substantial, commercial, or recreational fishery, or species at risk.
- Important (IM)** Moderately abundant fish and/or fish habitat present, but deemed to be not critical; contains similar habitat readily available to the stock elsewhere within a particular watershed.
- Marginal (MG)** Sparse fish and/or fish habitat present (i.e. low value habitat or undrained/unutilized habitat), habitat that marginally contributes to fish production.
- NA** No fish present, regardless of habitat quality.

Fish Species:

- BB Burbot
- BMC Boreal minnow
- CAS Pickerel sculpin
- CSU Longscale sucker
- CH Chiroloche salmon
- CT Cutthroat trout
- DV Dolly Varden char
- LKC Lake chub
- LSU Longnose sucker
- LT Lake trout
- LW Lake whitefish
- NFC No Fish Captured
- NS Not Sampled
- NSC Northern pike-minnow
- PCC Peamouth chub
- RB Rainbow trout
- RSC Redside shiner

Other Symbols and Abbreviations:

- Other Drainages
- Reach Boundaries and Reach Numbers
- Highway
- Paved Main Road
- Gravel Road
- Proposed Road
- Railroad
- Contours (20m intervals)
- Proposed cutblock-reference
- Proposed cutblock
- Lakes
- Wetlands and Riparian Classification
- Mapsheet Boundary

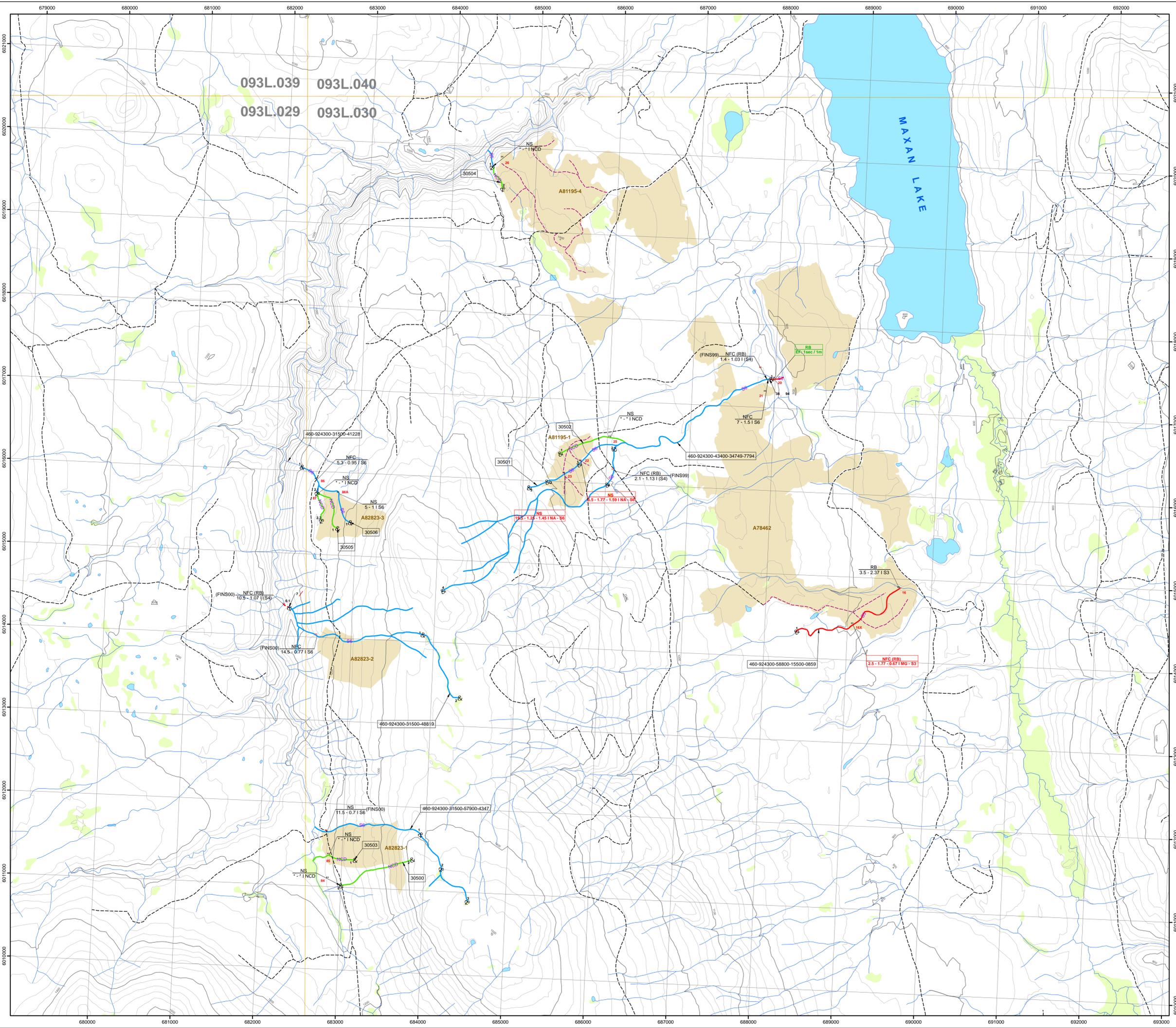
BH Beacon Hills Cons. Ltd. ECOF Ecofor Cons. Ltd. RJA RJA Cons. Ltd.
 Carm Carmanah Res. Ltd. FINS FINS Cons. Ltd. SKR SKR Cons. Ltd.
 DGCS DeGisi & C. Schell Cons. Ltd. HC Hatfield Cons. Ltd. TRIT Triton Env. Cons. Ltd.

Coordinates for Site Locations

Area	Stream	Site	UTM (Z.E.N.)
A78462	460-924300-58800-15500-0859	16	9.689611.6014885
A78462	460-924300-58800-15500-0859	16 X-ing	9.689067.6014426
A81195-1	460-924300-43400-34749-7794	20	9.687995.6017346
A81195-1	460-924300-43400-34749-7794	21	9.687915.6017343
A81195-1	30501	22 at X-ing	9.685693.6016251
A81195-1	30501	23 at X-ing	9.685501.6016094
A81195-1	30502	25	9.686037.6016557
A81195-4	30504	26	9.684469.6019766
A82823-1	30500	84	9.682938.6011020
A82823-1	30503	85	9.682846.6011380
A82823-3	460-924300-31500-41228	86	9.682504.6015897
A82823-3	30506	86A	9.682778.6015742
A82823-3	30505	87	9.682528.6015736

Confirmed Coordinates for End of Fish Use (EFU) and/or Riparian Classification Change

Area	Stream	Point	UTM (Z.E.N.)
A82823-2	460-924300-31500-4819	EFU	9.682230.6014349
A81195-1	460-924300-43400-34749-7794	EFU	9.687932.6017345
A81195-4	30504	S6/NCD	9.684469.6019767
A82823-3	460-924300-31500-41228	S6/NCD	9.682518.6015743



2007 Stream Assessment for Burns Lake Timber Sales Office Babine Business Area

Crossing at Carrier FSR 10.5 km

Scale 1: 20,000



Map 17 of 25

Projection: UTM (Zone 9)
Datum: NAD 83
Inventory Company: FINS Consulting Ltd.
Field Survey: July 8 - November 18, 2007

Map Produced by FINS Consulting Ltd. **FINS CONSULTING LTD.**

Stream Fish Bearing Status and Riparian Classification:

- Fish-bearing stream
- Non fish-bearing stream
- Suspected fish presence
- Non-Classified Drainage (NCD)
- Suspected fish absence
- No Drainage Present (NA)

Symbols and abbreviation used:

- Fish Species (Spawning Inferred)
- Fish Species (Spawning Inferred)
- Site location with reference and stream information
- Assessment at the Road Crossing
- Sampling method
- Additional Sampling
- Previous Sampling Location
- Stream Reference
- Watershed Code

Site Features:

- Falls
- Dam
- Culvert
- Disappearing Point
- Debris Jam
- Beaver Dam
- Dewatering
- Spring
- Cascade
- Velocity Barrier
- Base Map Anomaly
- Spring

Habitat Value Rating:

- Critical (CR)** Extremely abundant or important fish and/or fish habitat present, habitat critical in sustaining a subsistence, commercial, or recreational fishery, or species at risk.
- Important (IM)** Moderately abundant fish and/or fish habitat present, but deemed to be not critical; contains similar habitat readily available to the stock elsewhere within a particular watershed.
- Marginal (MG)** Sparse fish and/or fish habitat present (i.e. low value habitat or under/non utilized habitat), habitat that marginally contributes to fish production.
- NA** No fish present, regardless of habitat quality.

