FCP: 610219H

2000 Operational Stream Inventory for FL A-16823

A Compilation of Data from Operational Fish Stream Identification and Follow-up Sampling for Various Streams in the Babine Lake (BABL), Bulkley River (BULK), Upper Trembleur Lake (UTRE) and Francois Lake (FRAN) High-Level Watershed Groups

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1. Introduction

1.1 Project Scope and Objectives

The purpose of this project was to compile and summarize all fisheries information collected in the Burns Lake area throughout the Babine Forest Products Company (BFP) operating area during operational fish inventories conducted during the 2000 field season. This information is supplemental to the information collected during Reconnaissance Inventories completed in this area and was generally gathered to provide BFP with site-specific fisheries information which was then used to aid in forest development planning and activities. Most of this fisheries information was collected either to fill information gaps and improve fish distribution information for watershed areas sampled during Reconnaissance Inventories, or to confirm Forest Practices Code (FPC) stream classifications proposed during these inventories. All results incorporate any previous field sampling that may have been conducted on the streams.

1.2 Location

All streams are located within the Lakes Forest District in the Babine Forest Products Company operating area. They are all within the Bulkley River (BULK), Francois Lake (FRAN), Babine Lake (BABL) and Upper Trembleur (UTRE) high level watershed groups. The location map (Figure 1) on the following page provides the general location of the study area.

1.2.1 Access

Access to all reaches sampled during these operational inventories was by vehicle from various logging roads and cutblock spur roads.

2. Historical Information

An abundance of fisheries information has been collected and presented under the scope of several reconnaissance and operational inventories completed over the past four years. Results from these inventories have not been summarized in the report. Rather, relevant information from these inventories has been applied in specific situations in this project to provide rationale for fish-bearing status and stream classification. Historical fish information is presented in this report within the stream summary table and hardcopy maps while sources for this information are listed in the bibliography.

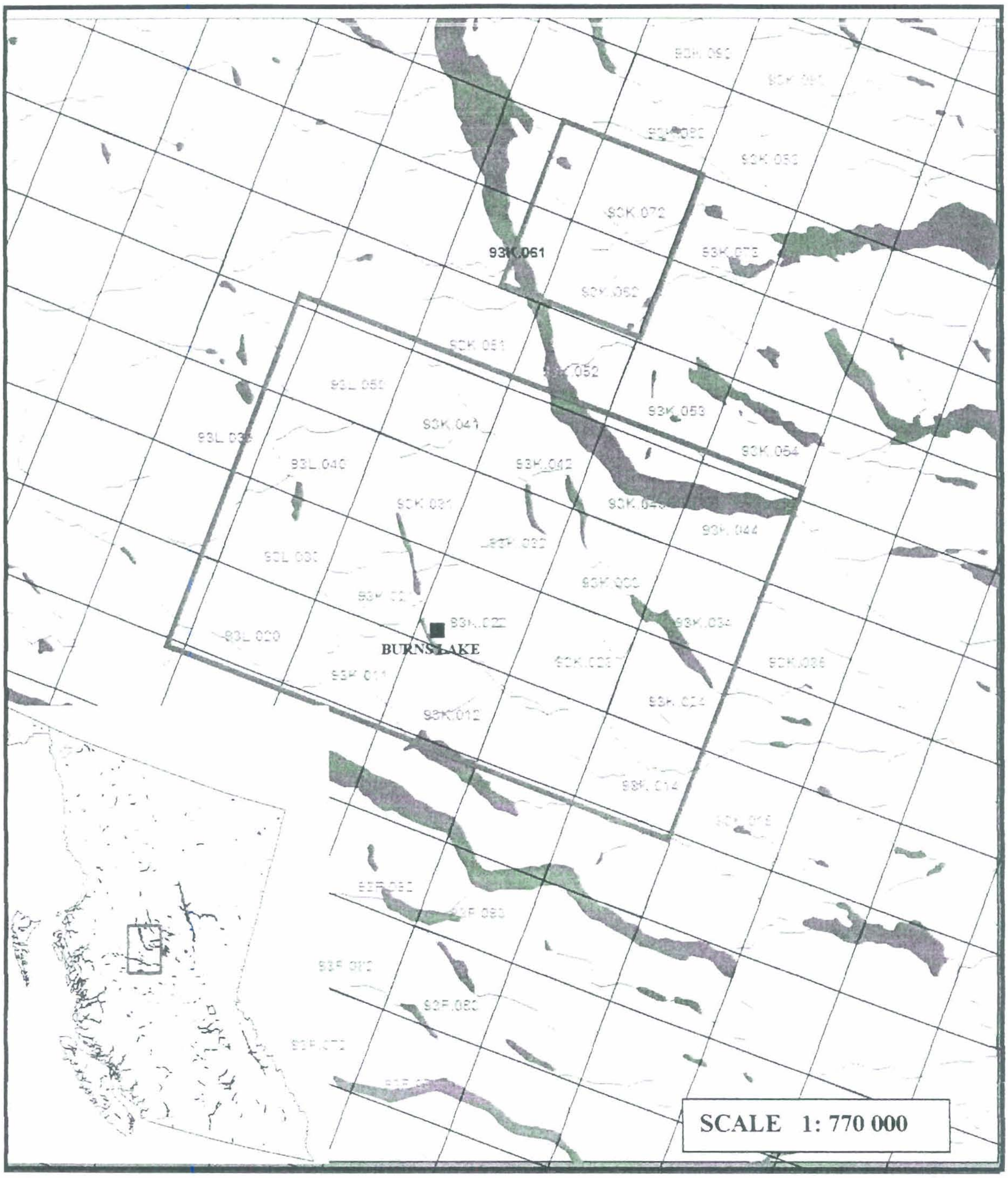

93K.061
93K.072
93K.062
93K.051
93L.050
93K.041
93L.040
93K.042
93K.031
93K.044
93L.030
93K.034
93L.020
BURNS LAKE
93K.011
93K.012
93K.024
93K.014
93K.053
93K.054
SCALE 1: 770 000

Figure 1: Location of Project Area. (Inset map shows the location within the province of British Columbia.)

3. Methods

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

- Forest Practices Code (FPC) of British Columbia Act (1995)
- Fish-stream Identification Guidebook, Second Edition (FSID) (FPC, 1998)
- Riparian Management Area Guidebook (FPC, 1995)

3.1 Field Data Collection

Field data was collected on Site Cards, Fish Collection Forms and Individual Fish Data Cards. These field cards are the current accepted method of collecting data for fish sampling and stream classification. Supporting documentation regarding terminology and use of these field cards is available in "Reconnaissance (1:20,000) Fish and Fish Habitat Inventory: Standards and Procedures (MELP, 1998). Copies of all field cards, arranged by site number, are provided in Appendix I.

3.2 Fish Sampling

Electrofishing and visual observation were the primary methods used for fish sampling throughout the field portion of the project. These methods were supplemented by the use of minnow traps, when logistically feasible, when electrofishing was not effective or potentially harmful to fish (i.e. deep wetland channels, low water temperatures).

3.3 Measurements

Stream channel and wetted widths were determined using a meter stick for smaller streams and a hip chain for streams with channel widths greater than 2.0m. A minimum of six channel width measurements were made along each site at a distance of approximately one channel width apart. Stream depth measurements were determined using a meter stick. Stream gradient measurements were determined using an Abney level along several sections of the site. Site lengths were determined either by hip chain or by ground estimate. Measurements of falls were based on ground estimates or calculated using distance/gradient while cascade heights and lengths were determined using a hip chain and Abney level. Vertical cascade height was calculated using the gradient and slope distance according to the formula:

$$\text{Height (m)} = \sin(\tan^{-1}(\text{gradient } (\%))) \times \text{slope distance (m)}$$

Stream water temperatures were determined using an alcohol thermometer while pH and conductivity measurements were made using Oakton portable meters, which were calibrated weekly using standardized solutions.

3.4 Mapping

Mapping convention for this project follows the standards as recommended in the FSID Guidebook, Second Edition (FPC. 1998). In all, 15 maps have been produced for this project.

All maps are adapted from 1:20 000 TRIM maps provided by BFP. All maps are on 8.5"x11" paper and range in scale from 1:24,631 to 1:45,900. Maps are arranged by map number (as identified in the key map) in Appendix III at the end of this report. A key map has also been included in this appendix, which depicts coverage of the individual maps in relation to the study area, as well as to individual TRIM mapsheet coverage. The maps depict the stream network, base coordinates from the UTM grid and mapping symbols, as recommended in the FSID Guidebook. It should be noted that the UTM grid on the L-series maps has been shifted by BFP so that the area is entirely within UTM zone 10, as opposed to zone 9. Field UTM coordinates collected on the data cards are based on zone 9 coverage. All new site data has been presented on the maps, in addition to any relevant historical data. The fish-bearing status of specific streams is represented on the maps using colour linework. Solid red lines indicate confirmed fish presence while dashed red lines indicate that fish presence has been inferred but is considered likely. Dashed blue lines indicate that fish presence has been inferred but that fish absence is suspected in that reach while solid blue lines indicate confirmed fish absence. Green lines indicate presence of non classified drainage reaches or lack of any kind of drainage at the surveyed site. These are discussed in further detail below in Section 3.7.

Maps have been generally numbered from north to south and from east to west moving south through the project area, as shown on the key map.

3.5 Site Numbering Convention

Site numbers for this project have been assigned in an upstream ascending order on each map for all sampled sites under the scope of this project. Historical sites have their relevant reach summary symbol on the map, but do not include any site numbering reference.

3.6 Stream Referencing

All sampled streams retained their original reference identifier as assigned during past inventories (i.e., gazetted name, watershed code, assigned name or interim locational point (ILP) number) for ease of referencing with prior projects. Streams without an historic reference were assigned a unique identifier.

3.7 NVC (No Visible Channel) Reaches

There were three types of situations in which site assessment in the field revealed no visible channel. They include reaches where no drainage was present, reaches that were not a stream by FPC definition, or wetland-type reaches where there was no defined channel present. The type of NVC reaches was noted in the comments on the site cards and in Table 1. NVC reaches received a "Non Classified Drainage" (NCD) FPC classification.

3.8 Photographs

Representative photographs and any significant features are presented in Appendix II, arranged by site number. They have been reduced in size so that multiple photos can be presented on one page. Each photo is labeled with site number, stream identifier and any relevant comments that aid in interpretation, so that each photo can be easily cross-referenced in the report.

3.9 Field Equipment

All sampling equipment specifications are listed below:

- 2 Smith-Root model 12B P.O.W. Backpack Electrofishers
- 50 Gee-type minnow traps
- 2 Oakton pHTestr2 pH meters (with pH 7 & 10 buffer solutions)
- 2 Oakton TDSTestr3 conductivity meters (with 1413µS/cm solution)
- 2 Abney Levels, alcohol thermometers, Silva compasses
- 2 Pentax Zoom 90WR cameras
- 2 Garmin GPS 12
- assorted other equipment including tight chains, hip chains, dip nets, fishing rods, magnifying lenses, meter sticks
- 2 4X4 trucks equipped with Level 1 First Aid kits and 4 personal First Aid kits, as per WCB requirements
- Dissecting kit

4. Results and Discussion

4.1 Approach Used to Determine Fish-bearing Status

The following section summarizes the information collected and conclusions reached for each sample site within the project area. This has been based both on interpretations and conclusions from the synthesis of data collected during previous inventories and from new information collected as part of this project. Historical information was used only as further supporting evidence in determining fish-bearing status.

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. An overview of the process used in determining fish-bearing status is presented in a flowchart in Figure 2 below.

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 but 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, 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.

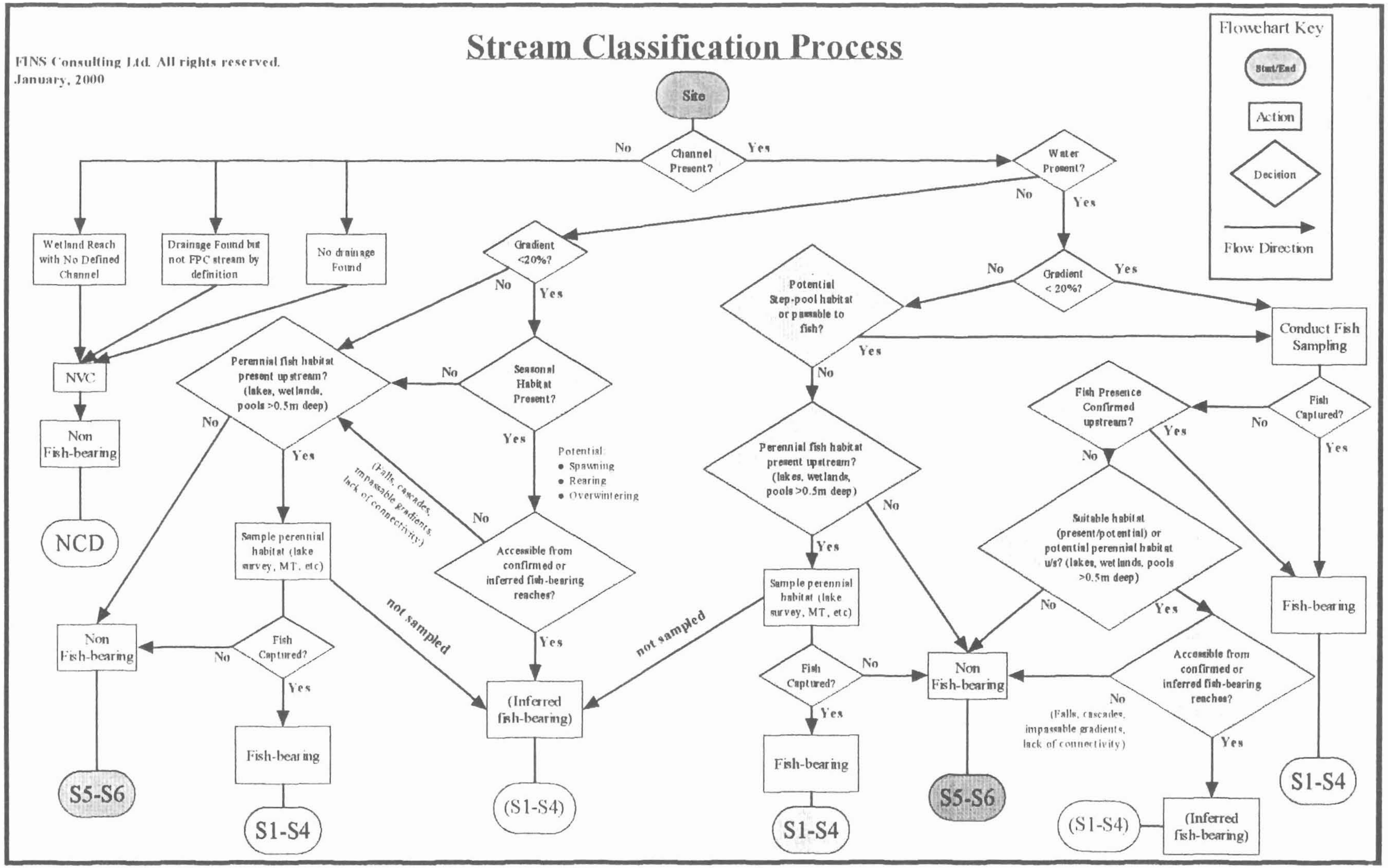
Once a non-fish bearing conclusion has been established for a sampled reach, all reaches located upstream from that location are considered to be non fish-bearing. This is inherent in the process used to determine the non fish-bearing status.

4.2 Summary of Sampling Results

For the purposes of this report, all of the results for this project have been summarized into tabular format (Table 1). Each row summarizes the information collected at the sampling site and includes comments, which aid in the interpretation of the data. In the cases of resampling, reference to the results of the initial or original sampling is made in the comments to provide further rationale for the fish-bearing status of the stream in question. Detailed site-specific information is available in the field cards in Appendix I. The following defines the columns used in this table.

Sub-unit	Area as defined within BFP's operating area. Usually incorporates the name of a major watershed in the area.
Project Map #	The reference number for the maps included in Appendix III in this report
Site #	The reference number for the site assigned for this report.
Stream ID (Name, Alias, ILP, Assigned Name)	Stream identifier
Watershed Code	Hierarchal code to identify a stream, as defined in the Watershed Atlas.
Reach #	The reach in which the sample site is located.
Original Inventory	Auspices under which any original information was collected (1997 1:20k Reconnaissance, etc.)
Original Report	Report name from original inventory from which historical information was compiled.
Previously Sampled (Y/N)	Whether or not the specific stream reach was previously sampled. Prior sampling conducted in proximal reaches is mentioned in the comments, when applicable.
Survey Date	Date of sampling.
RMA Class (S1-S6, (S1)-(S6), NCD)	Assigned FPC classification, based on interpretation of all information. Parentheses indicate inferred and not confirmed classifications.
Average Gradient (%)	Average stream gradient over site length.
Average Channel Width (m)	Average channel width over site length
Fish presence (Y/N/Suspected Presence/Suspected Absence)	Conclusion of fish presence – Y = confirmed fish presence, N = confirmed fish absence, Suspected Presence = habitat present and accessible but fish use not confirmed, Suspected Absence = marginal habitat but fish use not impossible.
Fish Species Codes (inferred)	Fish species captured or inferred (expected) in reach
Fish Barrier Type	Description of barrier to fish (if present)
Fish Barrier Location	Location of barrier

Fish Habitat Value (H, M, L, N)	Subjective rating of habitat value, based on biological judgment. High, Moderate, Low or None.
Capture Method	Description of fish sampling methods. EF = electrofishing, MT = minnow traps
Minnow Traps	Sampling method
#MT/# of hours	Number of minnow traps set and time set (in hours)
EF Length (m)	Distance of stream electrofished in meters.
EF Time (s)	Time electrofished in seconds
EF Settings (V/Hz/µs)	Settings used for the electrofisher (Voltage (V), frequency (Hz), pulse width (microseconds)
Comments	Any further comments as they relate to the site. Usually provides rationale for fish-bearing status conclusions, a brief description of habitat and any other pertinent historical sampling information which supports conclusions.


Stream Classification Process
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January, 2000
Flowchart Key
Start/End
Action
Decision
Flow Direction
Site
Channel Present?
No
Yes
Water Present?
No
Yes
Wetland Reach with No Defined Channel
Drainage Found but not FPC stream by definition
No drainage Found
NVC
Non Fish-bearing
NCD
Gradient <20%?
No
Yes
Seasonal Habitat Present?
No
Yes
Potential:
• Spawning
• Rearing
• Overwintering
Perennial fish habitat present upstream? (lakes, wetlands, pools >0.5m deep)
No
Yes
Sample perennial habitat (lake survey, MT, etc)
Fish Captured?
No
Yes
Non Fish-bearing
S5-S6
Fish-bearing
S1-S4
(Falls, cascades, impassable gradients, lack of connectivity)
No
Accessible from confirmed or inferred fish-bearing reaches?
Yes
not sampled
(Inferred fish-bearing)
(S1-S4)
not sampled
Gradient < 20%?
No
Yes
Potential Step-pool habitat or passable to fish?
Yes
No
Perennial fish habitat present upstream? (lakes, wetlands, pools >0.5m deep)
No
Yes
Sample perennial habitat (lake survey, MT, etc)
Fish Captured?
No
Yes
Fish-bearing
S1-S4
Non Fish-bearing
S5-S6
Conduct Fish Sampling
Fish Captured?
No
Yes
Fish Presence Confirmed upstream?
Yes
No
Suitable habitat (present/potential) or potential perennial habitat u/s? (lakes, wetlands, pools >0.5m deep)
No
Yes
Accessible from confirmed or inferred fish-bearing reaches?
No
(Falls, cascades, impassable gradients, lack of connectivity)
Yes
(Inferred fish-bearing)
(S1-S4)
Fish-bearing
S1-S4

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

Table 1: Operational Stream Inventory Data, 2000.

Sub-unit	Project Map #	Site #	Stream ID (Name, Alias, H.P, Assigned Name)	Watershed Code	Reach #	Original Inventory	Original Report	Previously sampled? (Y/N)	Survey Date	RMA Class (S1-S6, (S1)-(S6), NCD)	Average Gradient (%)	Average Channel Width (m)	FPC Fish presence (Y/N/[illegible])	Fish Species Codes ()=inferred	Fish Barrier Type	Fish Barrier Location	Fish Habitat Value (H, M, L, N)	Capture Method	MT#/ # of hours	EF length (m)	EF time (s)	EF settings (V/Hz/us)	Comments
Fleming	1	1	Fleming C	182-819600-95800	4	1996 1:20K Reconnaissance Inventory	"Fleming Area"	Y	10/17/00	S5	0.0	10.5	N	NFC (LKC LSU)	Extensive beaver dams and wetlands, not salmonid habitat	Throughout drainage	L	MT	MT1/19 MT2/19 MT3/19 MT4/19				Reach was previously sampled in 1996 with NFC - inferred fish bearing at that time but with further sampling recommended to confirm. Marshy reach with almost stagnant and smelly water; not suitable habitat for salmonids.
Fleming	1	2	Fleming C	182-819600-95800	5	1996 1:20K Reconnaissance Inventory	"Fleming Area"	Y	10/17/00	S5	0.0	7.7	N	LSU	Extensive beaver dams and wetlands, not salmonid habitat.	Throughout drainage.	L	MT	MT1/23 MT2/23 MT3/23 MT4/23				Reach was previously sampled in 1996 with NFC - inferred fish bearing at that time but with further sampling recommended to confirm. Marshy reach with almost stagnant and smelly water, not suitable habitat for salmonids
Fleming	1	3	Fleming C	182-819600-95800	5	1996 1:20K Reconnaissance Inventory	"Fleming Area"	Y	10/17/00	S5	0.0	7.3	N	LSU	Extensive beaver dams and wetlands; not salmonid habitat	Throughout drainage.	L	MT	MT1/23 MT2/23 MT3/23 MT4/23				Reach was previously sampled in 1996 with NFC - inferred fish bearing at that time but with further sampling recommended to confirm. Marshy reach with almost stagnant and smelly water; not suitable habitat for salmonids
Fleming	2	4	FUHi	182-819600-95800-48400-1060	2	1996 1:20K Reconnaissance Inventory	"Fleming Area"	Y	10/17/00	(S3)	3.0	2.1	[illegible]	NFC (RB)	None	N/A	M	EF		250	496	500/80.6	Reach was previously sampled in 1996 with NFC and was inferred non fish-bearing. However, resampling confirmed presence of accessible habitat although no fish captured. Overall good RB habitat present, but access to fish from creek FUH likely impeded by the presence of numerous BD's and wetland d/s in reach 1.
Fleming	2	5	FUHi	182-819600-95800-48400-1060	3	1996 1:20K Reconnaissance Inventory	"Fleming Area"	Y	10/17/00	NCD			N	None	Lack of channel	Start of reach	N	NS					Not a stream by FPC definition. Some channelized sections but mainly a gully draw through devil's club. FUHi2 is real mainstem. No fish habitat or potential use.
Fleming	2	6	FUHiA	Not Coded	1	1996 1:20K Reconnaissance Inventory	"Fleming Area"	N	10/17/00	S6	6.8	1.3	N	NFC	Lack of habitat	From mouth	N	EF		100	69	600/80/6	Seasonal trickle over cobbles and fines. Lack of fish in parent stream (NFC in 1996 and 2000) and overall lack of perennial and seasonal habitat here indicates non-fish bearing status.
Fleming	2	7	FUHiB	182-819600-95800-48400-1060-2640	1	1996 1:20K Reconnaissance Inventory	"Fleming Area"	N	10/18/00	NCD	0.6		N	None	Lack of channel	At mouth	N	NS					Many discontinuous, mucky and shallow channels in brushy wetland with no suitable perennial or seasonal fish habitat
Fleming	2	8	FUHiC	Not Coded	1	1996 1:20K Reconnaissance Inventory	"Fleming Area"	N	10/18/00	NCD			N	None	Lack of channel	At mouth	N	NS					Seepage within a gully with no fish habitat available at any time of year
Fleming	2	9	FUHij (Fleming958)	182-819600-95800-48400-2030	2	1996 1:20K Reconnaissance Inventory	"Fleming Area"	Y	07/11/00	S3	2.8	2.4	Y	RB	None	N/A	M	EF		3	8	600/80/6	Permanent stream with some rearing habitat available. RB present up to the culvert
Fleming	2	10	FUHij (Fleming958)	182-819600-95800-48400-2030	2	1996 1:20K Reconnaissance Inventory	"Fleming Area"	Y	07/11/00	(S3)	3.5	2.2	[illegible]	NFC (RB)	2m high culvert drop	Fleming Rd crossing at 95.8km	M	EF		180	313	700/80/6	Permanent stream with some rearing and spawning habitat available. Abundant Gammaridae indicates fish absence, possibly d/t culvert obstruction at Fleming Rd. crossing d/s.

Table 1: Operational Stream Inventory Data, 2000.

Sub-unit	Project Map #	Site #	Stream ID (Name, Alias, ILP, Assigned Name)	Watershed Code	Reach #	Original Inventory	Original Report	Previously sampled? (Y/N)	Survey Date	RMA Class (S1-S6, (S1)-(S6), NCD)	Average Gradient (%)	Average Channel Width (m)	FPC Fish presence (Y/N/ [illegible])	Fish Species Codes ()=inferred	Fish Barrier Type	Fish Barrier Location	Fish Habitat Value (H, M, L, N)	Capture Method	MT#/# of hours	EF length (m)	EF time (s)	EF settings (V/Hz/us)	Comments
Fleming	2	11	FUHiiB	182-819600-95800-48400-2030-1300	1	1996 1:20K Reconnaissance Inventory	"Fleming Area"	N	10/17/00	S6	6.3	0.5	N	NFC	Lack of habitat	From site	N	EF		5	15	700/80/6	Tiny shallow trickle with only marginal channel present. No spawning or overwintering potential. Accessible based on gradient, but no habitat present to support fish. Also low RB use in parent stream.
Fleming	2	12	FUHiiA (Fleming96)	182-819600-95800-48400-2030-2100	2	1996 1:20K Reconnaissance Inventory	"Fleming Area"	Y	07/11/00	S3	2.6	2.3	Y	RB	None	N/A	M	EF		10	38	700/60/8	Reach was previously sampled in 1996 with NFC and was inferred non fish-bearing. However, resampling confirmed presence of RB above and below Fleming Rd. crossing. Moderate RB habitat with some spawning and rearing available with potential overwintering. (3 adult RB captured).
Fleming	2	13	FUHiiA1	Not Coded	1	1996 1:20K Reconnaissance Inventory	"Fleming Area"	N	10/17/00	S6	10.0	0.5	N	NFC	Lack of habitat	From mouth	N	EF		1	10	700/80/6	Moderately steep, tiny trickle with no instream cover at present or at high flow. No fish habitat.
Fleming	2	14	FUHiiC	Not Coded	1	1996 1:20K Reconnaissance Inventory	"Fleming Area"	N	10/17/00	NCD			N	None	Lack of channel	At mouth	N	NS					Drainage without fluvium, continuous banks and channel. No fish habitat.
Fleming	3	15	FUH3	182-819600-95800-48400-3520	1	1996 1:20K Reconnaissance Inventory	"Fleming Area"	N	10/17/00	NCD			N	None	Lack of channel	At mouth	N	NS					No stream or any kind of drainage present at mapped location or in the vicinity.
Fleming	3	16	FUH4	182-819600-95800-48400-4190	1	1996 1:20K Reconnaissance Inventory	"Fleming Area"	N	10/17/00	NCD			N	None	Lack of channel	At mouth	N	NS					Drainage without fluvium, continuous banks and channel. No fish habitat.
Fleming	3	17	FUH4	182-819600-95800-48400-4490	2	1996 1:20K Reconnaissance Inventory	"Fleming Area"	N	10/17/00	S6	4.8	1.0	N	NFC	Lack of channel	At mouth	L	EF		100	213	700/80/6	Small, shallow and marginal FPC stream. Inaccessible to fish from stream FUH d/t lack of channel in reach 1. Lacks suitable perennial habitat to support fish.
Fleming	3	18	FUH5	Not Coded	1	1996 1:20K Reconnaissance Inventory	"Fleming Area"	N	10/17/00	S6	22.0	0.9	N	NFC	80m long X 16m high cascade	At mouth	N	EF		80	179	700/80/6	Small stream and too steep for fish use
Fleming	3	19	FUH5	Not Coded	2	1996 1:20K Reconnaissance Inventory	"Fleming Area"	N	10/17/00	S6	2.8	1.2	N	NFC	80m long X 16m high cascade	At mouth	L	EF		100	211	700/80/6	Small and shallow stream, inaccessible to fish from stream FUH d/t steep gradient in reach 1. Lacks suitable perennial habitat to support fish.
Fleming	3	20	FUHv	Not Coded	1	1996 1:20K Reconnaissance Inventory	"Fleming Area"	Y	10/17/00	S6	11.8	0.5	N	NFC	Lack of habitat	From mouth	N	EF		100	137	700/80/6	Stream previously sampled in 1996 with NFC but inferred fish presence. Tiny trickle over organic fines with 18% gradient at mouth and overall moderate gradient with no instream cover. Lacks perennial habitat.
Fleming	4	21	FULi	182-819600-95800-64500	8	1996 1:20K Reconnaissance Inventory	"Fleming Area"	Y	10/17/00	S6	2.6	1.8	N	LSU	Lack of habitat	From lake d/s	L	EF		500	514	500/80/4	Reach was previously sampled in 1996 with NFC - inferred fish bearing at that time but with further sampling recommended to confirm. Shallow channel with no instream cover and no spawning habitat for RB. Stream lacks local RB population and is inaccessible to RB from stream FUL d/t 6km length of extensive wetlands d/s. No RB captured in 1996 or 2000. Only LSU and CSU documented in 1977 survey of Sargent Lake u/s
Gullwing	5	22	BAB5	Not Coded	1	1996 1:20K Reconnaissance Inventory	"Gullwing Area"	Y	10/18/00	S6	2.8	1.4	N	None	Lack of habitat	From mouth	N	NS					Reach was previously sampled in 1996 with NFC. Ephemeral stream with lack of suitable seasonal habitat.

Table 1: Operational Stream Inventory Data, 2000.

Sub-unit	Project Map #	Site #	Stream ID (Name, Alias, ILP, Assigned Name)	Watershed Code	Reach #	Original Inventory	Original Report	Previously sampled? (Y/N)	Survey Date	RMA Class (S1-S6, (S1)-(S6), NCD)	Average Gradient (%)	Average Channel Width (m)	FPC Fish presence (Y/N/[illegible])	Fish Species Codes ()=inferred	Fish Barrier Type	Fish Barrier Location	Fish Habitat Value (H, M, L, N)	Capture Method	MT#/ # of hours	EF length (m)	EF time (s)	EF settings (V/Hz/us)	Comments
Taltapin	6	23	ILP 43508	Not Coded	2	1998 1:20K Reconnaissance Inventory	"Subdrainages in the Babine Lake Watershed"	N	10/16/00	S6	5.3	0.6	N	NFC	Lack of habitat, discontinuous channel.	1.45km from mouth	N	EF		500	149	300/80/1	Tiny stream with frequent subflow sections, shallow with lack of spawning or overwintering habitat, no fish in parent stream
Taltapin	6	24	ILP 43508	Not Coded	4	1998 1:20K Reconnaissance Inventory	"Subdrainages in the Babine Lake Watershed"	N	10/16/00	S6	2.5	1.1	N	None	See above	See above	N	NS					Seasonal trickle over fines with marginal stream characteristics. No fish habitat and isolated above obstruction in reach 2
Taltapin	6	25	ILP 43510	Not Coded	1	1998 1:20K Reconnaissance Inventory	"Subdrainages in the Babine Lake Watershed"	N	10/16/00	NCD			N	None	Lack of channel	At mouth	N	NS					No stream or any kind of drainage present at mapped location or in the vicinity - forested depression
Taltapin	7	26	Taltapin L. Tributary/ ILP 34554	Not Coded	1	1998 1:20K Reconnaissance Inventory	"Subdrainages in the Babine Lake Watershed"	N	10/16/00	NCD	17.0		N	None	Lack of channel	At mouth	N	NS					No stream or any kind of drainage present at mapped location or in the vicinity - forested gully.
Helene	8	27	Marlin C. trib	480-927700-23300-36300	1	1999 1:20K Reconnaissance Inventory	"Helene/Augier-Pinkut Sub-units Fish Inventory"	N	7/14/00	(S3)	8.3	1.7	[illegible]	NFC (RB)	None	N/A	L	EF		115	231	500/80/6	Surveyed reach 2 of this stream in 1999 with NFC. Moderately steep and fast flowing stream with moderate rearing habitat available to the falls obstruction.
Helene	8	28	Marlin C. trib	480-927700-23300-36300	1.1	1999 1:20K Reconnaissance Inventory	"Helene/Augier-Pinkut Sub-units Fish Inventory"	N	7/14/00	S6	10.3	1.8	N	NFC	7m high falls	Start of reach, 0.73km from mouth	L	EF		110	304	500/80/6	Second sampling event above falls. Habitat isolated and no local RB population present in the system above falls obstruction d/s.
Augier-Pinkut	9	29	LMPIN4B	Not Coded	1	1996 1:20K Reconnaissance Inventory	"Pinkut Area"	N	07/31/00	S6	3.5	1.3	N	NFC	Lack of habitat	From mouth	N	EF		205	149	500/70/4	Unsuitable RB habitat d/t lack of instream cover, overwintering or spawning habitat. Channel filled with organics, deteriorates further 30m u/s from mouth
Augier-Pinkut	10	30	LORDS1	Not Coded	1	1996 1:20K Reconnaissance Inventory	"Pinkut Area"	N	07/12/00	S6	0.8	1.4	N	NFC	Lack of habitat	From site	N	EF		100	149	500/80/6	Unsuitable RB habitat - channel filled with instream vegetation over organic substrate, shallow, water slightly acidic, swampy stream.
Augier-Pinkut	10	31	LMPIN3G	Not Coded	1	1996 1:20K Reconnaissance Inventory	"Pinkut Area"	Y	7/14/00	S6	2.3	0.7	N	NFC	Lack of habitat	From mouth	L	EF		200	239	500/80/6	Sampled this stream in 1996 with NFC. Unsuitable RB habitat, tiny, multichannel trickle over organic substrate, shallow, swampy stream.
Upper Pinkut	11	32	PT1	Not Coded	1	None	None	N	10/18/00	(S6)	3.3	1.3	[illegible]	NFC	Marginal habitat	From site	L	EF		470	462	500/80/4	Small and shallow creek with some rearing habitat available. Access to fish from Pinkut C. impeded by numerous BD's 460m d/s from North Rd. crossing. However, habitable to unmapped tributary, which joins this stream 170m d/s from North Rd. Habitat deteriorates from this point u/s.
Upper Pinkut	11	33	PT1	Not Coded	2	None	None	N	10/18/00	S6	8.0	0.4	N	NFC	Lack of habitat	From site	N	EF		250	107	500/80/4	Tiny and moderately steep seasonal trickle with frequent subflow and unsuitable habitat for RB.
Upper Pinkut	11	34	PT	480-927700 69200	1	None	None	N	08/25/00	S3	1.5	1.5	Y	RB	None	N/A	M	EF		220	184	100/60/1	Stream with good rearing habitat among abundant deep pools/cutbank type cover. Many RB fry indicates possible spawning use.
Upper Pinkut	11	35	PT2	Not Coded	1	None	None	N	10/18/00	S6	9.8	0.7	N	NFC	Lack of habitat	From mouth	N	EF		160	198	700/80/6	Tiny and moderately steep stream with fast flow and no instream cover. Lacks any usable RB habitat at any flow.
Upper Pinkut	11	36	PT3	Not Coded	1	None	None	N	10/18/00	NCD	1.5		N	None	Lack of channel	From site	N	NS					Drainage without fluvium, continuous banks or channel bed. No fish habitat.

Table 1: Operational Stream Inventory Data, 2000.

Sub-unit	Project Map #	Site #	Stream ID (Name, Alias, ILP, Assigned Name)	Watershed Code	Reach #	Original Inventory	Original Report	Previously sampled? (Y/N)	Survey Date	RMA Class (S1-S6, (S1)-(S6), NCD)	Average Gradient (%)	Average Channel Width (m)	FPC Fish presence (Y/N/[illegible])	Fish Species Codes ()=inferred	Fish Barrier Type	Fish Barrier Location	Fish Habitat Value (H, M, L, N)	Capture Method	MTW # of hours	EF length (m)	EF time (s)	EF settings (V/Hz/ms)	Comments
Upper Pinkut	12	37	PT4	Not Coded	1	None	None	N	10/18/00	NCD			N	None	Lack of channel	At mouth	N	NS					Drainage without fluvium, continuous banks or channel bed. No fish habitat.
Upper Pinkut	12	38	PT4	Not Coded	2	None	None	N	10/18/00	S6	7.0	0.9	N	None	Lack of connectivity	From mouth	L	NS					Ephemeral, moderately steep and small stream with no connectivity to Pinkut C. (NVC in reach 1)
Upper Pinkut	12	39	PT4	Not Coded	3	None	None	N	08/25/00	NCD			N	None	Lack of channel	At mouth, site.	N						Not a stream by FPC definition. No fish habitat potential and also inaccessible to fish from Pinkut C. due to lack of channel in reach 1.
Upper Pinkut	12	40	PT5	480-927700-72600	1	None	None	N	10/18/00	(S4)	4.5	1.4	[illegible]	NFC (RB)	None	N/A	M	EF		150	204	700/80/6	Good RB rearing in cascade pool habitat. Fair to moderate spawning in occasional gravel pockets. Fair overwintering - good flow but lacks significant deep pools. Habitat present and easily accessible from Pinkut C.
Upper Pinkut	12	41	PT5	480-927700-72600	2	None	None	N	08/25/00	S6	1.0	0.7	N	NFC	Lack of habitat	From site	N	EF		130	48	400/60/4	Small, shallow and marginal FPC stream, frequently vegetated channel. Poor water quality. No usable fish habitat present.
Upper Pinkut	12	42	PT6	480-927700-76100	1	None	None	N	10/19/00	(S4)	7.0	1.0	[illegible]	NFC (RB)	None	N/A	M	EF		380	418	500/80/4	Small and moderately steep stream with good rearing and potential spawning habitat available; easily accessible from Pinkut C.
Upper Pinkut	12	43	PT6	480-927700-76100	2	None	None	N	10/19/00	S6	0.5	2.5	N	None	Lack of habitat	From site	N	NS					No suitable RB habitat - shallow, multichannels within wetland, lacks instream cover and likely dries out in summer
Upper Pinkut	12	44	PT6	480-927700-76100	3	None	None	N	08/25/00	NCD			N	None	Lack of channel	From site	N	NS					Drainage without fluvium, continuous banks or channel bed. Wet depression in the forest. No fish habitat.
Upper Pinkut	12	45	PT7	Not Coded	1	None	None	N	08/25/00	(S4)	2.5	0.5	[illegible]	NS (RB)	Lack of habitat	47m u/s from road	L	NS					Small stream with some habitat, easily accessible from Pinkut C. up to 47m u/s from Lower Pinkut Rd. At this point, stream flows mostly underground and has no usable/accessible habitat
Upper Pinkut	12	46	PT8	Not Coded	1	None	None	N	08/25/00	NCD			N	None	Lack of channel	From site	N	NS					23m long channel connecting 2 wetlands with no access from Pinkut C.
Palling	13	47	Forgie C.	180-374000-95200-01900-9100	7	1997 1:20K Reconnaissance Inventory	"Forgie Creek"	Y	8/24/00	S3	2.5	2.6	Y	RB	None	N/A	M	EF		745	187	500/60/4	Sampled this reach in 1997 with RB capture but recommended resampling to determine distribution limit for RB. Overall shallow stream with moderate to good rearing habitat present. Stream affected by dewatering in places. RB scarce.
Palling	13	48	Forgie C.	180-374000-95200-01900-9100	8	1997 1:20K Reconnaissance Inventory	"Forgie Creek"	N	8/24/00	S3	5.5	4.2	Y	RB	None	N/A	M	EF		3485	374	400/60/4	Stream affected by dewatering but deep pools more abundant, which provide better survival chance, good rearing habitat and also some spawning and overwintering habitat available. RB common
Palling	13	49	Forgie C.	180-374000-95200-01900-9100	9	1997 1:20K Reconnaissance Inventory	"Forgie Creek"	N	8/24/00	(S3)	3.8	2.1	[illegible]	NFC (RB)	5m high X 15m long cascade	From upper end of site, 8.7km from mouth	L	EF		120	152	500/60/4	Poor habitat, lacks instream cover but accessible to cascade at higher flow
Palling	13	50	Forgie C.	180-374000-95200-01900-9100	11	1997 1:20K Reconnaissance Inventory	"Forgie Creek"	Y	8/24/00	S6	1.8	0.9	N	NFC	See above	See above	L	EF		200	175	500/60/5	Sampled this reach in 1997 with NFC. Usable RB habitat but isolated above cascade d/s in reach 9
Palling	13	51	ILP 31014	Not Coded	1	1997 1:20K Reconnaissance Inventory	"Forgie Creek"	Y	8/25/00	NCD	1.0	1.5	N	None	Lack of channel	At mouth	N	NS					Sampled upper section of this reach in 1997 with NFC. No channel present within first 500m - just brushy wetland. No fluvium, no banks, no fish habitat and no connection from Forgie C. to upper reaches.

Table 1: Operational Stream Inventory Data, 2000.

Sub-unit	Project Map #	Site #	Stream ID (Name, Alias, ILP, Assigned Name)	Watershed Code	Reach #	Original Inventory	Original Report	Previously sampled? (Y/N)	Survey Date	RMA Class (S1-S6, (S1)-(S6), NCD)	Average Gradient (%)	Average Channel Width (m)	FPC Fish presence (Y/N/[illegible])	Fish Species Codes ()=Inferred	Fish Barrier Type	Fish Barrier Location	Fish Habitat Value (H, M, L, N)	Capture Method	MT# # of hours	EF length (m)	EF time (s)	EF settings (V/Hz/us)	Comments
Palling	13	52	ILP 31014	Not Coded	2	1997 1:20K Reconnaissance Inventory	"Forgie Creek"	N	8/25/00	S6	2.3	1.5	N	None	Lack of connectivity	From mouth	N	NS					Seasonal stream above wetland with no connection to Forgie C
Palling	13	53	ILP 31015	Not Coded	1	1997 1:20K Reconnaissance Inventory	"Forgie Creek"	Y	8/25/00	NCD			N	None	Lack of channel	From site	N	NS					Sampled this stream in 1997. Drainage without fluvium, continuous banks and channel. Wet depression in the forest. No fish habitat
Palling	13	54	ILP31016	Not Coded	2	1997 1:20K Reconnaissance Inventory	"Forgie Creek"	N	8/25/00	S6	3.9	0.9	N	None	Lack of connectivity	From mouth of ILP 31014	N	NS					Small stream with very little of seasonal habitat, but isolated from Forgie C. d/t lack of channel in reach 1 of ILP 31014
Palling	13	55	ILP 31019	Not Coded	1	1997 1:20K Reconnaissance Inventory	"Forgie Creek"	Y	8/24/00	(S4)	2.3	0.8	[illegible]	NFC (RB)	Lack of channel/habitat in wetland	At end of site, 2.1km u/s from mouth	L	EF		180	172	600/60/4	Sampled reach 3 in 1997 with NFC. Small and seasonal stream with good rearing habitat at higher flow; easily accessible to fish from Forgie C. up to the wetland in reach 4
Palling	13	56	ILP 31021	Not Coded	1	1997 1:20K Reconnaissance Inventory	"Forgie Creek"	N	8/24/00	S6	2.5	0.3	N	None	Lack of habitat, isolated above barrier in Forgie C	See site 49	N	NS					Seasonal and tiny trickle, with no fish habitat, isolated above cascade barrier in Forgie C
Broman	14	57	TAM2	460-951600-53800	3	1996 1:20K Reconnaissance Inventory	"Endako Area"	N	07/11/00	S3	5.0	2.0	Y	RB	None	N/A	M	EF		60	74	700/80/6	Good RB rearing in cascade pool habitat. No significant spawning, but some gravel pockets present. Unlikely overwintering habitat.
Broman	14	58	TAM2	460-951600-53800	4	1996 1:20K Reconnaissance Inventory	"Endako Area"	N	07/11/00	S4	3.5	1.2	Y	RB	None	N/A	M	EF		80	104	800/80/6	Fair RB rearing but generally quite shallow. Good spawning substrate, likely used by RB. No overwintering habitat. RB not abundant.
Broman	14	59	TAM2 (Stream2)	460-951600-53800	5	1996 1:20K Reconnaissance Inventory	"Endako Area"	N	07/11/00	S6	6.3	0.5	N	NFC	Lack of habitat	From site	N	EF		80	196	700/80/6	Tiny, shallow incised trickle at moderate gradient, much of channel exposed in cutblock. No suitable RB habitat present
Broman	14	60	TAM2A	Not Coded	2	1996 1:20K Reconnaissance Inventory	"Endako Area"	Y	07/11/00	S6	3.5	0.6	N	NFC	Lack of habitat	From site	L	EF		200	178	700/80/6	Stream sampled in 1998 with NFC - no habitat at that time. At present, very poor RB habitat. Flow is very shallow over fines and organics, as well as gravels deposited d/s from road. Most flow from ditch collection water - historically much less flow than at present due to road construction/ ditch water input.
Broman	14	61	TAM2B (Stream1)	Not Coded	1	1996 1:20K Reconnaissance Inventory	"Endako Area"	N	07/11/00	(S6)	1.3	1.4	[illegible]	NFC	None, but only marginal habitat	From site	L	EF		174	238	700/80/6	Poor overall RB habitat - some deep pools but flows generally over fines. No spawning or overwintering habitat. Unlikely utilized by RB, but accessible from d/s reaches. Actual mainstem of TAM2.
Maxan	15	62		460-921300-90900	2	1998 1:20K Reconnaissance Inventory	"Subdrainages in the Bulkley River Watershed"	N	10/13/00	(S3)	4.8	1.7	[illegible]	NFC (RB)	None	N/A	L	EF		100	237	700/80/6	Sampled proximal reaches in 1997. Caught RB in reach 1 d/s, but NVC in reach 5. Channel totally dry, large cobble substrate. No significant RB habitat, but accessible from d/s reaches at higher flow. Unlikely fish use, but easily accessible when watered.
Allin Creek	15	63	32km	Not Coded		1998 1:20K Reconnaissance Inventory	"Subdrainages in the Nechako River Watershed"	N	10/13/00	NCD			N	None	Lack of channel	From site	N	NS					Drainage lacks fluvium, continuous banks and channel bed. Not a creek by FPC definition. No fish habitat present, no sediment deposit possible in d/s reaches due to lack of flow

Table 1: Operational Stream Inventory Data, 2000.