Fish Species:

- BB Burbot
- BMC Brassy minnow
- CAS Prickly sculpin
- CSU Largescale sucker
- CH Chinook salmon
- CT Cutthroat trout
- DV Dolly Varden char
- LKC Lake chub
- LSU Longnose sucker
- LT Lake trout
- LW Lake whitefish
- NFC No Fish Captured
- NS Not Sampled
- NSC Northern pike minnow
- PCC Peamouth chub
- RB Rainbow trout
- RSC Redside shiner

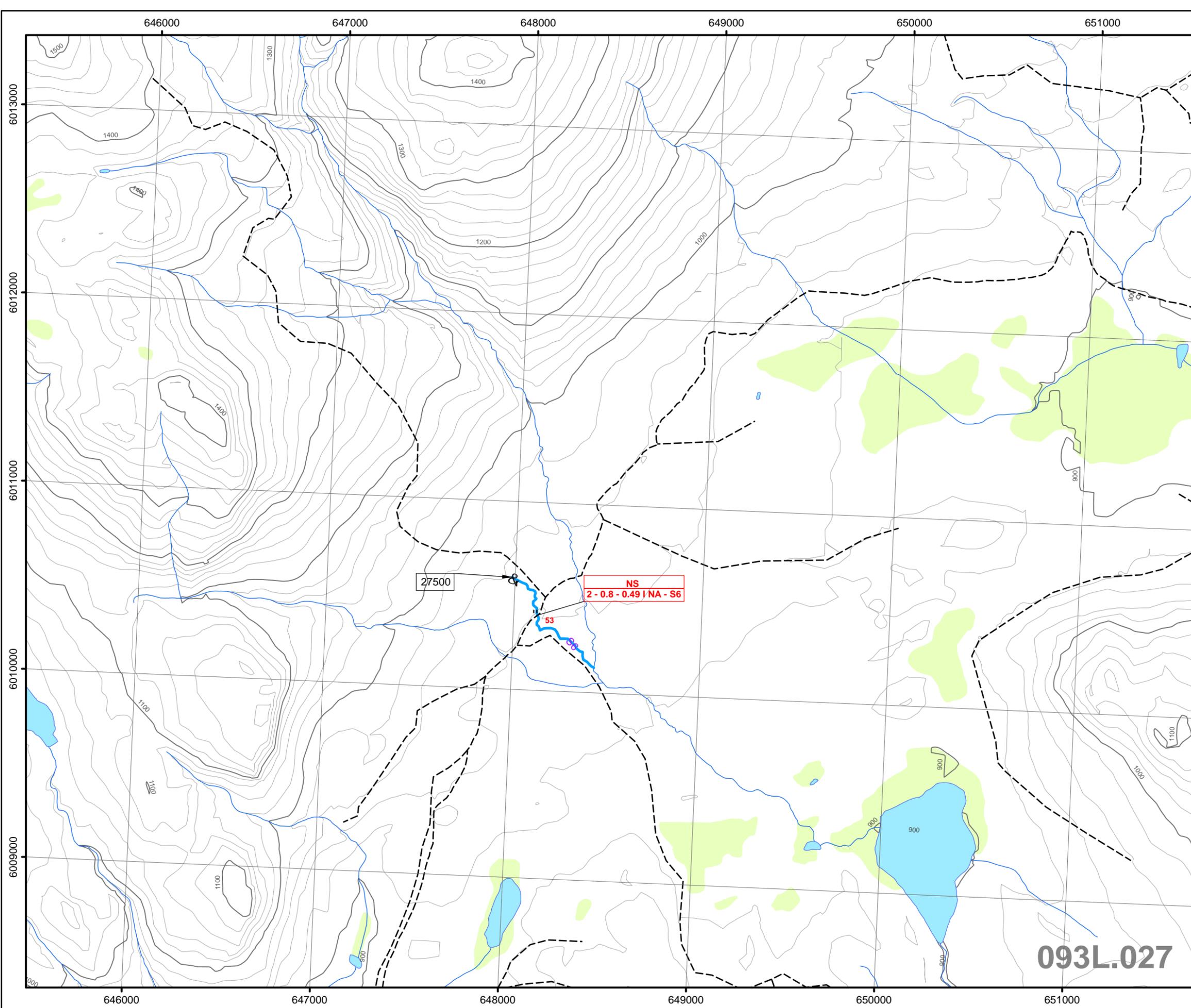
Other Symbols and Abbreviations:

- Other Drainages
- Highway
- Other Paved Road
- Gravel Road
- Proposed Road
- Railroad
- Contours (20m intervals)
- Reach Boundaries and Reach Numbers
- Proposed cutblock reference
- Proposed cutblock
- Lakes
- Wetlands
- Mapsheet Boundary

- BH Beacon Hills Cons. Ltd.
- Carm Carmanah Res. Ltd.
- DGCS DeGisi & C. Schell Cons. Ltd.
- ECOF Ecofor Cons. Ltd.
- FINS FINS Cons. Ltd.
- HC Hatfield Cons. Ltd.
- RJA RJA Cons. Ltd.
- SKR SKR Cons. Ltd.
- TRIT Triton Env. Cons. Ltd.

Coordinates for Site Locations

Area	Stream	Site	UTM (Z.E.N.)
Carrier FSR 10.5 km	27500	53 at X-ing	9.648127.6010400



093L.027

2007 Stream Assessment for Burns Lake Timber Sales Office Babine Business Area

Proposed Block A81506

Scale 1: 20,000



Map 18 of 25

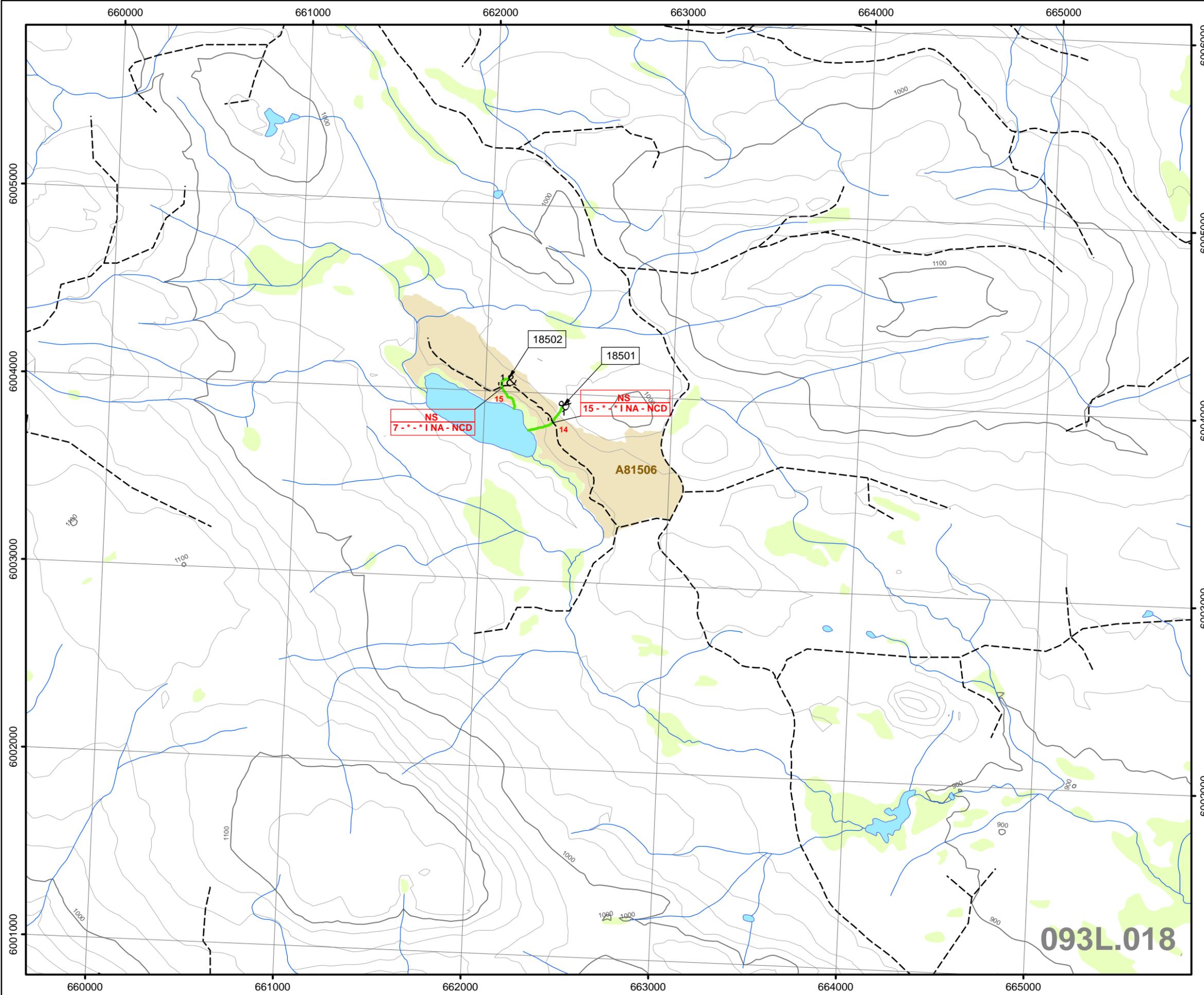
Projection: UTM (Zone 9)

Datum: NAD 83

Inventory Company: FINS Consulting Ltd.

Field Survey: July 8 - November 18, 2007

Map Produced by FINS Consulting Ltd. **FINS CONSULTING LTD.**



Stream Fish Bearing Status and Riparian Classification:

- Fish-bearing stream
- Suspected fish presence
- Suspected fish absence
- Non fish-bearing stream
- Non-Classified Drainage (NCD)
- No Drainage Present (NA)

Symbols and abbreviation used:

Site location with reference and stream information:
 RB* (SK) 8 - 5.71 (S2)
 RB* (SK) 8 - 5.7 - 0.33 (S2) - IM

Additional Sampling:
 RB EF: 7sec/2m

Previous Sampling Location:
 (SKR01) Stream 2
 218-541200-70000 Watershed Code

Site Features:

- Falls
- Debris Jam
- Cascade
- Dam
- Beaver Dam
- Velocity Barrier
- Culvert
- Dewatering
- Base Map Anomaly
- Disappearing Point
- Spring
- Height (m)
- Length (m)

Habitat Value Rating:

- Critical (CR)** Extremely abundant or important fish and/or fish habitat present, habitat critical in sustaining a subsistence, commercial, or recreational fishery, or species at risk.
- Important (IM)** Moderately abundant fish and/or fish habitat present, but deemed to be not critical; contains similar habitat readily available to the stock elsewhere within a particular watershed.
- Marginal (MG)** Sparse fish and/or fish habitat present (i.e. low value habitat or under/non utilized habitat), habitat that marginally contributes to fish production.
- NA** No fish present, regardless of habitat quality.

Fish Species:

BB Burbot	DV Dolly Varden char	NS Not Sampled
BMC Brassy minnow	LKC Lake chub	NSC Northern pike minnow
CAS Prickly sculpin	LSU Longnose sucker	PCC Peamouth chub
CSU Largemouth sucker	LT Lake trout	RB Rainbow trout
CH Chinook salmon	LW Lake whitefish	RSC Redside shiner
CT Cutthroat trout	NFC No Fish Captured	

Other Symbols and Abbreviations:

- Other Drainages
- Highway
- Other Paved Road
- Gravel Road
- Proposed Road
- Railroad
- Contours (20m intervals)
- Reach Boundaries and Reach Numbers
- Proposed cutblock reference
- Proposed cutblock
- Lakes
- Wetlands
- Mapsheet Boundary

Legend:

- BH Beacon Hills Cons. Ltd.
- Carm Carmanah Res. Ltd.
- DGCS DeGisi & C. Schell Cons. Ltd.
- ECOF Ecolor Cons. Ltd.
- FINS FINS Cons. Ltd.
- HC Hatfield Cons. Ltd.
- RJA RJA Cons. Ltd.
- SKR SKR Cons. Ltd.
- TRIT Triton Env. Cons. Ltd.

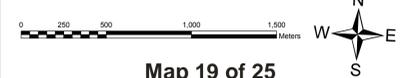
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Coordinates for Site Locations			
Area	Stream	Site	UTM (Z.E.N.)
A81506	18501	14 at X-ing	9.662364.6003844
A81506	18502	15 at X-ing	9.662091.6004022

2007 Stream Assessment for Burns Lake Timber Sales Office Babine Business Area

Proposed Blocks A76129, A77759 & A82648

Scale 1: 20,000



Map 19 of 25

Projection: UTM (Zone 9)

Datum: NAD 83

Inventory Company: FINS Consulting Ltd.
Field Survey: July 8 - November 18, 2007

Map Produced by FINS Consulting Ltd. **FINS CONSULTING LTD.**

Stream Fish Bearing Status and Riparian Classification:

- Fish-bearing stream
- - - Suspected fish presence
- · - · - Suspected fish absence
- Non fish-bearing stream
- - - Non-Classified Drainage (NCD)
- · - · - No Drainage Present (NA)

Symbols and abbreviation used:

- Fish Species
- RB (SK) Site location with reference and stream information
- S2 Additional Sampling
- S2-IM Assessment at the Road Crossing
- SKR01 Previous Sampling Location
- 00123 Consultant and Year of Survey
- 219-541200-70000 Stream I/P
- E Falls
- D Dam
- C Cascade
- S Sluice
- W Weir
- V Velocity Barrier
- A Anomaly
- S Spring

Habitat Value Rating:

- Critical (CR)** Extremely abundant or important fish and/or fish habitat present, habitat critical in sustaining a subsistence, commercial, or recreational fishery, or species at risk.
- Important (IM)** Moderately abundant fish and/or fish habitat present, but deemed to be not critical; contains similar habitat readily available to the stock elsewhere within a particular watershed.
- Marginal (MG)** Sparse fish and/or fish habitat present (i.e. low value habitat or unutilized habitat), habitat that marginally contributes to fish production.
- NA** No fish present, regardless of habitat quality.

Fish Species:

- | | | | | | |
|-----|-------------------|-----|-------------------|-----|----------------------|
| BB | Burbot | DV | Dolly Varden char | NS | Not Sampled |
| BMC | Breisty minnow | LKC | Lake chub | NSC | Northern pike minnow |
| CAS | Chickadee sculpin | LSU | Longnose sucker | PCC | Pearmouth dhub |
| CSJ | Longnose sucker | LT | Lake trout | RB | Rainbow trout |
| CH | Chinook salmon | LW | Lake whitefish | RSC | Reside shiner |
| CT | Cutthroat trout | NFC | No Fish Captured | | |

Other Symbols and Abbreviations:

- Reach Boundaries and Reach Numbers
- Highway
- Gravel Road
- Proposed Road
- Railroad
- Contours (20m intervals)
- Proposed outblock
- Lakes
- Wetlands and Riparian Classification
- Mapsheet Boundary

BH Beacon Hills Cons. Ltd. ECOF Ecofor Cons. Ltd. RJA RJA Cons. Ltd.
 Carm Carmann Res. Ltd. FINS FINS Cons. Ltd. SKR SKR Cons. Ltd.
 DCS DeGai & C. Schell Cons. Ltd. HC Hatfield Cons. Ltd. TRIT Triten Env. Cons. Ltd.