Sub-unit	Project Map #	Site #	Stream ID (Name, Atlas, ILP, Assigned Name)	Watershed Code	Reach #	Original Inventory	Original Report	Previously sampled? (Y/N)	Survey Date	RMA Class (S1-S6, (S1)-(S6), NCD)	Average Gradient (%)	Average Channel Width (m)	FPC Fish presence (Y/N/Suspected/Not Suspected)	Fish Species Codes ()=Inferred	Fish Barrier Type	Fish Barrier Location	Fish Habitat Value (H, M, L, N)	Capture Method	MT# # of hours	EF length (m)	EF time (s)	EF settings (V/Hz/us)	Comments
Allin Creek	15	64	36.9km	Not Coded		1998 1 20K Reconnaissance Inventory	"Subdrainages in the Nechako River Watershed"	N	10/13/00	S6	2.5	0.9	N	NFC	Lack of habitat	From site	N	EF		100	176	600/80/6	Tiny, shallow trickle over fines and organics, and some cobbles d/s from road. Steep gradient at mouth with Allin Creek blocks fish access to this reach. No suitable RB habitat present
Allin Creek	15	65	ILP 20063	180-374000-95200-66500-6150	2	1998 1 20K Reconnaissance Inventory	"Subdrainages in the Nechako River Watershed"	N	10/13/00	S6	3.3	1.7	N	NFC	18m high X 45m long cascade. documented in 1998 Inventory	87m u/s from mouth	L	EF		100	113	700/80/6	Reach 1 of this stream sampled in 1998 with NFC and cascade barrier documented. Very poor habitat, isolated above cascade obstruction near mouth with Allin Creek. No perennial habitat present, no fish use.

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5. List of Appendices

Appendix I:	Copies of Field Cards
Appendix II:	Photographs
Appendix III:	Hardcopy Maps

Appendix I: Copies of Field Cards (Arranged by Site)

SITE CARD

STREAM NAME (gaz): Fleming C (local):

WATERSHED CODE: [illegible]

ILP MAP #: ILP #: NID MAP #: 93K.012 NID #:

REACH #: 4 - SITE #: 1 FIELD UTM: 10 | 352849 | 6005994 | GPS SITE LG: 205 | SE ACCESS: FT

DATE: 2000 | 11 | 17 TIME: 1400 AGENCY: C016 CREW: MJ, MJ FISH FORM: Y [✓ N]

CHANNEL	mthd							GRADIENT %	
CHANNEL WIDTH (m)	GE	7	15	12	10	11	8	AL	
WETTED WIDTH (m)	GE	7	15	12	10	11	8	0	0
RES. POOL DEPTH (m)	NA								

Wb Dp (m): 2 2 2 GE STAGE: L [✓ M] H No Vis. Ch. ☐ Dry/Int. ☐ DW ☐ Tribs. ☐

EMS		REQ. #	
TEMP	5 °C	COND.	80 μS/cm
pH	6.9	TURB.	T [✓ M] L C

FLO SNS: None

BED MATERIAL Dominant: F Subdom: N

D95 (cm): 0.01 D (cm): 0.01 Morph: LC

COVER Total: T

Type	SWD	LWD	B	U	DP	OV	IV
AMT	T	T	N	S	T	T	D
LOC							

CROWN CLOSURE: 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] 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

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)	mthd	PHOTO	COMMENTS	UTM
						R___ F___		
						R___ F___		
						R___ F___		
						R___ F___		

Fleming C ☐ LAKE ☑ STREAM ☐ WETLAND

[illegible]

☑ Y ☐ N

OF 2000 4 -

2000 | 11 | 17 2000 | 11 | 18 C016 CREW: MJ, MJ ☐ RE-SAMPLE

SITE / METHOD

SITE #	NID MAP #	NID #			UTM	MT/ENC #	STREAM CONDITION			COMMENTS
1	93K.012					MT 1	1	80	C	

FISH SUMMARY

SITE	MTD #	PASS	SPECIES			TOTAL #	MIN LENGTH	MAX LENGTH	AGE	COMMENTS
1	MT 1	1	NFC			0				
1	MT 2	1	NFC			0				
1	MT 3	1	NFC			0				
1	MT 4	1	NFC			0				

NET / TRAP SPECIFICATIONS

GEAR SPECIFICATIONS

C													
	1	MT 1	1	10 11 17	1400	10 11 18	0900	AT		2.0			
	1	MT 2	1	10 11 17	1400	10 11 18	0900	AT		1.0			
	1	MT 3	1	10 11 17	1400	10 11 18	0900	AT		1.5			
	1	MT 4	1	10 11 17	1400	10 11 18	0900	AT		1.0			

ELECTROFISHER SPECIFICATIONS

COMMENTS

HABITAT QUALITY

See prev card

FSZ

PHOTO DOCUMENTATION

				COMMENTS
0 5	22	51	X	1500

WILDLIFE

GROUP	WILDLIFE OBSERVATIONS	GROUP	WILDLIFE OBSERVATIONS

COMMENTS

C
site ~ 3 km d/s from
site 2 = ~ 500 m d/s from
FUL mouth

C

FISH COLLECTION FORM

☐ LAKE ☒ STREAM ☐ WETLAND

[illegible]

☑ Y ☐ N

5 -

[illegible] | C016 | MJ MJ | ☐ RE-SAMPLE

SITE / METHOD

	93K.062			[illegible]	5	80	[illegible]

FISH SUMMARY

	[illegible]		NFC	0		0				
	[illegible]		LSU	J		13	51	[illegible]	R	
	[illegible]		LSU	J		5	65	68	R	
	[illegible]		LSU	J		1	64	64	R	

SITE CARD

STREAM NAME (gaz) FLEMING C (local)

WATERSHED CODE [illegible]

ILP MAP # ILP # NID MAP # [illegible] NID #

REACH # 5 - SITE # 2 FIELD UTM 10 [illegible] SITE LG [illegible] ACCESS [illegible]

DATE [illegible] TIME 1105 AGENCY C016 CREW MJ [illegible] FISH FORM Y N

CHANNEL	mthd								GRADIENT %
CHANNEL WIDTH (m)	[illegible]								[illegible]
WETTED WIDTH (m)									
RES. POOL DEPTH (m)	[illegible]	7							

W. Dp (m) [illegible] STAGE L M H No Vis. Ch. DW Dry/Int. Tribs.

EMS TEMP [illegible] °C REQ. # COND [illegible] μS/cm pH [illegible] TURB T M L C

FLD SNS [illegible]

BED MATERIAL Dominant [illegible] Subdom. [illegible] D95 (cm) [illegible] D (cm) [illegible] Morph. [illegible]

COVER Total

Type	SWD	LWD	B	U	DP	OV	IV
AMT							
LOC							

CROWN CLOSURE 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 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

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

C	NID MAP #	NID #	TYPE	HT / LG (m)	mthd	PHOTO	COMMENTS	UTM
						R F		

SITE CARD

STREAM NAME (gaz) FLEMING C (local)

WATERSHED CODE [illegible]

ILP MAP # ILP # NID MAP # 93K.062 NID #

REACH # 5 - SITE # 3 FIELD UTM 10 332619 606010515 SITE LG 200 GF ACCESS F

DATE 2000 10 17 TIME 1200 AGENCY C016 CREW MJ MJ FISH FORM Y x N

CHANNEL	mthd								GRADIENT %	
CHANNEL WIDTH (m)	6c	5	12	10	6	4	7		A1	
WETTED WIDTH (m)	6E	5	12	10	6	4	7		0	0
RES. POOL DEPTH (m)	4c									

W. Dp (m) 1.0 2.0 2.0 3 Gc STAGE L [✓ M] H No Vis. Ch. DW Dry/Int. Tribs.

EMS TEMP 5 °C 73 REQ. # COND 80 μS/cm 54 pH 6.9 P2 TURB T M L [✓ C] 56

FLD SNS None

BED MATERIAL Dominant F Subdom. NR D95 (cm) 0.01 D (cm) 0.01 Morph. LC

COVER Total T

Type	SWD	LWD	B	U	DP	OV	IV
AMT	T	T	N	S	T	T	D
LOC	P	P	P	P	P	P	P

CROWN CLOSURE 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] 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

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)	mthd	PHOTO	COMMENTS	UTM
						R___ F___		
						R___ F___		
						R___ F___		
						R___ F___		

Fleming C

☐ LAKE ☒ STREAM ☐ WETLAND

[illegible]

☒ Y ☐ N

OP 72000

5 -

2000 10 17 | [illegible] | C016 | MJ MJ | ☐ RE-SAMPLE

SITE / METHOD

									COMMENTS
3	93K.062				MT	5	80	M	

FISH SUMMARY

										COMMENTS
3	MT 1		NFC							
3	MT 2		NFC							
3	MT 3		NFC							
3	MT 4		LSU			6	52		R	

NET / TRAP SPECIFICATIONS

GEAR SPECIFICATIONS

C														
	3	MT 1	1	1 0 1 7	1200	1 0 1 8	10:45	MT		2.0		P	
	3	MT 2	1	1 0 1 7	1200	1 0 1 8	10:40	↓		1.5		B	
	3	MT 3	1	1 0 1 7	1200	1 0 1 8	10:45			1.5		B	
	3	MT 4	1	1 0 1 7	1200	1 0 1 8	10:25			1.0		B	

ELECTROFISHER SPECIFICATIONS

NTS

52 57, 57, 64, 75, 90 1511 MT 4

HABITAT QUALITY

See previ card

FSZ ( )

PHOTO DOCUMENTATION

				COMMENTS
OPS	20	ST	X	1156
OPS	21	ST	U.S	1157

WILDLIFE

GROUP	WILDLIFE OBSERVATIONS	GROUP	WILDLIFE OBSERVATIONS

COMMENTS

C site ~ 1 km u/s
from site 2

C

HABITAT QUALITY

[illegible]

FSZ ( )

PHOTO DOCUMENTATION

				COMMENTS
[illegible]	19	[illegible]	D	1116

WILDLIFE

GROUP	WILDLIFE OBSERVATIONS	GROUP	WILDLIFE OBSERVATIONS

COMMENTS

C Site = see 1511

Water [illegible]

C

Rev. Apr. 1998

AP SP

S

GEAR SPECIFICATIONS

C														
	[illegible]	MT 1	1	[illegible]	[illegible]	1 0 1 8	[illegible]	[illegible]		[illegible]		[illegible]	
	[illegible]	[illegible]	1	[illegible]	[illegible]	1 0 1 8	[illegible]			[illegible]		[illegible]	
	[illegible]	[illegible]	1	[illegible]	[illegible]	1 0 1 8	[illegible]			[illegible]		[illegible]	
	[illegible]	[illegible]	1	[illegible]	[illegible]	1 0 1 8	1027					[illegible]	

ELECTROFISHER SPECIFICATIONS

COMMENTS

MT 4 - Lcn 64
MT 2 - Lcn 68, 65, 65, 67, 68
MT 1 - Lcn 53, 65, 147, [illegible]

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№ 36283

CARD
OF

SITE CARD

STREAM NAME (gaz):
(local): [illegible]
WATERSHED CODE: [illegible]
ILP MAP #:
ILP #:
NID MAP #: 093K.072
NID #:
REACH #: 1 -
SITE #: 4
FIELD UTM: 10 [illegible]
SITE LG: [illegible]
ACCESS: [illegible]
DATE: [illegible]
TIME: 1615
AGENCY: C011
CREW: [illegible]
FISH FORM: Y☑ N☐

CHANNEL	mthd								GRADIENT %	
CHANNEL WIDTH (m)	[illegible]	2.9	2.4	1.?	[illegible]	[illegible]	[illegible]		12	
WETTED WIDTH (m)	[illegible]	1.4	1.0	1.6	2.1	2.0	1.7		[illegible]	[illegible]
RES. POOL DEPTH (m)	[illegible]	.21	.26	.34	.19	.24	.30		[illegible]	[illegible]

W_b Dp (m): [illegible]
STAGE: L [✓ M] H
No Vis. Ch. ☐ Dry/Int. ☐ DW ☐ Tribs. ☐

EMS:
REQ #:
TEMP: 11.5 °C
COND: 160 µS/cm
pH: [illegible]
TURB: T M L [✓ C]
FLO SNS: N
BED MATERIAL: Dominant: C Subdom: G
D95 (cm): 20 D (cm): 5 Morph: RP

COVER Total: M

Type	SWD	LWD	B	U	DP	OV	IV
AMT	T	T	N	T	D	S	N
LOC	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	

CROWN CLOSURE: 0 (0) 1 (1-20%) [✓ 2] (21-40%) 3 (41-70%) 4 (71-90%) 5 (> 90%)

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: [✓ 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

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

WATER
MORPHOLOGY
COVER

FISH COLLECTION FORM

(local): [illegible]
☐ LAKE ☐ STREAM ☐ WETLAND
[illegible]
☐Y ☐N
1 -
C011
☐ RE-SAMPLE

SITE / METHOD

SITE	NID MAP #	NID #	UTM					STREAM CONDITION		COMMENTS
4	[illegible]		10 [illegible]					[illegible]	[illegible]	

FISH SUMMARY

SITE			SPECIES							COMMENTS
4	[illegible]		NFC			0				

SITE CARD

STREAM NAME (gaz):
(local): FUHI
WATERSHED CODE: [illegible]
ILP MAP #:
ILP #:
NID MAP #: 93K.072
NID #:
REACH #: 3 -
SITE #: 5
FIELD UTM: 10 330022 6068878 GPS
SITE LG: 170 166
ACCESS: FT
DATE: 2000 1018
TIME: 0940
AGENCY: C011
CREW: SR MG
FISH FORM: Y☐ N☒

CHANNEL	mthd								GRADIENT %	
CHANNEL WIDTH (m)										
WETTED WIDTH (m)										
RES. POOL DEPTH (m)										

STAGE: L M [✓ H]
No Vis. Ch. ☑ Dry/Int. ☐ DW ☐ Tribs. ☐

EMS:
REQ #:
TEMP: °C
COND: µS/cm
pH:
TURB: T M L C
FLO SNS:
BED MATERIAL: Dominant: Subdom:
D95 (cm): D (cm): Morph:

COVER Total:

Type	SWD	LWD	B	U	DP	OV	IV
AMT							
LOC							

CROWN CLOSURE: 0 (0) 1 (1-20%) 2 (21-40%) 3 (41-70%) 4 (71-90%) 5 (> 90%)

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: 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)	mthd	PHOTO	COMMENTS	UTM
						R___ F___		
						R___ F___		

WATER
MORPHOLOGY
COVER

SITE CARD

STREAM NAME (gaz):
(local): [illegible]UHI A
WATERSHED CODE:
ILP MAP #:
ILP #:
NID MAP #: [illegible]
NID #:
REACH #: 1 -
SITE #: 6
FIELD UTM: 10 [illegible]
SITE LG: [illegible]
ACCESS: [illegible]
DATE: [illegible]
TIME: 1655
AGENCY: C011
CREW: [illegible]
FISH FORM: Y☑ N☐

CHANNEL	mthd								GRADIENT %	
CHANNEL WIDTH (m)	MC	1.4	1.0	1.6	0.9	1.1	1.7		12	
WETTED WIDTH (m)	MC	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
RES. POOL DEPTH (m)	.49	.04	.07	.05					[illegible]	[illegible]

W_b Dp (m): [illegible]
STAGE: [✓ L] M H
No Vis. Ch. ☐ Dry/Int. ☑ DW ☐ Tribs. ☐

EMS:
REQ #:
TEMP: 4.0 °C
COND: 170 µS/cm
pH: 6.6
TURB: T M L [✓ C]
FLO SNS: N
BED MATERIAL: Dominant: C Subdom: [illegible]
D95 (cm): 75 D (cm): 4 Morph: CP

COVER Total: T

Type	SWD	LWD	B	U	DP	OV	IV
AMT	N	[illegible]	[illegible]	[illegible]	[illegible]	S	N
LOC					[illegible]	[illegible]	

CROWN CLOSURE: 0 (0) 1 (1-20%) 2 (21-40%) [✓ 3] (41-70%) 4 (71-90%) 5 (> 90%)

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: 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)	mthd	PHOTO	COMMENTS	UTM
						R___ F___		
						R___ F___		
						R___ F___		
						R___ F___		

WATER
MORPHOLOGY
COVER

HABITAT QUALITY

[illegible]

FSZ ☐

PHOTO DOCUMENTATION

ROLL #	FRAME #	FOOT LG	DIR	COMMENTS
31	20	ST	U	FRI

WILDLIFE

GROUP	WILDLIFE OBSERVATIONS	GROUP	WILDLIFE OBSERVATIONS

COMMENTS

C Site: [illegible] mouth

Creek is mid-size, defined [illegible] though cobbles, [illegible], no fish [illegible] Seasonal [illegible] for [illegible]

C NAC - SG !

= [illegible]

- also observed this creek site to be @ Fleming road - no fish habitat, shallow [illegible]

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HABITAT QUALITY

[illegible] in channel

FS2 ☐

PHOTO DOCUMENTATION

ROLL #	FRAME #	FOOT LG	DIR	COMMENTS
31	21	ST	U	Set only small pockets of H_2O, discontinuity

WILDLIFE

GROUP	WILDLIFE OBSERVATIONS	GROUP	WILDLIFE OBSERVATIONS

COMMENTS

C site: from mouth - mapped [illegible] - just a small trib to FUH2 into wetland/sand area or black walked this down from Fleming - some channelized sections, but mostly a gully draw through devil's club with no continuous scoured channel bed - no fish habitat

C no passage. Channelized u/s from Fleming road, but no water, seasonal for fish use

NCD

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GEAR SPECIFICATIONS

ELECTROFISHER SPECIFICATIONS

4	[illegible]		[illegible]	[illegible]	49	7.0	1.9	C	500	[illegible]	6	[illegible]	[illegible]

COMMENTS

Good rig habs - [illegible]

HABITAT QUALITY

[illegible]

FSZ ☐

PHOTO DOCUMENTATION

ROLL #	FRAME #	FOOT LG	DIR	COMMENTS
31	18	ST	D	[illegible]
31	19	ST	U	[illegible]

WILDLIFE

GROUP	WILDLIFE OBSERVATIONS	GROUP	WILDLIFE OBSERVATIONS

COMMENTS

C [illegible]

1 [illegible]

C Stream still provides [illegible] habitat [illegible]

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FISH COLLECTION FORM

(local) Fu[illegible] H ☐ LAKE ☐ STREAM ☐ WETLAND

[✓ Y] ☐ N

1 -

[illegible] C016 SR MG ☐ RE-SAMPLE

SITE / METHOD

6	95[illegible]		10 [illegible] GPS	EF 1	[illegible]	[illegible]	[illegible]	

FISH SUMMARY

										COMMENTS
6	EF 1	1	NFC			0				

SITE CARD

STREAM NAME (gaz) | (local) Fu[illegible] B

WATERSHED CODE 167 181 [illegible]

TRIM MAP # | TLP # | NID MAP # 9[illegible].072 | NID #

REACH # 1 - | SITE # 7 | FIELD UTM 10 [illegible] GPS | SITE LG [illegible] | ACCESS [illegible]

DATE 2000 08 18 | TIME 1 0 0 0 | AGENCY C016 | CREW SR MG | FISH FORM [✓ Y] N ☐

CHANNEL	mthd								GRADIENT %	
CHANNEL WIDTH (m)		NA							AL	
WETTED WIDTH (m)									0.5	1
RES. POOL DEPTH (m)									0.5	0.5

Wb Dp (m) [illegible] MG | STAGE L [✓ M] H | No Vis. Ch. ☐ Dry/Int. ☐ DW ☐ Tribs. ☐

WATER

EMS | REQ #

TEMP °C | COND µS/cm

pH | TURB T M L [✓ C]

MORPHOLOGY

FLD SNS N

BED MATERIAL Dominant F | Subdom N[illegible]

D95 (cm) .01 | D (cm) .01 | 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 SI ST

ISLANDS N 0 I [✓ F] S AN

BARS [✓ N] SIDE DIAG MID SPAN BR

COUPLING [✓ DC] PC CO

CONFINEMENT EN CO FC OC [✓ UN] N/A

COVER Total N

Type	SWD	LWD	B	U	DP	OV	IV
AMT							
LOC							

CROWN CLOSURE: 0 (0) 1 (1-20%) 2 (21-40%) 3 (41-70%) 4 (71-90%) 5 (> 90%)

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

LB SHP U V [✓ S] 0 | RB SHP U V [✓ S] 0

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]

FEATURES

C	NID MAP #	NID #	TYPE	HT / LG (m)	mthd	PHOTO	COMMENTS	UTM
						R___ F___		

SITE CARD

STREAM NAME (gaz) | (local) Fulli C

WATERSHED CODE

TRIM MAP # | TLP # | NID MAP # 9[illegible]012 | NID #

REACH # 1 - | SITE # 8 | FIELD UTM | SITE LG 150 GE | ACCESS TT

DATE 2000 08 18 | TIME 0900 | AGENCY C016 | CREW SR MG | FISH FORM Y N/A

CHANNEL	mthd								GRADIENT %	
CHANNEL WIDTH (m)										
WETTED WIDTH (m)										
[illegible] TH (m)										

[illegible] | STAGE L M [✓ H] | No Vis. Ch. ☒ Dry/Int. ☐ DW ☐ Tribs. ☐

WATER

EMS | REQ #

TEMP °C | COND µS/cm

pH | TURB T M L C

MORPHOLOGY

FLD SNS

BED MATERIAL Dominant | Subdom

D95 (cm) | D (cm) | Morph

DISTURBANCE INDICATORS: 01 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 0 I F S AN

BARS N SIDE DIAG MID SPAN BR

COUPLING DC PC CO

CONFINEMENT EN CO FC OC UN N/A

COVER Total

Type	SWD	LWD	B	U	DP	OV	IV
AMT							
LOC							

CROWN CLOSURE: 0 (0) 1 (1-20%) 2 (21-40%) 3 (41-70%) 4 (71-90%) 5 (> 90%)

[illegible] N F A | DIST C E | INSTREAM VEG N A M V

[illegible] U V S 0 | RB SHP U V S 0

[illegible] F G C B R A | TEXTURE F G C B R A

[illegible] N G S C D M W | RIP VEG N G S C D M W

[illegible] INIT SHR PS YF MF NA | STAGE INIT SHR PS YF MF NA

FEATURES

C	NID MAP #	NID #	TYPE	HT / LG (m)	mthd	PHOTO	COMMENTS	UTM
						R___ F___		
						R___ F___		
						R___ F___		
						R___ F___		

SHED CODE [illegible]

TRIM MAP # | TLP # | NID MAP # 93L.0[illegible] | NID #

REACH # 2 - | SITE # 9 | FIELD UTM | SITE LG 10 GE | ACCESS [illegible]

DATE 2000 07 [illegible] | TIME 1000 | AGENCY C016 | CREW SR MTS | FISH FORM [✓ Y] N ☐

CHANNEL	mthd	1							GRADIENT %	
CHANNEL WIDTH (m)	AC	2.1	2.9	2.4	1.7	2.8	2.4		AL	
WETTED WIDTH (m)	4	1.0	1.2	0.9	1.2	1.1	1.7		3	2
RES. POOL DEPTH (m)	MJ	0.05	.18	.21	.16	.11			2	3

Wb Dp (m) 0.2 1.2 0.3 .45 | STAGE [✓ L] M H | No Vis. Ch. ☐ Dry/Int. ☐ DW ☐ Tribs. ☐

WATER

EMS | REQ #

TEMP 12 °C | COND 90 µS/cm

pH 7.6 | TURB T M L [✓ C]

MORPHOLOGY

FLD SNS

BED MATERIAL Dominant C | Subdom G

D95 (cm) 70 | D (cm) 1 | Morph RP

DISTURBANCE INDICATORS: 01 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] 0 I F S AN

BARS [✓ N] SIDE DIAG MID SPAN BR

COUPLING [✓ DC] PC CO

CONFINEMENT EN CO FC [✓ OC] UN N/A

COVER Total M

Type	SWD	LWD	B	U	DP	OV	IV
AMT	N	N	S	T	D	S	N
LOC							

CROWN CLOSURE: 0 (0) 1 (1-20%) 2 (21-40%) [✓ 3] (41-70%) 4 (71-90%) 5 (> 90%)

LWD FNC [✓ N] F A | DIST C E | INSTREAM VEG [✓ N] A M V

LB SHP U V [✓ S] 0 | RB SHP U V [✓ S] 0

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]

FEATURES

C	NID MAP #	NID #	TYPE	HT / LG (m)	mthd	PHOTO	COMMENTS	UTM
	[illegible]		CV	2	GE	R #81 F 4	Note P's on [illegible]	
						R___ F___	-CV BAR [illegible]	
						R___ F___		
						R___ F___		

HABITAT QUALITY

[illegible]
[illegible]
- opportunistic grazing in [illegible] [illegible]
[illegible]

FSZ ☐

PHOTO DOCUMENTATION

ROLL #	#	FOC LG	DIR	COMMENTS
081	5	ST	U	
081	6	ST	D	
081	11	ST	U	= [illegible] [illegible]

WILDLIFE

GROUP	WILDLIFE OBSERVATIONS	GROUP	WILDLIFE OBSERVATIONS

COMMENTS

C Site: on d/s side of road
- hanging culvert is definitely [illegible] to fish passage
1 large channel, but possibly d/t scouring below road?
2 rip veg: alder/willow shrub – [illegible]
[illegible]

C - [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible]
- [illegible] [illegible] [illegible]

TMP

HABITAT

FSZ ☐

PHOTO DOCUMENTATION

ROLL #	#	FOC LG	DIR	COMMENTS
				Devil's Club?

WILDLIFE

GROUP	WILDLIFE OBSERVATIONS	GROUP	WILDLIFE OBSERVATIONS

COMMENTS

C Site: [illegible] mouth
walked down the creek from [illegible] road.
Slightly channelized @ road, but to mouth with [illegible], "creek" is just a gully draw/seepage dispersed in devil's club floor of gully. No fish hab

C qual., no fish passage possible.
Also [illegible] [illegible] high water [illegible]
and [illegible] [illegible].

NCD

HABITAT QU

FSZ ☐

PHOTO DOCUMENTATION

ROLL #	#	FOC LG	DIR	COMMENTS
31	22	ST	U	([illegible])

WILDLIFE

GROUP	WILDLIFE OBSERVATIONS	GROUP	WILDLIFE OBSERVATIONS

COMMENTS

C Site: [illegible]
this "stream" is [illegible] for system.
However, wetland [illegible] as [illegible]
[illegible] pond for [illegible] [illegible]
[illegible] channel at outlet into [illegible]
[illegible] [illegible], [illegible] pond, [illegible]
[illegible] multi "channel" [illegible], [illegible]

C with [illegible] [illegible] throughout [illegible]
[illegible] [illegible] [illegible]
[illegible] [illegible] [illegible]
[illegible] [illegible] [illegible]
5 10 cm deep [illegible] [illegible]
Slightly [illegible] [illegible]
[illegible] [illegible]

NCD

GEAR SPECIFICATION

ELECTROFISHER SPECIFICATIONS

6	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	6	[illegible]	[illegible]	6	[illegible]	[illegible]

COMMENTS

[illegible]

№ 39601

CARD ☐
OF ☐

FISH COLLECTION FORM

Fleming 95.4 | FHHii | ☐ LAKE ☑ STREAM ☐ WETLAND

[illegible]

☒ Y ☐ N

2 -

[illegible] | YY MM DD | C06 | SP MT | ☐ RE-SAMPLE

SITE / METHOD

9	94.072					EF	12	90	C

FISH SUMMARY

9	EF 1	1	RB	J		4	66	76	R	

SITE CARD

STREAM NAME: Fleming 93.4 | (local): FHHii

WATERSHED CODE: [illegible]

ILP MAP #: | ILP #: | NID MAP #: 93K.072 | NID #:

REACH #: 2 - | SITE #: 10 | FIELD UTM: | SITE LG: [illegible] | ACCESS: VH

DATE: 2010 07 11 | TIME: 1030 | AGENCY: C06 | CREW: SP MT | FISH FORM: Y☒ N☐

CHANNEL	mthd						GRADIENT %	
CHANNEL WIDTH (m)	MC	1.9	2.4	2.1	2.6	1.8	AL	
WETTED WIDTH (m)	MC	1.1	1.4	2.1	2.0	1.7	3	3
RES. POOL DEPTH (m)	MS	0.16	.15	.18	.3	.2	4	4

W. D. (m): .2 .2 .3 MS | STAGE: [✓ L] M H | No Vis. Ch. ☐ Dry/Int. ☐ DW ☐ Tribs. ☐

EMS: | REQ #:

TEMP: 17 °C | COND: 90 µS/cm

pH: 7.6 | TURB: T M L [✓ C]

FLD SNS:

BED MATERIAL Dominant: C | Subdom: G

D95 (cm): 25 | D (cm): 7 | Morph: RP

COVER Total: M

Type	SWD	LWD	B	U	DP	OV	IV
AMT	T	T	S	T	D	S	N
LOC							

CROWN CLOSURE: 0 1 2 [✓ 3] 4 5 (0 / 1-20% / 21-40% / 41-70% / 71-90% / >90%)

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: 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

WATER **MORPHOLOGY**

C	NID MAP #	NID #	TYPE	HT / LG (m)	mthd	PHOTO	COMMENTS	UTM
						R___ F___		

RES

FISH COLLECTION FORM

Fleming 95.6 | FHHii | ☐ LAKE ☒ STREAM ☐ WETLAND

[illegible]

☒ Y ☐ N

2 -

[illegible] | YY MM DD | C06 | SP MT | ☐ RE-SAMPLE

SITE / METHOD

	NID MAP								
10	93K.072					EF 1	12	90	C

FISH SUMMARY

10	EF 1	1	NFC			0				

FHHii

WATERSHED CODE: 182 8 1 9 0 0 0 9 5 3 0 0 4 5 4 0 0 0 2 0 3 0 1 3 0 0

ILP MAP #: | ILP #: | NID MAP #: 93K.072 | NID #:

REACH #: 1 - | SITE #: 11 | FIELD UTM: 10 [illegible] | SITE LG: 150 | 66 | ACCESS: FT

DATE: 2010 07 11 | TIME: 1515 | AGENCY: C06 | CREW: SP MG | FISH FORM: Y☒ N☐

CHANNEL	mthd						GRADIENT %	
CHANNEL WIDTH (m)	MS	.3	.5	.7	.6	.4	.5	AL
WETTED WIDTH (m)	MS	0	0	0	0.3	0	0.2	5	7
RES. POOL DEPTH (m)	MS	.02	.05	.04				7	6

W. D. (m): .1 .2 .2 MS | STAGE: L M H | No Vis. Ch. ☐ Dry/[✓ Int.] ☑ DW ☐ Tribs. ☐

EMS: | REQ #:

TEMP: 4 °C | COND: 50 µS/cm

pH: 7.4 | TURB: T M L [✓ C]

FLD SNS: N

BED MATERIAL Dominant: F | Subdom: C

D95 (cm): 20 | D (cm): .5 | Morph: CP

COVER Total: T

Type	SWD	LWD	B	U	DP	OV	IV
AMT	N	N	N	N	D	N	N
LOC					P		

CROWN CLOSURE: 0 1 2 [✓ 3] 4 5 (0 / 1-20% / 21-40% / 41-70% / 71-90% / >90%)

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: 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

WATER **MORPHOLOGY**

C	NID MAP #	NID #	TYPE	HT / LG (m)	mthd	PHOTO	COMMENTS	UTM
						R___ F___		
	-					R___ F___		
						R___ F___		
						R___ F___		

FEATURES

HABITAT QUALITY

[illegible]

FSZ

PHOTO DOCUMENTATION

ROLL #	FR #	FOC LG	DIR	COMMENTS
[illegible]	17	[illegible]	[illegible]	[illegible]

WILDLIFE

GROUP	WILDLIFE OBSERVATIONS	GROUP	WILDLIFE OBSERVATIONS

COMMENTS

C		C	
	[illegible]		[illegible]
1	only a couple [illegible] pools, so not [illegible] [illegible]		
2	[illegible] [illegible] and [illegible] [illegible]		- [illegible]

GEAR SPECIFICATIONS — **NET / TRAP SPECIFICATIONS**

C

ELECTROFISHER SPECIFICATIONS

10			10:20	10:45	313	180	1.9	0	700	80	6	SR	[illegible]

COMMENTS

RB not present above culvert in [illegible] creek.

HABITAT QUALITY

Similar to d/s - moderate velocity, little overhanging, but [illegible] suitable spawning gravel present
- Not high-value habitat but moderate and usable if [illegible]

FSZ

PHOTO DOCUMENTATION

ROLL #	FR #	FOC LG	DIR	COMMENTS
001	6	55	D	very overgrown @ culvert, shrubs [illegible] - note spawning gravels in background

WILDLIFE

GROUP	WILDLIFE OBSERVATIONS	GROUP	WILDLIFE OBSERVATIONS

COMMENTS

C		C	
	Site = on u/s side of road muddy, impounded right at culvert but [illegible] u/s, habitat improves, [illegible] channel - abundant gammaridae u/s [illegible] [illegible] observed d/s		[illegible] at d/s, [illegible] (1)

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GEAR SPECIFICATIONS

ELECTROFISHER SPECIFICATIONS

9	EF 1	1	10:05	10:06	6	3	2.0	0	600	80	6	SR	[illegible]

COMMENTS

- minimal grouping & presence only
- RB right away, abundant

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№ 020173

CARD
OF

FISH COLLECTION FORM

[illegible] ii B ☐ LAKE ☒ STREAM ☐ WETLAND

[illegible]

☒ Y ☐ N

☐ RE-SAMPLE

SITE / METHOD

11	93K.012		[illegible]	EF		C	C

FISH SUMMARY

11	EF 1		NFC	

SITE CARD

STREAM NAME (gaz) Fleming 96 (local) FUHii A

WATERSHED CODE [illegible]

ILP MAP # **ILP #** **NID MAP #** 93K.012 **NID #**

REACH # 2 - **SITE #** 12 **FIELD UTM** **SITE LG** [illegible] **ACCESS** V4

DATE 20090711 **TIME** 0915 **AGENCY** C016 **CREW** SF MT **FISH FORM** Y☒ N☐

CHANNEL	mthd							GRADIENT %	
CHANNEL WIDTH (m)	MC	2.4	2.7	2.1	1.8	2.6	2.0	AL	
WETTED WIDTH (m)	MC	2.1	2.7	2.0	1.4	1.9	1.9	3	7.5
RES. POOL DEPTH (m)	MS	0.2	0.25	0.15	0.18			7	3

W_b Dp (m) 0.2 0.3 [illegible] MS **STAGE** L [✓ M] H

No Vis. Ch. ☐ Dry/Int. ☐ DW ☐ Tribs. ☐

WATER

EMS **REQ #**

TEMP 11 °C **COND** 50 µS/cm

pH 8.1 **TURB** T M L [✓ C]

FLD SNS

COVER Total M

Type	SWD	LWD	B	U	DP	OV	IV
AMT	T	T	S	N	D	S	N
LOC							

CROWN CLOSURE

0	1-20%	21-40%	41-70%	71-90%	> 90%
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

1 **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]

MORPHOLOGY

BED MATERIAL Dominant C Subdom G

D95 (cm) 75 **D (cm)** 6 **Morph** RP

DISTURBANCE INDICATORS

beavdam	aban ch	erdbk	avul	SWD	LWD	jam
O1	B1	B2	B3	D1	D2	D3

ex rif	no pl	elev br	mult ch	dis line	hom bd	finger	lg wdg	ex bar	ex bd scr
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)	mthd	PHOTO	COMMENTS	UTM
						R___ F___		
						R___ F___		

FISH COLLECTION FORM

Fleming 96 FUHii A ☐ LAKE ☒ STREAM ☐ WETLAND

[illegible]

☒ Y ☐ N

2 -

20090711 C016 SR MT ☐ RE-SAMPLE

SITE / METHOD

12	93K.012					EF 1	11	50	C

FISH SUMMARY

12	EF 1	1	RB	A		3	151	168	R	below culvert
12	EF 1	1	RB	J		1	122	122	R	above culvert

STREAM NAME (gaz) (local) FUHiiA1

WATERSHED CODE

ILP MAP # **ILP #** **NID MAP #** 93K.012 **NID #**

REACH # 1 - **SITE #** 13 **FIELD UTM** 10 379175 6070945 GPS **SITE LG** [illegible] GC **ACCESS** FT

DATE 20090717 **TIME** 1415 **AGENCY** C016 **CREW** SR MJ **FISH FORM** Y☒ N☐

CHANNEL	mthd							GRADIENT %	
CHANNEL WIDTH (m)	MS	0.3	0.5	0.4	0.4	0.3	0.9	AL	
WETTED WIDTH (m)	GE	0.1	0.1	0.2	0.3	0.2	0.2	12	9
RES. POOL DEPTH (m)	MS	.03	.02	.02	.04	.02	.02	9	10

W_b Dp (m) .1 .1 .1 MS **STAGE** [✓ L] M H

No Vis. Ch. ☐ [✓ Dry/Int.] ☒ DW ☐ Tribs. ☐

WATER

EMS **REQ #**

TEMP 11.0 °C **COND** 60 µS/cm 54

pH 8.3 **TURB** T M L [✓ C]

FLD SNS N

1 **COVER** Total N

Type	SWD	LWD	B	U	DP	OV	IV
AMT							
LOC							

CROWN CLOSURE

0	1-20%	21-40%	41-70%	71-90%	> 90%
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]

MORPHOLOGY

BED MATERIAL Dominant C Subdom F

D95 (cm) 75 **D (cm)** .5 **Morph** CP

DISTURBANCE INDICATORS

beavdam	aban ch	erdbk	avul	SWD	LWD	jam
O1	B1	B2	B3	D1	D2	D3

ex rif	no pl	elev br	mult ch	dis line	hom bd	finger	lg wdg	ex bar	ex bd scr
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)	mthd	PHOTO	COMMENTS	UTM
						R___ F___		
						R___ F___		
						R___ F___		
						R___ F___		

HABITAT

FSZ ☐

PHOTO DOCUMENTATION

ROLL #	#	FOC LG	DIR	COMMENTS
31	15	5T	[illegible]	[illegible]

WILDLIFE

GROUP	WILDLIFE OBSERVATIONS	GROUP	WILDLIFE OBSERVATIONS

COMMENTS

C Site: [illegible]
stream is defined channel & not steep
gradient within defined gully. Flow is
trickle thru mossy cobbles
- barely enough to [illegible] channel
- sampled on [illegible] [illegible]
could be

C rip veg: [illegible]
[illegible]

GEAR SPECIFICATIONS

C

NET / TRAP SPECIFICATIONS

ELECTROFISHER SPECIFICATIONS

12	Gr	1	1	920	922	38	1	3	0	700	60	8	58	[illegible]

COMMENTS

- all in plunge pool + minimal sampling = confirmation of fish presence only

HABITAT QUALITY

- moderate Rb rearing d/t lack of deep pools, but good flow [illegible].
- fair spawning in the gravel pockets
- unlikely overwintering d/t lack of pools, but good flow suggests likely
overwintering elsewhere in system

FSZ ☐

PHOTO DOCUMENTATION

ROLL #	#	FOC LG	DIR	COMMENTS
OP1	1	5T	U	culvert outflow + Rb on grate
OP2	2	5T	D	
[illegible]	3	5T	U	

WILDLIFE

GROUP	WILDLIFE OBSERVATIONS	GROUP	WILDLIFE OBSERVATIONS

COMMENTS

C Site = 6 Augier X-ing U/S
- sampled from 96 inventory - inferred [illegible]
- Rb [illegible] sighted on culvert outflow
- CV not hanging & right creek?
- CV gradient not barrier (4%)
- [illegible]
[illegible] pools, but good flow

C Str. [illegible] 16 [illegible]
1 rip veg = alder [illegible]
[illegible] creek - Rb [illegible]!

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GEAR SPECIFICATIONS

ELECTROFISHER SPECIFICATIONS

11	Gr	1	[illegible]	[illegible]	15	5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

COMMENTS

[illegible]

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№ 39559

CARD

FISH COLLECTION FORM

FW ii A1 ☐ LAKE ☒ STREAM ☐ WETLAND

☒ Y ☐ N

20091017 COIL SR MG ☐ RE-SAMPLE

SITE / METHOD

SITE	NID MAP		UTM						COMMENTS
13	93K 072		10 329175 [illegible]	[illegible]	11	60	C		

FISH SUMMARY

SITE	MTD		SPECIES							COMMENTS
13	[illegible]	1	NFC			0				

SITE CARD

STREAM NAME (gaz.) (local) FWiiC

WATERSHED CODE

ILP MAP # ILP # NID MAP # 93K072 NID #

REACH # 1 - SITE # 14 FIELD UTM 10 [illegible] SITE LG 100 GE ACCESS [illegible]

DATE 20091017 TIME 15:45 AGENCY COIL CREW SR MG FISH FORM Y☐ N☒

CHANNEL mthd — GRADIENT %

CHANNEL WIDTH (m)

WETTED WIDTH (m)

RES. POOL DEPTH (m)

W_b Dp (m) STAGE L M H No Vis. Ch. ☒ Dry/Int. ☐ DW ☐ Tribs. ☐

WATER: EMS — REQ # — TEMP °C — COND µS/cm — pH — TURB T M L C

MORPHOLOGY: FLD SNS — BED MATERIAL Dominant Subdom. — D95 (cm) D (cm) Morph

DISTURBANCE INDICATORS

beaver dam	aban ch	sd bx	a nul	SWD	LWD	jam
O1	B1	B2	B3	D1	D2	D3

ex nt	no pl	elev br	mult ch	dw line	hom bd	finger	lg wdg	ex bar	ex bd acr
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 CD

CONFINEMENT EN CO FC OC UN N/A

COVER Total

Type	SWD	LWD	B	U	DP	OV	IV
AMT							
LOC							

CROWN CLOSURE

0	1-20%	21-40%	41-70%	71-90%	> 90%
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]

FEATURES

C	NID MAP #	NID #	TYPE	HT / LG (m)	mthd	PHOTO	COMMENTS	UTM
						R___ F___		
						R___ F___		

SITE CARD

STREAM NAME (gaz.) (local) FW15

WATERSHED CODE [illegible] 00B510

ILP MAP # ILP # NID MAP # 93K072 NID #

REACH # 1 - SITE # 15 FIELD UTM SITE LG 100 GL ACCESS FT

DATE 20091017 TIME 13:00 AGENCY COIL CREW SR MG FISH FORM Y☐ N☒

CHANNEL mthd — GRADIENT %

CHANNEL WIDTH (m)

WETTED WIDTH (m)

RES. POOL DEPTH (m)

W_b Dp (m) STAGE L M H No Vis. Ch. ☒ Dry/Int. ☐ DW ☐ Tribs. ☐

WATER: EMS — REQ # — TEMP °C — COND µS/cm — pH — TURB T M L C

MORPHOLOGY: FLD SNS — BED MATERIAL Dominant Subdom. — D95 (cm) D (cm) Morph

DISTURBANCE INDICATORS

beaver dam	aban ch	sd bx	a nul	SWD	LWD	jam
O1	B1	B2	B3	D1	D2	D3

ex nt	no pl	elev br	mult ch	dw line	hom bd	finger	lg wdg	ex bar	ex bd acr
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

COVER Total

Type	SWD	LWD	B	U	DP	OV	IV
AMT							
LOC							

CROWN CLOSURE

0	1-20%	21-40%	41-70%	71-90%	> 90%
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

FEATURES

C	NID MAP #	NID #	TYPE	HT / LG (m)	mthd	PHOTO	COMMENTS	UTM
						R___ F___		
						R___ F___		
						R___ F___		
						R___ F___		

STREAM NAME (gaz.) (local) FW14

WATERSHED CODE [illegible]

ILP MAP # ILP # NID MAP # 93K072 NID #

REACH # 1 - SITE # 16 FIELD UTM mouth SITE LG 100 GC ACCESS FT

DATE 20091017 TIME 12:00 AGENCY COIL CREW SR MG FISH FORM Y☐ N☒

CHANNEL mthd — GRADIENT %

CHANNEL WIDTH (m)

WETTED WIDTH (m)

RES. POOL DEPTH (m)

W_b Dp (m) STAGE L M H No Vis. Ch. ☒ Dry/Int. ☐ DW ☐ Tribs. ☐

WATER: EMS — REQ # — TEMP °C — COND µS/cm — pH — TURB T M L C

MORPHOLOGY: FLD SNS — BED MATERIAL Dominant Subdom. — D95 (cm) D (cm) Morph

DISTURBANCE INDICATORS

beaver dam	aban ch	sd bx	a nul	SWD	LWD	jam
O1	B1	B2	B3	D1	D2	D3

ex nt	no pl	elev br	mult ch	dw line	hom bd	finger	lg wdg	ex bar	ex bd acr
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

COVER Total

Type	SWD	LWD	B	U	DP	OV	IV
AMT							
LOC							

CROWN CLOSURE

0	1-20%	21-40%	41-70%	71-90%	> 90%
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

FEATURES

C	NID MAP #	NID #	TYPE	HT / LG (m)	mthd	PHOTO	COMMENTS	UTM
						R___ F___		
						R___ F___		
						R___ F___		
						R___ F___		

HABITAT QUALIT

FSZ ☐

PHOTO DOCUMENTATION

ROLL	FRAME	FOCAL	DIR	COMMENTS

WILDLIFE

GROUP	WILDLIFE OBSERVATIONS	GROUP	WILDLIFE OBSERVATIONS

COMMENTS

C		C	
	Site = from "mouth" - No defined channel present at "mouth" - No flowing, no continuous channel bed, no puddles, etc. just moist ground. No fish habitat or connectivity to any u/s reaches		NCD

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HABITAT

NONE

FSZ ☐

PHOTO DOCUMENTATION

ROLL	FRAME	FOCAL	DIR	COMMENTS
				Gravel pit?