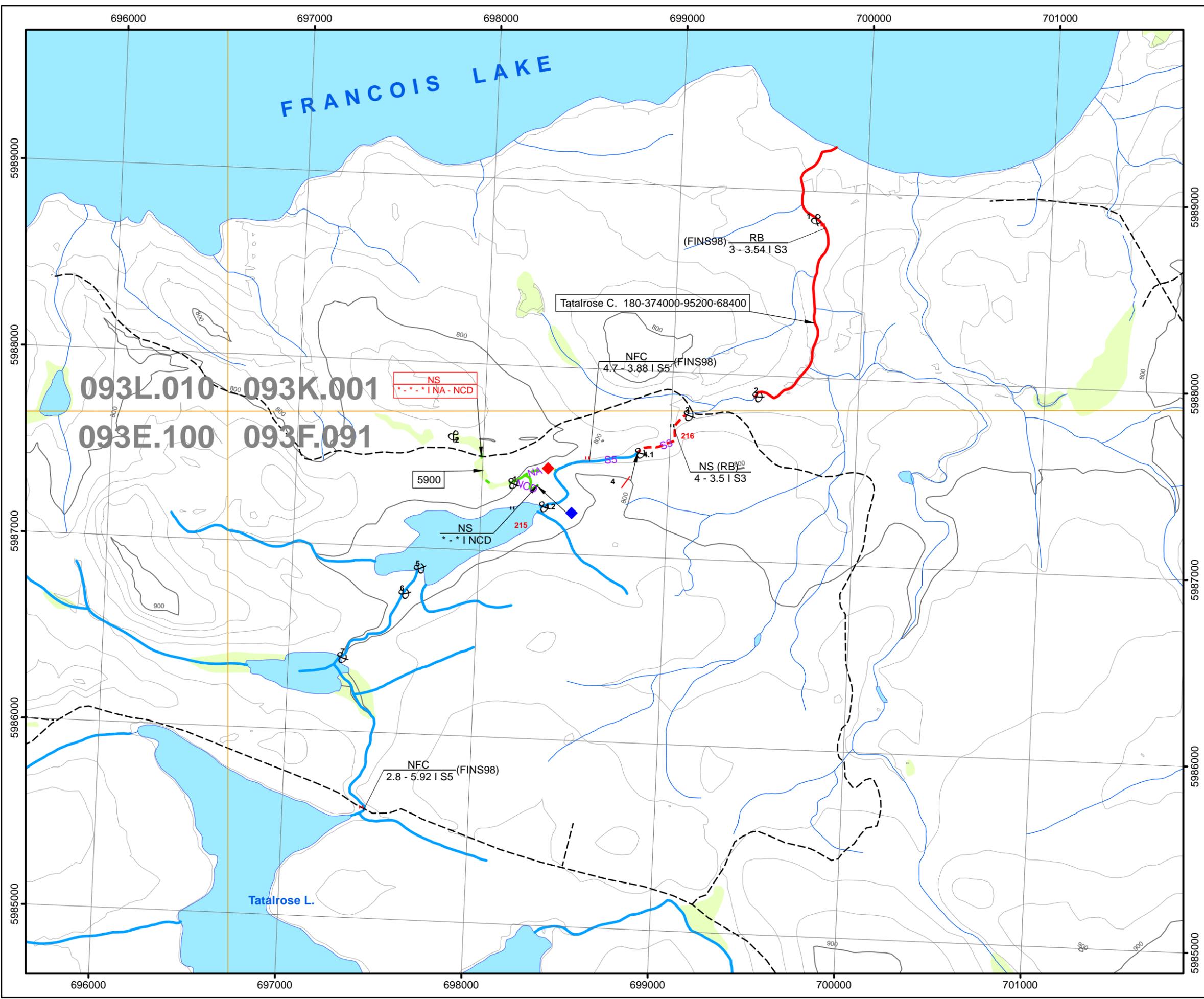
Coordinates for Site Locations

Area	Stream	Site	UTM (Z. E. N.)
A76129	3131	46	9.676790 5994324
A76129	9500	47	9.677086 5995036
A76129	3131	48	9.677060 5995055
A76129	180-374000-95200-87600-3020-0960-458	49	9.676819 5995000
A76129	3129	50 at X-ing	9.676317 5995441
A76129	9501	51 at X-ing	9.676359 5995442
A76129	9502	52 at X-ing	9.676551 5995455
A77759	180-374000-95200-87702-7675	65	9.675006 5987086
A77759	9501	66	9.674736 5987121
A77759	180-374000-95200-87702-7675	67	9.674248 5987229
A77759	9502	68	9.673729 5986961
A77759	180-374000-95200-91200	69	9.673365 5986739
A77759	180-374000-95200-91200	69A	9.673497 5986111
A82648	180-374000-95200-94700	70	9.668564 5986155
A82648	98508	71	9.668866 5985904
A82648	98507	72	9.668800 5985710
A82648	98505	73	9.668578 5985371
A82648	98506	74	9.668585 5985588
A82648	180-374000-95200-94700	75	9.668558 5985364

Confirmed Coordinates for End of Fish Use (EFU) and/or Riparian Classification Change

Area	Stream	Point	UTM (Z. E. N.)
A77759	180-374000-95200-91200	EFU	9.673461 5986255
A82648	180-374000-95200-94700	S3/W1	9.669004 5985620
A82648	180-374000-95200-94700	W1/S6	9.668559 5986125





2007 Stream Assessment

for
Burns Lake Timber Sales Office
Babine Business Area

Crossing at N Tatalrose FSR 5.9 km

Scale 1: 20,000



Map 20 of 25

Projection: UTM (Zone 9)

Datum: NAD 83

Inventory Company: FINS Consulting Ltd.

Field Survey: July 8 - November 18, 2007

Map Produced by FINS Consulting Ltd.



Stream Fish Bearing Status and Riparian Classification:

- Fish-bearing stream
- - - Suspected fish presence
- - - Suspected fish absence
- Non fish-bearing stream
- - - Non-Classified Drainage (NCD)
- - - No Drainage Present (NA)

Symbols and abbreviation used:

- Fish Species Spawning (Inferred)
- Site location with reference and stream information
- Assessment at the Road Crossing
- Fish code
- Additional Sampling
- Previous Sampling Location
- Stream Reference
- Watershed Code

Site Features:

- Falls
- Dam
- Culvert
- Disappearing Point
- Debris Jam
- Beaver Dam
- Dewatering
- Spring
- Cascade
- Velocity Barrier
- Base Map Anomaly
- Height (m) Length (m)

Habitat Value Rating:

- Critical (CR)** Extremely abundant or important fish and/or fish habitat present, habitat critical in sustaining a subsistence, commercial, or recreational fishery, or species at risk.
- Important (IM)** Moderately abundant fish and/or fish habitat present, but deemed to be not critical; contains similar habitat readily available to the stock elsewhere within a particular watershed.
- Marginal (MG)** Sparse fish and/or fish habitat present (i.e. low value habitat or under/non utilized habitat), habitat that marginally contributes to fish production.
- NA** No fish present, regardless of habitat quality.

Fish Species:

- BB Burbot
- BMC Brassy minnow
- CAS Prickly sculpin
- CSU Largescale sucker
- CH Chinook salmon
- CT Cutthroat trout
- DV Dolly Varden char
- LKC Lake chub
- LSU Longnose sucker
- LT Lake trout
- LW Lake whitefish
- NFC No Fish Captured
- NS Not Sampled
- NSC Northern pike minnow
- PCC Peamouth chub
- RB Rainbow trout
- RSC Redside shiner

Other Symbols and Abbreviations:

- Other Drainages
- Highway
- Other Paved Road
- Gravel Road
- Proposed Road
- Railroad
- Contours (20m intervals)
- Reach Boundaries and Reach Numbers
- Proposed cutblock reference
- Proposed cutblock
- Lakes
- Wetlands
- Mapsheet Boundary