WILDLIFE

GROUP	WILDLIFE OBSERVATIONS	GROUP	WILDLIFE OBSERVATIONS

COMMENTS

C		C	
	Site = from "mouth" No sign of drainage found at mapped location. At mapped location at Fleming road, "creek" is mapped at crest of hill. Some possibilities in gullies or old gravel pit, but all dry with no channel or H2O		NOT EVEN NCD

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HABITAT QUA

NONE

FSZ ☐

PHOTO DOCUMENTATION

ROLL	FRAME	FOCAL	DIR	COMMENTS
31	16	ST	U	(SR)

WILDLIFE

GROUP	WILDLIFE OBSERVATIONS	GROUP	WILDLIFE OBSERVATIONS

COMMENTS

C		C	
	Site: u/s ~100m d/s from road "crossing" lacks continuous channel bed. At road and d/s, channel bed appears occasionally, [illegible] but then disappears into [illegible] gully floor. No fish habitat or access possible to any fish.		Sides of road are disturbed [illegible] forest floor - no scour observed in channelbed sections NCD

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GEAR SPECIFICATIONS

ELECTROFISHER SPECIFICATIONS

1	13	[illegible] 1	1	[illegible]	[illegible]	[illegible]	1	0.3	0	700	80	6	[illegible]	[illegible]

COMMENTS

1 only 1 place to EF [illegible], no [illegible] [illegible]

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Nº 39650

CARD OF

SITE CARD

STREAM NAME (gaz)		(local)	FUH4
WATERSHED CODE	[illegible]		
ILP MAP #		ILP #	
NID MAP #	93K.072	NID #	
REACH #	2 -	SITE #	17
FIELD UTM	10 329762 6072941 GPS	SITE LG	100 GC
ACCESS	VT		
DATE	2000 10 17	TIME	1240
AGENCY	C016	CREW	SS MG
FISH FORM	Y N		

CHANNEL	mthd							GRADIENT %	
CHANNEL WIDTH (m)	MS	1.2	1.1	1.0	0.4	0.8	1.3	AL	
WETTED WIDTH (m)	↓	0.9	1.0	1.0	0.4	0.7	1.3	5	4
RES. POOL DEPTH (m)	↓	.04	.06	.03	.05			4	6

Wb Dp (m) .1 .1 .1 MS STAGE L [✓ M] H

No Vis. Ch. ☐ Dry/Int. ☐ DW ☐ Tribs. ☐

EMS			REQ #	
TEMP	4.5 °C	T3	COND	70 µS/cm 34
pH	8.5	P2	TURB	T M L [✓ C] 06
FLO SNS	N			
BED MATERIAL Dominant	F		Subdom	G
D95 (cm)	1	D (cm) .5	Morph	RP

COVER Total T

Type	SWD	LWD	B	U	DP	OV	IV
AMT	T	T	N	N	T	D	T
LOC	P	P			P	P	

CROWN CLOSURE 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 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

C	NID MAP #	NID #	TYPE	HT/LG (m)	mthd	PHOTO	COMMENTS	UTM
						R___ F___		

FISH COLLECTION FORM

(local) FUH-4 ☐ LAKE ☑ STREAM ☐ WETLAND

WATERSHED CODE [illegible]

☑ Y ☐ N

2 -

DATE 2000 10 17 AGENCY C016 CREW SS MG ☐ RE-SAMPLE

SITE #	NID MAP #	NID #	SITE UTM	MTD NO	STREAM CONDITION			COMMENTS
17	93K.072		10 329762 6072941 GPS	EF 1	4.5	SU	C	

SITE #	MTD #		SPECIES			TOTAL				COMMENTS
17	EF 1	1	NFC			0				

SITE CARD

STREAM NAME (gaz)		(local)	FUH5
WATERSHED CODE			
ILP MAP #		ILP #	
NID MAP #	93K.072	NID #	
REACH #	1 -	SITE #	18
FIELD UTM	10 [illegible]	SITE LG	[illegible]
ACCESS	VT		
DATE	2000 10 17	TIME	1120
AGENCY	C016	CREW	SS MG
FISH FORM	Y N		

CHANNEL	mthd	1	1	1				GRADIENT %	
CHANNEL WIDTH (m)	.45	0.6	0.9	1.2	0.6	0.9	1.0	AL	
WETTED WIDTH (m)	↓	0.3	0.6	0.9	0.6	0.6	0.5	19	22
RES. POOL DEPTH (m)	↓	.1	.08	.06	(?)			21	26

Wb Dp (m) .1 .2 .1 MS STAGE L [✓ M] H

No Vis. Ch. ☐ Dry/Int. ☐ DW ☐ Tribs. ☐

EMS			REQ #	
TEMP	4.0 °C	T3	COND	50 µS/cm 34
pH	8.5	P2	TURB	T M L [✓ C] 06
FLO SNS	N			
BED MATERIAL Dominant	C		Subdom	G
D95 (cm)	20	D (cm) 3	Morph	SP

COVER Total T

Type	SWD	LWD	[✓ B]	U	[✓ DP]	OV	IV
AMT	T	T	S	N	D	T	N
LOC	P	P	P		P	P	

CROWN CLOSURE 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 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

C	NID MAP #	NID #	TYPE	HT/LG (m)	mthd	PHOTO	COMMENTS	UTM
			C	1.2 1.5	PL	R 3/4 F 1	60 - [illegible]	[illegible]

FISH COLLECTION FORM

(local) FU 5 ☐ LAKE ☑ STREAM ☐ WETLAND

☑ Y ☐ N

1 -

DATE 2000 10 17 AGENCY C016 CREW SS MG ☐ RE-SAMPLE

SITE #	NID MAP #	NID #	SITE UTM	MTD NO	STREAM CONDITION			COMMENTS
18	93K.072		10 [illegible]	EF 1	4.6	SU	C	

SITE #	MTD #		SPECIES			TOTAL	MIN LENGTH	MAX LENGTH		COMMENTS
18	EF 1	1	NFC			0				

GEAR SPECIFICATIONS

C												

ELECTROFISHER SPECIFICATIONS

18	Ga 1	1420	14[illegible]	179	60	0.6	C	700	SL	6	SP	[illegible]

COMMENTS

HABITAT QUALITY

Poor [illegible] for [illegible] [illegible] [illegible] [illegible] d.w. [illegible] [illegible] No spawning, [illegible] present.

FSZ ☐

PHOTO DOCUMENTATION

ROLL		FROM	DIR	COMMENTS
31	10	ST	D	[illegible]
31	11	ST	U	

WILDLIFE

GROUP	WILDLIFE OBSERVATIONS	GROUP	WILDLIFE OBSERVATIONS

COMMENTS

C
1 Site: [illegible] mouth
pools on shallow cascade pools within steep gradient
Reach is steep valley, wet [illegible], flows in frequent small steps and is too steep for fish use, impassable for fish [illegible]

C
NFC SG.
(Pool @ [illegible] cascade at 715)
Selected pools @ 715 [illegible] to [illegible] the [illegible]

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GEAR SPECIFICATIONS

ELECTROFISHER SPECIFICATIONS

17	EF 1	1	1240	1250	715	100	1.0	0	700	50	6	SP	[illegible]

COMMENTS

only shallow [illegible] to steep

HABITAT QUALITY

V. poor - v shallow depth, one pool & cover [illegible] & [illegible]. [illegible] inflow a result of ditch runoff. No spawning/[illegible] habitat and no connectivity, [illegible] FUH [illegible] disperses into [illegible] of mouth. This creek is only marginally a [illegible] stream.

FSZ ☐

PHOTO DOCUMENTATION

ROLL		FRAME	DIR	COMMENTS
31	14	ST	U	(SR)

WILDLIFE

GROUP	WILDLIFE OBSERVATIONS	GROUP	WILDLIFE OBSERVATIONS

COMMENTS

C
Site: [illegible] 60m d/s from road
= confirmation of fish absent above NVC reach!!
likely only watered d/t [illegible] rain

C
NVC - SG

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SITE CARD

STREAM NAME (gazetted): (local): FuH5
WATERSHED CODE:
ILP MAP #: ILP #: NID MAP #: 93K.012 NID #:
REACH #: 2 - SITE #: 19 FIELD UTM: 10 329680 6073098 GPS SITE LG: 100 GC ACCESS: VT
DATE: 2000 10 17 TIME: 1215 AGENCY: C016 CREW: SR, MG FISH FORM: Y ☒ N ☐

CHANNEL	mthd	1						GRADIENT %	
CHANNEL WIDTH (m)	MS	1.1	1.2	1.1	1.5	1.4	1.0	AL	
WETTED WIDTH (m)	1	0.9	0.8	1.0	1.5	1.0	0.7	3	2
RES POOL DEPTH (m)	5	.51	.08	.11	.06			5	3

Wb Dp (m): .1 .2 .1 MC STAGE: L [✓ M] H
No Vis. Ch. ☐ Dry/Int. ☐ DW ☐ Tribs. ☐

WATER
EMS: REQ #:
TEMP: 4.0 °C T2 COND: 50 µS/cm
pH: 8.5 P7 TURB: T M L [✓ C]
FLO SNS: N

MORPHOLOGY
BED MATERIAL Dominant: G Subdom: F
D95 (cm): 15 D (cm): 2 Morph: RP

COVER
2 COVER Total: T

Type	SWD	LWD	B	U	[✓ DP]	OV	IV
AMT	T	T	N	N	V	T	N
LOC	P	P			P	P	

CROWN CLOSURE: 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] 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

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)	mthd	PHOTO	COMMENTS	UTM
						R___ F___		
						R___ F___		

FISH COLLECTION FORM

(local): FuH5 ☐ LAKE ☑ STREAM ☐ WETLAND
☑ Y ☐ N
2 -
2000 10 17 C016 SR, MG ☐ RE-SAMPLE

SITE / METHOD

								COMMENTS
19	93K.012		10 329690 6073099 GPS	EF 1	4	50	C	

FISH SUMMARY

										COMMENTS
19	EF 1	1	NFC			0				

SITE CARD

STREAM NAME (gazetted): (local): FuH4
WATERSHED CODE:
ILP MAP #: ILP #: NID MAP #: [illegible] NID #:
REACH #: 1 - SITE #: 20 FIELD UTM: 10 329 76[illegible] SITE LG: [illegible] ACCESS: V
DATE: 2000 10 17 TIME: 1630 AGENCY: C016 CREW: SR, MG FISH FORM: Y ☑ N ☐

CHANNEL	mthd							GRADIENT %		
CHANNEL WIDTH (m)	MS	0.3	0.6	0.4	0.5	0.6	[illegible]	AL		
WETTED WIDTH (m)	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	18	9	1
RES POOL DEPTH (m)	1	.21	.11	.11	.16			9	12	

Wb Dp (m): .1 .2 .1 STAGE: L M [✓ H]
No Vis. Ch. ☐ Dry/Int. ☐ DW ☐ Tribs. ☐

WATER
EMS: REQ #:
TEMP: 4.5 °C T3 COND: 50 µS/cm S4
pH: 8.4 P7 TURB: T M L [✓ C]
FLO SNS: N

MORPHOLOGY
2 BED MATERIAL Dominant: F Subdom: N
3 D95 (cm): 1 D (cm): .01 Morph: R, CP

COVER
COVER Total: T

Type	SWD	LWD	B	U	DP	OV	IV
AMT	T	T	N	T	D	S	N
LOC	P	P		P	P	P	

CROWN CLOSURE: 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 [✓ 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]

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)	mthd	PHOTO	COMMENTS	UTM
						R___ F___		
						R___ F___		
						R___ F___		
						R___ F___		

☑ STREAM
☑ Y ☐ N
1 -
2000 10 17 C016 SR, MG ☐ RE-SAMPLE

SITE / METHOD

SITE	NID MAP	NID	SITE UTM	MTD NO		STREAM CONDITION		COMMENTS
20	93K.012		10 329[illegible] GPS	EF 1	4.5	50		

FISH SUMMARY

										COMMENTS
20	EF 1	1	NFC			0				

GEAR SPECIFICATIONS

C	SITE #	MTD/#	HAUL	DATE IN	TIME IN	DATE OUT	TIME OUT						

ELECTROFISHER SPECIFICATIONS

20	G 11	1	10 15	[illegible]	137	[illegible]	0.[illegible]	0	[illegible]	50	6	[illegible]	[illegible]

COMMENTS

[illegible] seasonal [illegible]!

HABITAT QUALITY

Very [illegible] [illegible] quality

All [illegible] spawning [illegible]

- [illegible] O.W. [illegible]

- [illegible]

FSZ ☐

PHOTO DOCUMENTATION

ROLL #	FRAME #	FOCAL LGTH	DIR	COMMENTS
31	8	ST	U	(cam bag)
31	9	ST	D	(cam bag)

WILDLIFE

GROUP	WILDLIFE OBSERVATIONS	GROUP	WILDLIFE OBSERVATIONS

COMMENTS

C Site [illegible]

1 18% of [illegible] [illegible] steps

2 [illegible] CV

*2nd [illegible]

3 CP [illegible]

C

NFC - 56

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GEAR SPECIFICATIONS

C	SITE #	MTD/#	HAUL	DATE IN	TIME IN	DATE OUT	TIME OUT						

ELECTROFISHER SPECIFICATIONS

19	G 11	1	[illegible]	[illegible]	211	-100	1.0	0	700	50	6	SR	[illegible]

COMMENTS

HABITAT QUALITY

- V. poor overall d/t shallowness, [illegible] + lack of pools.
- mod spawning substrate
- NO O.W. potential

- All [illegible] [illegible] barrier [illegible] O.W. [illegible] above [illegible] NIC [illegible] pool

FSZ ☐

PHOTO DOCUMENTATION

ROLL #	FRAME #	FOCAL LGTH	DIR	COMMENTS
31	12	ST	U	(SR)
31	13	ST	D	(cam bag)

WILDLIFE

GROUP	WILDLIFE OBSERVATIONS	GROUP	WILDLIFE OBSERVATIONS

COMMENTS

C Site = UTM: 30 m d/s from Herringrd.

1 pool = [illegible] - rest are shallow

2 v. little cover for fish, but what is there [illegible] habitat

C

NFC - 56

- [illegible] site [illegible]

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FISH COLLECTION FORM

☐ LAKE ☒ STREAM ☐ WETLAND

Watershed code: [illegible]

☒ Y ☐ N

Reach: 8 -

Agency: C016

Crew: MJ, MJ

☐ RE-SAMPLE

SITE / METHOD

21	[illegible]				EF1	4	90	L

FISH SUMMARY

21	EF1	1	[illegible]	J		3	64	87	R	

SITE CARD

STREAM NAME (gaz): [illegible] (local): FULC

WATERSHED CODE: [illegible]

ILP MAP #: ILP #: NID MAP #: [illegible] NID #:

REACH #: 8 - SITE #: 21 FIELD UTM: 10 318745 [illegible] GPS SITE LG: 500 [illegible] ACCESS: [illegible]

DATE: [illegible] TIME: 1605 AGENCY: C016 CREW: [illegible] FISH FORM: Y [✓ N]

CHANNEL	mthd							GRADIENT %	
CHANNEL WIDTH (m)	[illegible]	[illegible]	[illegible]	1.9	1.9	1.6	2.1	[illegible]	
WETTED WIDTH (m)	[illegible]	[illegible]	[illegible]	0.9	[illegible]	0.9	1.2	[illegible]	[illegible]
RES. POOL DEPTH (m)	[illegible]	[illegible]	[illegible]	[illegible]	0.18	[illegible]	[illegible]	5.5	[illegible]

W_B Dp (m): [illegible] STAGE: L M H No Vis. Ch. ☐ Dry/Int. ☐ DW ☐ Tribs. ☐

EMS: TEMP: °C COND: µS/cm REQ. #: pH: 7.9 TURB: T M L [✓ C]

FLD SNS: None

BED MATERIAL: Dominant F Subdom. C

D95 (cm): 20 D (cm): 0.1 Morph: RP

COVER Total: T

Type	SWD	LWD	B	U	DP	OV	IV
AMT	T	D	T	T	T	S	[illegible]
LOC	[illegible]						

CROWN CLOSURE: 0 (0) 1 (1-20%) [✓ 2 (21-40%)] 3 (41-70%) 4 (71-90%) 5 (> 90%)

DISTURBANCE INDICATORS: O1 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

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

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

C	NID MAP #	NID #	TYPE	HT / LG (m)	mthd	PHOTO	COMMENTS	UTM
						R___ F___		
						R___ F___		

SITE CARD

STREAM NAME (gaz): (local): BABS

WATERSHED CODE:

ILP MAP #: ILP #: NID MAP #: 93K.044? NID #:

REACH #: 1 - SITE #: 22 FIELD UTM: 10 315596 [illegible] GPS SITE LG: 100 GE ACCESS: [illegible]

DATE: [illegible] TIME: 1215 AGENCY: C016 CREW: SP MG FISH FORM: Y ☐ N ☒

CHANNEL	mthd							GRADIENT %	
CHANNEL WIDTH (m)	[illegible]	1.4	1.7	0.8	1.9	1.3	1.4	AL	
WETTED WIDTH (m)	GC	C	C	C	C	C	C	1	3
RES. POOL DEPTH (m)	[illegible]	C						2	4

W_B Dp (m): [illegible] STAGE: L [✓ M] H No Vis. Ch. ☐ [✓ Dry/Int.] ☒ DW ☐ Tribs. ☐

EMS: TEMP: °C COND: µS/cm REQ. #: pH: TURB: T M L C

FLD SNS: N

BED MATERIAL: Dominant F Subdom. G

D95 (cm): 1 D (cm): .5 Morph: RP

1 COVER Total: N

Type	SWD	LWD	B	U	DP	OV	IV
AMT							
LOC							

CROWN CLOSURE: 0 (0) 1 (1-20%) [✓ 2 (21-40%)] 3 (41-70%) 4 (71-90%) 5 (> 90%)

DISTURBANCE INDICATORS: O1 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

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

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

C	NID MAP #	NID #	TYPE	HT / LG (m)	mthd	PHOTO	COMMENTS	UTM
						R___ F___		
						R___ F___		
						R___ F___		
						R___ F___		

WATERSHED CODE:

ILP MAP #: 93L045 ILP #: 43508 NID MAP #: 93K043 NID #:

REACH #: 2 - SITE #: 23 FIELD UTM: 10 342696 6032872 GPS SITE LG: 500 GE ACCESS: [illegible]

DATE: [illegible] TIME: [illegible] AGENCY: C016 CREW: [illegible] FISH FORM: Y [✓ N]

CHANNEL	mthd							GRADIENT %	
CHANNEL WIDTH (m)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
WETTED WIDTH (m)	[illegible]						[illegible]	[illegible]	
RES. POOL DEPTH (m)	[illegible]								

W_B Dp (m): 0.1 0.3 [illegible] STAGE: [✓ L] M H No Vis. Ch. Dry/Int. DW Tribs.

EMS: TEMP: [illegible] °C COND: 1820 µS/cm REQ. #: pH: 7.9 TURB: T M L [✓ C]

FLD SNS: None

BED MATERIAL: Dominant F Subdom. [illegible]

D95 (cm): [illegible] D (cm): [illegible] Morph: RP

COVER Total: T

Type	SWD	LWD	B	U	DP	OV	IV
AMT	T	T	T	D	T	[illegible]	[illegible]
LOC	3	3	3	[illegible]		[illegible]	

CROWN CLOSURE: 0 (0) 1 (1-20%) 2 (21-40%) 3 (41-70%) 4 (71-90%) 5 (> 90%)

DISTURBANCE INDICATORS: O1 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

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

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

C	NID MAP #	NID #	TYPE	HT / LG (m)	mthd	PHOTO	COMMENTS	UTM
						R___ F___		
						R___ F___		
						R___ F___		
						R___ F___		

SITE CARD

STREAM NAME (gazetted):
(local): FUH 5
WATERSHED CODE:
NID MAP #: 93K.012
REACH #: 2
SITE #: 19
FIELD UTM: 10 327680 6073098 GPS
SITE LG: 100 GC
ACCESS: V
DATE: 2000 10 17
TIME: 12 15
AGENCY: C016
CREW: SR MG
FISH FORM: Y [✓] N ☐

CHANNEL	mthd	1						
CHANNEL WIDTH (m)	MS	1.1	1.2	1.1	1.5	1.4	1.0	
WETTED WIDTH (m)		0.9	0.8	1.0	1.5	1.0	0.7	
RES. POOL DEPTH (m)		.51	.08	.11	.06			

GRADIENT %: AL; 3, 2; 3, 3
W. Db (m): .1 .2 .1 [illegible]
STAGE: L [✓ M] H
No Vis. Ch. ☐ Dry/Int. ☐ DW ☐ Tribs. ☐

COVER: 2 Total: T

Type	SWD	LWD	B	U	DP	OV	IV
AMT	T	T	N	N	D	T	N
LOC	C	C			P	P	

CROWN CLOSURE: 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 (LB): [✓ F] G C B R A
TEXTURE (RB): [✓ F] G C B R A
RIP VEG (LB): N G [✓ S] [✓ C] D M W
RIP VEG (RB): N G S [✓ C] D M W
STAGE (LB): INIT [✓ SHR] PS YF MF NA
STAGE (RB): INIT [✓ SHR] PS YF MF NA

EMS:
REQ #:
TEMP: 4.0 °C
COND: 50 µS/cm
pH: 8.5
TURB: T M L [✓ C]
FLD SNS: N
BED MATERIAL Dominant: G Subdom: [illegible]
D95 (cm): 15 D (cm): 2 Morph: [illegible]
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

C	NID MAP #	NID #	TYPE	HT / LG (m)	mthd	PHOTO	COMMENTS	UTM
						R___ F___		

FISH COLLECTION FORM

FUH 5 ☐ LAKE ☑ STREAM ☐ WETLAND
☑ Y ☐ N
2
2000 10 17 C016 SR MG ☐ RE-SAMPLE

19	93K.012		10 327680 6073098 GPS	EF 1	4	50	C	

19	EF 1	1	NFC			0				

SITE CARD

(local): FUH 5
NID MAP #: 93K.012
REACH #: 1
SITE #: 20
FIELD UTM: 10 327[illegible] 6073[illegible]
ACCESS: V
DATE: 2000 10 17
TIME: 16 50
AGENCY: C016
CREW: SR MG
FISH FORM: Y [✓] N ☐

CHANNEL	mthd							
CHANNEL WIDTH (m)	MS	0.3	0.6	0.4	0.5	0.6		
WETTED WIDTH (m)								
RES. POOL DEPTH (m)		.21	.11	.14	.16			

GRADIENT %: AL; 18, 9, 1; 1, 1.2
W. Db (m): .1 .2 .1 [illegible]
STAGE: L M [✓ H]
No Vis. Ch. ☐ Dry/Int. ☐ DW ☐ Tribs. ☐

COVER Total: T

Type	SWD	LWD	B	U	DP	OV	IV
AMT	T	T	N	T	D	S	N
LOC							

CROWN CLOSURE: 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 (LB): [✓ F] G C B R A
TEXTURE (RB): [✓ F] G C B R A
RIP VEG (LB): N G [✓ S] C D M W
RIP VEG (RB): N G [✓ S] C D M W
STAGE (LB): INIT SHR PS YF MF [✓ NA]
STAGE (RB): INIT SHR PS YF MF [✓ NA]

TEMP: 4.5 °C
COND: 56 µS/cm
pH: 8.1
TURB: T M L [✓ C]
FLD SNS: N
2 BED MATERIAL Dominant: F Subdom: [illegible]
3 D95 (cm): 1 D (cm): .01 Morph: R, CP
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

C	NID MAP #	NID #	TYPE	HT / LG (m)	mthd	PHOTO	COMMENTS	UTM
						R___ F___		
						R___ F___		
						R___ F___		
						R___ F___		

FUH 5 ☐ LAKE ☑ STREAM ☐ WETLAND
☑ Y ☐ N
1
2000 10 17 C016 SR MG ☐ RE-SAMPLE

20	93K.012		10 327[illegible] 6073[illegible] GPS	EF 1	4.5	56	C	

20	EF 1	1	NFC			0				

Unnamed (local)

ILP # 43508 NID MAP # [illegible] NID #
SITE # 24 FIELD UTM 10 343127 6032688 GPS SITE LG 200 GE ACCESS V4
TIME 1315 AGENCY C016 CREW MJ MJ FISH FORM Y ☐ [✓ N]

CHANNEL	mthd							GRADIENT %
CHANNEL WIDTH (m)	[illegible]	0.9	1.1	2.1	[illegible]	[illegible]	1.4	3 2
WETTED WIDTH (m)								
RES. POOL DEPTH (m)								

Wb Dp (m) 0.2 0.2 0.2 0.1 STAGE L M H No Vis. Ch. ☐ [✓ Dry/Int.] ☑ DW ☐ Tribs. ☐

COVER Total N

Type	SWD	LWD	B	U	DP	OV	IV
AMT	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
LOC	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

CROWN CLOSURE 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

EMS TEMP — °C REQ # COND — µS/cm pH — TURB. T M L C
FLD SNS None
BED MATERIAL Dominant F Subdom NS
D95 (cm) 0.01 D (cm) 0.01 Morph RP
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

C	NID MAP #	NID #	TYPE	HT / LG (m)		PHOTO	COMMENTS	UTM
						R___ F___		
						R___ F___		

FISH COLLECTION FORM

☐ LAKE ☑ STREAM ☐ WETLAND

[illegible] 43508 Y ☑ N ☐
AGENCY C016 CREW MJ ☐ RE-SAMPLE

SITE / METHOD

23	[illegible]					5	180		

FISH SUMMARY

23										

SITE CARD

STREAM NAME (gaz) Unnamed (local)
WATERSHED CODE
ILP MAP # [illegible] ILP # 43510 NID MAP # [illegible] NID #
REACH # 1 SITE # 25 FIELD UTM 10 343078 6032558 GPS SITE LG 200 GE ACCESS V4
DATE 2016 [illegible] TIME 1423 AGENCY CREW MJ MJ FISH FORM Y ☐ [✓ N]

CHANNEL mthd / CHANNEL WIDTH (m) / WETTED WIDTH (m) / RES. POOL DEPTH (m) / GRADIENT %
Wb Dp (m) STAGE L M H No Vis. Ch. ☒ Dry/Int. ☐ DW ☐ Tribs. ☐
COVER Total
Type SWD LWD B U DP OV IV / AMT / LOC
CROWN CLOSURE 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
EMS TEMP °C pH REQ # COND µS/cm TURB. T M L C
FLD SNS
BED MATERIAL Dominant Subdom
D95 (cm) D (cm) 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

C	NID MAP #	NID #	TYPE	HT / LG (m)		PHOTO	COMMENTS	UTM
						R___ F___		
						R___ F___		
						R___ F___		
						R___ F___		

[illegible] (local) [illegible] TRIB, TK13
WATERSHED CODE
ILP MAP # [illegible] ILP # 34554 NID MAP # [illegible] NID #
REACH # 1 SITE # 26 FIELD UTM 10 344630 6023250 GPS SITE LG 200 GE ACCESS V4
DATE 2016 [illegible] TIME 1100 AGENCY C016 CREW MJ MJ FISH FORM Y ☐ [✓ N]

CHANNEL mthd / CHANNEL WIDTH (m) / WETTED WIDTH (m) / RES. POOL DEPTH (m) / GRADIENT % AL 17
Wb Dp (m) STAGE L M H [✓ No Vis. Ch.] ☒ Dry/Int. ☐ DW ☐ Tribs. ☐
COVER Total
Type SWD LWD B U DP OV IV / AMT / LOC
CROWN CLOSURE 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
EMS TEMP °C pH REQ # COND µS/cm TURB. T M L C
FLD SNS
BED MATERIAL Dominant Subdom
D95 (cm) D (cm) 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

C	NID MAP #	NID #	TYPE	HT / LG (m)		PHOTO	COMMENTS	UTM
						R___ F___		
						R___ F___		
						R___ F___		
						R___ F___		

HABITAT QU

FSZ ☐

PHOTO DOCUMENTATION

				COMMENTS
OPS	13	ST	U	1115

WILDLIFE

	WILDLIFE OBSERVATIONS		WILDLIFE OBSERVATIONS

COMMENTS

C site @ [illegible]

Forested [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] drainage

C

HABITAT QUALITY

No [illegible] sign of drainage found @ mapped location or 100m [illegible]

FSZ ☐

PHOTO DOCUMENTATION

				COMMENTS

WILDLIFE

	WILDLIFE OBSERVATIONS		WILDLIFE OBSERVATIONS

COMMENTS

C Site @ [illegible]

Slight depression [illegible] [illegible]

C

Rev. Apr 1998

GEAR SPECIFICATIONS

ELECTROFISHER SPECIFICATIONS

23	[illegible]	[illegible]	13.[illegible]	[illegible]	[illegible]	500	2.4	0	300	80	4	[illegible]	[illegible]

COMMENTS

[illegible]

HABITAT QUALITY

NFH - v. seasonal flow likely for 2-3 weeks ea. meltwater runoff. channel loses creek characteristics in freq vegetation [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

FSZ ☐

PHOTO DOCUMENTATION

				COMMENTS
OPS	17	ST	BD	1406
OPS	18	ST	U	1407

WILDLIFE

	WILDLIFE OBSERVATIONS		WILDLIFE OBSERVATIONS

COMMENTS

C site [illegible] [illegible] [illegible]

[illegible]

C

Rev. Apr 1998

SITE CARD

STREAM NAME (gazetted): Unnamed (local):

WATERSHED CODE: 460927740U23300363001

NID MAP #: 93K.031

REACH #: 1 - SITE #: 27

SITE G: [illegible] ACCESS: 1.1

DATE: 20000714 TIME: 1010 AGENCY: C06 CREW: SR, MJ FISH FORM: ☒ N ☐

CHANNEL	mthd								GRADIENT %	
CHANNEL WIDTH (m)	MS	1.6	.8	1.4	1.8	1.9	1.7		11	
WETTED WIDTH (m)		"	"	"	"	"	"		7	9
RES. POOL DEPTH (m)		.7	.15	.18	.24	.21	.16		9	8

W. D. (m): .2 .2 .3 MS STAGE L M [✓ H] No Vis. Ch. ☐ Dry/Int. ☐ DW ☐ Tribs. ☐

COVER Total: M

Type	SWD	LWD	B	U	DP	OV	IV
AMT	T	S	S	T	D	T	N
LOC							

CROWN CLOSURE

0	1-20%	21-40%	41-70%	71-90%	> 90%
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

EMS: REQ #:

TEMP: 9 °C COND: - µS/cm

pH: 7.4 TURB: T M [✓ L] C

FLD SNS:

BED MATERIAL Dominant: C Subdom: G

D95 (cm): 25 D (cm): 6 Morph: CP

DISTURBANCE INDICATORS	beaver dam	aban ch	endbk	avul	SWD	LWD	jam
	O1	B1	B2	B3	D1	[✓ D2]	D3

ex ctl	no pl	elev br	mult ch	dis line	hom bd	finger	lg wdg	ex bar	ex bd scr
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

WATER

MORPHOLOGY

FEATURES

C	NID MAP #	NID #	TYPE	HT / LG (m)	mthd	PHOTO	COMMENTS	UTM
	93K.031		F	7		R 02 F 12	[illegible]	
			C	13		R__ F__	[illegible] - 19%	

FISH COLLECTION FORM

☐ LAKE ☒ STREAM ☐ WETLAND

4609277002330036300 0

☒ Y ☐ N

1 -

20000714 C06 SR, MJ ☐ RE-SAMPLE

SITE / METHOD

27	93K.031				EF 1				

FISH SUMMARY

27	EF 1	1	NFC			0					

SITE CARD

STREAM NAME (gazetted): (local):

WATERSHED CODE: [illegible]36300

NID MAP #: 93K.031 NID #:

REACH #: 1.1 - SITE #: 28 SITE G: ACCESS:

DATE: 20000714 TIME: 1315 AGENCY: CREW: FISH FORM: Y ☐ N ☐

CHANNEL	mthd								GRADIENT %	
CHANNEL WIDTH (m)	MS	2.1	1.8	1.4	1.9	1.7	1.7		12	
WETTED WIDTH (m)		"	"	"	"	"	"		[illegible]	[illegible]
RES. POOL DEPTH (m)		.30	.21	.26	.11	.16	.26		[illegible]	[illegible]

W. D. (m): .3 .3 .2 MS STAGE L M [✓ H] No Vis. Ch. ☐ Dry/Int. ☐ DW ☐ Tribs. ☐

COVER Total: A

Type	SWD	LWD	B	U	DP	OV	IV
AMT	T	S	S	N	D	N	N
LOC							

CROWN CLOSURE

0	1-20%	21-40%	41-70%	71-90%	> 90%
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

EMS: REQ #:

TEMP: 9 °C COND: - µS/cm

pH: 7.4 TURB: T M [✓ L] C

FLD SNS:

BED MATERIAL Dominant: C Subdom: G/B

D95 (cm): 40 D (cm): 10 Morph: CP

DISTURBANCE INDICATORS	beaver dam	aban ch	endbk	avul	SWD	LWD	jam
	O1	B1	B2	B3	D1	[✓ D2]	D3

ex ctl	no pl	elev br	mult ch	dis line	hom bd	finger	lg wdg	ex bar	ex bd scr
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

WATER

MORPHOLOGY

FEATURES

C	NID MAP #	NID #	TYPE	HT / LG (m)	mthd	PHOTO	COMMENTS	UTM
						R__ F__		
						R__ F__		
						R__ F__		
						R__ F__		

☐ LAKE ☒ STREAM ☐ WETLAND

4809277002330[illegible]

☒ Y ☐ N

1. -

20000714 C06 SR, MJ ☐ RE-SAMPLE

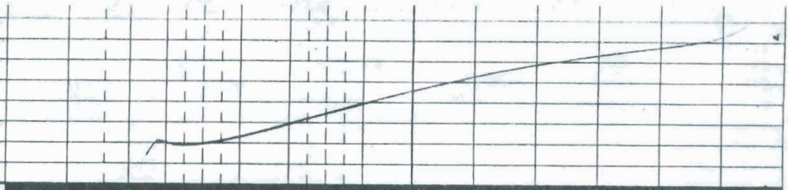
SITE / METHOD

28	93K.031				EF 1	9		L	

FISH SUMMARY

28	EF 1	1	NFC			0					

GEAR SPECIFICATIONS



ELECTROFISHER SPECIFICATIONS

28	GF	1	1	10:35	10:50	304	110	1.6	0	500	80	6	SK	12B

COMMENTS

- NO fish present above falls)

Rev. Apr. 1998 № 012994 CARD OF

HABITAT QUA

- poor spawning - lacks suitable gravels
- fair overwintering in few deep pools

FSZ ☐

PHOTO DOCUMENTATION

OP2	13	ST	U	- [illegible]

WILDLIFE

WILDLIFE OBSERVATIONS

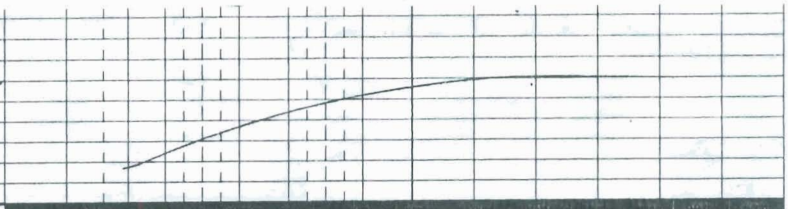
COMMENTS

C Site above falls
- better hab in more frequent boulder/LWD pool cover, but isolated
- cont./entrenched high flow through steep valley gully

C NFC (SG)

Rev. Apr. 1998

GEAR SPECIFICATIONS



ELECTROFISHER SPECIFICATIONS

27	EF	1	1	10:10	10:25	231	115	1.6	0	500	80	6	SK	12B

COMMENTS

NFC d/t low abundance in Main, but habitat is available and accessible

HABITAT QUALITY

- Mod. rearing for RB in dispersed pools, but high flows with avail. instream cover
- pools not deep enough for overwintering
- steeps no suitable spawning gravels

FSZ ☐

PHOTO DOCUMENTATION

OP2	10	ST	U	
OP2	11	ST	U	
OP2	12	ST	U	Photo of falls in [illegible]

WILDLIFE

WILDLIFE OBSERVATIONS

COMMENTS

C Site from previous [illegible]
- Resampled from 1999 Inventory
- high cascade flow through steep gully
- ext. LWD from valley wall windthrow, some providing

C good cover for RB
- falls in features downstream possible barrier - NFC above in 1999

Rev. Apr. 1998

SITE CARD

STREAM NAME | LOCAL: LMPW4B
WATERSHED CODE
NID MAP: [illegible]
REACH: 1 - | SITE: 29 | SITE G: 205, HC | ACCESS: V4
DATE: 2000 07 31 | TIME: 1045 | AGENCY: C016 | CREW: MJ, SR | FISH FORM: Y ☑ N ☐

CHANNEL	mthd							GRADIENT %	
CHANNEL WIDTH (m)	MS	1.6	1.1	0.7	1.8	1.3	1.2	AL	
WETTED WIDTH (m)	MS	0.8	0.7	0.6	1.0	1.5	0.4	3	4
RES. POOL DEPTH (m)	MS	0.05	0.04	0.09	0.14	0.14	0.03	;	5

W/Dp (m): 0.4, 0.5, 0.4, MS | STAGE: [✓ L] M H | No Vis. Ch. ☐ Dry/Int. ☐ DW ☐ Tribs. ☐

WATER: TEMP 10 °C T3 | COND. 140 µS/cm T4 | pH 8.0 P2 | TURB. T M L [✓ C] GE
FLD SNS: None
BED MATERIAL: Dominant F | Subdom C | D95 (cm) 8 | D (cm) 1 | Morph RP

COVER — Total: T

Type	SWD	LWD	B	U	DP	OV	IV
AMT	S	T	T	S	T	S	D
LOC	P	P	P	P	P	P	P

CROWN CLOSURE: 0 1 2 [✓ 3] 4 5
LWD FNC: N [✓ P] A | DIST: C [✓ E] | INSTREAM VEG: N A [✓ M] V
LB SHP: [✓ U] V S O | RB SHP: [✓ U] V S O
LB TEXTURE: [✓ F] [✓ G] [✓ C] B R A | RB TEXTURE: [✓ F] G [✓ C] B R A
LB RIP VEG: N G S [✓ C] D M W | RB RIP VEG: N G S [✓ C] D M W
LB STAGE: INIT SHR PS YF [✓ MF] NA | RB STAGE: INIT SHR PS YF [✓ MF] NA

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 R___ F___ R___ F___ | COMMENTS | UTM

Rev. Apr. 1998 № 020199 CARD OF

COMMENTS
Very few deeper areas for shelter.

ELECTROFISHER SPECIFICATIONS

29	EF 1	1	1045	1100	140	205	1.0	0	500	70	4	SR	12B

GEAR SPECIFICATIONS

SITE CARD

STREAM NAME | LOCAL: Locps 1
WATERSHED CODE
NID MAP: [illegible]
REACH: 1 - | SITE: 30 | SITE G: 100, GC | ACCESS: V4
DATE: 2000 07 12 | TIME: 1450 | AGENCY: C016 | CREW: SR, MJ | FISH FORM: Y ☒ N ☐

CHANNEL	mthd						GRADIENT %	
CHANNEL WIDTH (m)	HC	1.5	1.3	2.1	1.0	1.3	AL	
WETTED WIDTH (m)	HC	1.5	1.3	2.1	1.0	1.3	1	0.5
RES. POOL DEPTH (m)	MS	0.1	0.2	0.15	0.1		1	

W/Dp (m): 0.3, 0.4, 0.3, MS | STAGE: [✓ L] M H | No Vis. Ch. ☐ Dry/Int. ☐ DW ☐ Tribs. ☐

WATER: TEMP 12 °C T3 | COND. µS/cm | pH 6.8 P2 | TURB. T M L C
FLD SNS: None
BED MATERIAL: Dominant F | Subdom ND | D95 (cm) 0.01 | D (cm) 0.01 | Morph LC

COVER — Total: A

Type	SWD	LWD	B	U	DP	OV	IV
AMT	T	T	-	S	S	T	D
LOC							

CROWN CLOSURE: 0 1 2 [✓ 3] 4 5
LWD FNC: N [✓ P] A | DIST: C [✓ E] | INSTREAM VEG: N [✓ A] [✓ M] [✓ V]
LB SHP: [✓ U] V S O | RB SHP: [✓ U] V S O
LB TEXTURE: [✓ F] G C B R A | RB TEXTURE: [✓ F] G C B R A
LB RIP VEG: N G [✓ S] C D M W | RB RIP VEG: N G [✓ S] C D M W
LB STAGE: INIT SHR PS YF MF [✓ NA] | RB STAGE: INIT SHR PS YF MF [✓ NA]

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 R___ F___ R___ F___ | COMMENTS | UTM

FISH COLLECTION FORM

LOCAL: Lokos 1 | ☐ LAKE ☑ STREAM ☐ WETLAND
☒ Y ☐ N
REACH: 1 -
DATE: 2000 07 12 | AGENCY: C016 | CREW: SR, MJ | ☐ RE-SAMPLE

SITE / METHOD

30	[illegible]	EF 1	12	C

FISH SUMMARY

30	EF 1	1	NFC	D	

GEAR SPECIFICATIONS

ELECTROFISHER SPECIFICATIONS

30	EF 1	1	1450	1500	149	100	1.5	0	500	80	C	SR	RB

COMMENTS

HABITAT QUALITY

R - Poor - V. low flow, channel overgrown with ssr (mosses & algae) - anoxic water, murky channel, full of organics

S - none | not suitable RB hab at any time of

C - none | year, flows through swamp

FSZ ☐

PHOTO DOCUMENTATION

ROLL #	#	FOCAL	DIR	COMMENTS
OPZ	2	—	U	[illegible]

WILDLIFE

GROUP	WILDLIFE OBSERVATIONS	GROUP	WILDLIFE OBSERVATIONS

COMMENTS

C site 100 m d/s from deactivated Rd xing

C

56

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☒ Y ☐ N

1

20000731 | CO16 | MJSR | ☐ RE-SAMPLE

SITE / METHOD

29	[illegible]			EF 1	10	140	C

FISH SUMMARY

29	EF 1	1	NFC		0

HABITAT QUALITY

V. poor fish hab, channel filled with organics and freq moss, weeds, lacks good instream cover. Provides v. limited rearing hab only for RB but lack of spawning subst & good cover, deep pools, brisk flow unsuitable for RB use.

Hab peters out to [illegible] after 30 m from mouth, more organics & shallower.

FSZ ☐

PHOTO DOCUMENTATION

ROLL #	#	FOCAL	DIR	COMMENTS
OPZ	17	ST	U	1118 (cam bag)
OPZ	18	ST	D	1119 (boot)

WILDLIFE

GROUP	WILDLIFE OBSERVATIONS	GROUP	WILDLIFE OBSERVATIONS

COMMENTS

C site from Telkwa Rd xing

Stream does not provide hab to sustain potential RB population in LMPW4 wetland reach.

Rev. Apr. 1998

SITE CARD

(local) LMPIN36

NID MAP 93K.023

SITE G 110,284 ACCESS [illegible]

REACH 1 - SITE 31 FIELD UTM

DATE 2000 09 14 TIME 1230 AGENCY C016 CREW SR, MJ

FISH FORM Y☒ N☐

CHANNEL	mthd						
	MS	0.5	0.8	1.0	0.7	0.6	0.9
		.1	.17	.08	.19	.19	
	.1	.2					

STAGE L [✓ M] H

GRADIENT % AL | 1 | 1

No Vis. Ch. ☐ Dry/Int. ☐ DW ☐ Tribs. ☐

EMS | TEMP 7 °C | pH 7.1 | REQ # | COND — µS/cm | TURB T M L [✓ C]

FLD SNS N

BED MATERIAL Dominant I Subdom ORG

D95 (cm) 0.1 D (cm) 0.1 Morph LC

COVER Total T

Type	SWD	LWD	B	U	DP	OV	IV
AMT	T	N	N	S	D	S	T
LOC							

CROWN CLOSURE 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 | TEXTURE [✓ F] G C B R A | RIP VEG N G [✓ S] C D M W | STAGE INIT SHR PS YF MF [✓ NA]

RB 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]

7

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

C	NID MAP	NID #	TYPE	HT/LG (m)		PHOTO	COMMENTS	UTM
						R___ F___		

FISH COLLECTION FORM

Unnamed (local) LMPIN36 ☐ LAKE ☒ STREAM ☐ WETLAND

☒ Y ☐ N

Resamps 96

1 -

2000 09 14 C016 SR, MJ ☐ RE-SAMPLE

31	93K.023					EF 1	7	-	C	

31	EF 1	1	NFC			0			

SITE CARD

STREAM NAME Unnamed (local) PT1

WATERSHED CODE

ILP MAP # ILP # NID MAP # 93K.012 NID #

REACH # 1 - SITE # 32 FIELD UTM SITE LG 400-GE ACCESS V4

DATE 2000 10 18 TIME 1400 AGENCY C016 CREW FTJ, MJ FISH FORM Y☒ N☐

CHANNEL	mthd						
CHANNEL WIDTH (m)	MS	1.3	1.4	1.2	1.1	1.6	1.0
WETTED WIDTH (m)	MS	0.5	1.1	0.9	1.1	1.1	0.9
RES. POOL DEPTH (m)	MS	0.2	0.1	0.15	0.1	0.3	

W_B Dp (m) 0.2 0.2 0.3 MS STAGE L [✓ M] H

GRADIENT % AC | 3 | 4 | 2 | 4

No Vis. Ch. ☐ Dry/Int. ☐ DW ☐ Tribs. ☐

EMS | TEMP 4 °C T3 | pH 8.4 T3 | REQ # | COND 160 µS/cm SY | TURB [✓ CT] M L C

FLD SNS None

BED MATERIAL Dominant G Subdom C

D95 (cm) 30 D (cm) 2 Morph RP

COVER Total M

Type	SWD	LWD	B	U	DP	OV	IV
AMT	T	T	D	S	T	S	T
LOC							

CROWN CLOSURE 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 | TEXTURE [✓ F] [✓ G] [✓ C] B R A | RIP VEG N G [✓ S] C D M W | STAGE INIT SHR PS YF MF [✓ NA]

RB 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

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

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

FISH COLLECTION FORM

PT1 ☐ LAKE ☑ STREAM ☐ WETLAND

☑ Y ☐ N

1 -

2000 10 17 C016 MS, MJ ☐ RE-SAMPLE

32	93K.012					EF 1	5	160	N	

32	EFG	1	NFC			0			

GEAR SPECIFICATIONS

ELECTROFISHER SPECIFICATIONS

42	EF [illegible]	[illegible]	1400	1430	462	470	1.0	0	500	80	4	[illegible]	1?01

COMMENTS

HABITAT QUALITY

Low value RB hab., fast shallow, few [illegible] poor substrate mixed [illegible] in some undercut or shallow pools/cobble. access [illegible] 150. 460 m d/s from rd xing, to the confl. [illegible] 170 m d/s from rd xing) habitable. Hab. [illegible] deteriorates in wooded reach above confl. UTM 10.323195 6033174

FSZ ☐

PHOTO DOCUMENTATION

OP6	1	ST	U	1431 Cernbeip
OP6	2	ST	D	1438 casubeg

WILDLIFE

WILDLIFE OBSERVATIONS

COMMENTS

C site 450 m d/s from rd xing

Wefer nearby due to road runoff inflow.