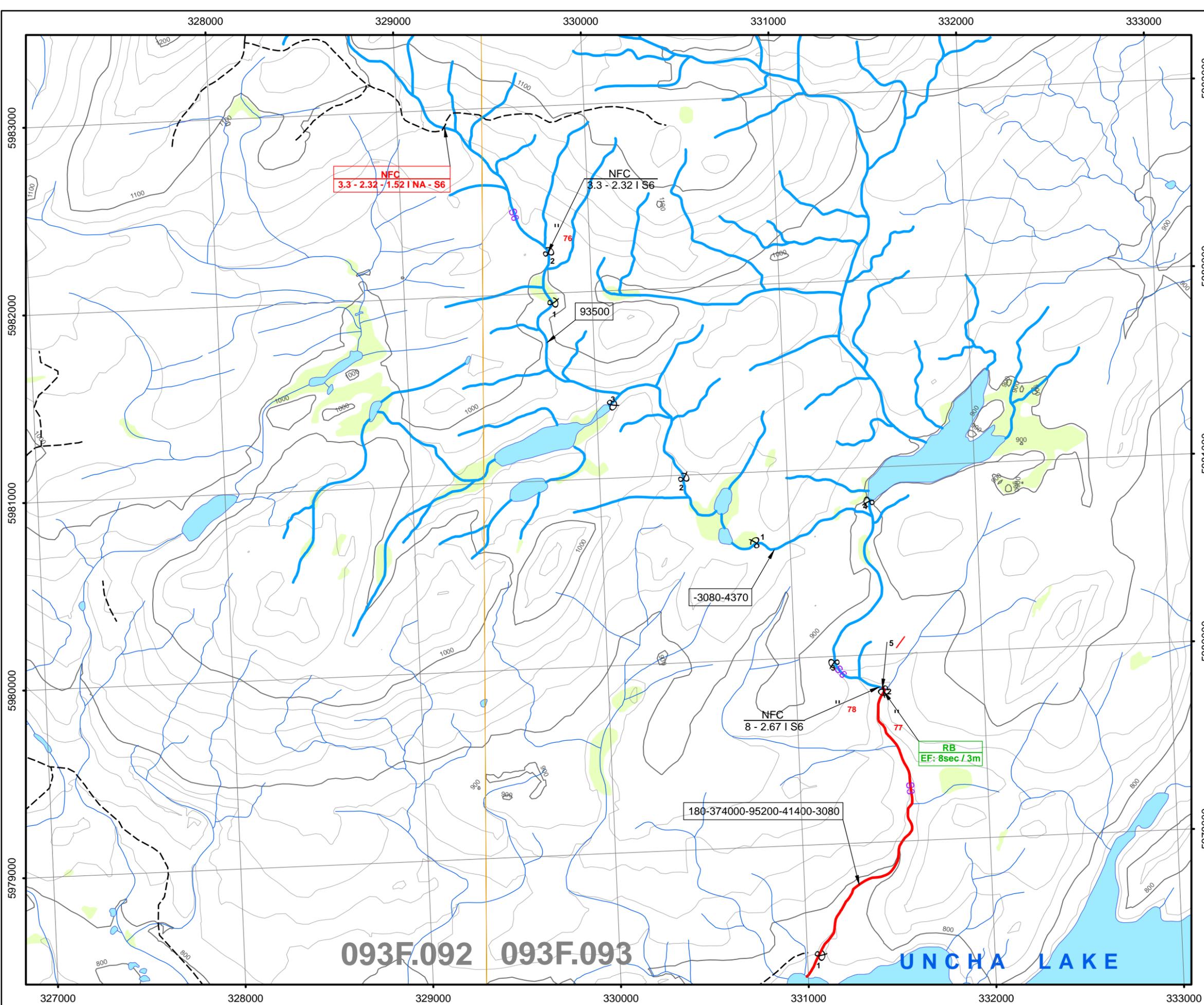
- BH Beacon Hills Cons. Ltd.
- Carm Carmanah Res. Ltd.
- DGCS DeGisi & C. Schell Cons. Ltd.
- ECOF Ecofor Cons. Ltd.
- FINS FINS Cons. Ltd.
- HC Hatfield Cons. Ltd.
- RJA RJA Cons. Ltd.
- SKR SKR Cons. Ltd.
- TRIT Triton Env. Cons. Ltd.

Coordinates for Site Locations

Area	Stream	Site	UTM (Z.E.N.)
N Tatalrose FSR 5.9 km X-ing	5900	215	10.305023.5987220
	5900	215 X-ing	10.304729.5987390
	Tatalrose C. / 180-374000 95200-68400	216	10.305770.5987490

Confirmed Coordinates for End of Fish Use (EFU) and/or Riparian Classification Change

Area	Stream	Point	UTM (Z.E.N.)
N Tatalrose FSR 5.9 km X-ing	Tatalrose C. / 180-374000 95200-68400	EFU	10.305566.5987370



2007 Stream Assessment for Burnes Lake Timber Sales Office Babine Business Area

Crossing at Uncha Mtn. FSR 9.65 km
Scale 1: 20,000



Map 21 of 25

Projection: UTM (Zone 10)
Datum: NAD 83
Inventory Company: FINS Consulting Ltd.
Field Survey: July 8 - November 18, 2007

Map Produced by FINS Consulting Ltd. **FINS CONSULTING LTD.**

- Stream Fish Bearing Status and Riparian Classification:**
- Fish-bearing stream
 - Suspected fish presence
 - Suspected fish absence
 - Non fish-bearing stream
 - Non-Classified Drainage (NCD)
 - No Drainage Present (NA)

- Symbols and abbreviation used:**
- Fish Species RB* (SK)
 - Spawning (Inferred)
 - Site location with reference and stream information
 - Assessment at the Road Crossing
 - Gradient Channel Width (m)
 - FPC Class (Inferred)
 - Habitat Rating
 - Fish code RB
 - Additional Sampling EF: 7sec/2m
 - Sampling method
 - Sampling time
 - Sampling length
 - Previous Sampling Location (SKR01)
 - Consultant and Year of Survey (Stream 2)
 - Stream Reference (218-541200-70000)
 - Watershed Code

- Site Features:**
- / Falls
 - 1 Debris Jam
 - . Cascade
 - Dam
 - Beaver Dam
 - Velocity Barrier
 - Culvert
 - | Dewatering
 - ◇ Base Map Anomaly
 - ◇ Disappearing Point
 - Spring
 - Height (m)
 - Length (m)

- Habitat Value Rating:**
- Critical (CR)** Extremely abundant or important fish and/or fish habitat present, habitat critical in sustaining a subsistence, commercial, or recreational fishery, or species at risk.
 - Important (IM)** Moderately abundant fish and/or fish habitat present, but deemed to be not critical; contains similar habitat readily available to the stock elsewhere within a particular watershed.
 - Marginal (MG)** Sparse fish and/or fish habitat present (i.e. low value habitat or under/non utilized habitat), habitat that marginally contributes to fish production.
 - NA** No fish present, regardless of habitat quality.

- Fish Species:**
- BB Burbot
 - BMC Brassy minnow
 - CAS Prickly sculpin
 - CSU Largescale sucker
 - CH Chinook salmon
 - CT Cutthroat trout
 - DV Dolly Varden char
 - LKC Lake chub
 - LSU Longnose sucker
 - LT Lake trout
 - LW Lake whitefish
 - NFC No Fish Captured
 - NS Not Sampled
 - NSC Northern pike minnow
 - PCC Peamouth chub
 - RB Rainbow trout
 - RSC Redside shiner

- Other Symbols and Abbreviations:**
- Other Drainages
 - Highway
 - Other Paved Road
 - Gravel Road
 - Proposed Road
 - Railroad
 - Contours (20m intervals)
 - Reach Boundaries and Reach Numbers
 - A74841 Proposed cutblock reference
 - Proposed cutblock
 - Lakes
 - Wetlands
 - Mapsheet Boundary

- BH Beacon Hills Cons. Ltd. ECF Ecofor Cons. Ltd. RJA RJA Cons. Ltd.
 Carm Camanah Res. Ltd. FINS FINS Cons. Ltd. SKR SKR Cons. Ltd.
 DGCS DeGisi & C. Schell Cons. Ltd. HC Hatfield Cons. Ltd. TRIT Triton Env.. Cons. Ltd.

Coordinates for Site Locations			
Area	Stream	Site	UTM (Z.E.N.)
UNCHA 9+650	93500	76	10.329776.5982216
UNCHA 9+650	93500	76X	10.329253.5982905
UNCHA 9+650	180-374000-95200-41400-3080	77	10.331467.5979801
UNCHA 9+650	180-374000-95200-41400-3080	78	10.331442.5979826

Confirmed Coordinates for End of Fish Use (EFU) and/or Riparian Classification Change			
Area	Stream	Point	UTM (Z.E.N.)
UNCHA 9+650	180-374000-95200-41400-3080	EFU	10.331460.5979820

093F.092 093F.093

UNCHA LAKE

**2007 Stream Assessment
for
Burns Lake Timber Sales Office
Babine Business Area**

Proposed Blocks A82492, A82494 & A82508

Scale 1: 20,000



Map 23 of 25

Projection: UTM (Zone 10)

Datum: NAD 83

Inventory Company: FINS Consulting Ltd.

Field Survey: July 8 - November 18, 2007

Map Produced by FINS Consulting Ltd. **FINS CONSULTING LTD.**

Stream Fish Bearing Status and Riparian Classification:

- Fish-bearing stream
- Suspected fish presence
- Suspected fish absence
- Non fish-bearing stream
- Non-Classified Drainage (NCD)
- No Drainage Present (NA)

Symbols and abbreviation used:

- Fish Species
- Site location with reference and stream information
- Fish code
- Additional Sampling
- Assessment at the Road Crossing
- Previous Sampling Location
- Watershed Code

Site Features:

- Falls
- Dam
- Culvert
- Debris Jam
- Beaver Dam
- Dewatering
- Cascade
- Velocity Barrier
- Disappearing Point
- Base Map Anomaly
- Spring

Habitat Value Rating:

- Critical (CR)** Extremely abundant or important fish and/or fish habitat present, habitat critical in sustaining a subsistence, commercial, or recreational fishery, or species at risk.
- Important (IM)** Moderately abundant fish and/or fish habitat present, but deemed to be not critical; contains similar habitat readily available to the stock elsewhere within a particular watershed.
- Marginal (MG)** Sparse fish and/or fish habitat present (i.e. low value habitat or under/over utilized habitat), habitat that marginally contributes to fish production.
- NA** No fish present, regardless of habitat quality.

Fish Species:

- BB Burbot
- BMC Brook minnow
- CAS Prickly sculpin
- CSU Largemouth sucker
- CH Chinook salmon
- CT Cutthroat trout
- DV Dolly Varden char
- LKC Lake chub
- LSU Longnose sucker
- LT Lake trout
- LW Lake whitefish
- NFC No Fish Captured
- NS Not Sampled
- NSC Northern pike minnow
- PCC Peamouth chub
- RB Rainbow trout
- RSC Redside shiner

Other Symbols and Abbreviations:

- Other Drains
- Reach Boundaries and Reach Numbers
- Highway
- Paved Main Road
- Gravel Road
- Proposed Road
- Railroad
- Contours (20m intervals)
- Proposed outcrop reference
- Proposed outcrop
- Lakes
- Wetlands and Riparian Classification
- Mapsheet Boundary

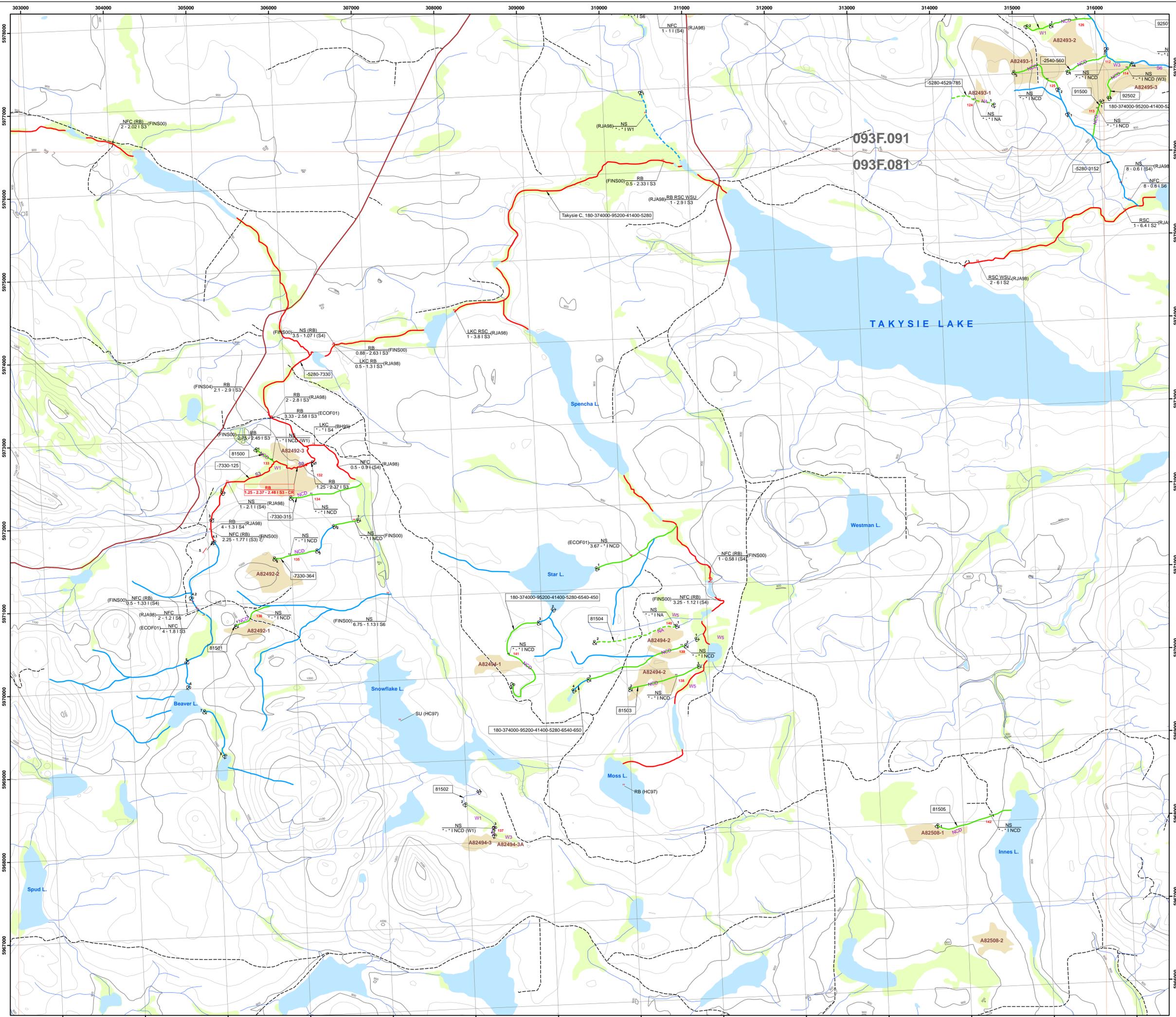
BH Beacon Hills Cons. Ltd. ECOF Ecofor Cons. Ltd. RJA RJA Cons. Ltd.
 Cam Camanish Res. Ltd. FINS FINS Cons. Ltd. SKR SKR Cons. Ltd.
 DGS DeGisi & C. Schell Cons. Ltd. HC Hatfield Cons. Ltd. TRIT Trilon Env. Cons. Ltd.

Coordinates for Site Locations

Area	Stream	Site	UTM (Z.E.N.)
A82492-3	Chicken C. / 180-374000-95200-41400-5280-7330-125	132	10.306289.5972669
A82492-3	Chicken C. / 180-374000-95200-41400-5280-7330-125	132 X-ing	10.306120.5972620
A82492-3	81500	133	10.305821.5972713
A82492-3	180-374000-95200-41400-5280-7330-315	134	10.306282.5972281
A82492-2	180-374000-95200-41400-5280-7330-364	135	10.305986.5971559
A82492-1	81501	136	10.305540.5970915
A82494-3	81502	137	10.308322.5968162
A82494-2	81503	138	10.310608.5969907
A82494-2	180-374000-95200-41400-5280-6540-650	139	10.310687.5970264
A82494-2	81504	140	10.310615.5970509
A82494-1	180-374000-95200-41400-5280-6540-450	141	10.308587.5970247
A82508-1	81505	142	10.314338.5968060

Confirmed Coordinates for End of Fish Use (EFU) and/or Riparian Classification Change

Area	Stream	Point	UTM (Z.E.N.)
A82494-1	Chicken C. / 180-374000-95200-41400-5280-7330-125	EFU	10.305067.5971769



**2007 Stream Assessment
for
Burns Lake Timber Sales Office
Babine Business Area**

Proposed Blocks A81175, A82490 & A82496
Scale 1: 20,000



Map 24 of 25

Projection: UTM (Zone 10)
Datum: NAD 83
Inventory Company: FINS Consulting Ltd.
Field Survey: July 8 - November 18, 2007

Map Produced by FINS Consulting Ltd. **FINS CONSULTING LTD.**

Stream Fish Bearing Status and Riparian Classification:

- Fish-bearing stream
- Suspected fish presence
- Suspected fish absence
- Non fish-bearing stream
- Non-Classified Drainage (NCD)
- No Drainage Present (NA)

Symbols and abbreviation used:

- Fish Species
- Sampling Interval
- RB* (SK)
- 8-5.7 (S2)
- Fish code
- LF (S2)
- Sampling method
- Sampling time
- Sampling length
- Fish Species
- Sampling Interval
- RB* (SK)
- 8-5.7-0.33 (S2) - IM
- Assessment at the Road Crossing
- Previous Sampling Location
- Consultant and Year of Survey
- SKR01
- 00123
- Stream ILP
- 218-541200-70000
- Watershed Code

Site Features:

- Falls
- Dam
- Culvert
- Debris Jam
- Beaver Dam
- Dewatering
- Cascade
- Velocity Barrier
- Disappearing Point
- Height (m)
- Length (m)
- Base Map Anomaly
- Spring

Habitat Value Rating:

- Critical (CR)** Extremely abundant or important fish and/or fish habitat present, habitat critical in sustaining a subsistence, commercial, or recreational fishery, or species at risk.
- Important (IM)** Moderately abundant fish and/or fish habitat present, but deemed to be not critical, contains similar habitat readily available to the stock elsewhere within a particular watershed.
- Marginal (MG)** Sparse fish and/or fish habitat present (i.e. low value habitat or under/over utilized habitat), habitat that marginally contributes to fish production.
- NA** No fish present, regardless of habitat quality.

Fish Species:

BB	Burbot	DV	Dolly Varden char	NS	Not Sampled
BMC	Brook minnow	LKC	Lake chub	NSC	Northern pike minnow
CAS	Prickly sculpin	LSU	Longnose sucker	PCC	Peanut chub
CSU	Largescale sucker	LT	Lake trout	RB	Rainbow trout
CH	Chinook salmon	LW	Lake whitefish	RSC	Redside shiner
CT	Cutthroat trout	NFC	No Fish Captured		

Other Symbols and Abbreviations:

- Other Drainages
- Reach Boundaries and Reach Numbers
- Highway
- Paved Main Road
- Gravel Road
- Proposed Road
- Railroad
- Contours (20m intervals)
- Proposed outcrop reference
- Proposed outcrop
- Lakes
- Wetlands and Riparian Classification
- Mapsheet Boundary

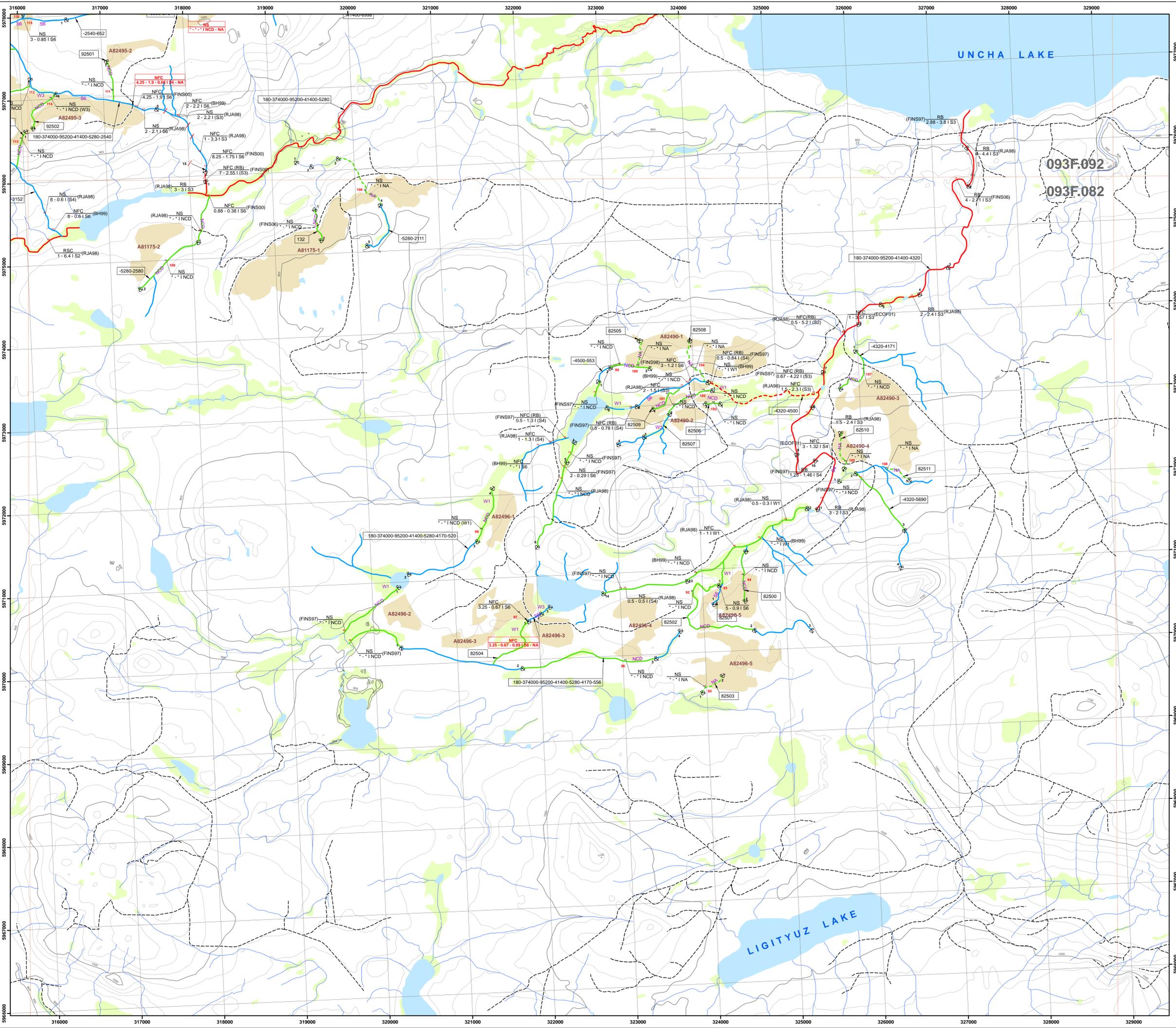
BH Beacon Hills Cons. Ltd. ECOF Ecofor Cons. Ltd. RJA RJA Cons. Ltd.
Cam Camanish Res. Ltd. FINS FINS Cons. Ltd. SKR SKR Cons. Ltd.
DGCS DeGisi & C. Schell Cons. Ltd. HC Hatfield Cons. Ltd. TRIT Trilon Env. Cons. Ltd.

Coordinates for Site Locations

Area	Stream	Site	UTM (Z.E.N.)
A82496-5	82502	92	10.323882.5970727
A82496-5	82501	93	10.324216.5970770
A82496-5	82500	94	10.324505.5970901
A82496-5	82503	95	10.323985.5969575
A82496-4	180-374000-95200-41400-5280-4170-556	96	10.323040.5969930
A82496-3	82504	97	10.321872.5970461
A82496-3	82504	97 X-ing	10.321939.5970497
A82496-1	180-374000-95200-41400-5280-4170-520	98	10.321361.5971588
A82490-1	180-374000-95200-41400-4320-4500-553	99	10.323118.5973506
A82490-1	82505	100	10.323337.5973478
A82490-2	82509	101	10.323680.5973121
A82490-2	82507	102	10.324122.5973149
A82490-2	82506	103	10.324239.5972995
A82490-1	82508	104	10.324028.5973416
A82490-4	82510	105	10.325805.5972218
A82490-3	82511	106	10.326298.5972113
A82490-3	180-374000-95200-41400-4320-4171	107	10.326062.5973321
A81175-1	180-374000-95200-41400-5280-2111	108	10.320126.5975730
A81175-2	180-374000-95200-41400-5280-2580	109	10.317683.5974984

Confirmed Coordinates for End of Fish Use (EFU) and/or Riparian Classification Change

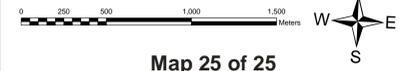
Area	Stream	Point	UTM (Z.E.N.)
A82496-3	82504	S6/W3	10.322021.5970543
A82496-3	82504	W1/S6	10.321866.5970455



2007 Stream Assessment for Burns Lake Timber Sales Office Babine Business Area

Proposed Blocks A80840, A80842, A81500,
A81501 & A82646

Scale 1: 20,000



Map 25 of 25

Projection: UTM (Zone 9)
Datum: NAD 83
Inventory Company: FINS Consulting Ltd.
Field Survey: July 8 - November 18, 2007

Map Produced by FINS Consulting Ltd. **FINS CONSULTING LTD.**

Stream Fish Bearing Status and Riparian Classification:

- Fish-bearing stream
- - - Suspected fish presence
- Suspected fish absence
- Non fish-bearing stream
- Non-Classified Drainage (NCD)
- No Drainage Present (NA)

Symbols and abbreviation used:

Fish Species
RB* (SK) 8-5-7(S2)
RB* (SK) 8-5-7(S2)

Site location with reference and stream information
218-541200-70000

Additional Sampling
Sampling method: LF, TACOM, etc.