- ~~[illegible] 380 m~~ n/s
- ~~[illegible]~~

S.4

Rev. Apr. 1998

GEAR SPECIFICATIONS

ELECTROFISHER SPECIFICATIONS

31	EF 11	1	1231	1245	239	200	0.7	0	500	80	6	SR	1255

COMMENTS

HABITAT QUALITY

- Trace of [illegible] RB habitat [illegible]
- [illegible] sp. substrate, no [illegible]

FSZ ☐

PHOTO DOCUMENTATION

OP2	15	ST	[illegible]	COMMENTS
OP2	16	ST	[illegible]	

WILDLIFE

WILDLIFE OBSERVATIONS

COMMENTS

C Site = [illegible]

1 high flow [illegible]

2 [illegible]

[illegible] - diss [illegible]

- [illegible] algae [illegible]

[illegible] EF for 2?? sec.

NFC-S6

Rev. Apr. 1998

SITE CARD

STREAM NAME (gaz'd) | (local) PT1

WATERSHED CODE

ILP MAP # | ILP # | NID MAP # 93K 042 | NID #

REACH # 2 | SITE # 2 | FIELD UTM | SITE G 250162 | ACCESS V4

DATE 2010 [illegible] 19 | TIME 1455 | AGENCY C016 | CREW MJ, MD | FISH FORM Y [✓] N ☐

CHANNEL	mthd							GRADIENT %	
CHANNEL WIDTH (m)	FS	0.5	0.6	0.5	0.6	0.2	0.5	AL	
WETTED WIDTH (m)	MS	0.2	0.3	[illegible]	0.4	[illegible]	0.4	5	8
RES. POOL DEPTH (m)	MS	[illegible]						10	9

W_B Dp (m) 0.1 0.1 0.1 MS | STAGE L M H | No Vis. Ch. ☐ Dry/Int. ☐ DW ☐ Tribs. ☐

COVER					Total	T	
Type	SWD	LWD	B	U	DP	OV	IV
AMT	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	D	T
LOC							

CROWN CLOSURE: 0 (0) | 1 (1-20%) | 2 (21-40%) | [✓ 3] (41-70%) | 4 (71-90%) | 5 (>90%)

LWD FNC N F A | DIST. C E | INSTREAM VEG N A [✓ M] V

	LB	RB
SHP	U V [✓ S] O	U V [✓ S] O
TEXTURE	F [✓ G] [✓ C] B R A	F [✓ G] [✓ C] B R A
RIP VEG.	N G [✓ S] C D M W	N G [✓ S] C D M W
STAGE	INIT SHR PS YF MF NA	INIT SHR PS YF MF NA

EMS | REQ #

TEMP 4 °C | COND 160 µS/cm

pH 8.1 | TURB. T M L [✓ C]

FLO SNS None

BED MATERIAL Dominant C | Subdom. G

D95 (cm) 15 | D (cm) 2 | Morph CP

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

C	NID MAP #	NID #	TYPE	HT / LG (m)	mthd	PHOTO	COMMENTS	UTM
						R___ F___		

FISH COLLECTION FORM

(local) 2-1 | ☐ LAKE ☑ STREAM ☐ WETLAND

☑ Y ☐ N

2 -

[illegible] | AGENCY C016 | CREW MJ, MJ | ☐ RE-SAMPLE

2-1	93K 042					EF 1	1	60	C

2-1	EF 1	1	NFC			0		

SITE CARD

STREAM NAME (gaz'd) X-ing 1 (0+450) | (local) PT

WATERSHED CODE 480-[illegible]

ILP MAP # | ILP # | NID MAP # [illegible] | NID #

REACH # 1 - | SITE # [illegible] | FIELD UTM | SITE G 250162 | ACCESS [illegible]

DATE 2010 08 25 | TIME 1240 | AGENCY C016 | CREW MJ, DV | FISH FORM Y [✓] N ☐

CHANNEL	mthd							GRADIENT %	
CHANNEL WIDTH (m)	MS	2.1	.9	1.2	1.7	1.3	1.1	AL	
WETTED WIDTH (m)	MS	1.2	.7	1.1	1.9	.6	1.5	1	2
RES. POOL DEPTH (m)	MS	.4	.3	.1	.2	.05		1	2

W_B Dp (m) .2 .1 .2 MS | STAGE L [✓ M] H | No Vis. Ch. ☐ Dry/Int. ☐ DW ☐ Tribs. ☐

COVER					Total	A	
Type	SWD	LWD	B	U	DP	OV	IV
AMT	T	T	T	S	D	S	T
LOC							

CROWN CLOSURE: 0 (0) | 1 (1-20%) | [✓ 2] (21-40%) | 3 (41-70%) | 4 (71-90%) | 5 (>90%)

LWD FNC N [✓ F] A | DIST. C [✓ E] | INSTREAM VEG N A M [✓ V]

	LB	RB
SHP	[✓ U] V S O	U [✓ V] S O
TEXTURE	[✓ F] G C [✓ B] R A	[✓ F] G C [✓ B] R A
RIP VEG.	N G [✓ S] C D M W	N G [✓ S] C D M W
STAGE	INIT [✓ SHR] PS YF MF NA	INIT [✓ SHR] PS YF MF NA

EMS | REQ #

TEMP [illegible] °C | COND [illegible] µS/cm

pH [illegible] | TURB. T M L [✓ C]

FLO SNS N

BED MATERIAL Dominant F | Subdom. G

D95 (cm) 65 | D (cm) .5 | Morph RP

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

C	NID MAP #	NID #	TYPE	HT / LG (m)	mthd	PHOTO	COMMENTS	UTM
						R___ F___		
						R___ F___		

FISH COLLECTION FORM

Unnamed trib 1 | PT | ☐ LAKE ☑ STREAM ☐ WETLAND

4[illegible]

☑ Y ☐ N

1 -

2010 08 25 | AGENCY C016 | CREW MS, DV | ☐ RE-SAMPLE

						MTD / NO.		STREAM CONDITION		COMMENTS
34	93K 042					EF 1	11		C	

										COMMENTS
34	EF 1	1	RB	A		1	160	160	R	
34	EF 1	1	RB	J		8	38	90	R	
34	EF 1	1	RB	F		3	25	36	R	

NET / TRAP SPECIFICATIONS

GEAR SPECIFICATIONS

C

ELECTROFISHER SPECIFICATIONS

341	25	1	12.50	13.10	184	220		0	400	60	4	SR	28

COMMENTS

25, 30, 32, 70, 41, 160, 72, 87, 82, 90, 36, 52, 38, 56
• Cannot figure out species of small (below 60) fish, but all bigger ones were definitely RB (does not even shows hybrid morphology)

HABITAT QUALITY

R. very good - deep pools, [illegible].
S. [illegible]
S. good [illegible]

FSZ ☐

PHOTO DOCUMENTATION

OP3	22	34	2	13.00
[illegible]	[illegible]	34	0	[illegible]

WILDLIFE

COMMENTS

C ~~222~~ [illegible]
[illegible] 222 [illegible]

C [illegible]

NET / TRAP SPECIFICATIONS

GEAR SPECIFICATIONS

C

ELECTROFISHER SPECIFICATIONS

7.6	8.1	1	1455	1520	107	250	0.3	0	500	80	4	SR	12B

COMMENTS

Difficult EF, [illegible] not enough room for [illegible].

HABITAT QUALITY

L.F.D. seasonal likely, tiny [illegible] hollow bottom in [illegible], [illegible]
could [illegible] [illegible] extremely steep [illegible]
[illegible] dabbler.

FSZ ☐

PHOTO DOCUMENTATION

OP6	3	ST	D	1518	Peter Jester
OP6	4	ST	D	1519	Com Dep

WILDLIFE

COMMENTS

C [illegible] from the [illegible]

C

Rev. Apr. 1988

SITE CARD

STREAM NAME (gaz.) (local) PT-2
WATERSHED CODE
ILP MAP # ILP # NID MAP # 93K.012 NID #
REACH # 1 - SITE # 35 FIELD UTM 10 372005 6053620 GPS SITE LG 160 GE ACCESS [illegible]
DATE 2000 10 18 TIME 1515 AGENCY C016 CREW SR MG FISH FORM Y ☒ N ☐

CHANNEL	mthd							GRADIENT %	
CHANNEL WIDTH (m)	MS	0.6	0.4	0.9	0.8	0.7	0.8	AL	
WETTED WIDTH (m)		"	"	0.7	"	0.6	0.5	12	8
RES. POOL DEPTH (m)		.09	.09	.12	.15	.06		9	10

Wb Dp (m) .1 .1 .1 .1 MS STAGE L M [✓ H]
No Vis. Ch. ☐ Dry/Int. ☐ DW ☐ Tribs. ☐

WATER
EMS REQ #
TEMP 4.5 °C TS COND 50 µS/cm
pH 9.5 P2 TURB T [✓ M] L C

MORPHOLOGY
FLO SNS N
BED MATERIAL Dominant C Subdom G
D95 (cm) 15 D (cm) 3 Morph CP

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

COVER Total T

Type	SWD	LWD	B	U	DP	OV	IV
AMT	T	T	S	T	D	T	N
LOC	P	P	P	P	P	P	

CROWN CLOSURE 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

FEATURES

C	NID MAP #	NID #	TYPE	HT / LG (m)	mthd	PHOTO	COMMENTS	UTM
						R___ F___		
						R___ F___		

FISH COLLECTION FORM

(local) P-T2 ☐ LAKE ☒ STREAM ☐ WETLAND
REACH 1 - ☒ Y ☐ N
2000 10 18 C016 SR MG ☐ RE-SAMPLE

SITE / METHOD

35	093K.012		10 372005 6053620 GPS	EF 1	4.5	50	M		

FISH SUMMARY

35	EF 1	1	NFC			0					

SITE CARD

STREAM NAME (gaz.) (local) PT-3
WATERSHED CODE
ILP MAP # ILP # NID MAP # 93K.012 NID #
REACH # 1 - SITE # 36 FIELD UTM 10 371456 6033851 GPS SITE LG 100 GE ACCESS FT
DATE 2000 10 18 TIME 1445 AGENCY C016 CREW SR MG FISH FORM Y ☐ N ☐

CHANNEL mthd
CHANNEL WIDTH (m) N/A
WETTED WIDTH (m)
RES. POOL DEPTH (m)
GRADIENT % AL 2 1
Wb Dp (m) STAGE L M [✓ H]
No Vis. Ch. ☒ Dry/Int. ☐ DW ☐ Tribs. ☐

WATER
EMS REQ #
TEMP °C COND µS/cm
pH TURB T M L C

MORPHOLOGY
FLO SNS
BED MATERIAL Dominant Subdom
D95 (cm) D (cm) 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

COVER Total

Type	SWD	LWD	B	U	DP	OV	IV
AMT							
LOC							

CROWN CLOSURE 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

FEATURES

C	NID MAP #	NID #	TYPE	HT / LG (m)	mthd	PHOTO	COMMENTS	UTM
						R___ F___		
						R___ F___		
						R___ F___		
						R___ F___		

WATERSHED CODE
ILP MAP # ILP # NID MAP # 93K.012 NID #
REACH # 1 - SITE # 37 FIELD UTM 10 372820 6034991 GPS SITE LG 60 GE ACCESS FT
DATE 2000 10 18 TIME 1610 AGENCY C016 CREW SR MG FISH FORM Y ☐ N ☒

CHANNEL mthd GRADIENT %
CHANNEL WIDTH (m)
WETTED WIDTH (m)
RES. POOL DEPTH (m)
Wb Dp (m) STAGE L M H
No Vis. Ch. ☒ Dry/Int. ☐ DW ☐ Tribs. ☐

WATER
EMS REQ #
TEMP °C COND µS/cm
pH TURB T M L C

MORPHOLOGY
FLO SNS
BED MATERIAL Dominant Subdom
D95 (cm) D (cm) 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]

COVER Total

Type	SWD	LWD	B	U	DP	OV	IV
AMT							
LOC							

CROWN CLOSURE 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

FEATURES

C	NID MAP #	NID #	TYPE	HT / LG (m)	mthd	PHOTO	COMMENTS	UTM
						R___ F___		
						R___ F___		
						R___ F___		
						R___ F___		

HABITAT QUALITY

NONC = [illegible] [illegible] no visible channel present.

FSZ ☐

PHOTO DOCUMENTATION

ROLL		CODE	DIR	COMMENTS
33	11	ST	U	(cam bag)
33	11	ST	D	(M6) taken from R/L standing - note channel [illegible] [illegible] in background

WILDLIFE

GROUP	WILDLIFE OBSERVATIONS	GROUP	WILDLIFE OBSERVATIONS

COMMENTS

C Site [illegible]
No defined channel present & no [illegible]
creek disperses from [illegible]
[illegible] R/L into large forest [illegible]
with no continuous flowed channel bed &
banks. No fish habitat

C and [illegible] [illegible] to Pinkut. R/L
was dry during the high flow
period - No O.W. habitat

NCD

Rev. Apr. 1998

HABITAT QUALITY

FSZ ☐

PHOTO DOCUMENTATION

ROLL		CODE	DIR	COMMENTS
33	2	ST	U	(SR) note moss puddles (d/s from road)
OP4	1	ST	U	(SR) (u/s from road.

WILDLIFE

GROUP	WILDLIFE OBSERVATIONS	GROUP	WILDLIFE OBSERVATIONS

COMMENTS

C Site = VTM = 100 m d/s from road
- "creek" lacks continuous channel bed/banks
and has no fish habitat. Drainage
consists of water which disperses and
accumulates into mossy floor with occasional
disconnected moss puddles, d/s from road

C No continuity to Pinkut C. or
fish bearing trib. Seds from
road would be captured in mossy
forest floor. Water barely gets
through!

NCD

Rev. Apr. 1998

GEAR SPECIFICATIONS

ELECTROFISHER SPECIFICATIONS

[illegible]	Gr. 11	1	15:15	15:15	198	160	0.6	0	~100	80	6	Sx	[illegible]

COMMENTS

- Brisk flow, little I.S.V. - shocked all possible habitat, but no fish & no preferable fish habitat.

HABITAT QUALITY

Overall: very poor. Moderately steep, small gully flow over mossy cobble/organics.
Accessible based on gradient, but no fisheries habitat. Pools too shallow for
fish and flow is fast with no instream cover.
No sig. spawning, NO O.W.

FSZ ☐

PHOTO DOCUMENTATION

ROLL		CODE	DIR	COMMENTS
31	25	ST	U	(cam bag)
33	1	ST	D	(cam bag)

WILDLIFE

GROUP	WILDLIFE OBSERVATIONS	GROUP	WILDLIFE OBSERVATIONS

COMMENTS

C Site = VTM = [illegible]
Non-fish bearing but continuous
channel to Pinkut. At time of
sampling, flow was high d/t recent
heavy rain. Turbid water d/s
from road observed right to Pinkut

C Short section, but sed deposition likely!

NFC - S6

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SITE CARD

STREAM NAME (gaz)		(local)	P14
WATERSHED CODE			
ILP MAP #		ILP #	
NID MAP #	93K 042	NID #	
REACH #	2 -	SITE #	38
FIELD UTM	10 | 522235 | 6031952 | GPS	SITE LG	100 | GE
ACCESS	[illegible]		
DATE	2010|10|18	TIME	16|15
AGENCY	C016	CREW #	SR | MG
FISH FORM	Y☐ N/A		

CHANNEL

	mthd							GRADIENT %	
CHANNEL WIDTH (m)	MS	1.1	0.9	0.6	0.9	0.7	1.0	A	
WETTED WIDTH (m)	↓	0	0	0	0	0	0	7	7
RES. POOL DEPTH (m)	↓	0						8	6

W. Dp (m) .2 | .2 | .2 | MS STAGE [✓ L] M H No Vis. Ch. ☐ [✓ Dry/Int.] ☒ 1 DW ☐ Tribs. ☐

COVER 2 Total N

Type	SWD	LWD	B	U	DP	OV	IV
AMT							
LOC							

CROWN CLOSURE: 0 (0), 1 (1-20%), 2 (21-40%), [✓ 3] (41-70%), 4 (71-90%), 5 (> 90%)

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

WATER

EMS

TEMP ~~°C~~ REQ #

pH ~~ ~~ COND ~~µS/cm~~

TURB ~~T M L C~~

MORPHOLOGY

FLD SNS Scour

BED MATERIAL Dominant C Subdom G

D95 (cm) 75 D (cm) 10 Morph CP

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)	mthd	PHOTO	COMMENTS	UTM
						R___ F___		
						R___ F___		

SITE CARD

STREAM NAME (gaz)	2-230 J. Imp 3	(local)	P121
WATERSHED CODE			
ILP MAP #		ILP #	
NID MAP #	93K 042	NID #	
REACH #	3 -	SITE #	39
FIELD UTM		SITE LG	
ACCESS			
DATE	2010|10|21	TIME	13|25
AGENCY	C016	CREW #	MD | DV
FISH FORM	Y☒ N☐		

CHANNEL NCD

	mthd							GRADIENT %	
CHANNEL WIDTH (m)	NS								
WETTED WIDTH (m)	NS								
RES. POOL DEPTH (m)	NS								

W. Dp (m) | | | NS STAGE L M H No Vis. Ch. ☐ Dry/Int. ☐ DW ☐ Tribs. ☐

COVER Total

Type	SWD	LWD	B	U	DP	OV	IV
AMT							
LOC							

CROWN CLOSURE: 0 (0), 1 (1-20%), 2 (21-40%), 3 (41-70%), 4 (71-90%), 5 (> 90%)

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

WATER

EMS

TEMP °C REQ #

pH COND µS/cm

TURB T M L C

MORPHOLOGY

FLD SNS

BED MATERIAL Dominant Subdom

D95 (cm) D (cm) 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)	mthd	PHOTO	COMMENTS	UTM
						R___ F___		
						R___ F___		

SITE CARD

STREAM NAME (gaz)	20m upstream	(local)	P15
WATERSHED CODE	[illegible]		
ILP MAP #		ILP #	
NID MAP #	93K 042	NID #	
REACH #	1 -	SITE #	40
FIELD UTM	10 | 522272 | 6035487 | GPS	SITE LG	100 | GE
ACCESS	[illegible]		
DATE	2010|10|18	TIME	17|00
AGENCY	C016	CREW	SR | MG
FISH FORM	Y☒ N☐		

CHANNEL

	mthd							GRADIENT %	
CHANNEL WIDTH (m)	MS	1.1	1.9	1.0	1.4	1.6	1.2	AC	
WETTED WIDTH (m)	↓	1.0	1.9	1.0	1.0	1.2	1.2	5	4
RES. POOL DEPTH (m)	↓	.18	.16	.21	.17	.16		6	2

W. Dp (m) .3 | .2 | .3 | MS STAGE L [✓ M] H No Vis. Ch. ☐ Dry/Int. ☐ DW ☐ Tribs. ☐

COVER Total M

Type	SWD	LWD	B	U	DP	OV	IV
AMT	T	T	T	S	D	T	N
LOC	P	P	P	P	P	P	

CROWN CLOSURE: 0 (0), 1 (1-20%), 2 (21-40%), [✓ 3] (41-70%), 4 (71-90%), 5 (> 90%)

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

WATER

EMS REQ #

TEMP 4.0 °C 93 COND 80 µS/cm SI

pH 8.4 P2 TURB T M [✓ L] C GE

MORPHOLOGY

FLD SNS N

BED MATERIAL Dominant C Subdom G

D95 (cm) 70 D (cm) 4 Morph CP

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)	mthd	PHOTO	COMMENTS	UTM
						R___ F___		
						R___ F___		
						R___ F___		
						R___ F___		

P15 ☐ LAKE ☒ STREAM ☐ WETLAND

[illegible]

☒ Y ☐ N

1 -

2010|10|18 C016 SR | MG ☐ RE-SAMPLE

SITE / METHOD

40	93K 042		10 | 522272 | 6035487 | GPS	EF | 1	11	80	L		

FISH SUMMARY

40	EF | 1	1	NFC			0			

GEAR SPECIFICATIONS

ELECTROFISHER SPECIFICATIONS

110	E41'	1	1700	1720	204	150	1.1	0	700	80	6	58	12E

COMMENTS

HABITAT QUALITY

V. nice overall fish habitat for stream [illegible] [illegible]
- Some good spawning in occasional gravel pockets, but nothing significant
- Some O.W. good flow, but lacks deep refuge pools

- Easily and likely accessible from Pinkut C. for RB!

FSZ ☐

PHOTO DOCUMENTATION

ROLL	FR	FOC LG	DIR	COMMENTS
33	7	55	U	(cam bag)
33	6	55	D	(cam bag)

WILDLIFE

GROUP	WILDLIFE OBSERVATIONS	GROUP	WILDLIFE OBSERVATIONS

COMMENTS

C Site: VIM - mouth
Water slightly turbid from recent rain / snowmelt, from road [illegible].
Evidence that sediment transport [illegible] and dries occur, right to Pinkut C.
Nice creek, nice RB/CT habitat

C TPC depends on its merits for construction here.

HABITAT QUALITY

Upstream of the flooded wetland with [illegible] willow.
D/s from [illegible] [illegible] no channel d/s

FSZ ☐

PHOTO DOCUMENTATION

ROLL	FR	FOC LG	DIR	COMMENTS
OP4	2	St	U	13:35 (flooded wetland u/s - taken from the rd [illegible])
OP4	3	St	D	13:36 (d/s - pond no channel — [illegible] [illegible])

WILDLIFE

GROUP	WILDLIFE OBSERVATIONS	GROUP	WILDLIFE OBSERVATIONS

COMMENTS

C u/s + d/s from the rd

C NCD

HABITAT QUALITY

NONE - bone dry, ∴ no O.W. hab, no suitable spawning gravels observed and moderately steep with v. low instream cover during high flow for seasonal rearing. No connection to Pinkut regardless

Site

FSZ ☐

PHOTO DOCUMENTATION

ROLL	FR	FOC LG	DIR	COMMENTS
33	5	55	U	] channel not really visible → moss-covered, small - photos
33	6	55	D	show confined gully ↓ (cam bag)

WILDLIFE

GROUP	WILDLIFE OBSERVATIONS	GROUP	WILDLIFE OBSERVATIONS

COMMENTS

C: Site: VIM: search boundary
Flow is low/dry now but most other sites in area in mod-high slope d/t recent heavy rain. Prone to high flow events as evidenced by channel scour and gravel/cobble debris deposition onto fan at top of R.1

C NS - S6
No connection to Pinkut d/t lack of defined channel in R.1, no perennial habitat present. Creek is high flow/ephemeral, confined gully, meltwater channel / absent, sediment, [illegible] [illegible]

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SITE CARD

STREAM NAME (gaz) [illegible] 34400 (local) [illegible]
WATERSHED CODE [illegible]
NID MAP # [illegible]
REACH # 2 - SITE # 41 SITE LG 130 [illegible] ACCESS [illegible]
DATE [illegible] TIME [illegible] AGENCY C016 CREW [illegible] FISH FORM Y ☒ N ☐

CHANNEL	mthd					
CHANNEL WIDTH (m)	MS	.7	.4	.3	1.0	.7
WETTED WIDTH (m)	MS	.5	.9	.2	.9	.6
RES POOL DEPTH (m)	MS	[illegible]	.08	.05	.02	.04

Wb Dp (m) .05 .05 .05 [illegible] STAGE [✓ L] M H
No Vis. Ch. ☐ Dry/Int. ☐ DW ☐ Tribs. ☐
EMS TEMP 11 °C pH 8.7 COND µS/cm TURB T [✓ M] C
FLD SNS — No
BED MATERIAL Dominant Subdom D95 (cm) D (cm) Morph

COVER Total L

Type	SWD	LWD	B	U	DP	OV	IV
AMT	S	T	–	–	T	D	S
LOC							

CROWN CLOSURE 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 [✓ 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___		

FISH COLLECTION FORM

GAZETTED NAME [illegible] [illegible] ☐ LAKE ☒ STREAM ☐ WETLAND
WATERSHED CODE
☒ Y ☐ N
REACH 2 -
DATE [illegible] C016 MJ, DV ☐ RE-SAMPLE

SITE / METHOD

41	[illegible]			EF 1	1		M

FISH SUMMARY

41	EF 1		NFP	

SITE CARD

STREAM NAME (gaz) [illegible] (local) 176
WATERSHED CODE [illegible]
NID MAP # [illegible] NID #
REACH # 1 - SITE # 42 FIELD UTM 10 [illegible] GPS SITE LG 380 [illegible] ACCESS [illegible]
DATE [illegible] TIME 1215 AGENCY [illegible] CREW MJ, MJ FISH FORM Y ☒ N ☐

CHANNEL	mthd							GRADIENT %
CHANNEL WIDTH (m)	MS	0.8	[illegible]	1.3	[illegible]	0.8	1.0	[illegible]
WETTED WIDTH (m)	MS	0.7	[illegible]	1.2	0.7	0.9	1.0	6 8
RES POOL DEPTH (m)	MS	[illegible]	.22	.25	.21	.25		10 4

Wb Dp (m) [illegible] STAGE L [✓ M] H
No Vis. Ch. ☐ Dry/Int. ☐ DW ☐ Tribs. ☐
EMS TEMP 2 °C T3 COND 50 µS/cm 54 pH 7.9 PE TURB T M [illegible] C Ge
FLD SNS None
BED MATERIAL Dominant G Subdom S D95 (cm) 40 D (cm) 4 Morph [illegible]

COVER Total T

Type	SWD	LWD	B	U	DP	OV	IV
AMT	T	S	S	D	S	T	T
LOC	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	P	P

CROWN CLOSURE 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 [✓ 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___		

FISH COLLECTION FORM

PT6 ☐ LAKE ☒ STREAM ☐ WETLAND
[illegible]
☐ Y ☐ N
OP0000 1 -
DATE [illegible] C016 MJ, MJ ☐ RE-SAMPLE

SITE / METHOD

42	[illegible]		10 [illegible] GPS	EF 1	2	30	[illegible]

FISH SUMMARY

42	EF 1	1	NFC			0

GEAR SPECIFICATIONS

ELECTROFISHER SPECIFICATIONS

42	EF 1	1	1215	1275	416	360	1 0	0	500	60	6	SR	12B

COMMENTS

HABITAT QUALITY

Good [illegible] habitat, likely used in spring, summer & fall.
R - [illegible] in fairly diverse cover and easily accessible from Pinkut C.
S - G abundant in patches with slow flowing steps and good holding places. D - habitat too shallow → Pinkut C

FSZ ☐

PHOTO DOCUMENTATION

				COMMENTS
OP6	8	ST	U	1232 [illegible]
OP8	9	ST	D	1233 [illegible]

WILDLIFE

GROUP	WILDLIFE OBSERVATIONS	GROUP	WILDLIFE OBSERVATIONS

COMMENTS

C Site [illegible] [illegible] [illegible]
Nice habitat to 380 m u/s from mouth. Then C flattens out with shallow meandering channel (UTM 10.319772.603[illegible])
EF [illegible] see NE?

C

NET / TRAP SPECIFICATIONS

C

GEAR SPECIFICATIONS

ELECTROFISHER SPECIFICATIONS

41	EF 1	1	1352	1410	48	130		0	500	60	1	SR	[illegible]

COMMENTS

No way fish would utilize this habitat.

HABITAT QUALITY

R - [illegible] - no flow throughout the year, [illegible] low quality water, [illegible] all kinds of [illegible] well developed algae - R [illegible] but [illegible] [illegible] potential
No S, O

FSZ ☐

PHOTO DOCUMENTATION

				COMMENTS
OP[illegible]	4	ST	D	14:00
GP[illegible]	5	ST	U	14:[illegible]

WILDLIFE

GROUP	WILDLIFE OBSERVATIONS	GROUP	WILDLIFE OBSERVATIONS

COMMENTS

C Ends [illegible] u/s to the beginning of the swamp.
[illegible] swampy [illegible].

C

56

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SITE CARD

STREAM NAME (gaz) Unnamed (local) PT6
WATERSHED CODE 4|8|0|9|7|7|1|0|0|7|6|1|0|0
ILP MAP# ILP# NID MAP# 93K.042 NID#
REACH# 2 - SITE# 43 FIELD UTM SITE LG 235 HC ACCESS VU
DATE 2000|10|19 TIME 1|2|4|0 AGENCY C016 CREW MJ, MJ FISH FORM Y☐ N☐

CHANNEL	mthd								GRADIENT %	
CHANNEL WIDTH (m)	HC	3.6	2.4	1.3	3.1	2.5	1.8		HC	
WETTED WIDTH (m)	HC	3.6	2.4	1.3	3.1	2.5	1.8		0.5	0
RES. POOL DEPTH (m)	MS	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		1	0.5

W_b D_b (m) 2.1 | 0.1 | 0.1 | MS STAGE L M [✓ H]
No Vis. Ch. ☐ Dry/Int. ☐ DW ☐ Tribs. ☐

EMS TEMP 2 °C TS REQ# COND 32 µS/cm SA
pH 7.9 P2 TURB T M [✓ L] C SE
FLD SNS None
BED MATERIAL Dominant F Subdom N/A
D95 (cm) 0.01 D (cm) 0.01 Morph LC

COVER Total A

Type	SWD	LWD	B	U	DP	OV	IV
AMT	S	N	N	N	N	D	T
LOC	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

CROWN CLOSURE 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] 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]
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)	mthd	PHOTO	COMMENTS	UTM
						R___ F___		
						R___ F___		

SITE CARD

STREAM NAME (gaz) x-ing 5 5+460 - upstream (local) PT6
WATERSHED CODE 4|8|0|[illegible]|0|7|6|1|0|0
ILP MAP# ILP# NID MAP# 93K.042 NID#
REACH# 2 - SITE# 111 FIELD UTM SITE LG 180 GC ACCESS [illegible]
DATE 2000|08|25 TIME 1|4|2|0 AGENCY C016 CREW [illegible], PV FISH FORM ~~Y~~ N☐

CHANNEL	mthd								GRADIENT %	
CHANNEL WIDTH (m)	MS	NVC								
WETTED WIDTH (m)	MS									
RES. POOL DEPTH (m)	MS									

W_b D_b (m) MS STAGE L M H
[✓ No Vis. Ch.] ☐ Dry/Int. ☐ DW ☐ Tribs. ☐

EMS TEMP °C REQ# COND µS/cm
pH TURB T M L C
FLD SNS —
BED MATERIAL Dominant F Subdom
D95 (cm) D (cm) Morph

COVER Total

Type	SWD	LWD	B	U	DP	OV	IV
AMT							
LOC							

CROWN CLOSURE 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 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
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)	mthd	PHOTO	COMMENTS	UTM
						R___ F___		
						R___ F___		

SITE CARD

STREAM NAME (gaz) x-ing 6 6+810 (local) PT-7
WATERSHED CODE
ILP MAP# ILP# NID MAP# 93K.042 NID#
REACH# 1 - SITE# 45 FIELD UTM SITE LG 110 GC ACCESS Gd
DATE 2000|08|25 TIME 1|4|4|5 AGENCY C016 CREW MJ, DV FISH FORM Y☐ N☐

CHANNEL	mthd								GRADIENT %	
CHANNEL WIDTH (m)	MS	.9	–	.4	.3	–	.3			
WETTED WIDTH (m)	MS	.9	–	.1	.3	–	.1		1	3
RES. POOL DEPTH (m)	MS	.1	–	.02	.1	–	.05		4	2

W_b D_b (m) .05 | .05 | .03 | MS STAGE L M H
No Vis. Ch. ☐ Dry/Int. ☐ DW ☐ Tribs. ☐

EMS TEMP 10 °C REQ# COND µS/cm
pH 8.6 TURB T M L C
FLD SNS —
BED MATERIAL Dominant F Subdom
D95 (cm) .1 D (cm) .01 Morph RP

COVER Total L

Type	SWD	LWD	B	U	DP	OV	IV
AMT	T	S	–	D	T	T	–
LOC							

CROWN CLOSURE 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 [✓ 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
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)	mthd	PHOTO	COMMENTS	UTM
						R___ F___		

SITE CARD

STREAM NAME (gaz) T-ing 7 7+620 (local) PT8
WATE[redacted]
ILP MAP# ILP# NID MAP# 93K.041 NID#
REAC[redacted] 1 - SITE# 116 FIELD UTM SITE LG 300 GC ACCESS VU
DATE 2000|08|25 TIME 1|5|1|5 AGENCY C016 CREW MJ, DV FISH FORM Y☐ N☒

CHANNEL	mthd								GRADIENT %	
CHAN[redacted]	MS	NCD ✓								
WETT[redacted]	MS									
RES. POOL DEPTH (m)	MS									

W_b D_b (m) MS STAGE [✓ L] M H
No Vis. Ch. ✓ Dry/Int. ☐ DW ☐ Tribs. ☐

EMS TEMP °C REQ# COND µS/cm
pH TURB T M L C
FLD SNS
BED MATERIAL Dominant Subdom
D95 (cm) D (cm) Morph

COVER Total

Type	SWD	LWD	B	U	DP	OV	IV
AMT							
LOC							

CROWN CLOSURE 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 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
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)	mthd	PHOTO	COMMENTS	UTM
						R___ F___		
						R___ F___		
						R___ F___		

HABITAT Q

[illegible] channel [illegible] [illegible] [illegible] [illegible] due [illegible] the
main water supplier.
[illegible] [illegible] channel [illegible] wetlands, [illegible], [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] C. [illegible] [illegible] could [illegible] [illegible] [illegible]

FSZ ☐

PHOTO DOCUMENTATION

ROLL	[illegible]	FOCAL	DIR	COMMENTS
OP4	11	14	U	15,17
OP4	12	14	D	15,18

WILDLIFE

GROUP	WILDLIFE OBSERVATIONS	GROUP	WILDLIFE OBSERVATIONS

COMMENTS

C

@ 12m d/s from rd → to 11m u/s from rd,

Where is the CCT

HABITAT QUALITY

R [illegible] [illegible] [illegible] beginning of the site - now converted [illegible]
only [illegible] [illegible]
No S, O
- [illegible] [illegible], [illegible], [illegible], [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] but [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible], [illegible] 15% [illegible] [illegible] [illegible] [illegible] isolated [illegible] [illegible] [illegible]

FSZ ☐

PHOTO DOCUMENTATION

ROLL	[illegible]	FOCAL	DIR	COMMENTS
OP4	9	34	U	14,37 D/s from rd channel developed [illegible] [illegible] [illegible] [illegible] into small wetland where channel [illegible] into [illegible] depressions in the ground; High washout at the rd.
OP4	10	34	D	14,38

WILDLIFE

GROUP	WILDLIFE OBSERVATIONS	GROUP	WILDLIFE OBSERVATIONS

COMMENTS

C

@ u/s from rd [illegible] 110m

Borderline channel. At [illegible] [illegible] [illegible] not developed, creek flows (if H₂O) through forest floor. Then [illegible] [illegible] [illegible] very dropping channel again

Not [illegible] only 2 places where [illegible] [illegible] [illegible] [illegible] [illegible]

S6

HABITAT QUALITY

No continuous banks, no [illegible] substrate.
[illegible] [illegible] depressions in the valley floor, filled with potholes with [illegible], [illegible] etc.

FSZ ☐

PHOTO DOCUMENTATION

ROLL	[illegible]	FOCAL	DIR	COMMENTS
OP4	6	50	U	14,3[illegible]
OP4	7	34	D	[illegible]
[illegible]	[illegible]	34	D	14,43 (d/s [illegible] rd marginal channel.

WILDLIFE

GROUP	WILDLIFE OBSERVATIONS	GROUP	WILDLIFE OBSERVATIONS

COMMENTS

C

@ rd [illegible] u/s for [illegible]

D/s from rd channel ([illegible]) with [illegible] [illegible] [illegible] - [illegible], [illegible], [illegible] with no habitat potential - bed [illegible] [illegible] rd washout; [illegible], [illegible] [illegible] [illegible] [illegible], [illegible], OV.

HABITAT QUALITY

NFH - Shallow stream, dissipating through wetland located [illegible]9m d/s from rd xing, creates many mudholes barely 'connected' by channel, however @ high flow pools are connected and w [illegible].
Lacks O, ISC for R & Gravel for S. (inorganic Gw)

FSZ ☐

PHOTO DOCUMENTATION

ROLL	[illegible]	FOCAL	DIR	COMMENTS
CP6	12	35	U	1257 Mac
CP6	11	55	X	1259 Mac

WILDLIFE

GROUP	WILDLIFE OBSERVATIONS	GROUP	WILDLIFE OBSERVATIONS

COMMENTS

C

Site [illegible] from [illegible] R [illegible]

Rd reconstruction [illegible] impact [illegible] due to [illegible] settlement in [illegible] d/s. However even this reconstr. should be done in driest season.

S6

SITE CARD

STREAM NAME: Forgie C.
WATERSHED CODE: 1803740009520091900091.00
NID MAP #: 93K.031
[illegible]: 93K.031
REACH #: –
SITE: 47
SITE LG: [illegible]
ACCESS: 17
DATE: 2000 [illegible]
TIME: 1420
AGENCY: C010
CREW: AJ, PV
FISH FORM: Y☒ N☐

CHANNEL	mthd								GRADIENT	
CHANNEL WIDTH (m)	MS	2.8	1.3	2.0	2.7	2.1			AV	
WETTED WIDTH (m)	MS	.	.4	1	[illegible]	[illegible]		.	2	2
RES. POOL DEPTH (m)	MS	.1	.03	..	.05	.15				3
Wb Dp (m)	.15	.2	.18	STAGE: [✓ L] M H						

No Vis. Ch. ☐ Dry/Int. ☒ DW ☐ Tribs. ☐

COVER Total: n

Type	SWD	LWD	B	U	DP	OV	IV
AMT	T	S	B	T	D	T	—
LOC							

CROWN CLOSURE: 0 (0) 1 (1-20%) 2 (21-40%) [✓ 3] (41-70%) 4 (71-90%) 5 (> 90%)

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 (LB): [✓ F] [✓ G] C B R A
TEXTURE (RB): [✓ F] [✓ G] C B R A
RIP VEG (LB): N G [✓ S] C [✓ D] M W
RIP VEG (RB): N G [✓ S] C D M W
STAGE (LB): INIT [✓ SHR] PS YF MF NA
STAGE (RB): INIT SHR [✓ PS] YF MF NA

EMS:
REQ #:
TEMP: 12 °C
COND: 150 µS/cm
pH: 8.4
TURB: T M L [✓ C]
FLD SNS:

BED MATERIAL Dominant: C
Subdom: G
D95 (cm): 24
D (cm): .5
Morph: R-RP

DISTURBANCE INDICATORS	beaverdam	aban ch	erodble	avul	SWD	LWD	jam
	O1	B1	B2	B3	D1	D2	D3
	ex rif	no pl	elev br	mult ch	dis line	horn bd	finger	lg wdg	ex bar	ex bd scr
	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

WATER
MORPHOLOGY

C	NID MAP #	NID #	TYPE	HT / LG (m)	mthd	PHOTO	COMMENTS	UTM
						R___ F___		
						R___ F___		

FEATURES

FISH COLLECTION FORM

Forgie C.
☐ LAKE ☒ STREAM ☐ WETLAND
1803740009520001900091.00
ILP #:
☒ Y ☐ N
7 -
C016
AJ, PV
☐ RE-SAMPLE

SITE / METHOD

47	~~93K024~~ 93K.031					17 1	12	50	C

FISH SUMMARY

47	EF1	,	RB	A		1	172	172	R

SITE CARD

STREAM NAME: Forgie C.
WATERSHED CODE: 18037400095290019009100
TRIM MAP #:
ILP #:
NID MAP #: 93K.031
NID #:
REACH #: 5 -
SITE: 48
SITE LG: 1000 [illegible]
ACCESS: 7
DATE:
TIME: 1540
AGENCY:
CREW: [illegible]
FISH FORM: Y☒ N☐

CHANNEL	mthd								GRADIENT	
CHANNEL WIDTH (m)	MS	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]				
WETTED WIDTH (m)	MS	[illegible]				[illegible]			[illegible]	[illegible]
RES. POOL DEPTH (m)	MS	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]	7
Wb Dp (m)	.1	.15	.1	STAGE: [✓ L] M H						

No Vis. Ch. ☐ Dry/Int. ☐ DW ☐ Tribs. ☐

COVER Total: M

Type	SWD	LWD	B	U	DP	OV	IV
AMT	-	S	T	T	D	T	
LOC							

CROWN CLOSURE: 0 (0) 1 (1-20%) 2 (21-40%) [✓ 3] (41-70%) 4 (71-90%) 5 (> 90%)

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 (LB): [✓ F] G C B R A
TEXTURE (RB): F G C B R A
RIP VEG (LB): N G [✓ S] C D M W
RIP VEG (RB): N G S C D M W
STAGE (LB): INIT [✓ SHR] PS YF MF NA
STAGE (RB): INIT SHR PS YF MF NA

EMS:
REQ #:
TEMP: 5 °C
COND: 120 µS/cm
pH: 5.5
TURB: T M L [✓ C]
FLD SNS:

BED MATERIAL Dominant: C
Subdom: G
D95 (cm): 21
D (cm): [illegible]
Morph: N

DISTURBANCE INDICATORS	beaverdam	aban ch	erodble	avul	SWD	LWD	jam
	O1	B1	B2	B3	D1	D2	D3
	ex rif	no pl	elev br	mult ch	dis line	horn bd	finger	lg wdg	ex bar	ex bd scr
	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

WATER
MORPHOLOGY

C	NID MAP #	NID #	TYPE	HT / LG (m)	mthd	PHOTO	COMMENTS	UTM
						R___ F___		
						R___ F___		
						R___ F___		
						R___ F___		

FEATURES

Forgie C
☐ LAKE ☒ STREAM ☐ WETLAND
18037400095200019009100
☒ Y ☐ N
8 -
2000 [illegible]
[illegible]
☐ RE-SAMPLE

SITE / METHOD

48	93K.031				1 1	8	100	C

FISH SUMMARY

48	EF1	1	CO	Y		20	68	91	R
48	EF1	1	RB	A		7	167	192	R

GEAR SPECIFICATIONS

ELECTROFISHER SPECIFICATIONS

48	[illegible]	[illegible]	16.30	336	1000		0	400	60	[illegible]	[illegible]	[illegible]

COMMENTS

[illegible] - no fish, [illegible]
1st fish captured: 2931 - [illegible] after [illegible] in S[illegible]
up to 3465m ([illegible])

HABITAT QUALITY

[illegible]

FSZ ☐

PHOTO DOCUMENTATION

ROLL #		FOLIO #	DIR	COMMENTS

WILDLIFE

GROUP	WILDLIFE OBSERVATIONS	GROUP	WILDLIFE OBSERVATIONS

COMMENTS

C [illegible]

C [illegible]

Rev. Apr. 1998

GEAR SPECIFICATIONS

ELECTROFISHER SPECIFICATIONS

47	FF	1	13.15	14.35	187	750		0	500	60	[illegible]	[illegible]

COMMENTS

[illegible] = 7, [illegible] - fish @ 573 [illegible] ? (172m)

Rev. Apr. 1998

№ 012972

CARD
OF

HABITAT QUALITY

[illegible]

FSZ ☐

PHOTO DOCUMENTATION

ROLL #		FOLIO #	DIR	COMMENTS
023	3	4	11	14:24
024	3	4	11	14:25

WILDLIFE

GROUP	WILDLIFE OBSERVATIONS	GROUP	WILDLIFE OBSERVATIONS

COMMENTS

C [illegible]

C

Rev. Apr. 1998

SITE CARD

STREAM NAME: Forpie C

WATERSHED CODE: 18037400952099190099100

NID MAP: 93K 071

REACH: 4 -

SITE: 49

DATE: 2000 08 2[illegible]

TIME: [illegible]

AGENCY: C016

CREW: MD DV

SITE LG: [illegible] 11C

FISH FORM: Y ☐ N ☐

CHANNEL	mthd								GRADIENT %	
CHANNEL WIDTH (m)	MC	2.[illegible]	1.2	4.6	[illegible]	1.5				
WETTED WIDTH (m)	MC	.9	.7	2.2	1.1	.3			4	4
RES POOL DEPTH (m)	[illegible]	.05	.1	.2	.1	.05			4	3

W. Dp (m): [illegible]

STAGE: [✓ L] M H

No Vis. Ch. ☐ Dry/Int. ☐ DW ☐ Tribs. ☐

COVER Total: L

Type	SWD	LWD	B	U	DP	OV	IV
AMT	T	T	T	T	D	T	-
LOC							

CROWN CLOSURE: 0 (0) 1 (1-20%) 2 (21-40%) [✓ 3] (41-70%) [✓ 4] (71-90%) 5 (>90%)

LWD FNC: N [✓ F] A

DIST: C [✓ E]

INSTREAM VEG: N A [✓ M] V

LB SHP: U [✓ V] S O

LB TEXTURE: F G [✓ C] [✓ B] R A

LB RIP VEG: N G [✓ S] C D M W

LB STAGE: INIT [✓ SHR] PS YF MF NA

RB SHP: U [✓ V] S O

RB TEXTURE: F G C B R A

RB RIP VEG: N G S [✓ C] D M W

RB STAGE: INIT SHR PS YF [✓ MF] NA

EMS:

TEMP: 10 °C

pH: [illegible]

COND: [illegible] µS/cm

TURB: T M L [✓ C]

FLD SNS: -

BED MATERIAL Dominant: C

Subdom: S

D95 (cm): 30

D (cm): 2

Morph: [illegible]

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

C	NID MAP #	NID #	TYPE	HT / LG (m)		PHOTO	COMMENTS	UTM
	93K 071		C	15m [illegible]		R__ F12 R__ F__	@ 345m [illegible]	

FISH COLLECTION FORM

☐ LAKE ☑ STREAM ☐ WETLAND

GAZETTED NAME: Forpie C.

WATERSHED CODE: 18037400952099190099100

SITE CARD ATTACHED: ☑ Y ☐ N

REACH: 4 -

DATE: 2000 08 24

AGENCY: C016

CREW: MD DV

☐ RE-SAMPLE

SITE	NID MAP #				MTD / NO				COMMENTS
49	93K 071				EF	10	70	C	

SITE	MTD / NO		SPECIES						COMMENTS
49	EF 1		NFC						

SITE CARD

STREAM NAME: Forpie C

WATERSHED CODE: 18037400952099190099100

NID MAP: 93K 071

REACH: 4 -

SITE: 50

DATE: 2000 08 24

TIME: 1110

AGENCY: C016

CREW: MD DV

SITE LG: 240 m

ACCESS: [illegible]

FISH FORM: Y ☑ N ☐

CHANNEL	mthd								GRADIENT %	
CHANNEL WIDTH (m)	HC	.6	.3	1.2	.9	1.4				
WETTED WIDTH (m)	HC	.1	.5	.2	.2	1.3			1	2
RES POOL DEPTH (m)	HB	[illegible]	.1	.1	[illegible]	.5			2	2

W. Dp (m): .1 .15 .15

STAGE: [✓ L] M H

No Vis. Ch. ☐ Dry/Int. ☐ DW ☐ Tribs. ☐

COVER Total: M -

Type	SWD	LWD	B	U	DP	OV	IV
AMT	T	-	T	D	S	T	-
LOC							

CROWN CLOSURE: 0 (0) 1 (1-20%) [✓ 2] (21-40%) 3 (41-70%) 4 (71-90%) 5 (>90%)

LWD FNC: N F [✓ A]

DIST: C [✓ E]

INSTREAM VEG: [✓ N] A [✓ M] V

LB SHP: [✓ U] V S O

LB TEXTURE: [✓ F] G C B R A

LB RIP VEG: N [✓ G] [✓ S] C D M W

LB STAGE: INIT [✓ SHR] PS YF MF NA

RB SHP: [✓ U] V S O

RB TEXTURE: [✓ F] G C B R A

RB RIP VEG: N [✓ G] [✓ S] C D M W

RB STAGE: INIT [✓ SHR] PS YF MF NA

EMS:

TEMP: 9 °C

pH: 5.9

COND: 10 µS/cm

TURB: T M L [✓ C]

FLD SNS: -

BED MATERIAL Dominant: F

Subdom: C

D95 (cm): 20

D (cm): .5

Morph: RP

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

C	NID MAP #	NID #	TYPE	HT / LG (m)		PHOTO	COMMENTS	UTM
						R__ F__ R__ F__		

FISH COLLECTION FORM

☐ LAKE ☑ STREAM ☐ WETLAND

GAZETTED NAME: Forpie C

WATERSHED CODE: 18037400095200919009100

SITE CARD ATTACHED: ☑ Y ☐ N

REACH: 4 -

DATE: 2000 08 24

AGENCY: C016

CREW: MD DV

☐ RE-SAMPLE

SITE	NID MAP #				MTD / NO				COMMENTS
50	93K 071				EF	9	50	C	

SITE	MTD / NO		SPECIES							COMMENTS
50	EF 1		NFC			0				

NET / TRAP SPECIFICATIONS

GEAR SPECIFICATIONS

C

ELECTROFISHER SPECIFICATIONS

50	EF	1	11.00	11.50	175	200		0	500	[illegible]	[illegible]	[illegible]	[illegible]

COMMENTS

N[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible]

HABITAT QUALITY

[illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] there [illegible] [illegible]
[illegible] [illegible] [illegible]

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PHOTO DOCUMENTATION

ROLL #		FOC LG	DIR	COMMENTS
DP 3	3	67	U	11.25
DP 3	4	67	D	11.26

WILDLIFE

GROUP	WILDLIFE OBSERVATIONS	GROUP	WILDLIFE OBSERVATIONS

COMMENTS

C [illegible] [illegible] [illegible] [illegible] [illegible]

C

NET / TRAP SPECIFICATIONS

GEAR SPECIFICATIONS

C

ELECTROFISHER SPECIFICATIONS

49	EF	1	17.10	17.50	152	120?		0	500	60	4	[illegible]	[illegible]

COMMENTS

[illegible] fish in this part but suffered fish [illegible]

HABITAT QUALITY

[illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] (very [illegible] [illegible])

FSZ ☐

PHOTO DOCUMENTATION

ROLL #		FOC LG	DIR	COMMENTS
DP 3	[illegible]	[illegible]	[illegible]	17.[illegible]
DP 3	10	[illegible]	D	17.[illegible]
DP 3	11	67	[illegible]	[illegible]

WILDLIFE

GROUP	WILDLIFE OBSERVATIONS	GROUP	WILDLIFE OBSERVATIONS

COMMENTS

C 2 [illegible] of [illegible] [illegible]
[illegible] [illegible] [illegible]

C 58

SITE CARD

STREAM NAME (gaz) 3F Unnamed (local)

WATERSHED CODE

ILP MAP # 92I.071 ILP # 31014 NID MAP # 92I.071 NID #

REACH # 1 - SITE # 51 FIELD UTM SITE LG [illegible] ACCESS [illegible]

DATE [illegible] TIME 11:18 AGENCY C016 CREW MJ TV FISH FORM Y☐ N☒

CHANNEL mthd

CHANNEL WIDTH (m) [illegible]

WETTED WIDTH (m) [illegible]

RES. POOL DEPTH (m) [illegible]

GRADIENT % 1 1 / 1 1

W_B Dp (m) .1 STAGE [✓ L] M H

No Vis. Ch. ☐ [✓ Dry/Int.] ☐ DW ☐ Tribs. ☐

WATER EMS RED # TEMP °C COND µS/cm pH TURB. T M L C FLD SNS

MORPHOLOGY BED MATERIAL Dominant F Subdom. — D95 (cm) 1 D (cm) .01 Morph W

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

COVER Total

Type: SWD LWD B U DP [✓ OV] IV

AMT: OV D

LOC

CROWN CLOSURE 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

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

R___ F___

R F

SITE CARD

STREAM NAME (gaz) Unnamed (local)

WATERSHED CODE

ILP MAP # 92I.071 ILP # 31014 NID MAP # 92I.071 NID #

REACH # 2 - SITE # 52 FIELD UTM SITE LG 170 [illegible] ACCESS [illegible]

DATE [illegible] TIME [illegible] AGENCY [illegible] CREW MJ TV FISH FORM Y☐ N☒

CHANNEL mthd

CHANNEL WIDTH (m) 2.2 .7 1.0 .4 2.1

WETTED WIDTH (m) [illegible]

RES. POOL DEPTH (m) [illegible]

GRADIENT % 2 2 / 2 2

W_B Dp (m) [illegible] STAGE [✓ L] M H

No Vis. Ch. ☐ [✓ Dry/Int.] ☐ DW ☐ Tribs. ☐

WATER EMS RED # TEMP °C COND µS/cm pH TURB. T M L C FLD SNS

MORPHOLOGY BED MATERIAL Dominant C Subdom. F D95 (cm) 14 D (cm) .01 Morph RP

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

COVER Total /

Type: SWD LWD B U DP OV IV

AMT

LOC

CROWN CLOSURE 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

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

R___ F___

R___ F___

R___ F___

R___ F___

WATERSHED CODE

ILP MAP # [illegible] ILP # 3105 NID MAP # 92I.071 NID #

REACH # 1 - SITE # 53 FIELD UTM SITE LG [illegible] ACCESS [illegible]

DATE [illegible] TIME [illegible] AGENCY [illegible] CREW [illegible] FISH FORM Y☐ N☒

CHANNEL mthd

CHANNEL WIDTH (m) HC

WETTED WIDTH (m) HS

NVC

RES. POOL DEPTH (m)

GRADIENT % 1 / 2

W_B Dp (m) STAGE L M H

No Vis. Ch. ☑ Dry/Int. ☐ DW ☐ Tribs. ☐

WATER EMS RED # TEMP °C COND µS/cm pH TURB. T M L C FLD SNS

MORPHOLOGY BED MATERIAL Dominant F Subdom. D95 (cm) D (cm) 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

COVER Total

Type: SWD LWD B U DP OV IV

AMT

LOC

CROWN CLOSURE 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

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

R___ F___

R___ F___

R___ F___

R___ F___

STREAM NAME (gaz) Unnamed (local)

WATERSHED CODE

ILP MAP # 92I.071 ILP # 31016 NID MAP # 92I.071 NID #

REACH # 2 - SITE # 54 FIELD UTM SITE LG [illegible] ACCESS [illegible]

DATE 2016 05 25 TIME 11:40 AGENCY C06 CREW MJ TV FISH FORM Y☐ N☒

CHANNEL mthd

CHANNEL WIDTH (m) 4.7 .9 .9 1.0 .9 (0.9)

WETTED WIDTH (m) —

RES. POOL DEPTH (m)

GRADIENT % (3) / 3 / [illegible]

W_B Dp (m) [illegible] STAGE L M H

No Vis. Ch. ☐ [✓ Dry/Int.] ☐ DW ☐ Tribs. ☐

WATER EMS RED # TEMP °C COND µS/cm pH — TURB. T M L C FLD SNS

MORPHOLOGY BED MATERIAL Dominant C Subdom. [illegible] D95 (cm) 17 D (cm) 1 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

COVER Total N

Type: SWD LWD B U DP OV IV

AMT

LOC

CROWN CLOSURE 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

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

R___ F___

R___ F___

R___ F___

HABITAT QUALITY

[illegible] drying [illegible] [illegible]
(complex) (filled [illegible] bed, 8+ places [illegible] [illegible]
but the level [illegible] [illegible] [illegible] [illegible]
[illegible]. No signs of [illegible] [illegible] [illegible]

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PHOTO DOCUMENTATION

ROLL	[illegible]	[illegible]	DIR	COMMENTS
0 3	20	[illegible]	[illegible]	11.48
0 [illegible]	21	[illegible]	[illegible]	11.50

WILDLIFE

GROUP	WILDLIFE OBSERVATIONS	GROUP	WILDLIFE OBSERVATIONS

COMMENTS

C [illegible] [illegible]

[illegible] 3.5

C (56)

HABITAT QUALITY

[illegible] of mussels, no [illegible] banks
[illegible] [illegible] fisheries potential.
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible]

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PHOTO DOCUMENTATION

ROLL	[illegible]	[illegible]	DIR	COMMENTS
0 3	22	[illegible]	[illegible]	12.[illegible]

WILDLIFE

GROUP	WILDLIFE OBSERVATIONS	GROUP	WILDLIFE OBSERVATIONS

COMMENTS

C [illegible] [illegible] [illegible] [illegible]
[illegible]
[illegible] (D)

C

HABITAT QUALITY

[illegible]
[illegible]
[illegible]
[illegible]
Very [illegible]

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PHOTO DOCUMENTATION

ROLL	[illegible]	[illegible]	DIR	COMMENTS
0 [illegible]	18	[illegible]	U	11.[illegible]
0 [illegible]	19	[illegible]	[illegible]	11.27

WILDLIFE

GROUP	WILDLIFE OBSERVATIONS	GROUP	WILDLIFE OBSERVATIONS

COMMENTS

C [illegible] [illegible] [illegible]
– [illegible] 4 mouth of [illegible]
[illegible]

C (56)

HABITAT QUALITY

[illegible]
[illegible]
[illegible]
[illegible]

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PHOTO DOCUMENTATION

ROLL	[illegible]	[illegible]	DIR	COMMENTS
0 3	16	SF	UP	11:01
0 3	17	SF	DN	11:02

WILDLIFE

GROUP	WILDLIFE OBSERVATIONS	GROUP	WILDLIFE OBSERVATIONS

COMMENTS

C [illegible]

Recommend sampling [illegible] [illegible] [illegible] [illegible] the [illegible] [illegible]
[illegible] → [illegible] [illegible] [illegible] in the lower part [illegible] [illegible]
[illegible].
NCD ~~(56)~~ from [illegible].

Rev. Apr. 1988

SITE CARD

STREAM NAME (gaz) Unnamed (local)
WATERSHED CODE
ILP MAP # 93K.031 ILP # 31019 NID MAP # 93K.031 NID #
REACH # 1 - SITE # 55 FIELD UTM SITE LG 70 m ACCESS FT
DATE 2000 08 29 TIME 1200 AGENCY C016 CREW MS, DV FISH FORM Y☒ N☐

CHANNEL	mthd							GRADIENT	
CHANNEL WIDTH (m)	MS	.6	.9	0.5	1.1	0.8		2	
WETTED WIDTH (m)	MS			.1	1.0			2	2
RES POOL DEPTH (m)	MS			.05	.1			3	2

W. Dp (m) .1 .05 - MS STAGE [✓ L] M H No Vis. Ch. ☐ Dry/Int. ☒ DW ☐ Tribs. ☐

EMS TEMP °C REQ # COND µS/cm
pH TURB. T M L [✓ C]
FLD SNS -
BED MATERIAL Dominant G Subdom. F
D95 (cm) 8 D (cm) 1 Morph. RP

COVER Total M

Type	SWD	LWD	B	U	DP	OV	IV
AMT	T	T	-	S	D	S	T
LOC							

CROWN CLOSURE

0	1-20%	21-40%	41-70%	71-90%	> 90%
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

beaver dam	aban ch	...	avul	SWD	LWD	jam
O1	B1	B2	B3	D1	D2	D3

ex inf	no pl	elev br	mult ch	dis line	hom bd	finger	lg wdg	ex bar	ex bd scr
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)	mthd	PHOTO	COMMENTS	UTM
						R___ F___		
						R___ F___		

FISH COLLECTION FORM

☐ LAKE ☒ STREAM ☐ WETLAND
93K.031 31019 SITE CARD ATTACHED ☒ Y ☐ N
1 -
DATE 2000 08 29 0016 DV ☐ RE-SAMPLE

SITE / METHOD

55	93K.031				471	9	50	C	

FISH SUMMARY

55	EF	1		NFC			0			

SITE CARD

STREAM NAME (gaz) Unnamed (local)
WATERSHED CODE
ILP MAP # 93K.031 ILP # 31021 NID MAP # 93K.031 NID #
REACH # 1 - SITE # 56 FIELD UTM SITE LG 50 m ACCESS FT
DATE 2000 08 24 TIME 1030 AGENCY C016 CREW MS, DV FISH FORM Y☐ N☒

CHANNEL	mthd							GRADIENT %	
CHANNEL WIDTH (m)	MS	0.2	0.6	.15	0.2	0.3			
WETTED WIDTH (m)	MS	?						2	2
RES POOL DEPTH (m)	MS	?						3	2

W. Dp (m) MS STAGE L M H No Vis. Ch. ☐ [✓ Dry/Int.] ☐ DW ☐ Tribs. ☐

EMS TEMP 4 °C REQ # COND 50 µS/cm
pH 9.8 TURB. T M L C
FLD SNS /
BED MATERIAL Dominant C Subdom. F
D95 (cm) 9 D (cm) .01 Morph. CP

COVER Total ?

Type	SWD	LWD	B	U	DP	OV	IV
AMT							
LOC							

CROWN CLOSURE

0	1-20%	21-40%	41-70%	71-90%	> 90%
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

beaver dam	aban ch	...	avul	SWD	LWD	jam
O1	B1	B2	B3	D1	D2	D3

ex inf	no pl	elev br	mult ch	dis line	hom bd	finger	lg wdg	ex bar	ex bd scr
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)	mthd	PHOTO	COMMENTS	UTM
						R___ F___		
						R___ F___		
						R___ F___		
						R___ F___		

STREAM NAME New site (local) TAMZ
WATERSHED CODE 180-[illegible]-1-1-15-13-[illegible]
ILP MAP ILP # NID MAP # NID #
REACH # 3 - SITE # 57 FIELD UTM SITE LG 60 m ACCESS TT
DATE 2000 08 11 TIME 1545 AGENCY C016 CREW SR, MJ FISH FORM Y☒ N☐

CHANNEL	mthd							GRADIENT %	
CHANNEL WIDTH (m)	MS	1.9	1.7	2.2	2.1	1.6	2.4	N	
WETTED WIDTH (m)	MS	0.8	1.2	1.4	0.7	0.9	1.8	5	5
RES POOL DEPTH (m)	MS	.15	.1	.18	.14	.12		6	4

W. Dp (m) .2 .3 .2 MS STAGE L [✓ M] H No Vis. Ch. ☐ Dry/Int. ☐ DW ☐ Tribs. ☐

EMS TEMP 10 °C REQ # COND NA µS/cm
pH 7.6 TURB. T M L [✓ C]
FLD SNS None
BED MATERIAL Dominant G Subdom. G
D95 (cm) 25 D (cm) 5 Morph. CP

COVER Total M

Type	SWD	LWD	B	U	DP	OV	IV
AMT	T	T	S	T	D	T	N
LOC							

CROWN CLOSURE

0	1-20%	21-40%	41-70%	71-90%	> 90%
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

beaver dam	aban ch	...	avul	SWD	LWD	jam
O1	B1	B2	B3	D1	D2	D3

ex inf	no pl	elev br	mult ch	dis line	hom bd	finger	lg wdg	ex bar	ex bd scr
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)	mthd	PHOTO	COMMENTS	UTM
						R___ F___		
						R___ F___		
						R___ F___		
						R F		

HABITAT QUALITY

- Good R.B. rearing & cascade pool habitat, large boulders/cobbles
- No sig. spawning habitat, a few suitable gravel patches = appr. in lower gradient sections.

[illegible] overwintering [illegible] due to no [illegible] deep pools > [illegible]

FSZ ☐

PHOTO DOCUMENTATION

ROLL	[illegible]	FOCAL L	DIR	COMMENTS
OP1	9	57	U	
OP1	16	57	D	

WILDLIFE

GROUP	WILDLIFE OBSERVATIONS	GROUP	WILDLIFE OBSERVATIONS

COMMENTS

C Site from TAMZA mouth.
- Overall, moderate spawning fish habitat, but [illegible]
- [illegible] [illegible] from 14 - [illegible]

53

HABITAT QUALITY

Very borderline habitat b/o 56/WCO
R - few if any: very poor [illegible], flashy, [illegible] covered with mosses. At places [illegible] n/e flow. Overwintering [illegible] the small wetland back [illegible] pools. [illegible]
No spawning, no overwintering [illegible] also too.

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PHOTO DOCUMENTATION

ROLL	[illegible]	FOCAL L	DIR	COMMENTS
OP3	1	54	U	10.46
OP3	2	54	D	10.49

WILDLIFE

GROUP	WILDLIFE OBSERVATIONS	GROUP	WILDLIFE OBSERVATIONS

COMMENTS

C (a) 24 fishing id - to 55m u/s from the rd.

Channel [illegible] 0.6
[illegible]
[illegible]

56

GEAR SPECIFICATIONS

NET / TRAP SPECIFICATIONS

ELECTROFISHER SPECIFICATIONS

55	[illegible]	1	12:00	12:35	172	180	0.8	0	600	60	4	SP	[illegible]

COMMENTS

Sampled only ~ 50m u/s from rd. [illegible] (2) [illegible] [illegible], almost no flowing
Sampled [illegible]

HABITAT QUALITY

[illegible] well developed [illegible] [illegible] filled [illegible] plenty of gravel [illegible] [illegible]

FSZ ☐

PHOTO DOCUMENTATION

ROLL	[illegible]	FOCAL L	DIR	COMMENTS
	~~[illegible]~~	~~[illegible]~~	~~[illegible]~~	~~[illegible]~~
OP3	5	54	U	[illegible]
OP3	6	54	D	[illegible]07

WILDLIFE

GROUP	WILDLIFE OBSERVATIONS	GROUP	WILDLIFE OBSERVATIONS

54

COMMENTS

C [illegible]
Unable to sample [illegible] present [illegible]
[illegible] confluence.
6. Walk from the mouth u/s to the 1102m u/s from the rd. [illegible]
Picture 15 the [illegible] (OP3) - FT4 - swamp [illegible]
Not interconnected pools - [illegible] but occasionally [illegible]
developed [illegible]

FISH COLLECTION FORM

New site | TAMZ | ☐ LAKE ☒ STREAM ☐ WETLAND

4609516005800

☑ Y ☐ N

3 -

20000711 | C016 | SP MS | ☐ RE-SAMPLE

SITE / METHOD

57	931.050	GT 1	10	N/A	

FISH SUMMARY

57	EF 1	1	RB	J		1	72	72	k

SITE CARD

STREAM NAME (gaz) | (local) TAMZ

WATERSHED CODE 46095160053800

ILP MAP # | ILP # | NID MAP # 931.050 | NID #

REACH # 4 - | SITE # 58 | FIELD UTM | SITE LG 200 GR | ACCESS TR

DATE 20000711 | TIME 1615 | AGENCY C016 | CREW SP MS | FISH FORM ☒ Y ☐ N

CHANNEL	mthd							GRADIENT %
CHANNEL WIDTH (m)	MS	1.2	1.4	1.1	1.5	0.9	1.3	
WETTED WIDTH (m)	↓	1.1	0.7	1.0	0.7	0.4	1.2	6 ?
RES. POOL DEPTH (m)	↓	.09	.1	.05	.10	.07		

Wb Dp (m) .2 .2 .2 MG | STAGE L [✓ M] H | No Vis. Ch. ☐ | Dry/Int. ☐ | DW ☐ | Tribs. ☐

EMS | REQ #

TEMP 10 °C | COND. NA µS/cm

pH 7.6 | TURB. T M L [✓ C]

FLD SNS None

BED MATERIAL Dominant G | Subdom. /

D95 (cm) 8 | D (cm) 3 | Morph. RP

COVER Total T

Type	SWD	LWD	B	U	DP	OV	IV
AMT	T	T	N	D	T	S	N
LOC							

CROWN CLOSURE: 0 (0) | [✓ 1] (1-20%) | 2 (21-40%) | 3 (41-70%) | 4 (71-90%) | 5 (> 90%)

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: 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

C	NID MAP #	NID #	TYPE	HT/LG (m)	mod	PHOTO	COMMENTS	UTM
						R___ F___		
						R___ F___		

FISH COLLECTION FORM

TAMZ | ☐ LAKE ☒ STREAM ☐ WETLAND

46095160053800

☒ Y ☐ N

4 -

20000711 | C016 | SP MS | ☐ RE-SAMPLE

SITE / METHOD

58	931.050	EF 1	10	/	C

FISH SUMMARY

58	EF 1	1	RB	J		1	82	82	K

SITE CARD

STREAM NAME (gaz) Stream #2 (on TAMZ [illegible]) | (local) TAMZ

WATERSHED CODE [illegible]

ILP MAP # | ILP # | NID MAP # 931.050 | NID #

REACH # 5A - | SITE # 59 | FIELD UTM | SITE LG [illegible] | ACCESS VH

DATE 20000711 | TIME 1820 | AGENCY C016 | CREW SP MS | FISH FORM ☒ Y ☐ N

CHANNEL	mthd							GRADIENT %
CHANNEL WIDTH (m)	MS	.4	.6	.4	.5	.5	.3	AL
WETTED WIDTH (m)	↓	.3	.5	.3	.4	.5	.3	4 6
RES. POOL DEPTH (m)	↓	.06	.05	.1	.1	.07	.07	-1

Wb Dp (m) .2 .2 .1 M | STAGE L [✓ M] H | No Vis. Ch. ☐ | Dry/Int. ☐ | DW ☐ | Tribs. ☐

EMS | REQ #

TEMP 11 °C | COND. — µS/cm

pH 7.1 | TURB. T M L [✓ C]

FLD SNS None

BED MATERIAL Dominant F | Subdom. C

D95 (cm) 10 | D (cm) 1 | Morph. CP

COVER Total T

Type	SWD	LWD	B	U	DP	OV	IV
AMT	T	T	N	S	D	S	N
LOC							

CROWN CLOSURE: 0 (0) | [✓ 1] (1-20%) | 2 (21-40%) | 3 (41-70%) | 4 (71-90%) | 5 (> 90%)

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: 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)	mod	PHOTO	COMMENTS	UTM
						R___ F___		
						R___ F___		
						R___ F___		
						R___ F___		

HABITAT QUALITY

- NO [illegible]
- [illegible]
[illegible]

FSZ ☐

PHOTO DOCUMENTATION

ROLL	FRAME	FOCAL	DIR	COMMENTS
OP1	15	ST	IN	

WILDLIFE

GROUP	WILDLIFE OBSERVATIONS	GROUP	WILDLIFE OBSERVATIONS

COMMENTS

C

1 Site [illegible] to road [illegible]
[illegible] in [illegible]
[illegible]
[illegible] RB [illegible]
[illegible]

NT [illegible]

GEAR SPECIFICATIONS — **NET / TRAP SPECIFICATIONS**

C

ELECTROFISHER SPECIFICATIONS

58	EF 11	1	1615	1625	104	80	0.8	0	800	80	6	SE	[illegible]

COMMENTS

HABITAT QUALITY

- Few RB rearing, but generally too shallow to provide good habitat. [illegible]
- Gravels predominate, abundant [illegible] substrate & spawning [illegible].
- poor overwintering - no deep pools

FSZ ☐

PHOTO DOCUMENTATION

ROLL	FRAME	FOCAL	DIR	COMMENTS
OP1	12	ST	U	
OP1	11	ST	D	

WILDLIFE

GROUP	WILDLIFE OBSERVATIONS	GROUP	WILDLIFE OBSERVATIONS

COMMENTS

C

Site 50m u/s from TAMZA (new [illegible])
- [illegible] flattens out, [illegible], more gravels, riffles, exposed
- [illegible] different - gentle flow over [illegible] riffles, very shallow

5%

GEAR SPECIFICATIONS — **NET / TRAP SPECIFICATIONS**

C

RB 72

ELECTROFISHER SPECIFICATIONS

57	EF	1	1	1345	1350	74	660	1.1	0	700	60	6	SE	[illegible]

COMMENTS

- few RB in system, but present in small #'s throughout

CARD

FISH COLLECTION FORM

Stream #7 (to TAMZ | TAMZ | ☐ LAKE ☒ STREAM ☐ WETLAND

[illegible]

☒ Y ☐ N

57 -

2000 09 11 | C016 | SP, MS | ☐ RE-SAMPLE

SITE / METHOD

59	93l.050			MTD	EF 1		

FISH SUMMARY

59	EF 1	1	NFC			0		

SITE CARD

STREAM NAME (gaz) | (local) TAMZA

WATERSHED CODE

ILP MAP # | ILP # | NID MAP # 93l.050 | NID #

REACH # 2 - | SITE # 60 | FIELD UTM | SITE LG 70 [illegible] | ACCESS [illegible]

DATE 2000 09 11 | TIME 1800 | AGENCY C016 | CREW SP, MS | FISH FORM Y☒ N☐

CHANNEL	mthd							GRADIENT %	
CHANNEL WIDTH (m)	MS	0.6	0.7	0.4	0.9	0.3	0.5	A	L
WETTED WIDTH (m)		0.7	0.7	0.4	0.8	0.2	0.5	2	4
RES. POOL DEPTH (m)		.04	.03	.07	.07	.04		5	5

Wb Dp (m) 0.1 0 0.? | STAGE L [✓M] H | No Vis. Ch. ☐ Dry/Int. ☐ DW ☐ Tribs. ☐ | 1 2

WATER			
EMS		REQ #	
TEMP	10 °C	COND	80 µS/cm
pH	7.9	TURB	T M L [✓C]

FLD SNS

BED MATERIAL Dominant F | Subdom G

D95 (cm) 3 | D (cm) 2 | Morph [illegible]

COVER Total T

Type	SWD	LWD	B	U	DP	OV	IV
AMT	T	T	N	T	D	S	N
LOC							

CROWN CLOSURE: 0 1 2 [✓3] 4 5 (0, 1-20%, 21-40%, 41-70%, 71-90%, > 90%) | 1

DISTURBANCE INDICATORS: O1 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

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 | 3

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]

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

C	NID MAP #	NID #	TYPE	HT/LG (m)		PHOTO	COMMENTS	UTM
						R___ F___		

FISH COLLECTION FORM

TAMZA | ☐ LAKE ☒ STREAM ☐ WETLAND

☒ Y ☐ N

2 -

2000 09 11 | C016 | SP, MS | ☐ RE-SAMPLE

SITE / METHOD

60	93l.050			MTD	EF 1	10	8C	C	

FISH SUMMARY

60	EF 1	1	NFC			0		

SITE CARD

STREAM NAME (gaz) Alias Stream #1 | (local) ~~TAMZ~~ TAMZES

WATERSHED CODE

ILP MAP # | ILP # | NID MAP # 93l.050 | NID #

REACH # 1 - | SITE # 61 | FIELD UTM | SITE LG 100 [illegible] | ACCESS [illegible]

DATE 2000 09 11 | TIME 1850 | AGENCY C016 | CREW SP, MS | FISH FORM Y☒ N☐

CHANNEL	mthd							GRADIENT %	
CHANNEL WIDTH (m)	MS	1.5	1.4	1.3	1.5	1.3	1.4	A	L
WETTED WIDTH (m)		1.4	0.9	0.7	1.4	1.5	1.3	1	1
RES. POOL DEPTH (m)		.2	.21	.18	.19	.17		2	1

Wb Dp (m) .2 .2 .3 M | STAGE L [✓M] H | No Vis. Ch. ☐ Dry/Int. ☐ DW ☐ Tribs. ☐

WATER			
EMS		REQ #	
TEMP	10 °C	COND	– µS/cm
pH	7.6	TURB	T M L [✓C]

FLD SNS

BED MATERIAL Dominant F | Subdom G

D95 (cm) 10 | D (cm) 0.1 | Morph [illegible]

COVER Total A

Type	SWD	LWD	B	U	DP	OV	IV
AMT	T	T	N	S	D	S	N
LOC							

CROWN CLOSURE: 0 1 2 [✓3] 4 5 (0, 1-20%, 21-40%, 41-70%, 71-90%, > 90%)

DISTURBANCE INDICATORS: O1 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

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

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___		

HABITAT QUALITY

- Poor RB [illegible] deep [illegible]
[illegible] spawning [illegible]
- [illegible] [illegible] [illegible] in present

FSZ ☐

PHOTO DOCUMENTATION

				COMMENTS
OP1	16	ST	U	

WILDLIFE

GROUP	WILDLIFE OBSERVATIONS	GROUP	WILDLIFE OBSERVATIONS

COMMENTS

C

Sites from mouth of stream E2 [illegible], deep (up to 70cm), [illegible], gravels, [illegible] channel)
Caught RB 700m u/s from stream # 3
- from drainage [illegible] u/s
[illegible] [illegible] [illegible], [illegible]?

NFC - S

NET / TRAP SPECIFICATIONS

GEAR SPECIFICATIONS

C

ELECTROFISHER SPECIFICATIONS

60	[illegible]	1	1800	1810	178	700	0.7	0	700	60	6	[illegible]	[illegible]

COMMENTS

NO suitable RB habitat

HABITAT QUALITY

- V. poor RB rearing [illegible] shallow, little [illegible] recently deposited silts & gravels from road construction
- too shallow / no pools for overwinter, high
not enough flow for spawning
- ext. marginal high, but 2nd sampling NFC

FSZ ☐

PHOTO DOCUMENTATION

			DIR	COMMENTS
OP1	13	ST	U	photo showing new water input since road construction (½ flow)
OP1	14	ST	U	

WILDLIFE

GROUP	WILDLIFE OBSERVATIONS	GROUP	WILDLIFE OBSERVATIONS

COMMENTS

C

site 50m d/s from road Xing
Stream [illegible]
from ditch runoff (u/s diversion?)
since road built!
1 channel gravel scour from construction of road
[illegible] has changed majorly since 1998 - [illegible]
[illegible] on u/s side of road
3 years [illegible] from CV outflow

C
- diversion [illegible]
from ditch [illegible]
flow [illegible] eventually
[illegible] result [illegible]
[illegible]
2 [illegible]

Rev Apr 1998

GEAR SPECIFICATIONS

ELECTROFISHER SPECIFICATIONS

59	[illegible]	1	1830	1841	196	[illegible]	0.6	0	700	80	6	[illegible]	[illegible]

COMMENTS

- NO suitable fish habitat

Rev Apr 1998

No 020162

CARD

FISH COLLECTION FORM

[illegible] #1 | TAMZB ☐ LAKE [✓ ☐ STREAM] ☐ WETLAND

☒ Y ☐ N

[illegible] 1 -

2009 [illegible] | C01G | SR, MG | ☐ RE-SAMPLE

SITE / METHOD

61	921.030			EM	1	10	-	C

FISH SUMMARY

61	EM	1	NFC			0

COLLEMOUNT

SITE CARD

STREAM NAME (gaz) Unnamed (local)

WATERSHED CODE 46092430090900

ILP MAP # | **ILP #** | **NID MAP #** 921.070 | **NID #**

REACH # 2 - | **SITE #** 62 | **FIELD UTM** 9 1699?74 6004194 GPS | **SITE LG** 100 GE | **ACCESS** V2

DATE 2009 01 13 | **TIME** 17 10 | **AGENCY** C01G | **CREW** SR MG | **FISH FORM** ☒ Y N

CHANNEL	mthd							GRADIENT %	
CHANNEL WIDTH (m)	MS	1.6	1.5	1.7	1.9	1.9	1.5	AL	
WETTED WIDTH (m)	↓	0	0	0	0	1.8	1.5	3	6
RES. POOL DEPTH (m)		.31	.16	.19	.27			3	5

W_B D_P (m) .3 .3 .3 MK | **STAGE** [✓ L] M H | No Vis. Ch. ☐ | Dry/[✓ Int] ☒ | DW ☐ | Tribs. ☐

EMS			REQ #		
TEMP	5.0 °C	12	COND	100 µS/cm	51
pH	8.4	12	TURB	T M L [✓ C]	GI

FLD SNS N

BED MATERIAL Dominant C | Subdom G

D95 (cm) 40 | **D (cm)** 7 | **Morph** RP

COVER Total T

Type	SWD	LWD	B	U	DP	OV	IV
AMT	T	T	T	N	D	T	N
LOC	P	P	P		P	P	

CROWN CLOSURE

0	1-20%	21-40%	41-70%	71-90%	> 90%
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 [✓ F] A	DIST	C [✓ E]
LB SHP	U [✓ V] S O	INSTREAM VEG	N A [✓ M] V
TEXTURE	[✓ F] [✓ G] [✓ C] B R A	RB SHP	U [✓ V] S O
RIP VEG	N G S [✓ C] D M W	TEXTURE	[✓ F] [✓ G] [✓ C] B R A
STAGE	INIT SHR PS YF [✓ MF] NA	RIP VEG	N G S [✓ C] D M W
		STAGE	INIT SHR PS YF [✓ MF] NA

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		

FISH COLLECTION FORM

☐ LAKE ☑ STREAM ☐ WETLAND

46092430090900

☑ Y ☐ N

2 -

2009 01 13 | C01G | SR MG | ☒ RE-SAMPLE

SITE / METHOD

62	921.070		9 1693874 6004194 GPS	G	1	5	50	C

FISH SUMMARY

62	EM	1	1	NFC			0

CALLEIMOUNT

SITE CARD

STREAM NAME (gaz) Unnamed (local)

WATERSHED CODE

ILP MAP # | **ILP #** 32 (=31.9km) | **NID MAP #** 921.070 | **NID #**

REACH # 2 - | **SITE #** 63 | **FIELD UTM** 9 1692557 6007715 GPS | **SITE LG** 100 GI | **ACCESS** V2

DATE 8009 01 13 | **TIME** 17 00 | **AGENCY** C01G | **CREW** SR MG | **FISH FORM** Y ☒ N

CHANNEL	mthd							GRADIENT %	
CHANNEL WIDTH (m)									
WETTED WIDTH (m)									
RES. POOL DEPTH (m)									

W_B D_P (m) | **STAGE** L M H | No Vis. Ch. ☒ | Dry/Int. ☐ | DW ☐ | Tribs. ☐

EMS			REQ #		
TEMP	°C		COND	µS/cm	
pH			TURB	T M L C	

FLD SNS

BED MATERIAL Dominant | Subdom

D95 (cm) | **D (cm)** | **Morph**

COVER Total

Type	SWD	LWD	B	U	DP	OV	IV
AMT							
LOC							

CROWN CLOSURE

0	1-20%	21-40%	41-70%	71-90%	> 90%
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 F A	DIST	C E
LB SHP	U V S O	INSTREAM VEG	N A M V
TEXTURE	F G C B R A	RB SHP	U V S O
RIP VEG	N G S C D M W	TEXTURE	F G C B R A
STAGE	INIT SHR PS YF MF NA	RIP VEG	N G S C D M W
		STAGE	INIT SHR PS YF MF NA

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		

HABITAT QUALITY

NONE

FSZ ☐

PHOTO DOCUMENTATION

ROLL	PHOTO	DIR	COMMENTS
			NONE

WILDLIFE

GROUP	WILDLIFE OBSERVATIONS	GROUP	WILDLIFE OBSERVATIONS

COMMENTS

C

Site: Gun road X-ing
crosses at 31.9 km [illegible]
Nothing mapped on TRIM, no prior surveys
- [illegible] in ditch drainage [illegible]
has no [illegible] of any channel
bed [illegible]

C

- no channel [illegible] sides [illegible] [illegible]
d/s + disperses in meadow 20 m
d/s from road.

NET / TRAP SPECIFICATIONS

GEAR SPECIFICATIONS

C

ELECTROFISHER SPECIFICATIONS

62	EF 11	1	[illegible]	1726	251	100	1.6	0	700	80	6	[illegible]	[illegible]

COMMENTS

HABITAT QUALITY

NCD & [illegible] site, [illegible]
[illegible]
- NC [illegible], no spawning gravel
. [illegible]
[illegible] any gravel [illegible]
[illegible]

FSZ ☐

PHOTO DOCUMENTATION

ROLL	PHOTO	DIR	COMMENTS
2-1	11	ST	D	[illegible]

WILDLIFE

GROUP	WILDLIFE OBSERVATIONS	GROUP	WILDLIFE OBSERVATIONS

COMMENTS

C

Site: [illegible] road X-ing
1999 results + FIS [illegible] R.1
NFC [illegible] R.5
NFC(FFI-SH) [illegible] R.1
1 [illegible] all day except [illegible] [illegible]
[illegible] X-ing [illegible]

C

NFC observed
- [illegible] of [illegible] flows + large
cobble, large channel

Rev. Apr. 1998

GEAR SPECIFICATIONS

ELECTROFISHER SPECIFICATIONS

61	EF 11	1	1850	1915	236	1714	1.4	0	700	60	6	58	[illegible]

COMMENTS

. no fish [illegible] [illegible], [illegible] RB habitat
. [illegible] [illegible] d/s

Rev. Apr. 1998

№ 020163

CARD ___ OF ___

FISH COLLECTION FORM

☐ LAKE ☑ STREAM ☐ WETLAND

3 | 36.9 | ☑ Y ☐ N

? -

20091013 | COL6 | SR, MG | ☐ RE-SAMPLE

SITE / METHOD

64	931.020		9	688050	6002400	GPS	EF	1	5	80	C

FISH SUMMARY

64	EF	1	1	NFC			0

Colleymount

SITE CARD

STREAM NAME (gaz.): | (local):

WATERSHED CODE:

ILP MAP #: | ILP #: 36.9 km | NID MAP #: 931.020 | NID #:

REACH #: ? - | SITE #: 64 | FIELD UTM: 9 688050 6002400 GPS | SITE LG: 110 GE | ACCESS: T2

DATE: 20091013 | TIME: 1635 | AGENCY: COL6 | CREW: SR, MG | FISH FORM: Y☑ N☐

CHANNEL	mthd							GRADIENT %	
CHANNEL WIDTH (m)	MC	2.0	0.4	0.7	0.5	0.8	0.7	A	
WETTED WIDTH (m)	|	"	"	"	"	"	"	3	3
RES. POOL DEPTH (m)	↓	.71	.16	.71	.08	.09	.05	2	2

Wb Dp (m): .3, .4, .3 MC | STAGE: [✓ L] M H | No Vis. Ch. ☐ Dry/Int. ☐ DW ☐ Tribs. ☐

EMS	
TEMP	5 °C 73
pH	8.4 82
REQ. #	
COND.	80 µS/cm 24
TURB.	T M L [✓ C] 66
FLO.SNS.	
BED MATERIAL Dominant	F
Subdom.	NA
D95 (cm)	.01
D (cm)	.01
Morph.	RP

COVER: 1 | Total: T

Type	SWD	LWD	B	U	DP	OV	IV
AMT	T	T	N	N	D	T	S
LOC	P	P			P	P	P

LWD FNC: N [✓ F] A | DIST.: C [✓ E] | INSTREAM VEG: N [✓ A] [✓ M] V

CROWN CLOSURE: 0 1 [✓ 2] 3 4 5

	LB	RB
SHP	U [✓ V] S O	U [✓ V] S O
TEXTURE	[✓ F] G C B R A	[✓ F] G C B R A
RIP. VEG.	N G S [✓ C] D M W	N G S [✓ C] D M W
STAGE	INIT SHR PS YF [✓ MF] NA	INIT SHR PS YF [✓ MF] NA

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)	mthd	PHOTO	COMMENTS	UTM
						R___ F___		
						R___ F___		

FISH COLLECTION FORM

Unnamed | ☐ LAKE ☑ STREAM ☐ WETLAND

180311400095700665006450

931.070 | 20063 | ☑ Y ☐ N

7 - | ~~020~~ [illegible]

20091013 | COL6 | SR, MG | ☐ RE-SAMPLE

SITE / METHOD

65	931.070		9	687135	6002312	GPS	EF	1	5.0	70	C

FISH SUMMARY

65	EF	1	1	NJC			0

COLLEYMOUNT

SITE CARD

STREAM NAME (gaz.): [illegible] 1996 | (local):

WATERSHED CODE: 18031100095200665006450

ILP MAP #: 931 020 | ILP #: 20063 | NID MAP #: 931 020 | NID #:

REACH #: 2 - | SITE #: 65 | FIELD UTM: 9 687135 6002312 GPS | SITE LG: 100 GE | ACCESS: V2

DATE: 20091013 | TIME: 1610 | AGENCY: COL6 | CREW: SR, MG | FISH FORM: Y☒ N☐

CHANNEL	mthd	1	1					GRADIENT %	
CHANNEL WIDTH (m)	MS	1.4	2.3	1.7	1.9	1.3	1.8	AL	
WETTED WIDTH (m)	|	0.9	1.1	1.0	1.4	0.6	0.7	7	4
RES. POOL DEPTH (m)	↓	.43	.17	.08	.06	.11	.20	5	2

Wb Dp (m): .4, .3, .4 MC | STAGE: [✓ L] M H | No Vis. Ch. ☐ Dry/Int. ☐ DW ☐ Tribs. ☐

EMS	
TEMP	5.0 °C 73
pH	8.0 82
REQ. #	
COND.	70 µS/cm 54
TURB.	T M L [✓ C] 66
FLO SNS	N
BED MATERIAL Dominant	C
Subdom.	F
D95 (cm)	25
D (cm)	2
Morph.	RP

COVER: | Total: M

Type	SWD	[✓ LWD]	B	U	[✓ DP]	OV	IV
AMT	T	S	T	N	D	T	T
LOC	P	P	P		P	P	P

LWD FNC: N [✓ F] A | DIST.: C [✓ E] | INSTREAM VEG: N [✓ A] [✓ M] V

CROWN CLOSURE: 0 1 [✓ 2] 3 4 5

	LB	RB
SHP	U [✓ V] S O	U [✓ V] S O
TEXTURE	[✓ F] G [✓ C] B R A	[✓ F] G [✓ C] B R A
RIP. VEG.	N G S [✓ C] D M W	N G S [✓ C] D M W
STAGE	INIT SHR PS YF [✓ MF] NA	INIT SHR PS YF [✓ MF] NA

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)	mthd	PHOTO	COMMENTS	UTM
						R___ F___		
						R___ F___		
						R___ F___		
						R___ F___		

HABITAT QUALITY

Best habitat in deep pools near road, otherwise very shallow/low flows which reduces quality,
- Some potential O.W. in pool u/s from road (pool d/s had culvert), but no significant O.W.
- lacks spawning substrate
- all isolated above cascade barrier d/s – no fish in 1998 or 2000

FSZ ☐

PHOTO DOCUMENTATION

ROLL	#	FOCAL	DIR.	COMMENTS
27	9	ST	U	(SR)

WILDLIFE

GROUP	WILDLIFE OBSERVATIONS	GROUP	WILDLIFE OBSERVATIONS

COMMENTS

C Site: road = [illegible] (50 m d/s road)
Allin C. trib resampling from 1998 [illegible] → 1998 [illegible] cascade at mouth, NFC above
1 Pools at culvert outflow
abund. overg. algae d/s from culvert + trickle among mossy cobble

C 37 Trim [illegible] → [illegible] 37.41
NFC – S6

Rev. Apr 1998

GEAR SPECIFICATIONS

ELECTROFISHER SPECIFICATIONS

65	Ex 11	1	16:10	16:15	113	100	0.9	0	700	80	6	CR	RB

COMMENTS

HABITAT QUALITY

Some cover but water is stagnant, algae filled, frequently silt, all organic substrate with no suitable salmonid habitat! Also, has steep gradient (cascade) to Allin C. d/s

FSZ ☐

PHOTO DOCUMENTATION

ROLL	#	FOCAL	DIR.	COMMENTS
27	10	ST	D	(cam bag)

WILDLIFE

GROUP	WILDLIFE OBSERVATIONS	GROUP	WILDLIFE OBSERVATIONS

COMMENTS

C Site: 80m d/s from road to road
1 most cover d/s from road, further d/s becomes v. shallow trickle through cobbles fines
no prior survey info - not on TRIM - also not at 36.9 but at 36.7
fines - organics

C NFC S6
Reference to road on "[illegible]" 1:7 or 36.7"

Rev. Apr 1998

GEAR SPECIFICATIONS

ELECTROFISHER SPECIFICATIONS

64	Ex 11	1	16:35	16:45	176	100	0.6	0	600	80	6	SP	RB

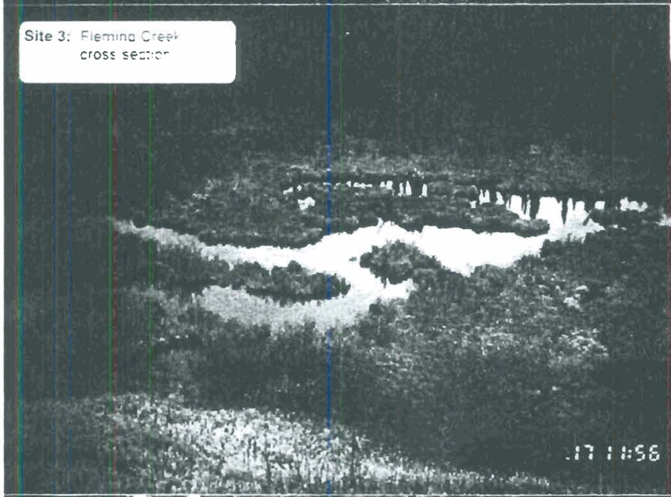
COMMENTS

Creek [illegible] no salmonid habitat

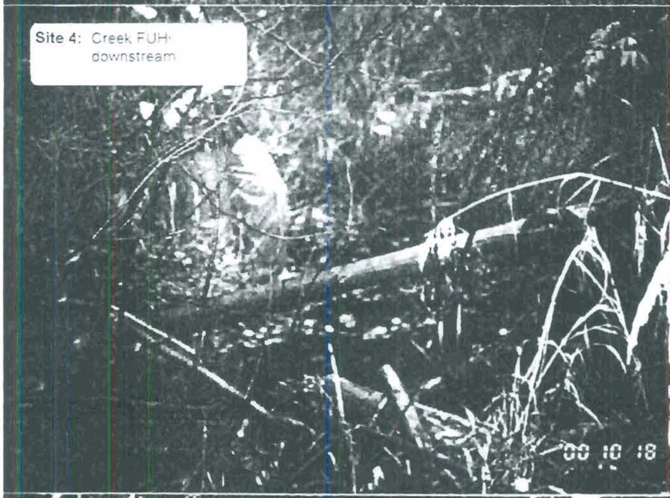
Appendix II: Photographs (Arranged by Site)