Assessment at the Road Crossing
RB* (SK) 8-5-7(S2) - IM

Previous Sampling Location
(SKR01) 218-541200-70000

Site Features:

- F Falls
- X Debris Jam
- C Cascade
- 20' High (m) Length (m)
- Dam
- Beaver Dam
- Velocity Barrier
- Base Map Anomaly
- Covert
- Detouring
- Disappearing Point
- Spring

Habitat Value Rating:

- Critical (CR)** Extremely abundant or important fish and/or fish habitat present, habitat critical in sustaining a subsistence, commercial, or recreational fishery, or species at risk.
- Important (IM)** Moderately abundant fish and/or fish habitat present, but deemed to be not critical; contains similar habitat readily available to the stock elsewhere within a particular watershed.
- Marginal (MG)** Sparse fish and/or fish habitat present (i.e. low value habitat or undrained/unused habitat), habitat that marginally contributes to fish production.
- NA** No fish present, regardless of habitat quality.

Fish Species:

- BB Burbot
- BMC Beaver minnow
- CAS Pecky sculpin
- CSU Longscale sucker
- CH Chinook salmon
- CT Cutthroat trout
- DV Dolly Varden char
- LKC Lake chub
- LSU Longnose sucker
- LT Lake trout
- LW Lake whitefish
- NFC No Fish Captured
- NS Not Sampled
- NSC Northern pike-minnow
- PCC Peamouth chub
- RB Rainbow trout
- RSC Redside shiner

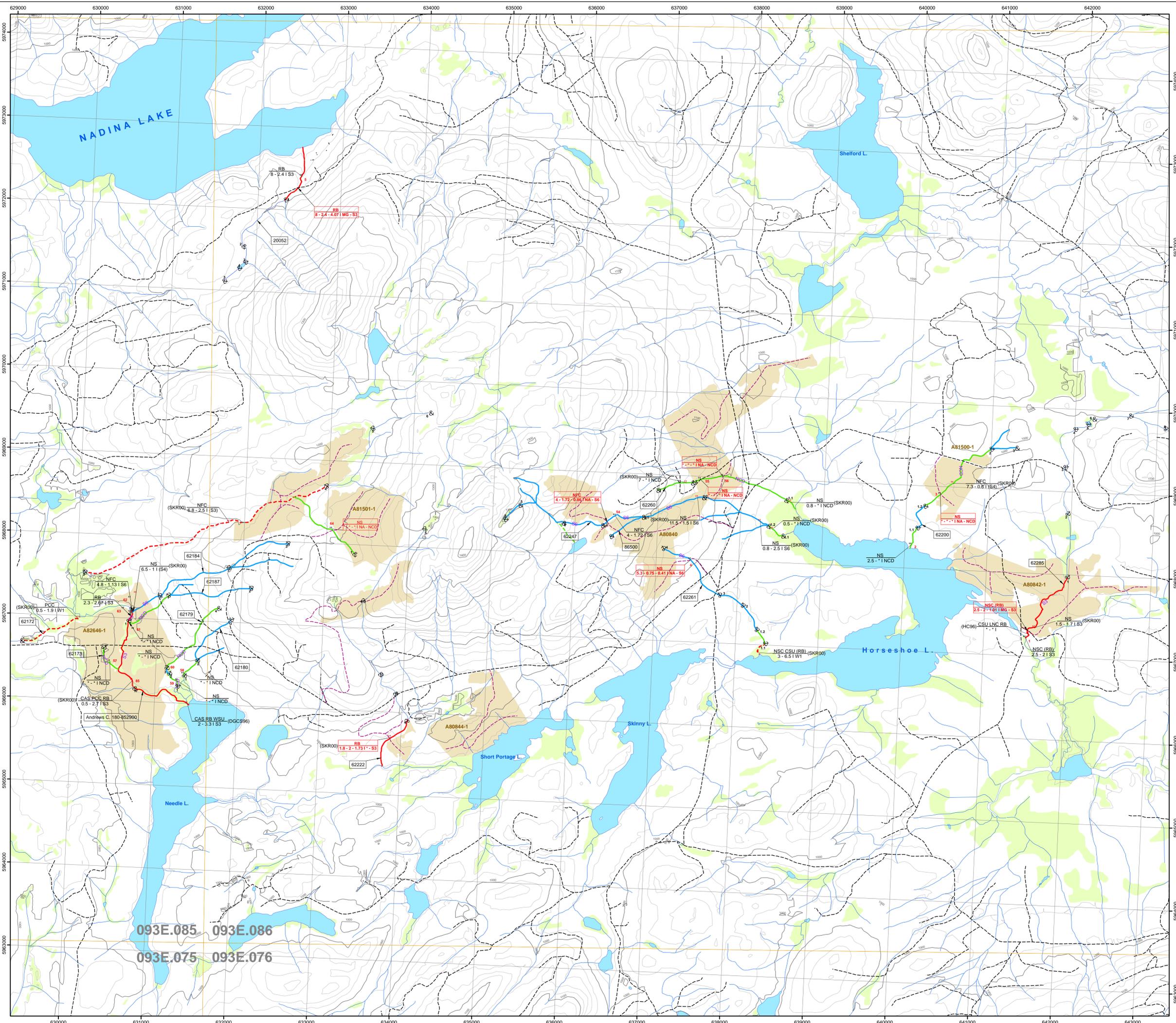
Other Symbols and Abbreviations:

- Other Drainages
- Reach Boundaries and Reach Numbers
- Highway
- Paved Main Road
- Gravel Road
- Proposed Road
- Railroad
- Contours (20m intervals)
- Proposed cutback reference
- Proposed cutback
- Lakes
- Wetlands and Riparian Classification
- Mapsheet Boundary

BH Beacon Hills Cons. Ltd. ECOF Ecofor Cons. Ltd. RJA RJA Cons. Ltd.
Carm Carmanah Res. Ltd. FINS FINS Cons. Ltd. SKR SKR Cons. Ltd.
DGCS DeGisi & C. Schell Cons. Ltd. HC Hatfield Cons. Ltd. TRIT Triton Env. Cons. Ltd.

Coordinates for Site Locations				
Area	Stream	Site	UTM (Z.E.N.)	
A80842	62285	1	9.641507	5967220
A80842	62285	1 X-ing	9.641527	5967308
A81500	62200	2	9.640077	5968280
A81500	62200	3 at X-ing	9.640406	5968904
A80840	62261	4 at X-ing	9.637417	5967991
Tahtsa FSR	27.5 km	20052	5	9.632517.5972410
Tahtsa FSR	27.5 km	20052	5 X-ing	9.632477.5972269
A80840	86500	54	9.636483	5968479
A80840	86500	54 X-ing	9.636386	5968402
A80840	62260	55 at X-ing	9.637496	5968962
A80840	62260	56 at X-ing	9.637765	5969012
A82646	62173	57	9.630440	5966464
A82646	62180	58	9.631338	5966351
A82646	62179	59	9.631267	5966298
A82646	62179	60	9.631138	5966424
A82646	62187	61	9.630654	5966948
A82646	62184	62	9.630696	5967067
A82646	62169	63	9.630679	5967021
A80844	62222	X-ing	9.633878	5965695
A81501	62189	64 at X-ing	9.633060	5968177

Confirmed Coordinates for End of Fish Use (EFU) and/or Riparian Classification Change			
Area	Stream	Point	UTM (Z.E.N.)
A80840	62261	EFU	9.638355.5967009
A81500	62200	NCD/S6	9.640138.5968484
A81500	62200	S6/NCD	9.640219.5968755



093E.085 093E.086
093E.075 093E.076