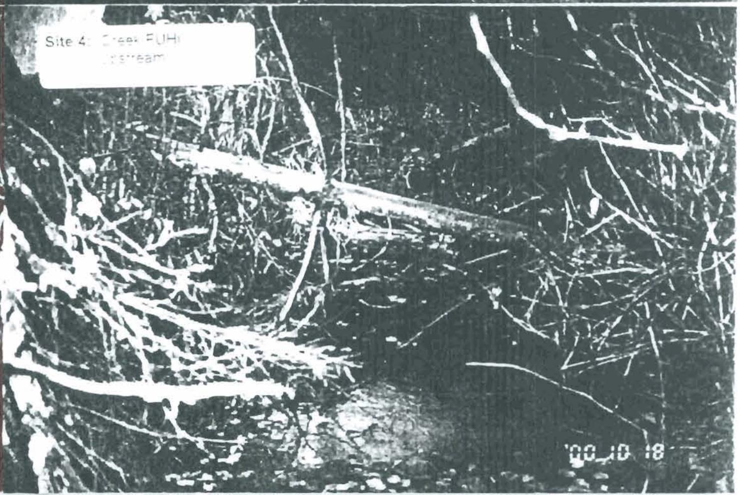
Site 1: Fleming Creek cross section

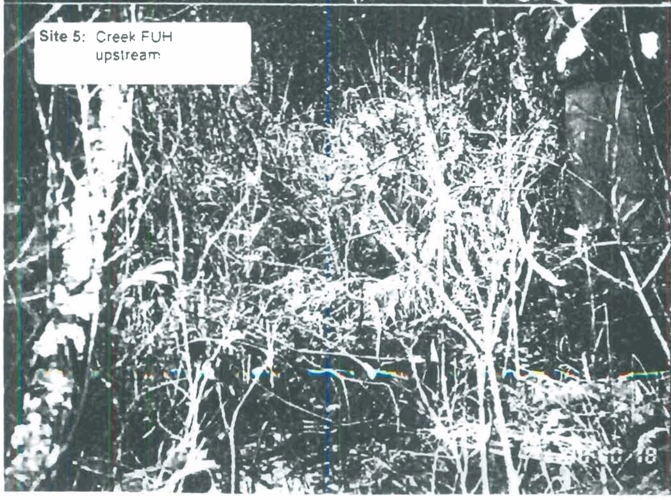
Site 2: Fleming Creek downstream


Site 3: Fleming Creek cross section

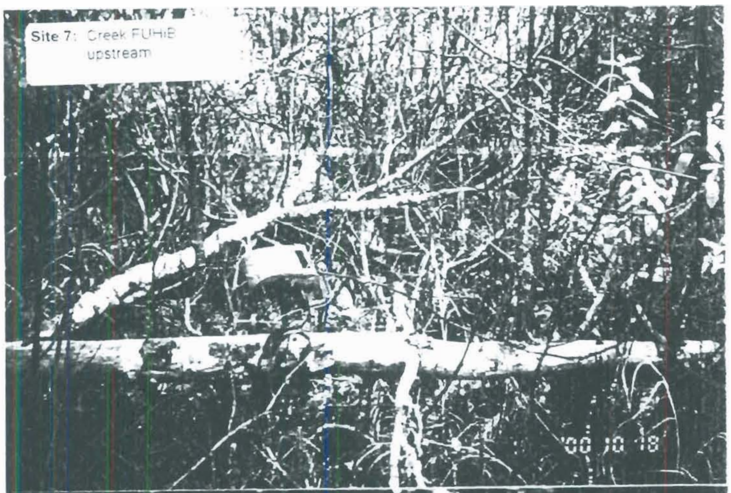
Site 3: Fleming Creek upstream


Site 4: Creek FUH downstream

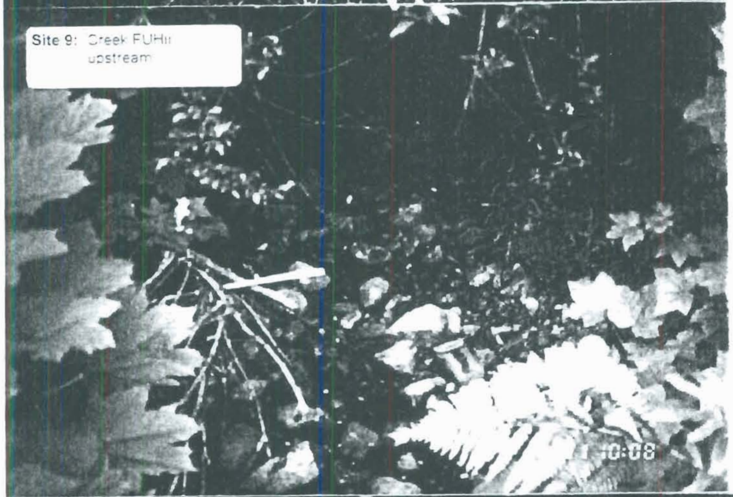

Site 4: Creek FUH upstream

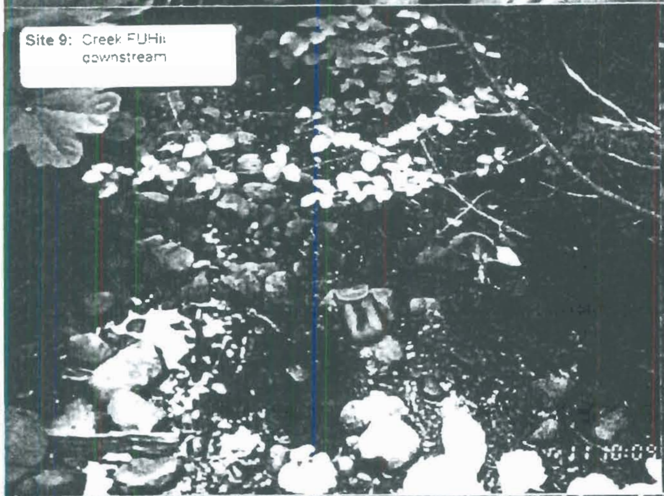

Site 5: Creek FUH upstream

Site 6: Creek FUHIA upstream


Site 7: Creek FUHiB
upstream

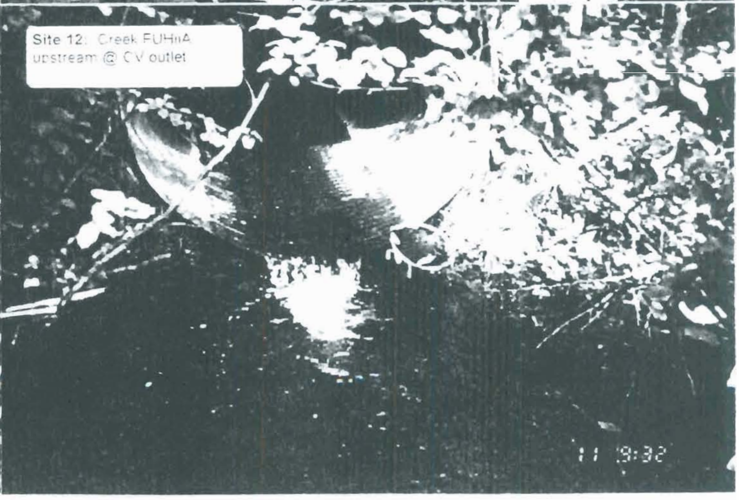
Site 9: Creek FUHii
upstream @ CV obstruction

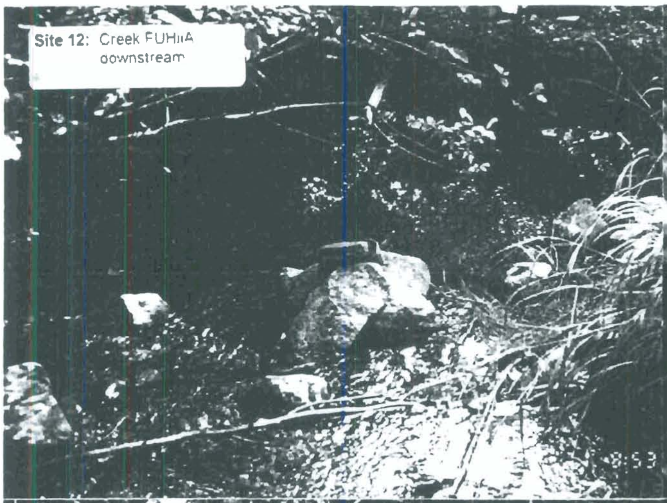

Site 9: Creek FUHii
upstream


Site 9: Creek FUHii
downstream

Site 10: Creek FUHii
downstream

Site 11: Creek FUHiiB
upstream


Site 12: Creek FUHiiA
upstream @ CV outlet

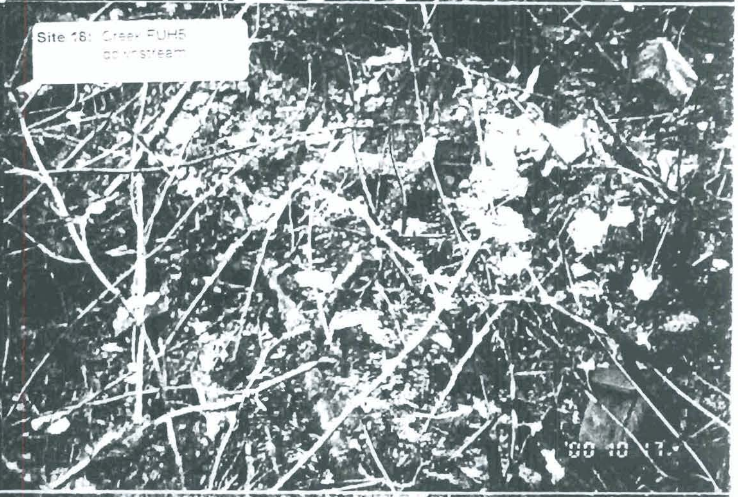

Site 12: Creek FUHiiA
downstream

Site 12: Creek FUHiiA
upstream

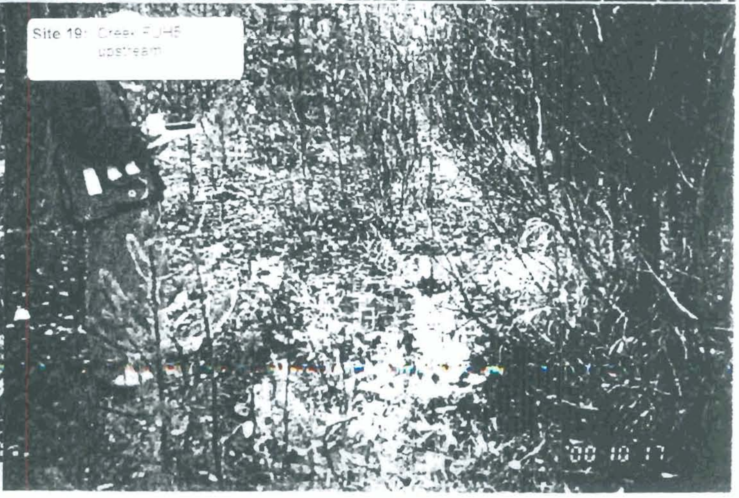
Site 13: Creek FUHiiA1
stream bed

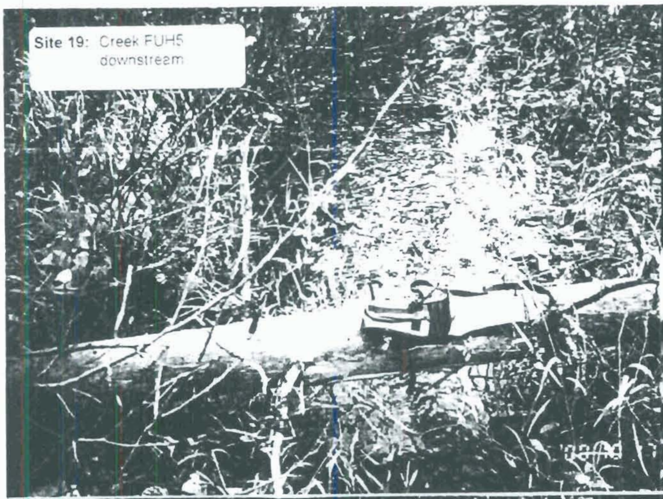
Site 14: Creek FUHiiC
upstream

Site 17: Creek FUH4
upstream

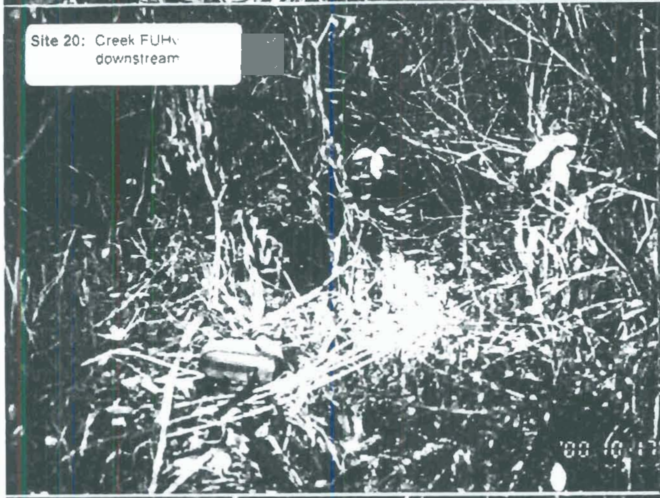

Site 18: Creek FUH5
downstream

Site 18: Creek FUH5
upstream

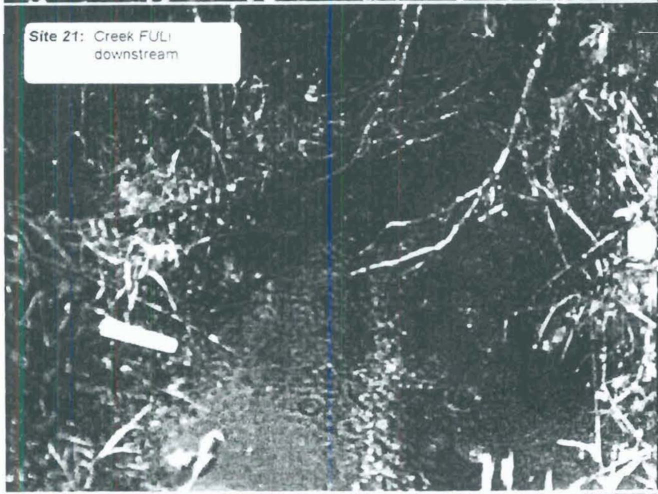

Site 19: Creek FUH6
upstream


Site 19: Creek FUH5
downstream

Site 20: Creek FUH
upstream

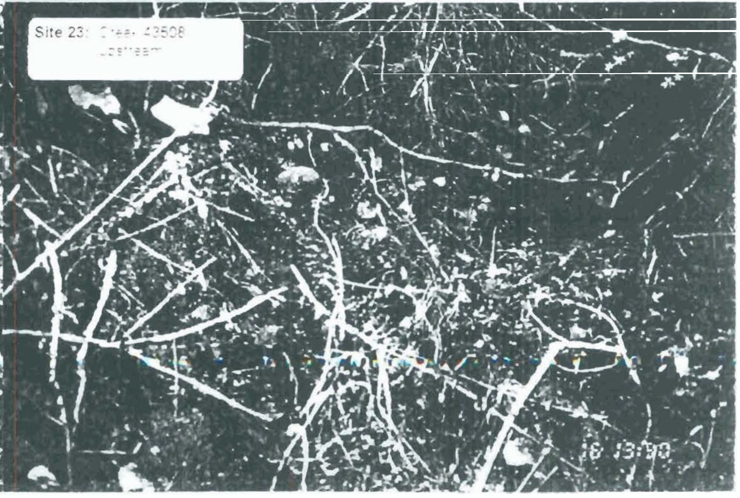

Site 20: Creek FUH
downstream

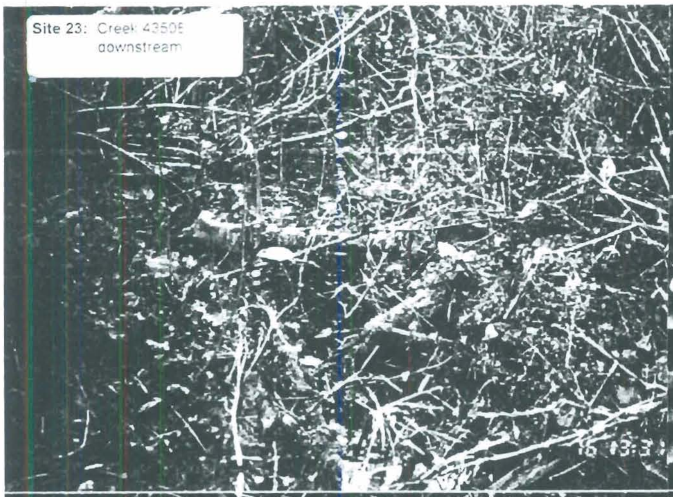
Site 21: Creek FUL
upstream

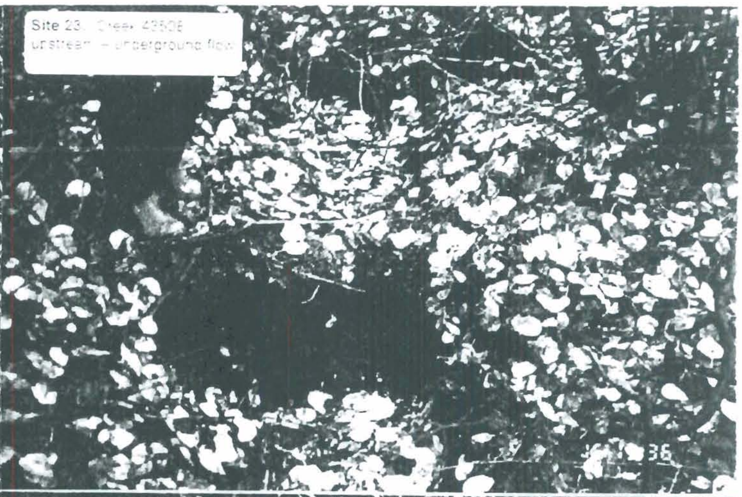

Site 21: Creek FUL
downstream

Site 22: Creek BAB5
upstream

Site 22: Creek BAB5
downstream

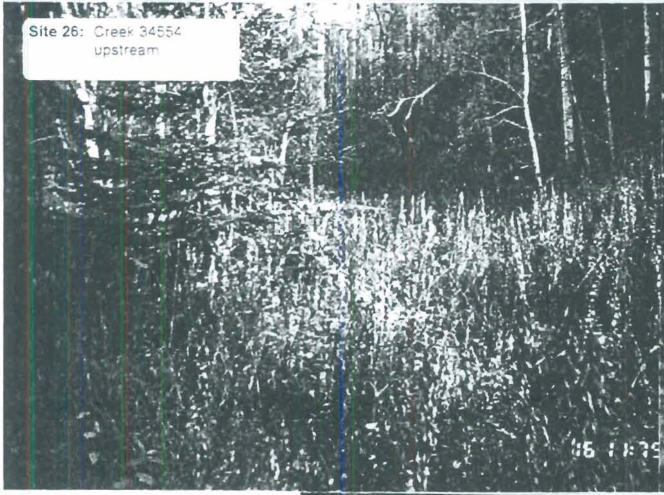

Site 23: Creek 43508
upstream


Site 23: Creek 43508 downstream


Site 23: Creek 43508 upstream – underground flow

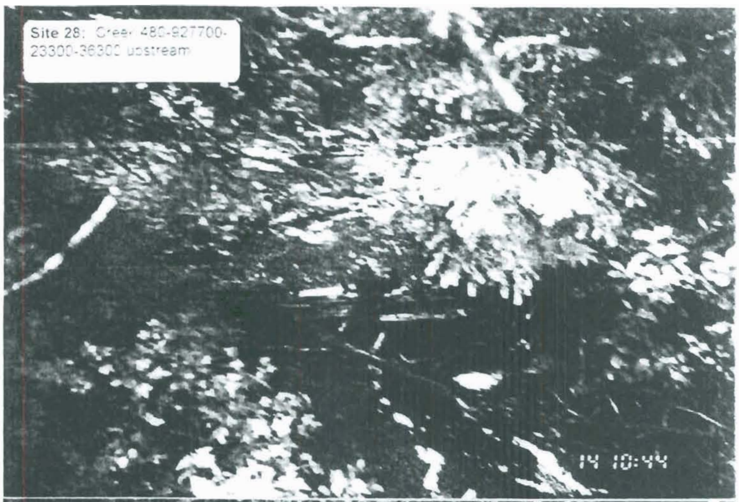
Site 24: Creek 43508 stream bed

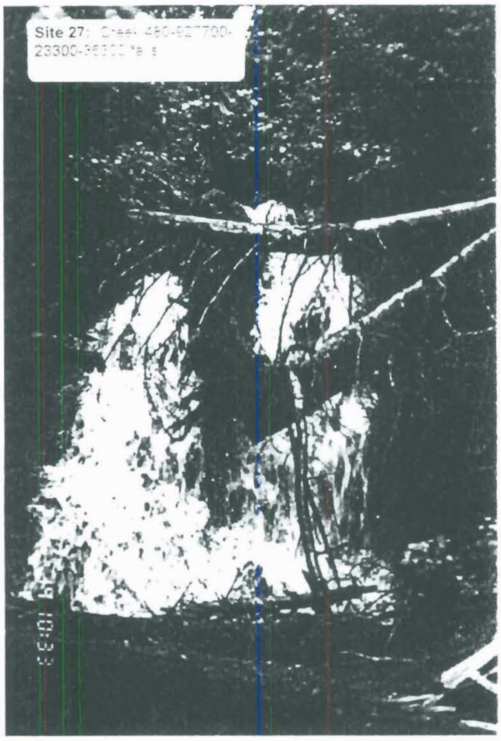
Site 24: Creek 43508 upstream

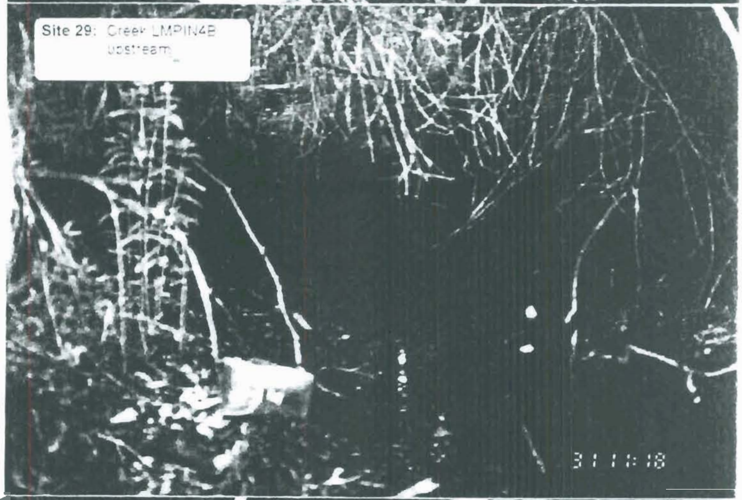

Site 26: Creek 34554 upstream

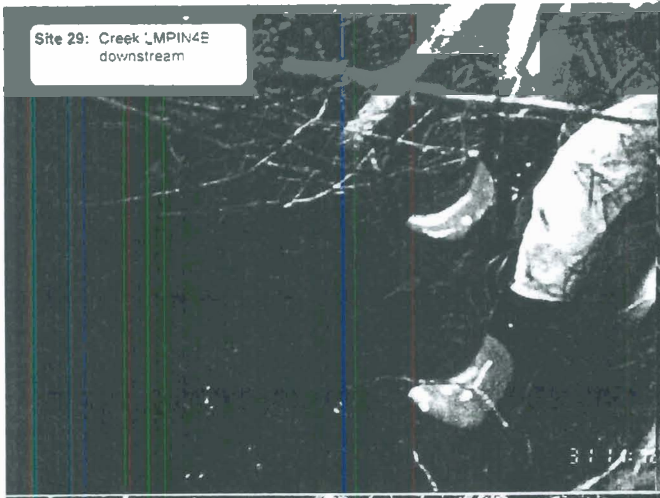
Site 27: Creek 480-927700-23300-38300 downstream

Site 27: Creek 480-927700-23300-38300 upstream

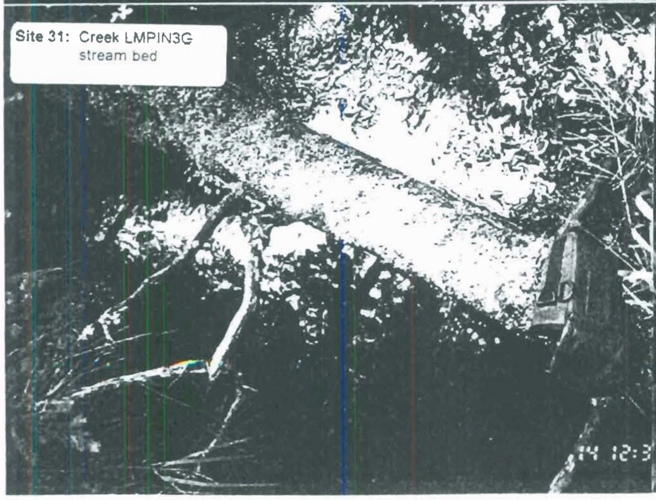

Site 28: Creek 480-927700-23300-36300 upstream

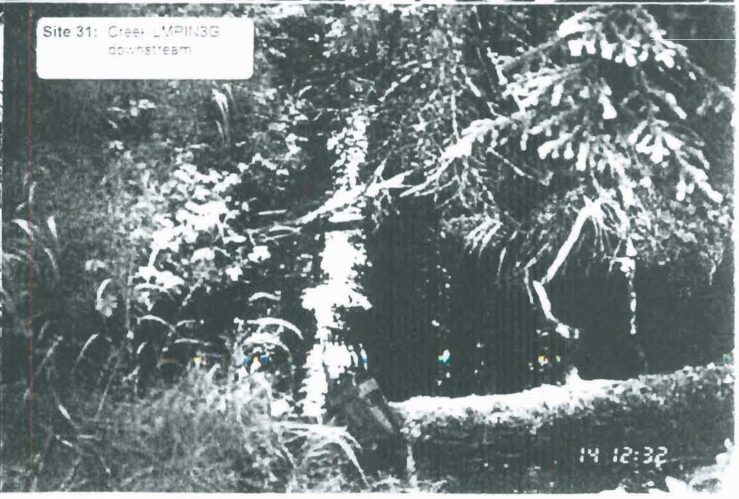

Site 27: Creek 480-927700-23300-36300 falls

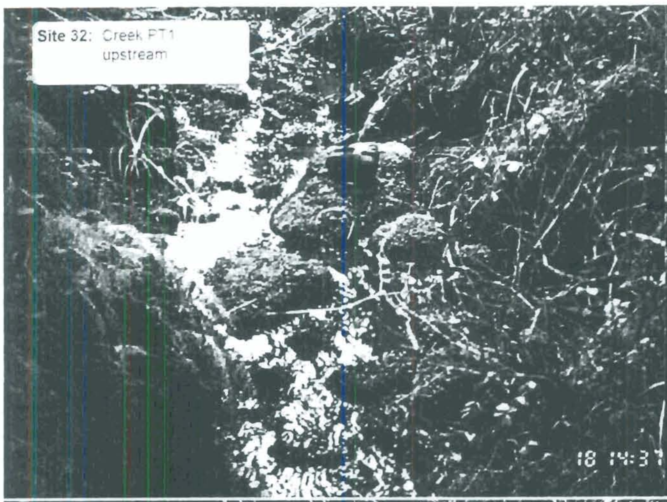

Site 29: Creek LMPIN4B upstream

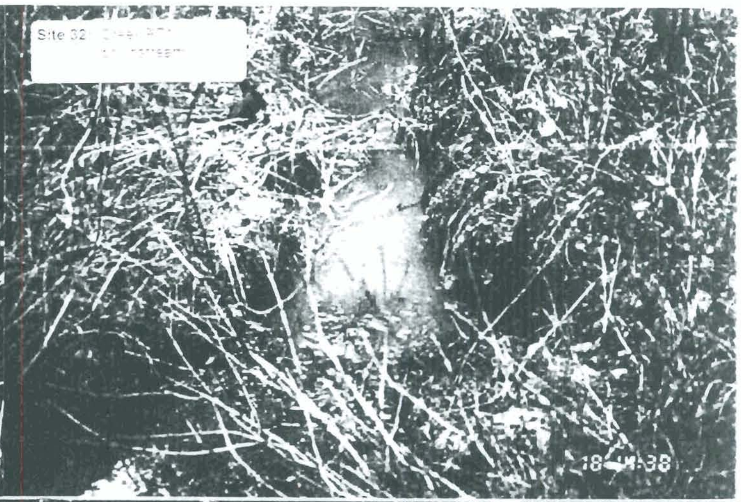

Site 29: Creek LMPIN4B downstream

Site 30: Creek LORDS1 upstream


Site 31: Creek LMPIN3G stream bed

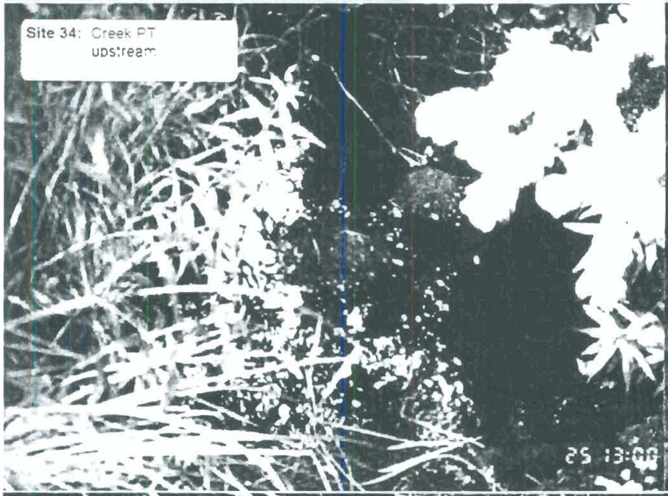

Site 31: Creek LMPIN3G downstream


Site 32: Creek PT1
upstream

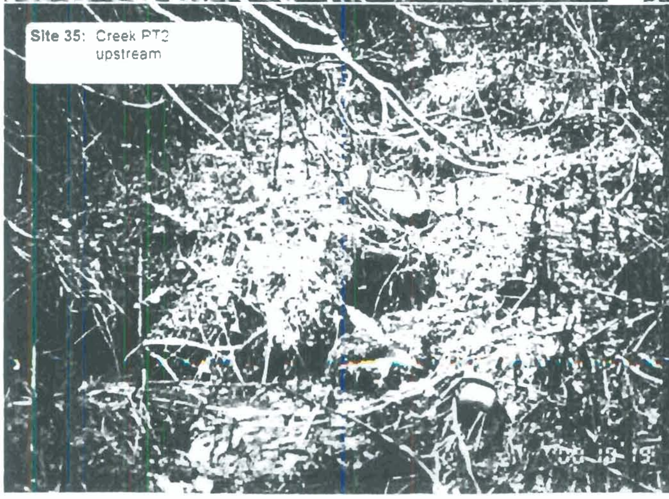

Site 32: Creek PT1
downstream

Site 33: Creek PT1
upstream

Site 33: Creek PT1
downstream


Site 34: Creek PT
upstream

Site 34: Creek PT
downstream


Site 35: Creek PT2
upstream

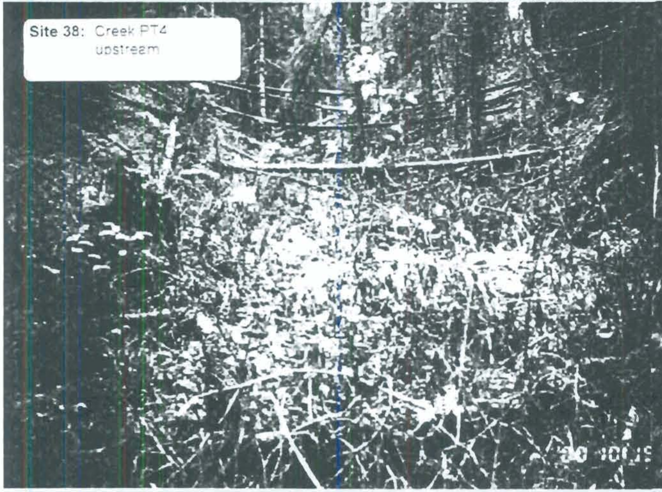
Site 35: Creek PT2
downstream

Site 36: Creek PT3
upstream

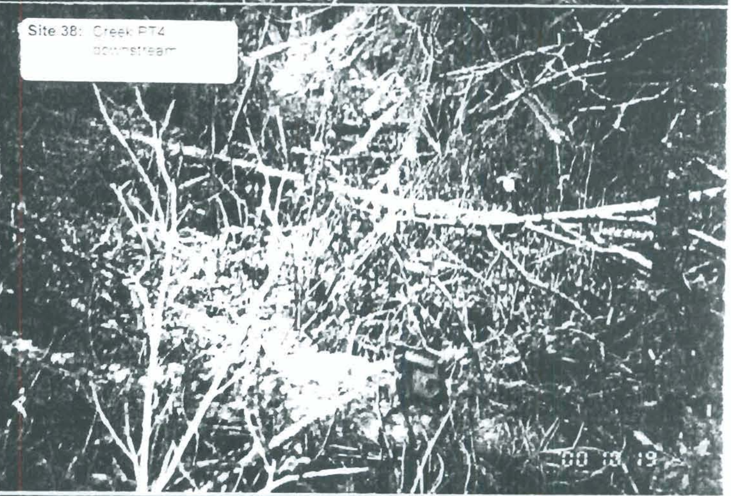
Site 36: Creek PT3
upstream from road

Site 37: Creek PT4
upstream

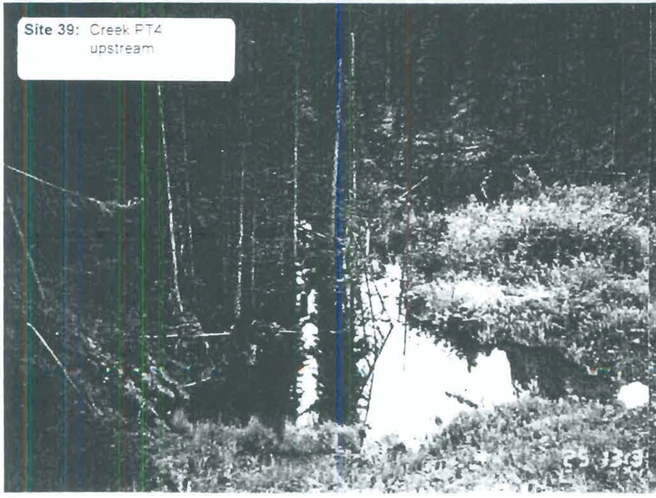
Site 37: Creek PT4
downstream



Site 38: Creek PT4
upstream

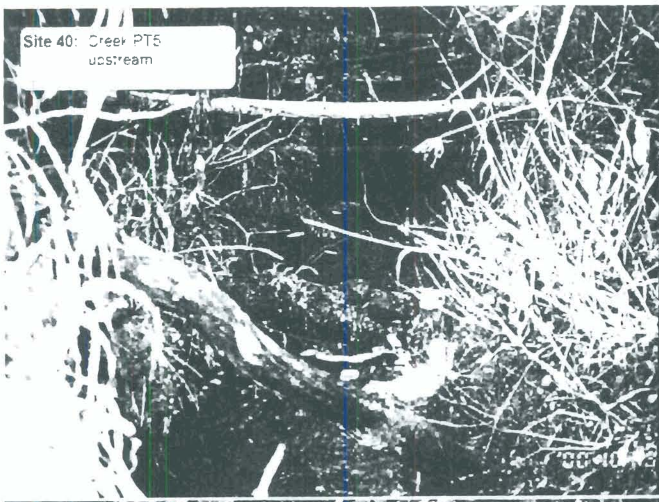


Site 38: Creek PT4
downstream

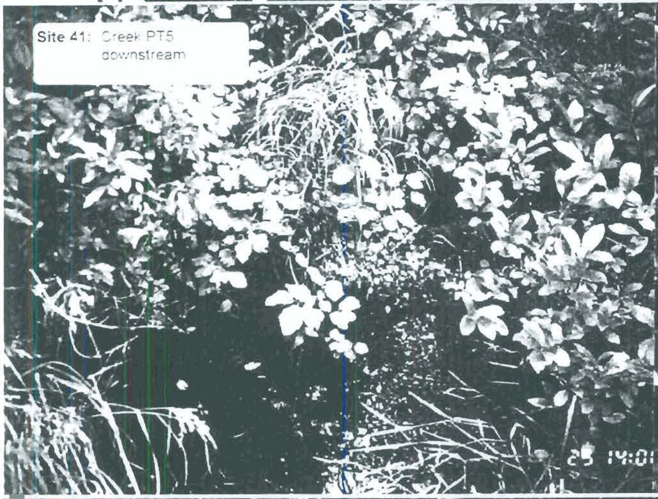


Site 39: Creek PT4
upstream

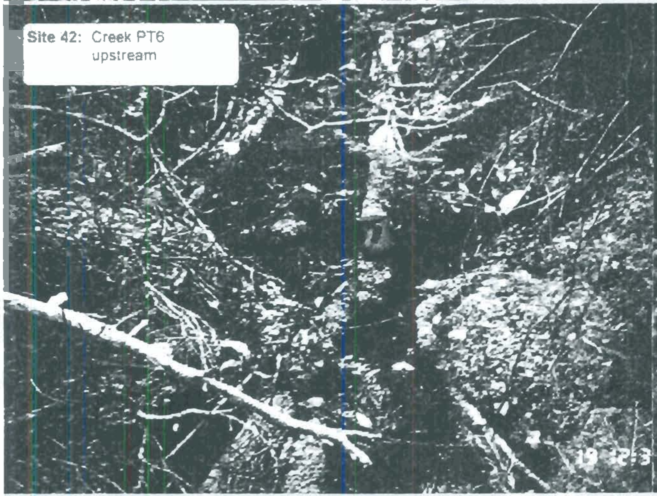
Site 39: Creek PT4
downstream

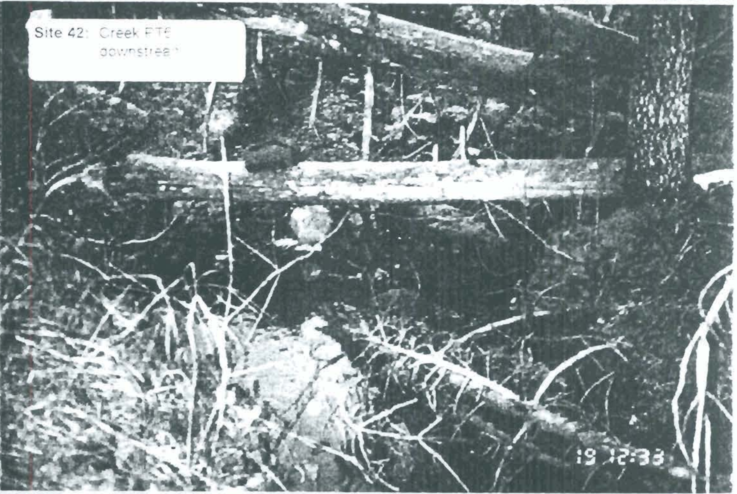

Site 40: Creek PT5
upstream

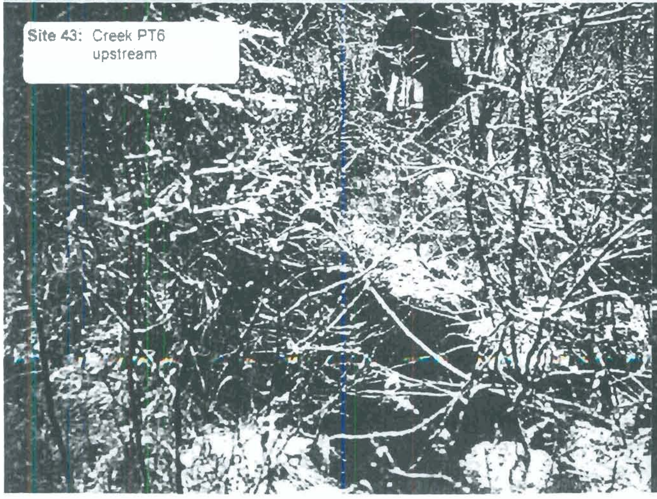
Site 40: Creek PT5
downstream


Site 41: Creek PT5
downstream

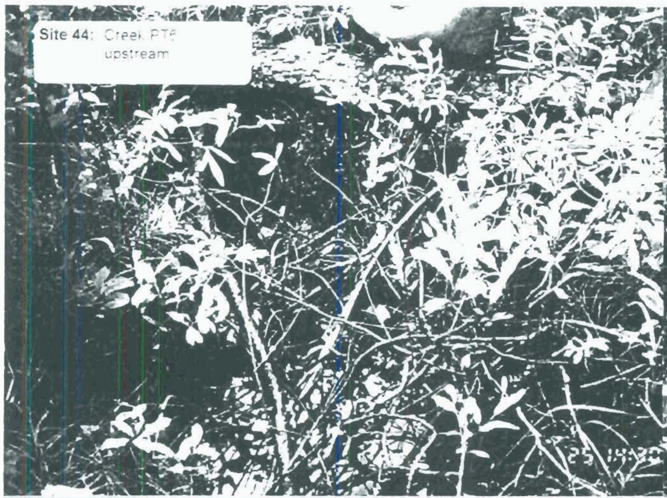
Site 41: Creek PT5
upstream


Site 42: Creek PT6
upstream

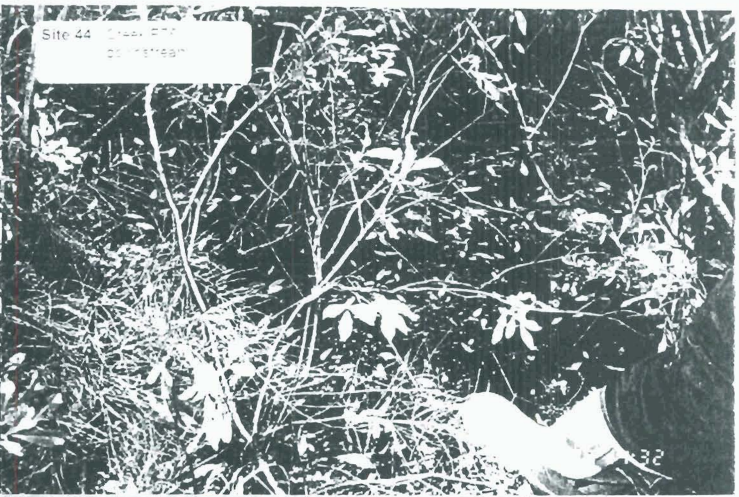

Site 42: Creek PT6
downstream


Site 43: Creek PT6
upstream

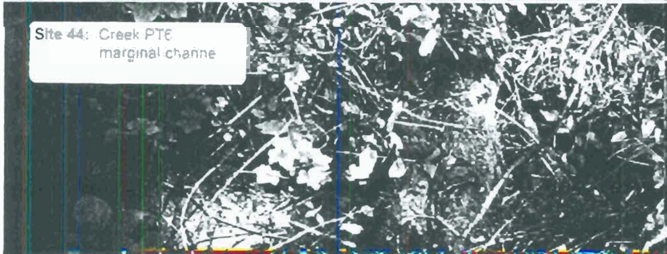
Site 43: Creek PT6
cross section



Site 44: Creek PT6
upstream

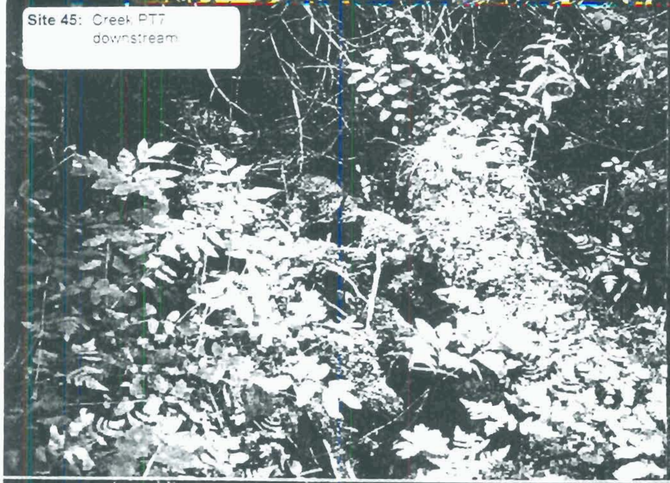


Site 44 Creek PT6
downstream

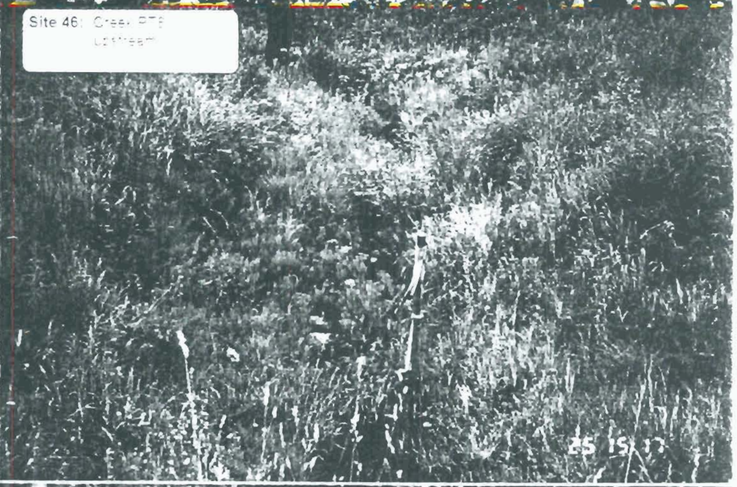


Site 44: Creek PT6
marginal channe

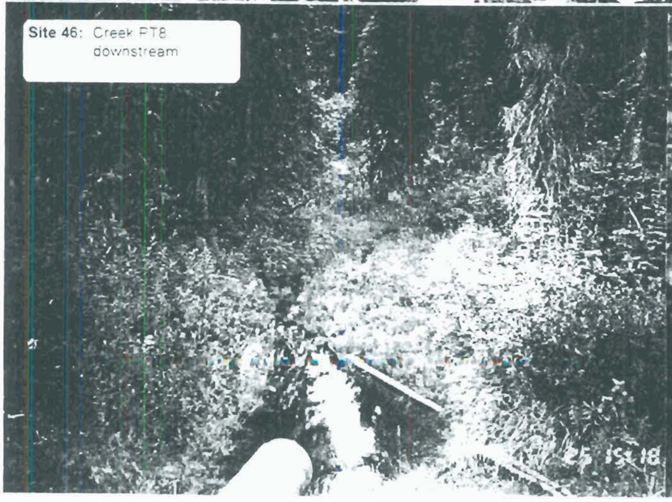
Site 45: Creek PT7
upstream



Site 45: Creek PT7
downstream

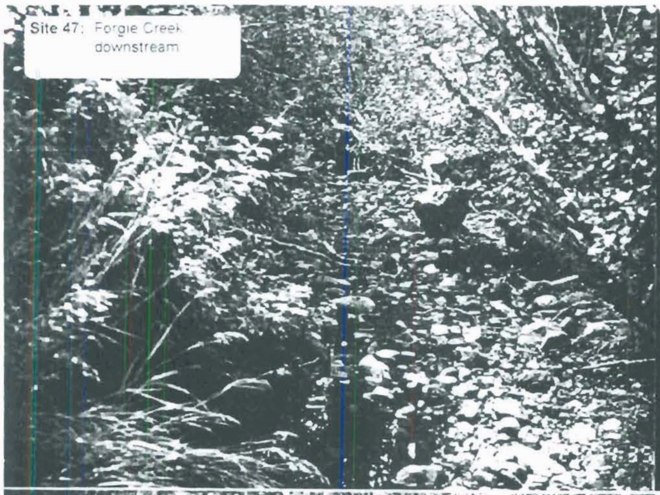


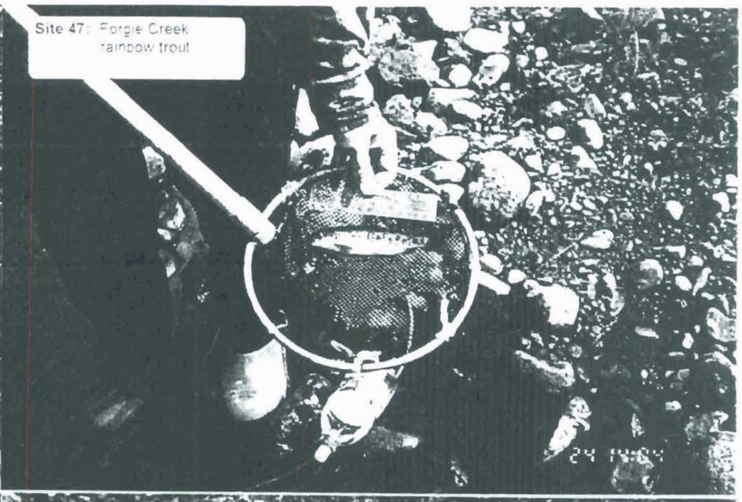
Site 46: Creek PT8
upstream

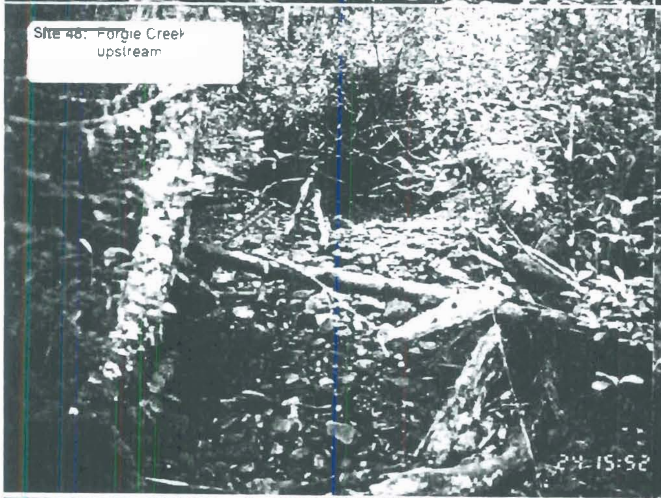


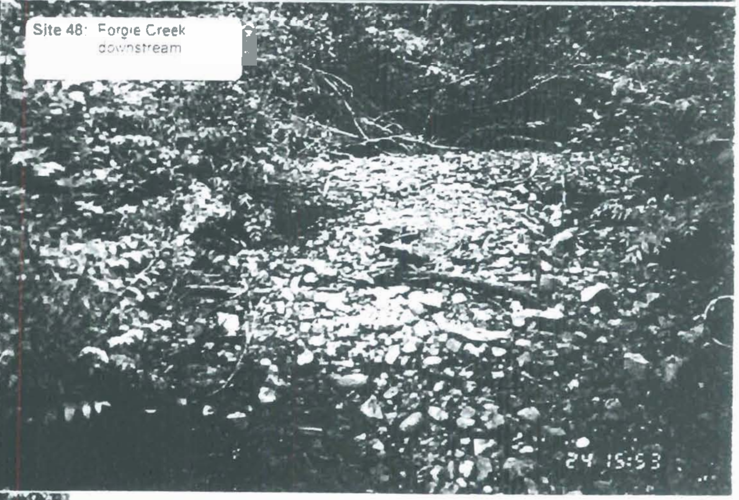
Site 46: Creek PT8
downstream

Site 47: Forgie Creek
upstream


Site 47: Forgie Creek
downstream


Site 47: Forgie Creek
rainbow trout


Site 48: Forgie Creek
upstream


Site 48: Forgie Creek
downstream

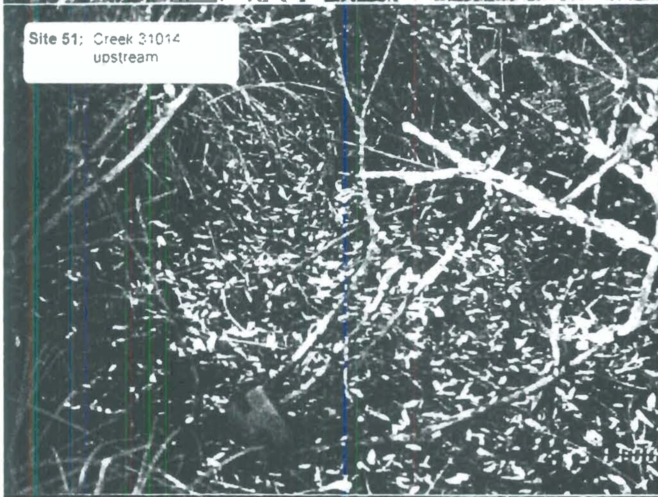
Site 49: Forgie Creek
upstream

Site 49: Forgie Creek
downstream

Site 49: Forgie Creek
cascade

Site 50: Forgie Creek
upstream

Site 50: Forgie Creek
downstream



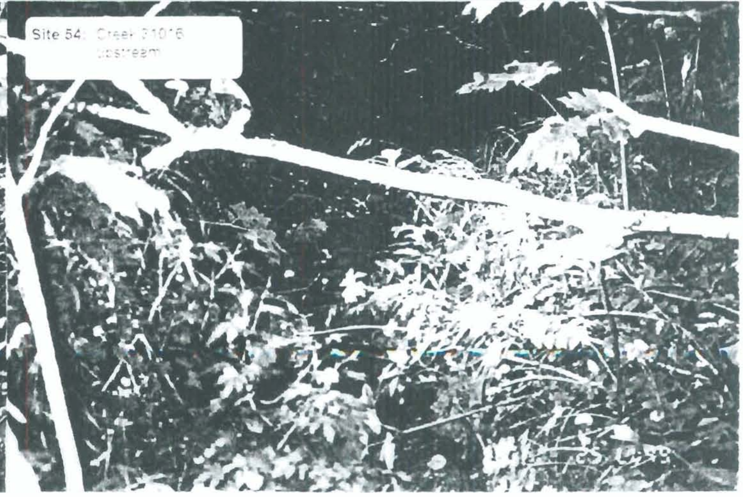
Site 51: Creek 31014
upstream

Site 51: Creek 31014
downstream

Site 52: Creek 31014
upstream

Site 52: Creek 31014
downstream

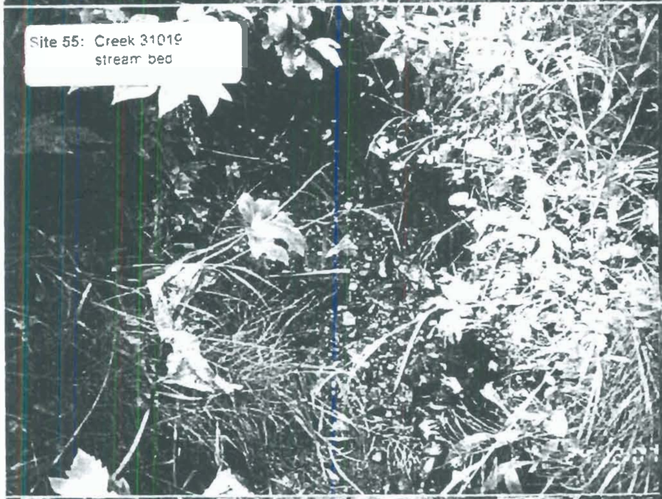
Site 53: Creek 31015
upstream



Site 54: Creek 31016
upstream

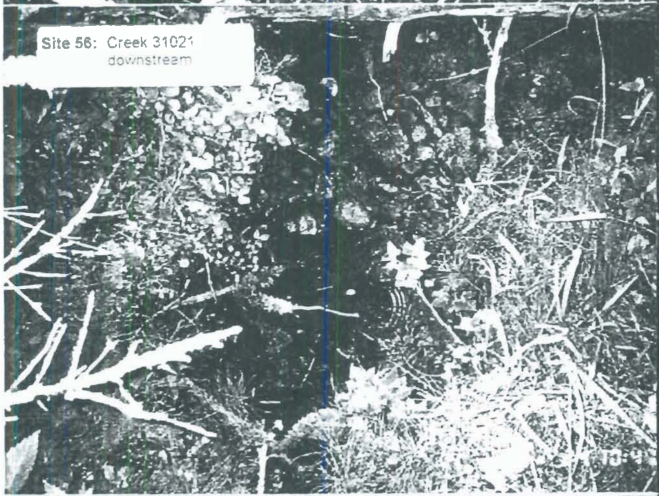
Site 54: Creek 31016
downstream

Site 55: Creek 31019
upstream



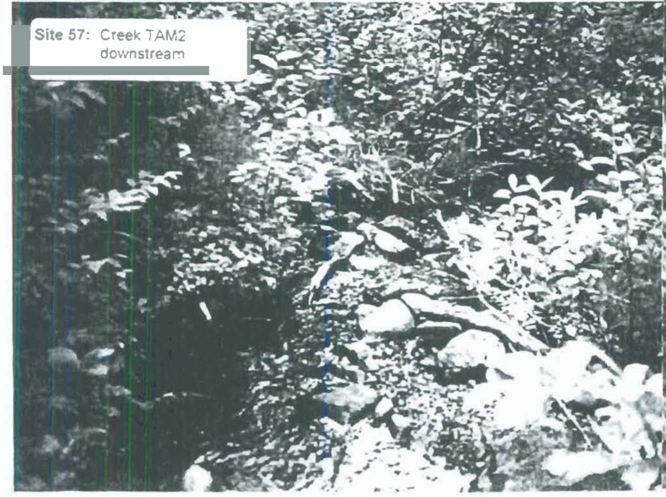
Site 55: Creek 31019
stream bed

Site 56: Creek 31021
upstream



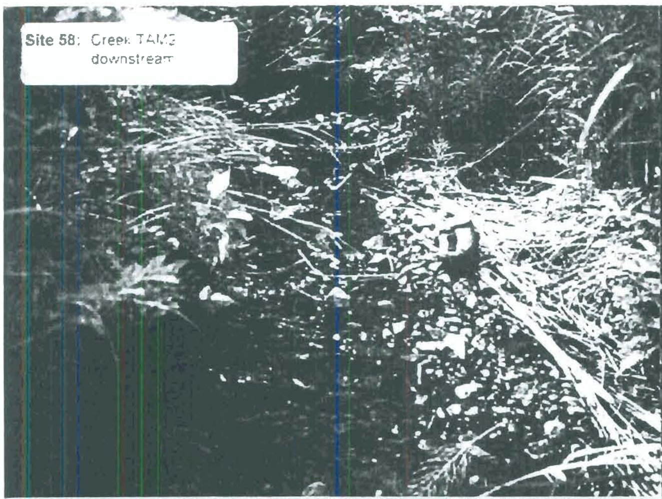
Site 56: Creek 31021
downstream

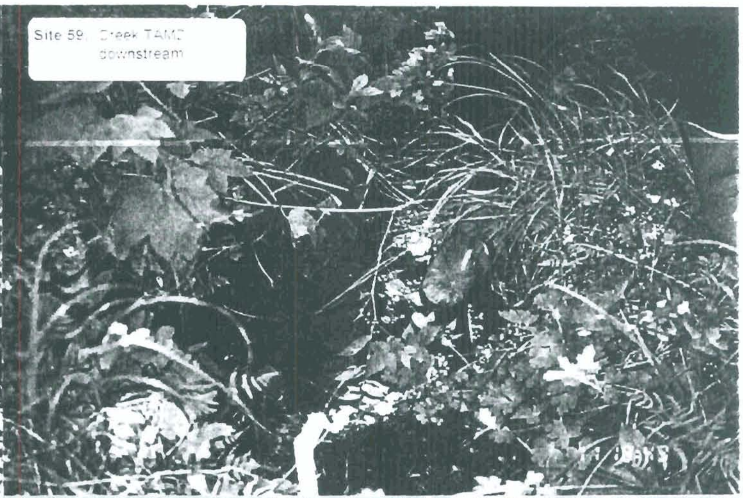
Site 57: Creek TAM2
upstream



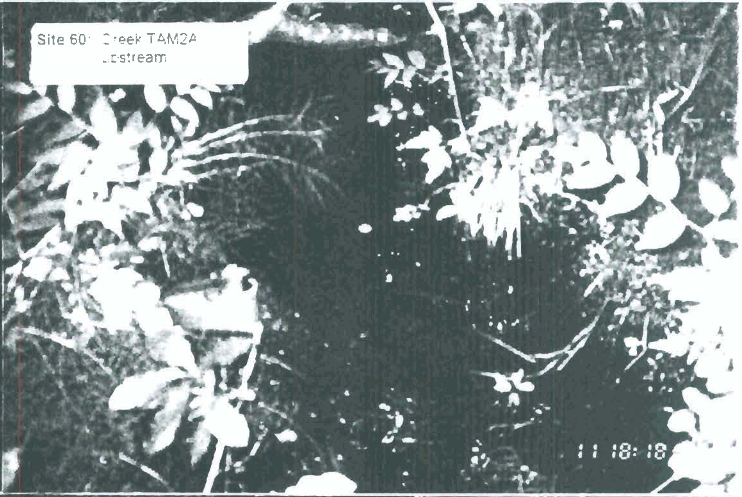
Site 57: Creek TAM2
downstream

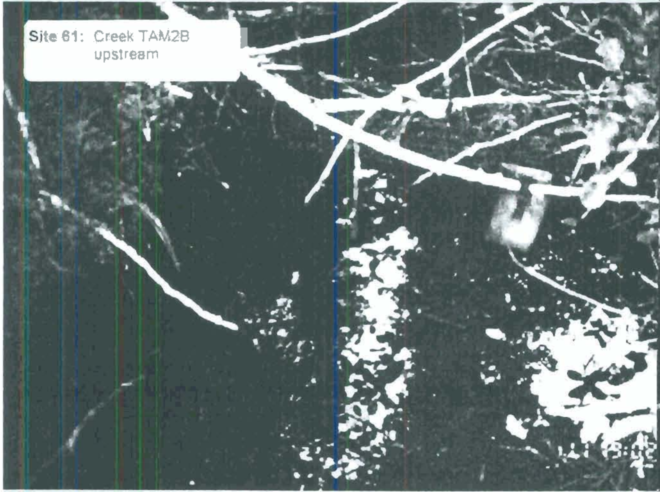
Site 58: Creek TAM2
upstream


Site 58: Creek TAM2 downstream


Site 59: Creek TAM2 downstream

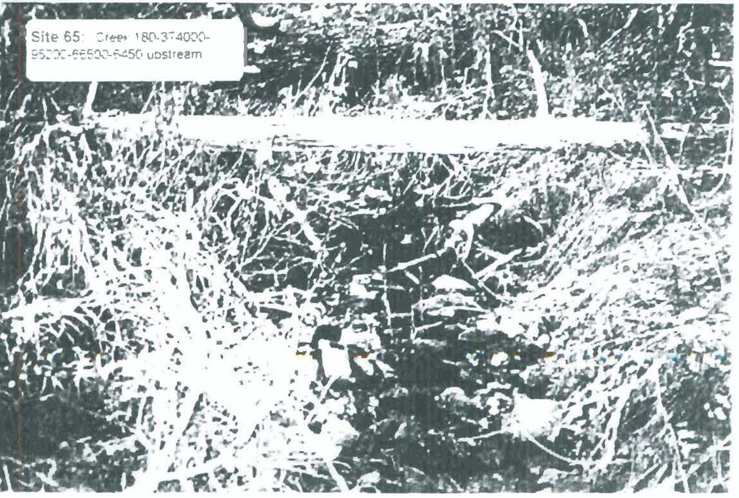
Site 60: Creek TAM2A upstream – water inflow from recently build road


Site 60: Creek TAM2A upstream

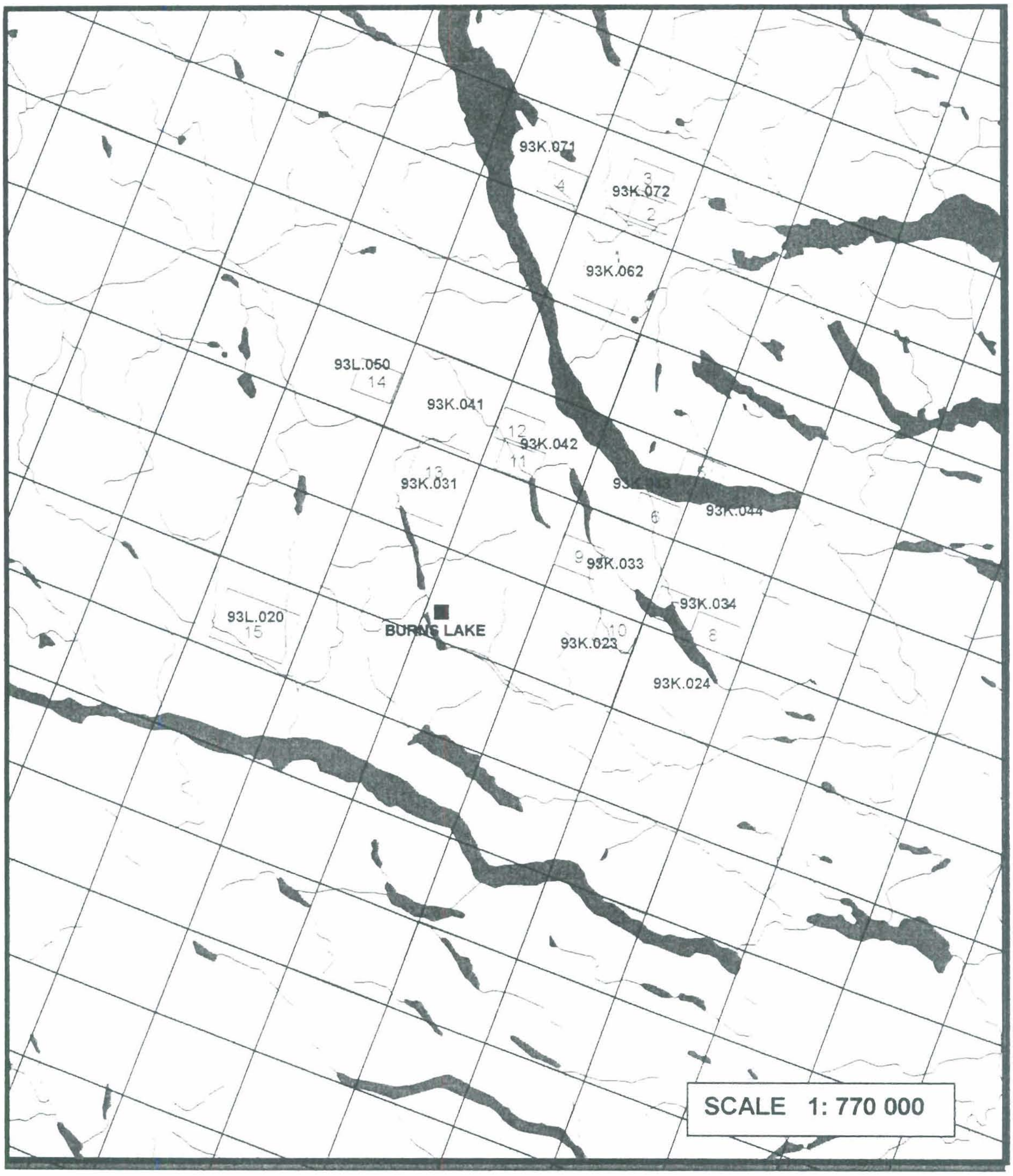

Site 61: Creek TAM2B upstream

Site 62: Creek 460-924300-90900 downstream

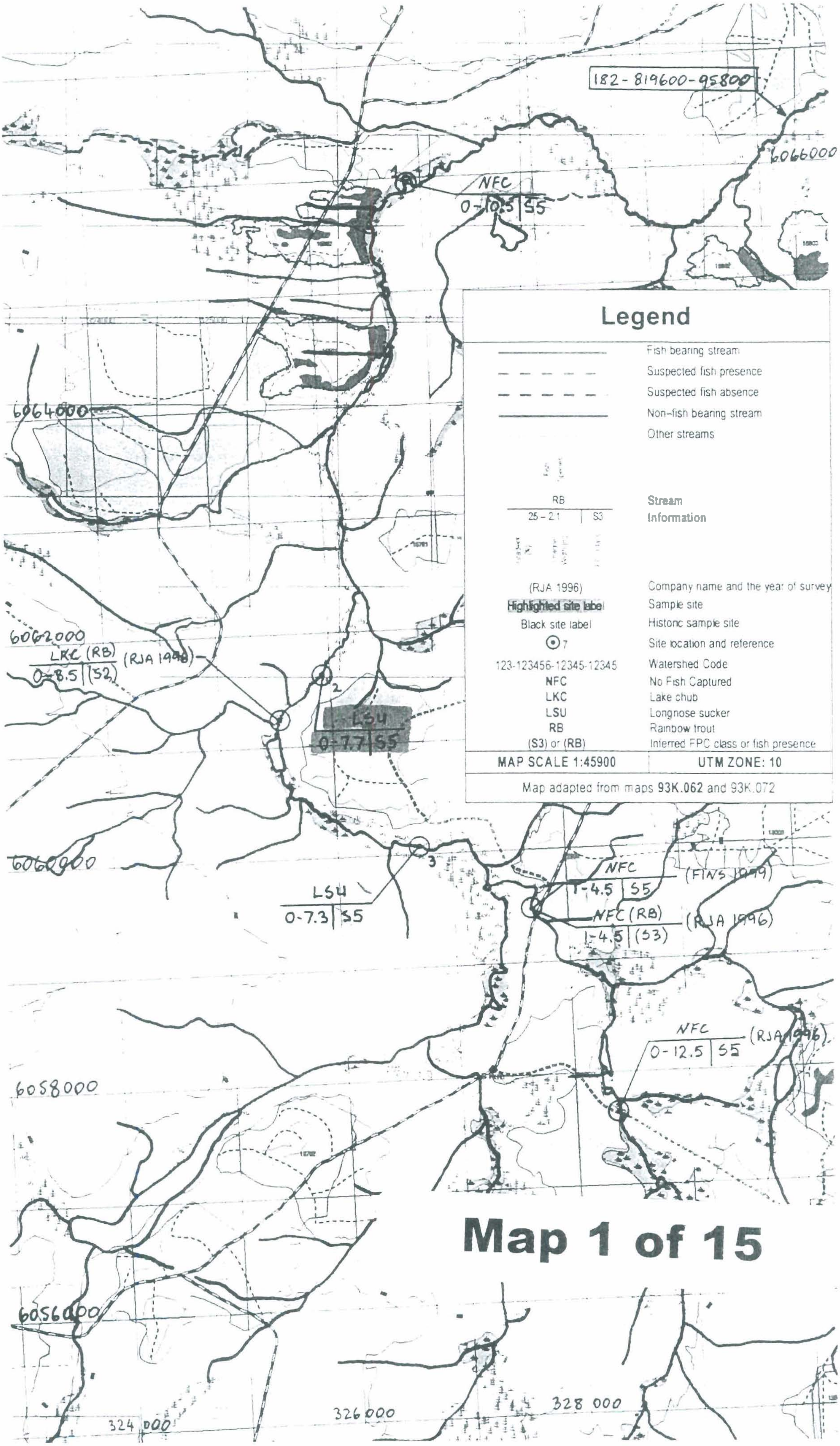
Site 64: Creek 36.9km downstream


Site 65: Creek 180-374000-95200-66500-6450 upstream

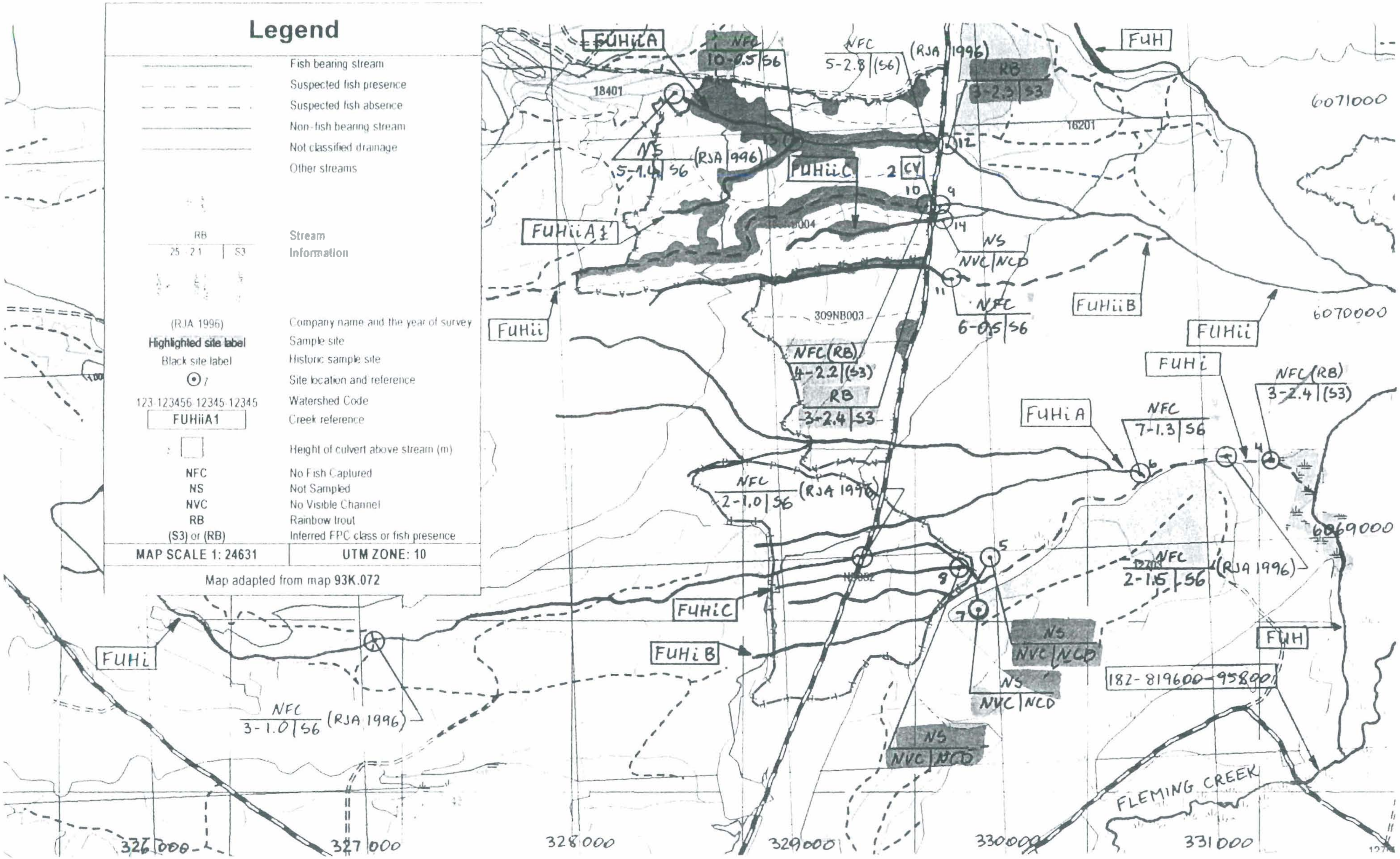
Appendix III: Hardcopy Maps (Including Key map)


93K.071
4
3
93K.072
2
93K.062
93L.050
14
93K.041
12
93K.042
11
13
93K.031
93K.043
6
93K.044
9
93K.033
93K.034
8
93L.020
15
BURNS LAKE
10
93K.023
93K.024
SCALE 1: 770 000

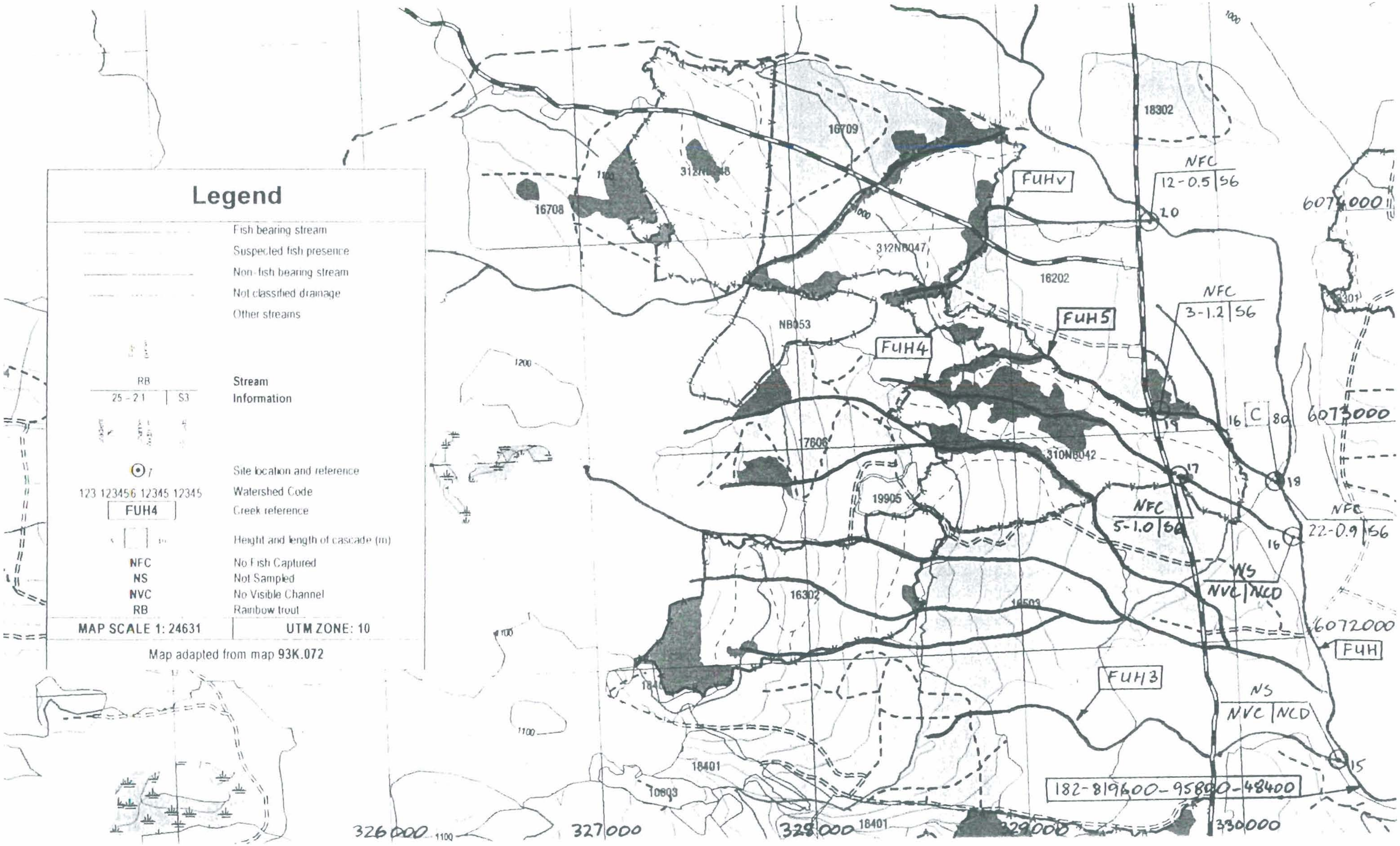
Key map


182-819600-95800
6066000
NFC
0-10.5 | S5
6064000
6062000
LKC (RB)
0-8.5 | (S2)
(RJA 1998)
2
LSU
0-7.7 | S5
3
LSU
0-7.3 | S5
6060000
NFC
1-4.5 | S5
(FINS 1999)
NFC (RB)
1-4.5 | (S3)
(RJA 1996)
NFC
0-12.5 | S5
(RJA 1996)
6058000
6056000
324 000
326 000
328 000
Legend
Fish bearing stream
Suspected fish presence
Suspected fish absence
Non-fish bearing stream
Other streams
RB
25 – 2.1 | S3
Stream Information
(RJA 1996)
Company name and the year of survey
Highlighted site label
Sample site
Black site label
Historic sample site
⊙7
Site location and reference
123-123456-12345-12345
Watershed Code
NFC
No Fish Captured
LKC
Lake chub
LSU
Longnose sucker
RB
Rainbow trout
(S3) or (RB)
Inferred FPC class or fish presence
MAP SCALE 1:45900
UTM ZONE: 10
Map adapted from maps 93K.062 and 93K.072

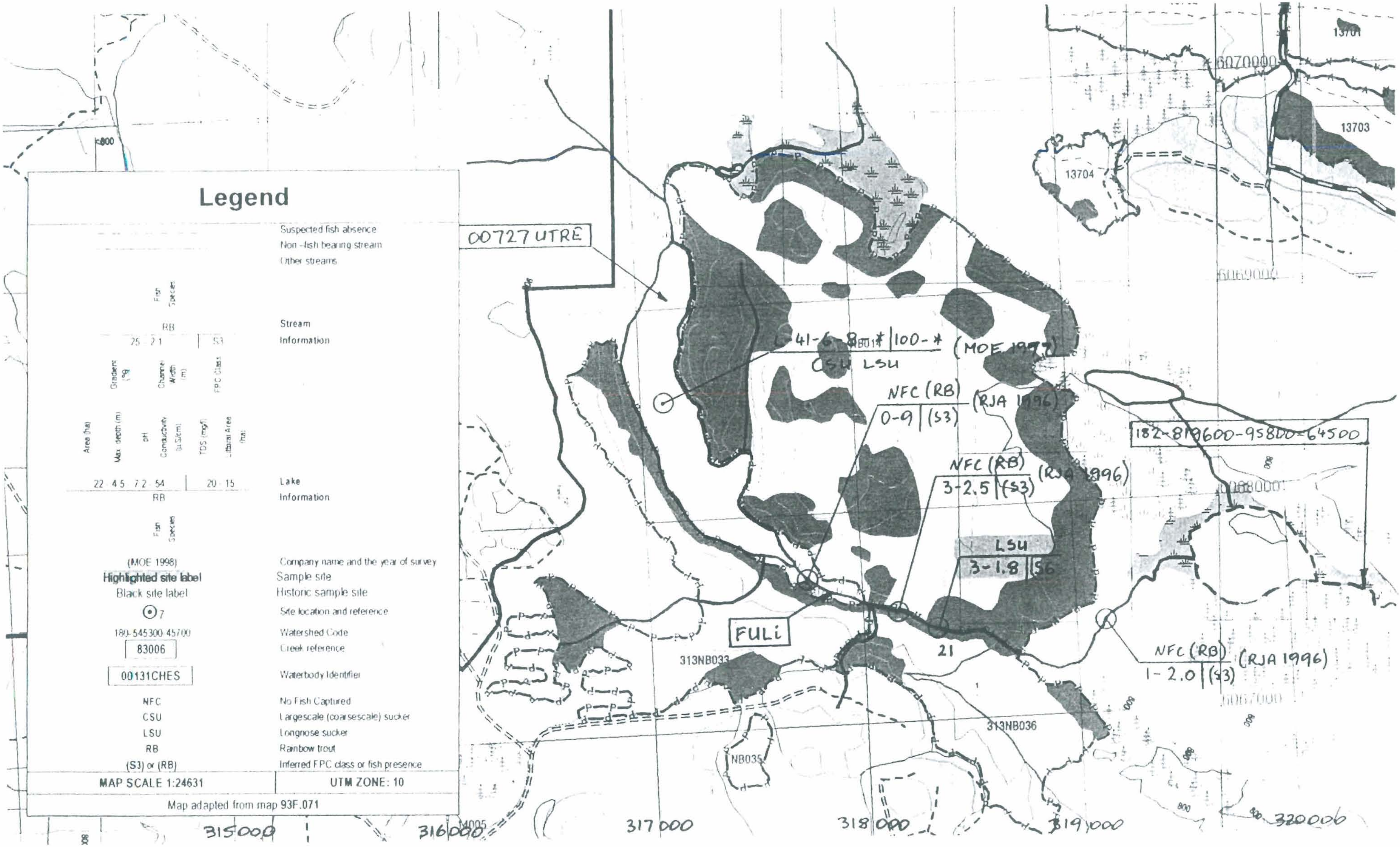
Map 1 of 15


Legend
Fish bearing stream
Suspected fish presence
Suspected fish absence
Non-fish bearing stream
Not classified drainage
Other streams
RB
25 - 2.1 | S3
Stream Information
(RJA 1996)
Company name and the year of survey
Highlighted site label
Sample site
Black site label
Historic sample site
Site location and reference
123-123456-12345-12345
Watershed Code
FUHiiA1
Creek reference
Height of culvert above stream (m)
NFC
No Fish Captured
NS
Not Sampled
NVC
No Visible Channel
RB
Rainbow trout
(S3) or (RB)
Inferred FPC class or fish presence
MAP SCALE 1: 24631
UTM ZONE: 10
Map adapted from map 93K.072
FUHiiA
NFC
10-0.5|S6
NFC
5-2.8|(S6)
(RJA 1996)
RB
3-2.3|S3
FUH
18401
16201
6071000
NS
5-1.4|S6
(RJA 1996)
FUHiiC
2
CV
12
10
9
14
FUHiiA1
309NB004
NS
NVC|NCD
11
NFC
6-0.5|S6
FUHiiB
FUHii
309NB003
FUHii
6070000
NFC (RB)
4-2.2|(S3)
RB
3-2.4|S3
FUHi
NFC (RB)
3-2.4|(S3)
FUHiA
NFC
7-1.3|S6
6
4
NFC
2-1.0|S6
(RJA 1996)
6069000
5
8
NFC
2-1.5|S6
(RJA 1996)
FUHiC
7
NS
NVC|NCD
FUHi
FUHiB
FUH
NS
NVC|NCD
182-819600-958001
NFC
3-1.0|S6
(RJA 1996)
NS
NVC|NCD
FLEMING CREEK
326 000
327 000
328 000
329 000
330000
331 000

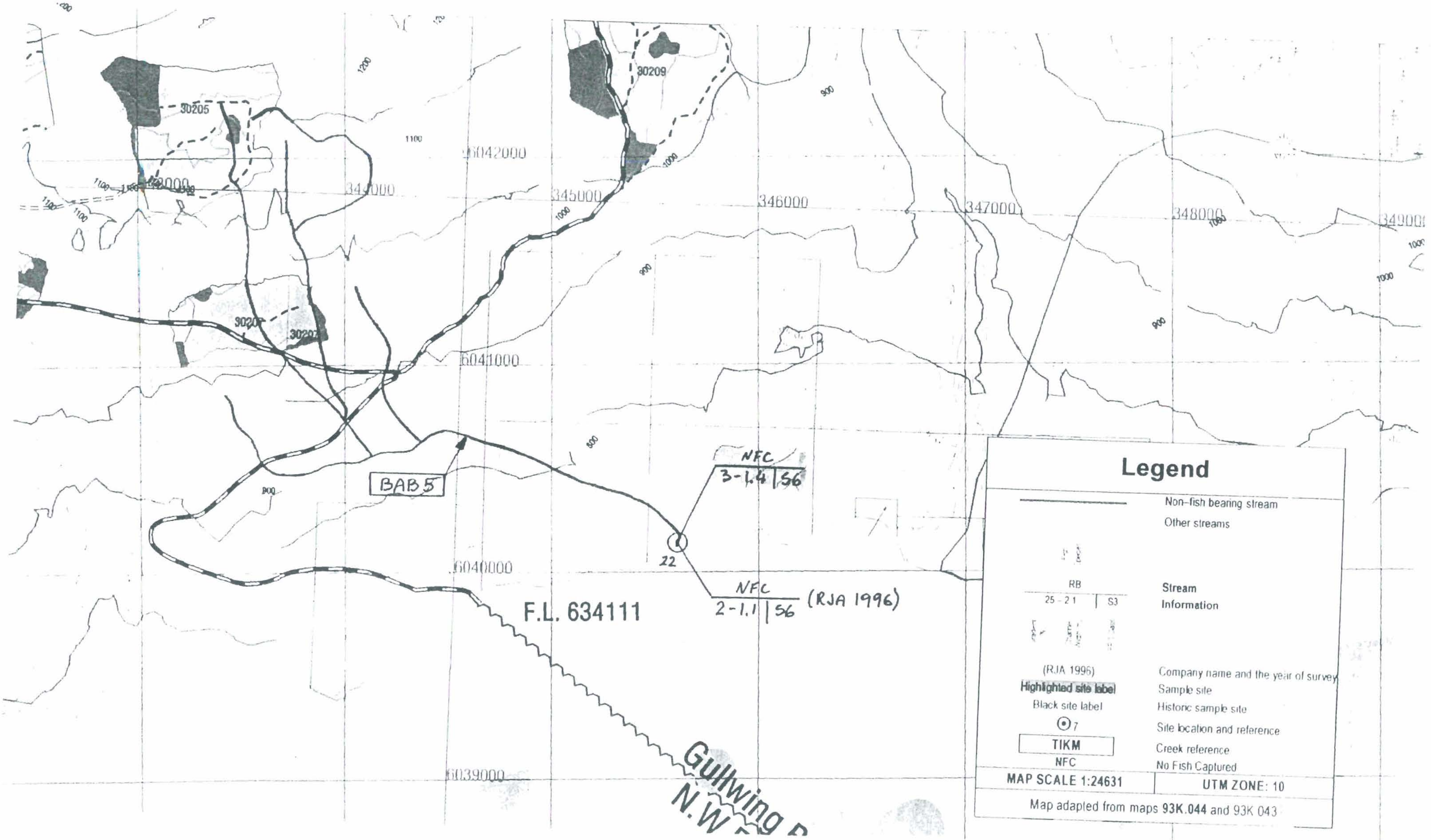
Map 2 of 15


Legend
Fish bearing stream
Suspected fish presence
Non-fish bearing stream
Not classified drainage
Other streams
RB
25 - 2.1 | S3
Stream Information
Site location and reference
123 123456 12345 12345
Watershed Code
FUH4
Creek reference
Height and length of cascade (m)
NFC
No Fish Captured
NS
Not Sampled
NVC
No Visible Channel
RB
Rainbow trout
MAP SCALE 1: 24631
UTM ZONE: 10
Map adapted from map 93K.072
16709
16708
312NB048
312NB047
18302
16202
NB053
FUHv
FUH5
FUH4
FUH3
FUH
NFC
12-0.5 | 56
20
607 4000
NFC
3-1.2 | 56
16 | C | 80
6073000
19
17
18
310NB042
17606
19905
NFC
5-1.0 | 56
NFC
22-0.9 | 56
16
WS
NVC | NCD
6072000
16302
16503
NS
NVC | NCD
15
182-819600-95800-48400
18401
10603
1200
1100
1000
326000
327000
328000
329000
330000

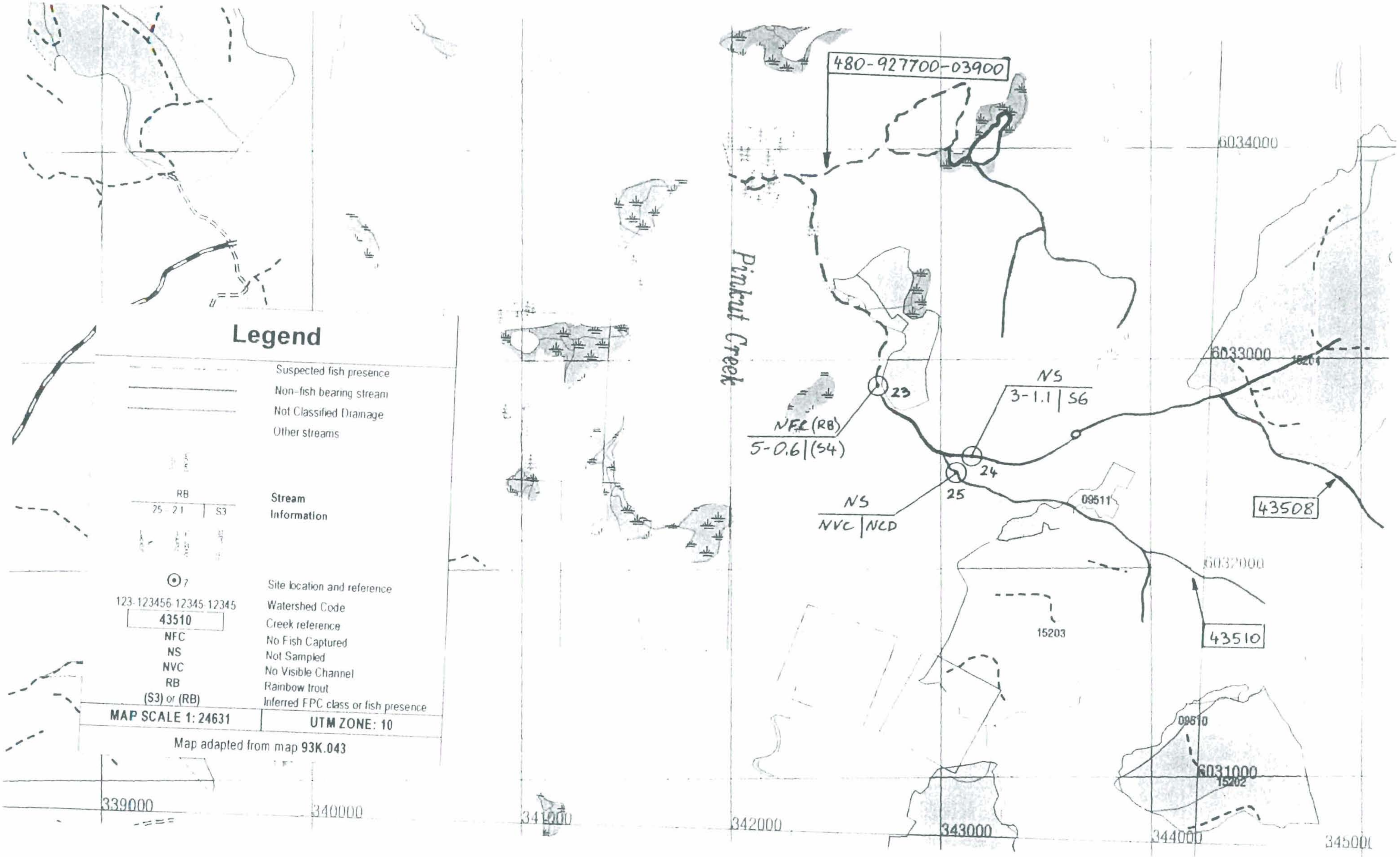
Map 3 of 15


Legend
Suspected fish absence
Non-fish bearing stream
Other streams
Fish Species
RB
25 2.1 S3
Stream Information
Gradient (%)
Channel Width (m)
FPC Class
Area (ha)
Max depth (m)
pH
Conductivity (µS/cm)
TDS (mg/l)
Littoral Area (ha)
22 4.5 7.2 54 20 15
RB
Lake Information
Fish Species
(MOE 1998)
Company name and the year of survey
Highlighted site label
Sample site
Black site label
Historic sample site
7
Site location and reference
180-545300-45700
Watershed Code
83006
Creek reference
00131CHES
Waterbody Identifier
NFC
No Fish Captured
CSU
Largescale (coarsescale) sucker
LSU
Longnose sucker
RB
Rainbow trout
(S3) or (RB)
Inferred FPC class or fish presence
MAP SCALE 1:24631
UTM ZONE: 10
Map adapted from map 93F.071
00727UTRE
41-6-8 * | 100-*
NB014
(MOE 1997)
CSU LSU
NFC (RB)
0-9 | (S3)
(RJA 1996)
NFC (RB)
3-2.5 | (S3)
(RJA 1996)
LSU
3-1.8 | S6
FULi
21
313NB033
313NB036
NB035
NFC (RB)
1-2.0 | (S3)
(RJA 1996)
182-819600-95800-64500
13701
13703
13704
6070000
6069000
6068000
6067000
800
315000
316000
317000
318000
319000
320000

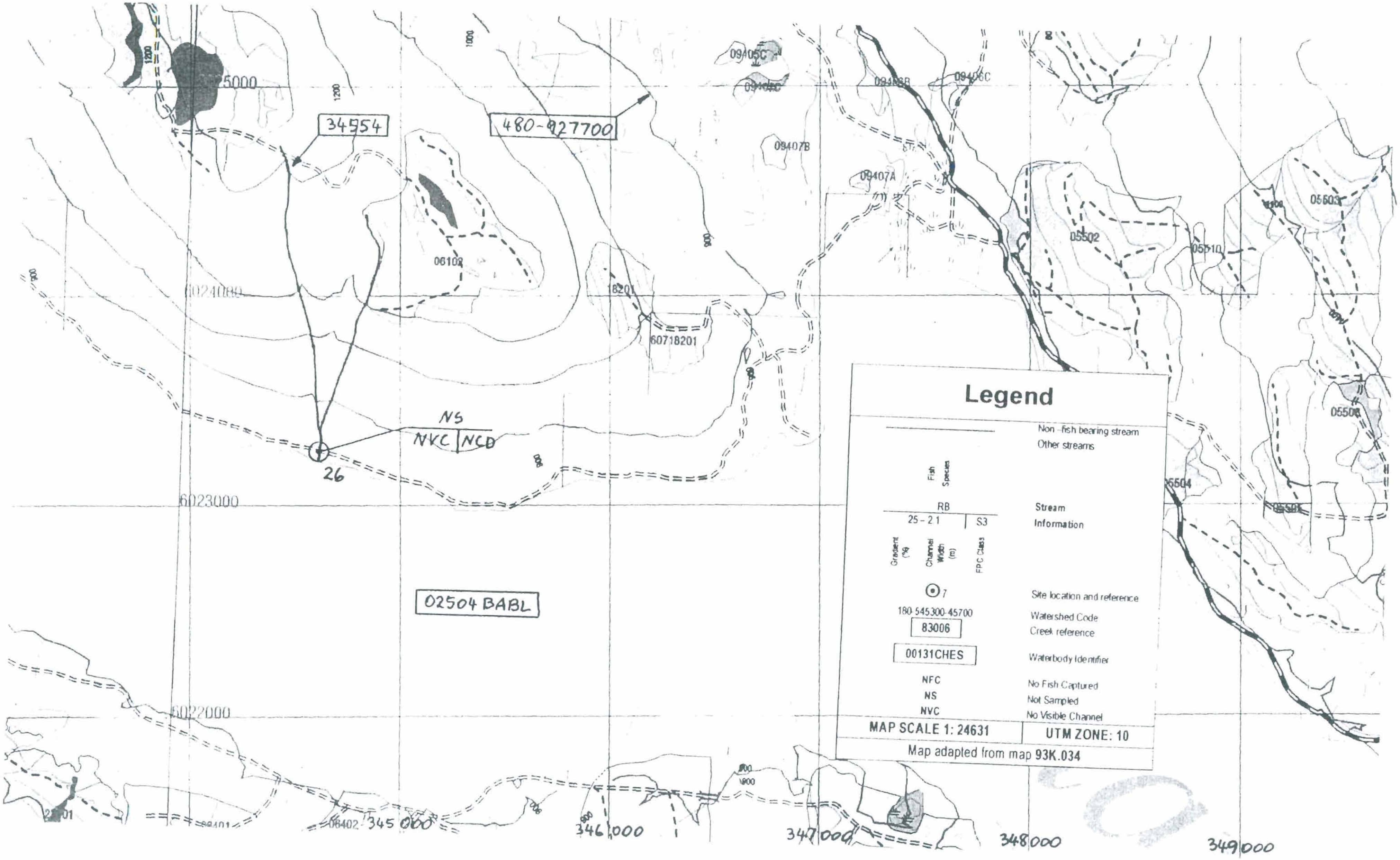
Map 4 of 15


30205
30209
30206
30207
1100
1200
6042000
6041000
6040000
6039000
344000
345000
346000
347000
348000
349000
1000
900
BAB 5
NFC
3-1.4 | S6
22
NFC
2-1.1 | S6
(RJA 1996)
F.L. 634111
Gullwing
N.W.
Legend
Non-fish bearing stream
Other streams
RB
25 - 2.1 | S3
Stream Information
(RJA 1996)
Company name and the year of survey
Highlighted site label
Sample site
Black site label
Historic sample site
⊙7
Site location and reference
TIKM
Creek reference
NFC
No Fish Captured
MAP SCALE 1:24631
UTM ZONE: 10
Map adapted from maps 93K.044 and 93K 043

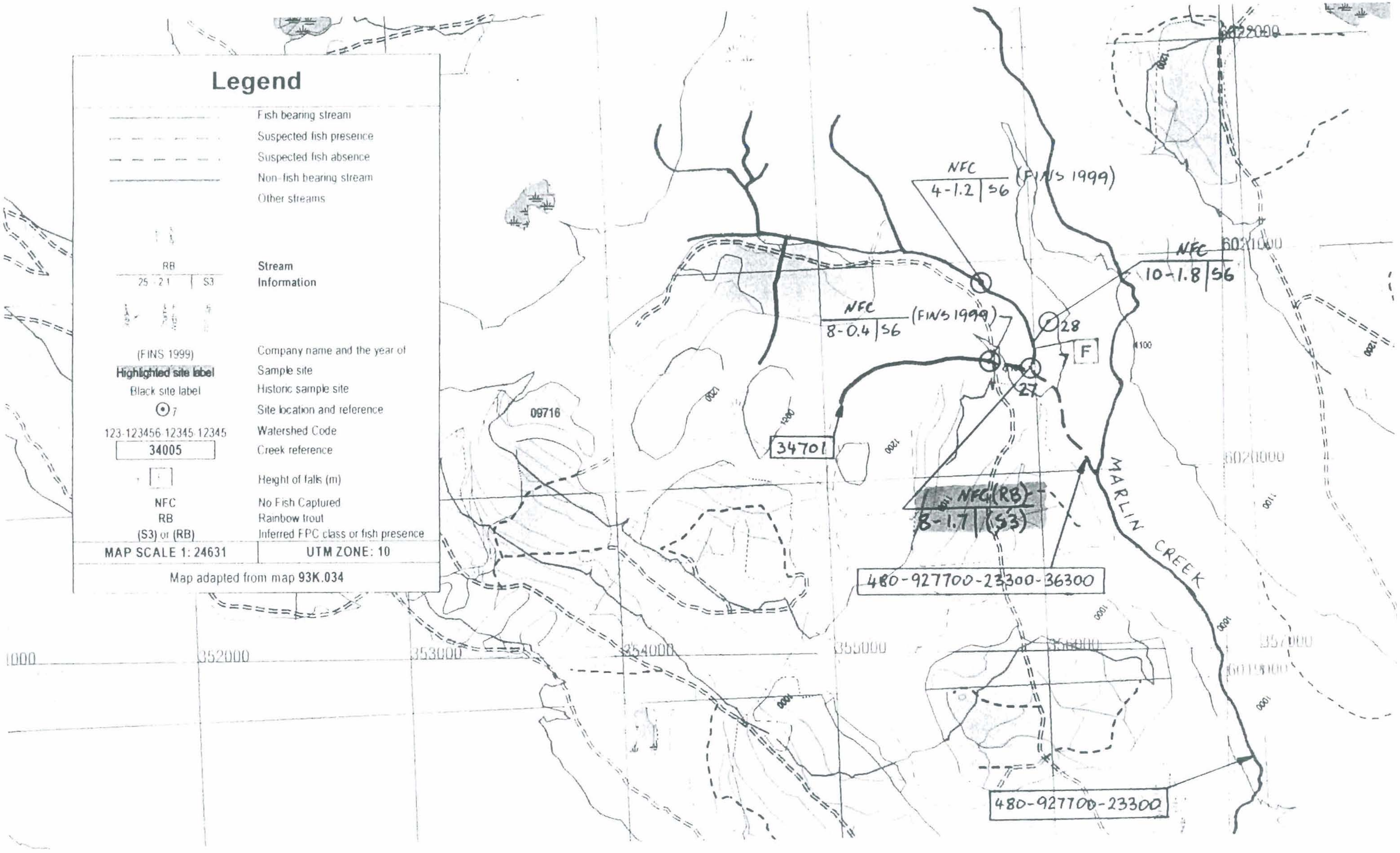
Map 5 of 15


Legend
Suspected fish presence
Non-fish bearing stream
Not Classified Drainage
Other streams
RB
25 - 2.1 | S3
Stream Information
⊙7
Site location and reference
123-123456-12345-12345
Watershed Code
43510
Creek reference
NFC
No Fish Captured
NS
Not Sampled
NVC
No Visible Channel
RB
Rainbow trout
(S3) or (RB)
Inferred FPC class or fish presence
MAP SCALE 1: 24631
UTM ZONE: 10
Map adapted from map 93K.043
480-927700-03900
Pinkut Creek
6034000
6033000
6032000
6031000
NS
3-1.1 | S6
NFC (RB)
5-0.6 | (S4)
23
24
25
NS
NVC | NCD
09511
43508
15203
43510
09510
15202
16204
339000
340000
341000
342000
343000
344000
34500

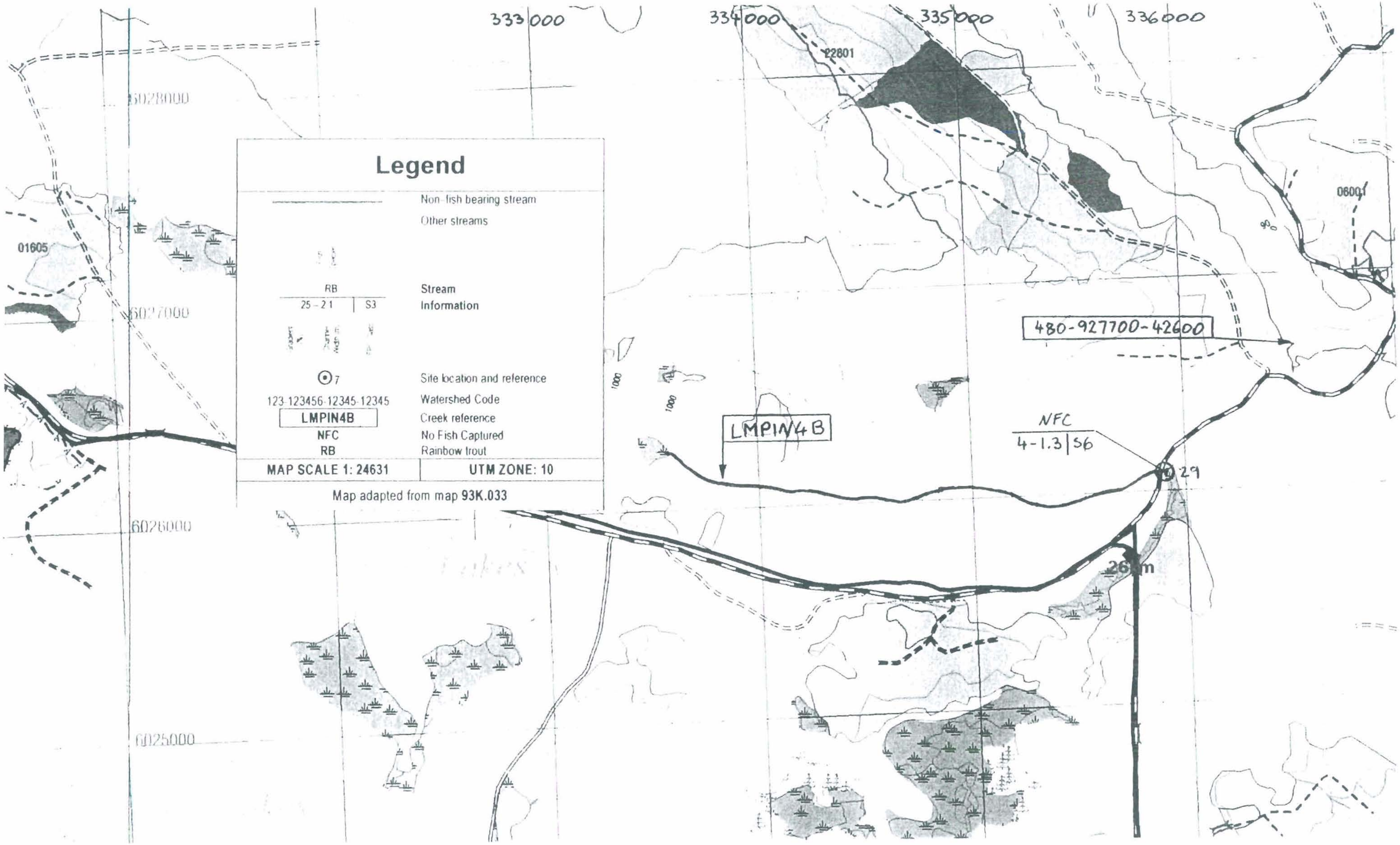
Map 6 of 15


34554
480-927700
NS
NVC
NCD
26
02504 BABL
6025000
6024000
6023000
6022000
345 000
346 000
347 000
348 000
349 000
09405C
09406C
09406B
09406C
09407B
09407A
06102
18201
60718201
05502
05510
05503
05504
05505
05506
08401
08402
1200
1000
900
Legend
Non - fish bearing stream
Other streams
Fish Species
RB
25 - 2.1
S3
Gradient (%)
Channel Width (m)
FPC Class
Stream Information
Site location and reference
180-545300-45700
Watershed Code
83006
Creek reference
00131CHES
Waterbody Identifier
NFC
No Fish Captured
NS
Not Sampled
NVC
No Visible Channel
MAP SCALE 1: 24631
UTM ZONE: 10
Map adapted from map 93K.034

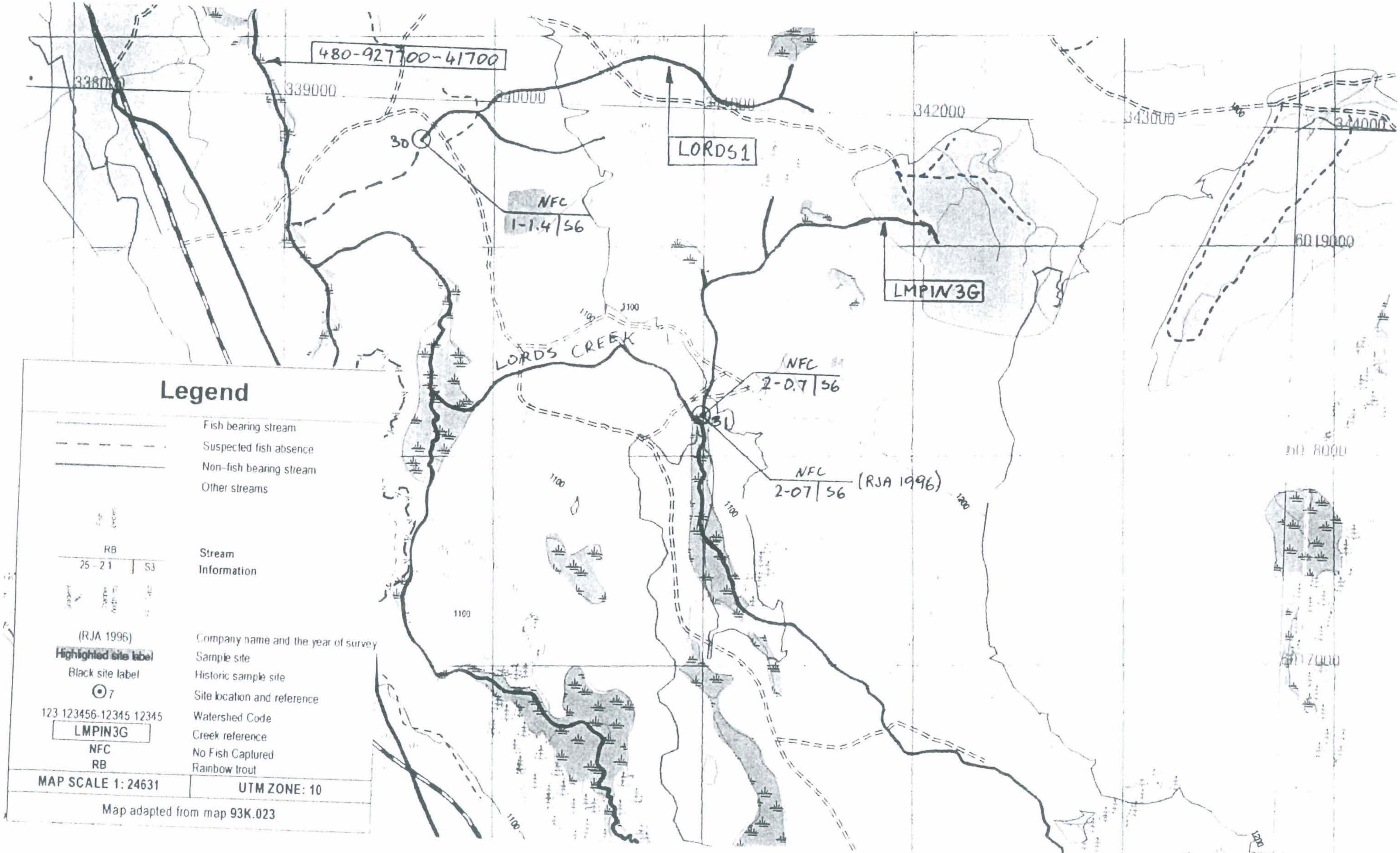
Map 7 of 15


Legend
Fish bearing stream
Suspected fish presence
Suspected fish absence
Non-fish bearing stream
Other streams
RB
25-2.1 | S3
Stream Information
(FINS 1999)
Company name and the year of
Highlighted site label
Sample site
Black site label
Historic sample site
7
Site location and reference
123-123456-12345-12345
Watershed Code
34005
Creek reference
Height of falls (m)
NFC
No Fish Captured
RB
Rainbow trout
(S3) or (RB)
Inferred FPC class or fish presence
MAP SCALE 1: 24631
UTM ZONE: 10
Map adapted from map 93K.034
NFC
4-1.2 | S6
(FINS 1999)
NFC
10-1.8 | S6
NFC
8-0.4 | S6
(FINS 1999)
28
F
27
34701
09716
NFC (RB)
8-1.7 | (S3)
480-927700-23300-36300
480-927700-23300
MARLIN CREEK
6022000
6021000
6020000
6019000
1000
352000
353000
354000
355000
356000
357000
1100
1200

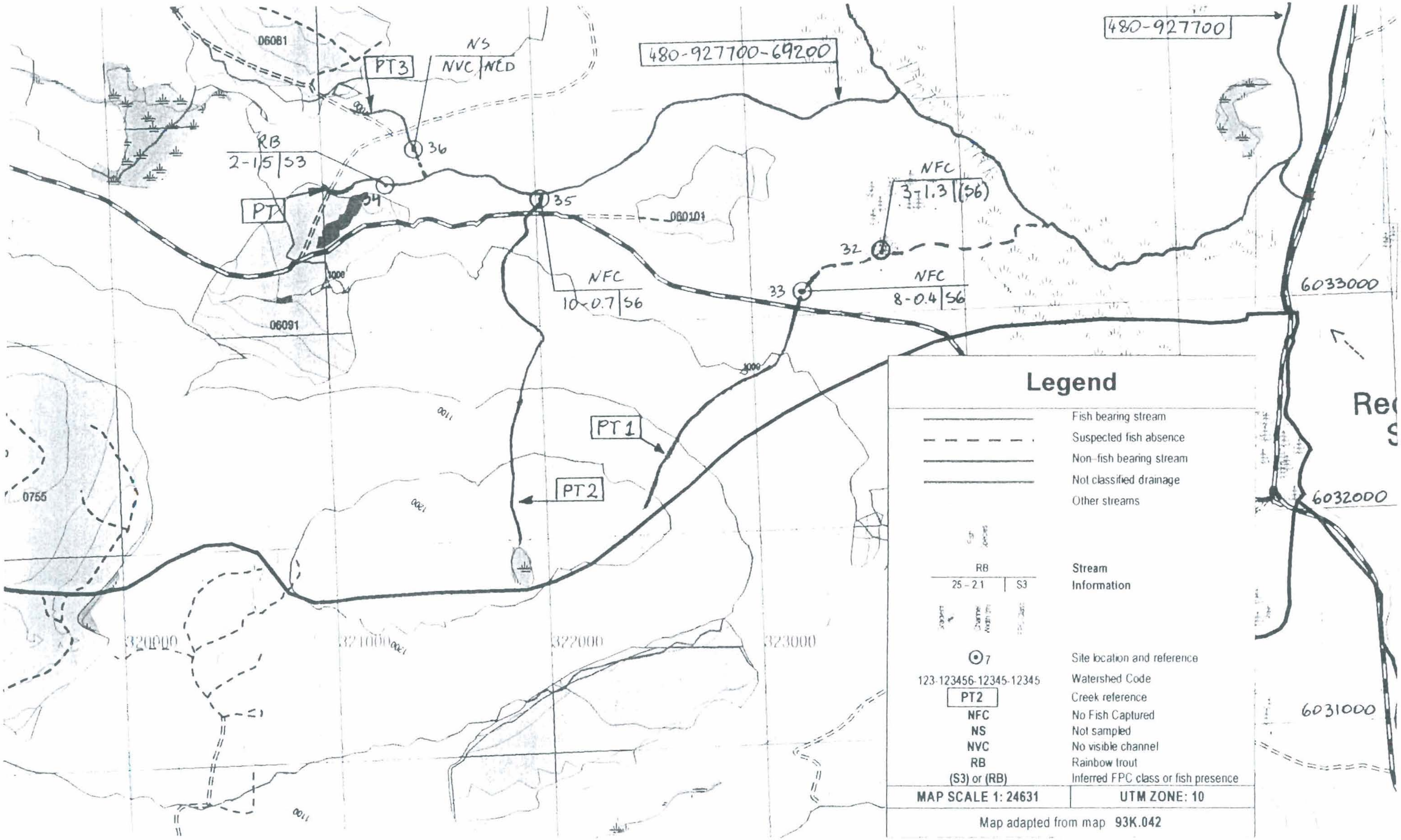
Map 8 of 15


333000
334000
335000
336000
6028000
6027000
6026000
6025000
22801
01605
06001
480-927700-42600
LMPIN4B
NFC
4-1.3 | S6
29
26 m
Legend
Non-fish bearing stream
Other streams
RB
25 – 2.1 | S3
Stream Information
7
Site location and reference
123-123456-12345-12345
Watershed Code
LMPIN4B
Creek reference
NFC
No Fish Captured
RB
Rainbow trout
MAP SCALE 1: 24631
UTM ZONE: 10
Map adapted from map 93K.033

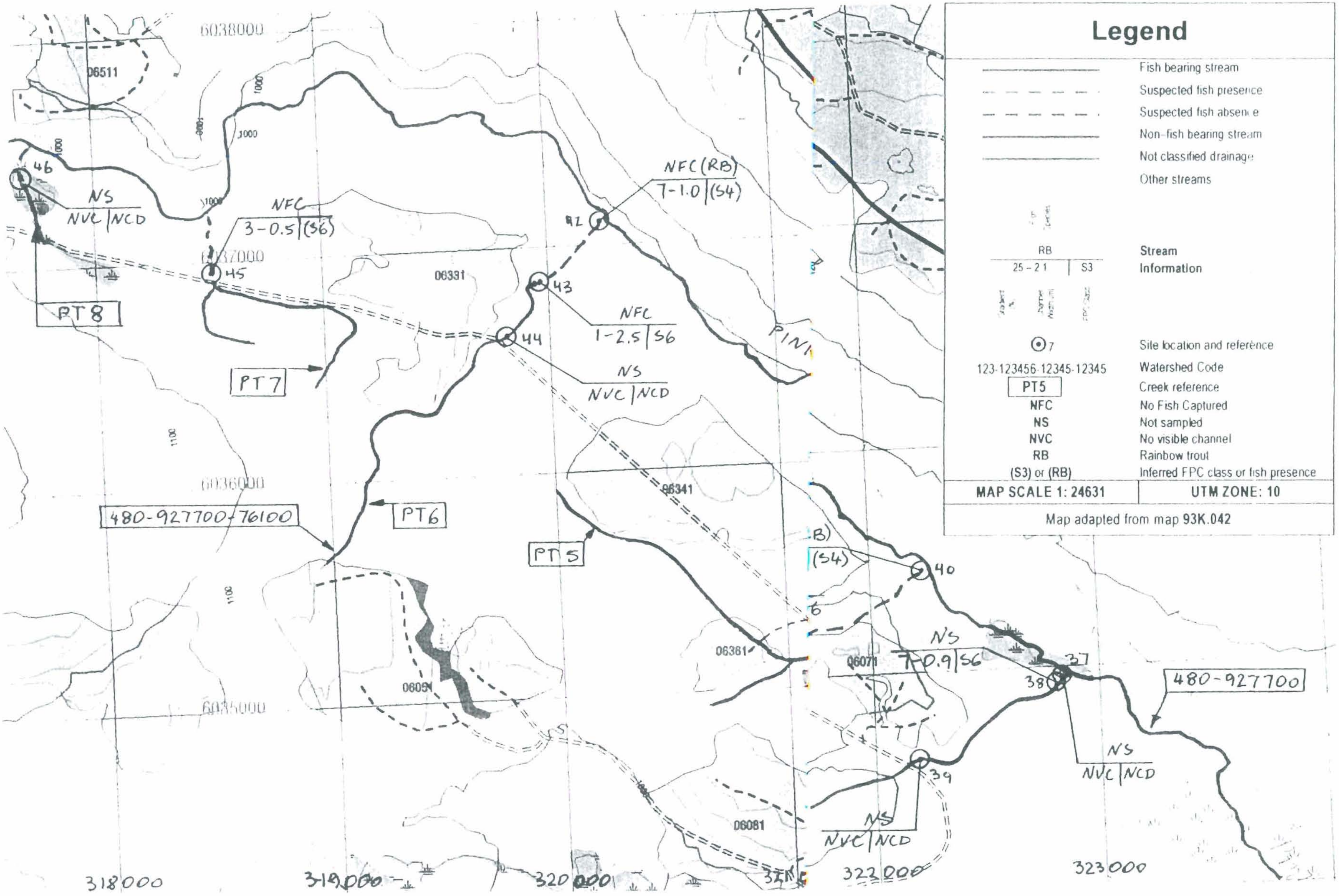
Map 9 of 15


480-927700-41700
338000
339000
340000
341000
342000
343000
344000
30
LORDS1
NFC
1-1.4 | S6
LMPIN3G
6019000
1100
LORDS CREEK
NFC
2-0.7 | S6
31
NFC
2-07 | S6 (RJA 1996)
1100
1200
6018000
6017000
Legend
Fish bearing stream
Suspected fish absence
Non-fish bearing stream
Other streams
RB
25 - 2 1 | S3
Stream Information
(RJA 1996)
Company name and the year of survey
Highlighted site label
Sample site
Black site label
Historic sample site
7
Site location and reference
123 123456-12345 12345
Watershed Code
LMPIN3G
Creek reference
NFC
No Fish Captured
RB
Rainbow trout
MAP SCALE 1: 24631
UTM ZONE: 10
Map adapted from map 93K.023

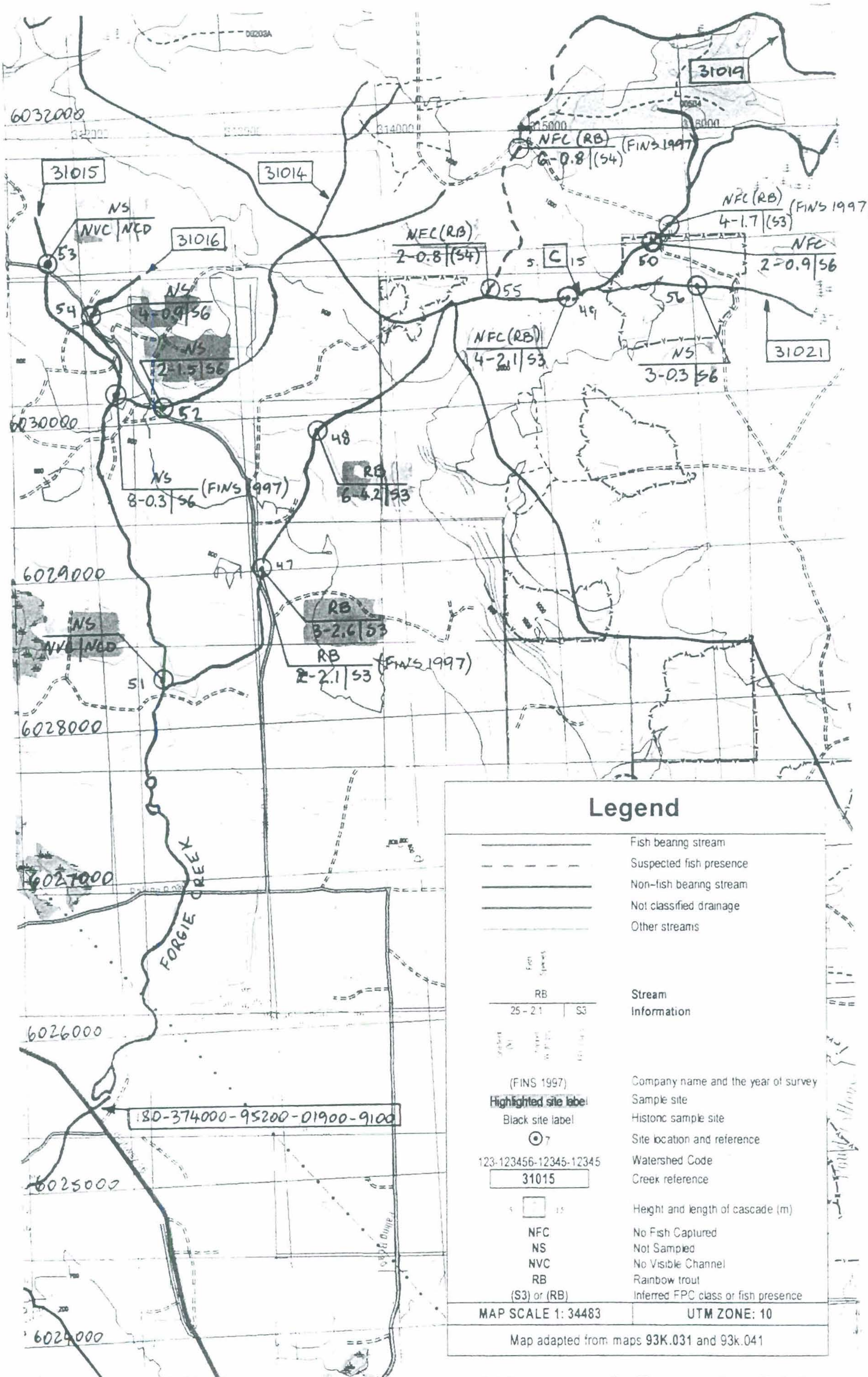
Map 10 of 15


480-927700
480-927700-69200
PT3
NS
NVC
NCD
06081
RB
2-1.5
S3
36
PT
34
35
060101
NFC
3-1.3
(S6)
32
33
NFC
10-0.7
S6
NFC
8-0.4
S6
06091
1000
6033000
6032000
6031000
PT 1
PT 2
0755
320000
321000
322000
323000
Legend
Fish bearing stream
Suspected fish absence
Non-fish bearing stream
Not classified drainage
Other streams
RB
25 - 2.1
S3
Stream Information
7
Site location and reference
123-123456-12345-12345
Watershed Code
PT2
Creek reference
NFC
No Fish Captured
NS
Not sampled
NVC
No visible channel
RB
Rainbow trout
(S3) or (RB)
Inferred FPC class or fish presence
MAP SCALE 1: 24631
UTM ZONE: 10
Map adapted from map 93K.042
Re
S

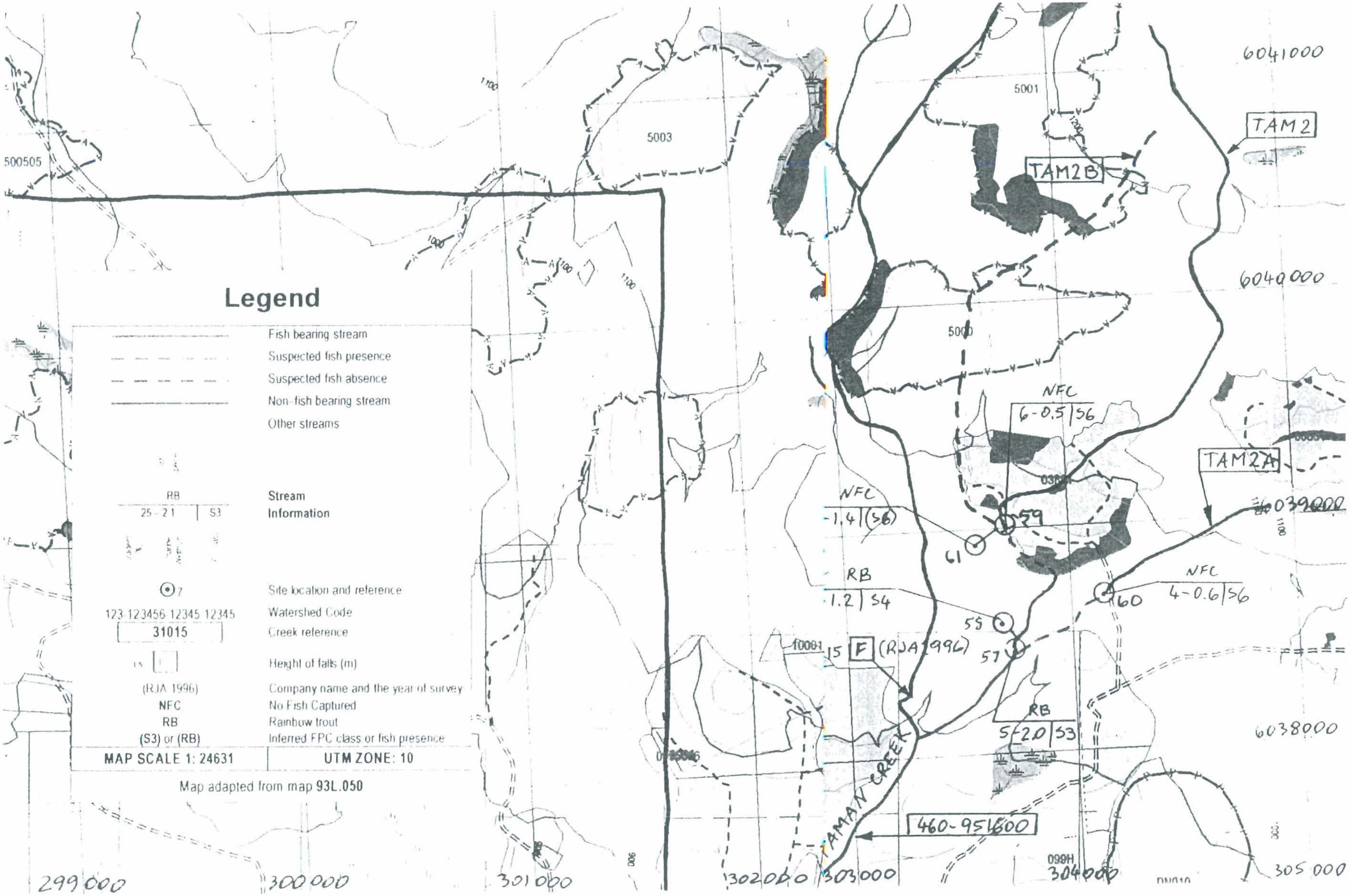
Map 11 of 15


Legend
Fish bearing stream
Suspected fish presence
Suspected fish absence
Non-fish bearing stream
Not classified drainage
Other streams
RB
25 – 2.1
S3
Stream Information
Site location and reference
123-123456-12345-12345
Watershed Code
PT5
Creek reference
NFC
No Fish Captured
NS
Not sampled
NVC
No visible channel
RB
Rainbow trout
(S3) or (RB)
Inferred FPC class or fish presence
MAP SCALE 1: 24631
UTM ZONE: 10
Map adapted from map 93K.042
6038000
6037000
6036000
6035000
06511
06331
06341
06361
06071
06091
06081
1000
1100
46
NS
NVC | NCD
PT8
45
NFC
3-0.5 | (S6)
PT7
42
NFC(RB)
7-1.0 | (S4)
43
NFC
1-2.5 | S6
44
NS
NVC | NCD
480-927700-76100
PT6
PT5
PINE
(RB)
(S4)
40
NS
7-0.9 | S6
37
38
480-927700
39
NS
NVC | NCD
NS
NVC | NCD
318000
319000
320000
321000
322000
323000

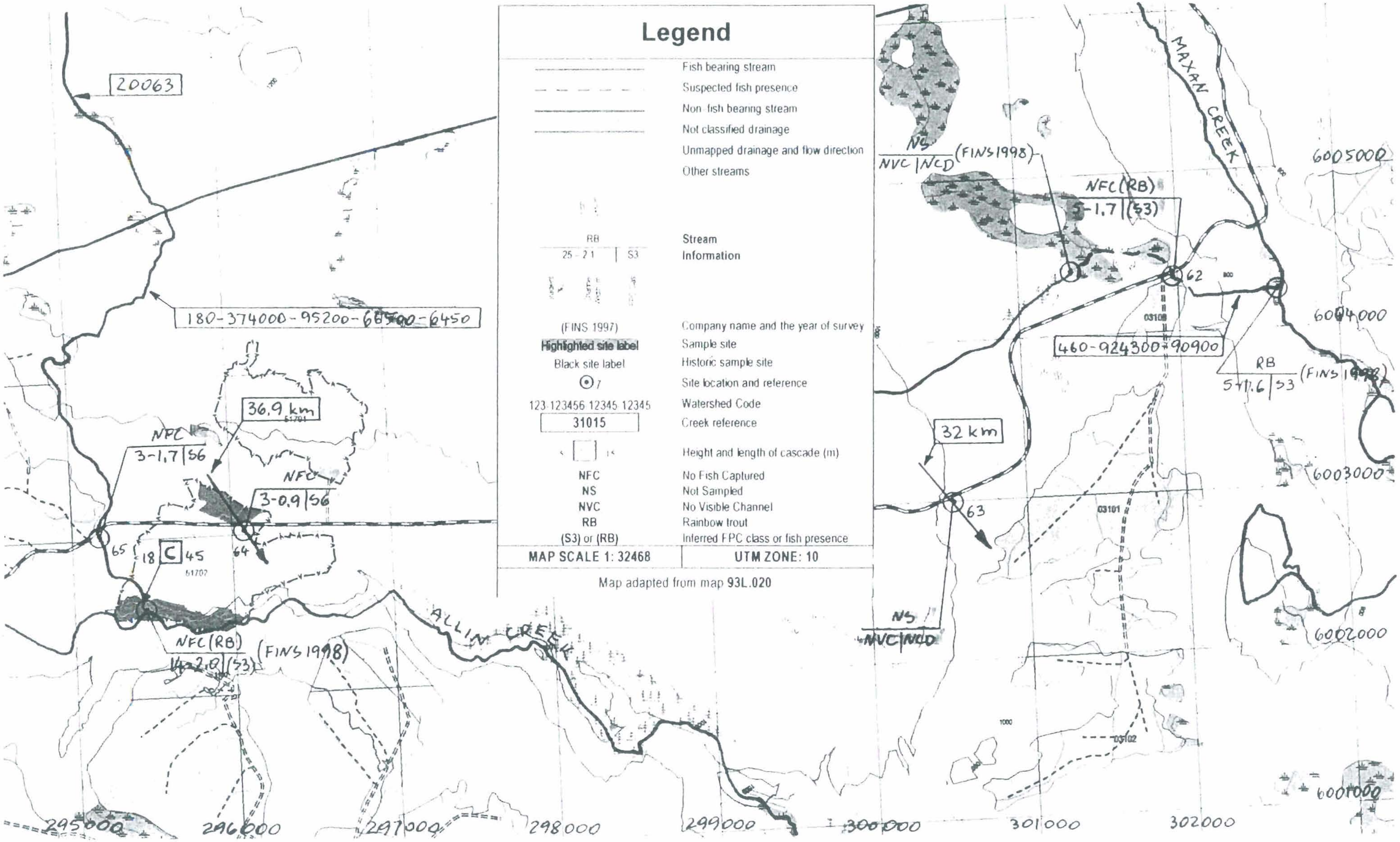
Map 12 of 15


31019
NFC (RB)
6-0.8 (S4)
(FINS 1997)
31015
31014
NS
NVC | NCD
53
31016
54
NS
4-0.9 | S6
NS
12-1.5 | S6
52
6032000
6030000
NFC(RB)
2-0.8 (S4)
55
5 C 15
49
50
NFC (RB)
4-1.7 (S3)
(FINS 1997)
NFC
2-0.9 | S6
56
31021
NFC(RB)
4-2.1 | S3
NS
3-0.3 | S6
48
RB
6-4.2 | S3
NS
8-0.3 | S6
(FINS 1997)
6029000
47
RB
3-2.6 | S3
RB
2-2.1 | S3
(FINS 1997)
NS
NVC | NCD
51
6028000
6027000
FORGIE CREEK
6026000
180-374000-95200-01900-9100
6025000
6024000
Legend
Fish bearing stream
Suspected fish presence
Non-fish bearing stream
Not classified drainage
Other streams
RB
25 - 2.1 | S3
Stream Information
(FINS 1997)
Company name and the year of survey
Highlighted site label
Sample site
Black site label
Historic sample site
7
Site location and reference
123-123456-12345-12345
Watershed Code
31015
Creek reference
Height and length of cascade (m)
NFC
No Fish Captured
NS
Not Sampled
NVC
No Visible Channel
RB
Rainbow trout
(S3) or (RB)
Inferred FPC class or fish presence
MAP SCALE 1: 34483
UTM ZONE: 10
Map adapted from maps 93K.031 and 93k.041

Map 13 of 15


Legend
Fish bearing stream
Suspected fish presence
Suspected fish absence
Non-fish bearing stream
Other streams
RB
25 2.1 | S3
Stream Information
⊙7 Site location and reference
123-123456-12345-12345 Watershed Code
31015 Creek reference
Height of falls (m)
(RJA 1996) Company name and the year of survey
NFC No Fish Captured
RB Rainbow trout
(S3) or (RB) Inferred FPC class or fish presence
MAP SCALE 1: 24631
UTM ZONE: 10
Map adapted from map 93L.050
500505
5003
5001
5000
1100
1000
1200
TAM2
TAM2B
TAM2A
NFC
6-0.5|S6
NFC
1.4|(S6)
61
59
RB
1.2|S4
55
57
NFC
4-0.6|S6
60
10001
15 F (RJA 1996)
RB
5-2.0|S3
TAMAN CREEK
460-951600
0300
099H
6041000
6040000
6039000
6038000
299000
300000
301000
302000
303000
304000
305000

Map 14 of 15


Legend
Fish bearing stream
Suspected fish presence
Non fish bearing stream
Not classified drainage
Unmapped drainage and flow direction
Other streams
RB
25 - 2.1 | S3
Stream Information
(FINS 1997)
Company name and the year of survey
Highlighted site label
Sample site
Black site label
Historic sample site
Site location and reference
123-123456 12345 12345
Watershed Code
31015
Creek reference
Height and length of cascade (m)
NFC
No Fish Captured
NS
Not Sampled
NVC
No Visible Channel
RB
Rainbow trout
(S3) or (RB)
Inferred FPC class or fish presence
MAP SCALE 1: 32468
UTM ZONE: 10
Map adapted from map 93L.020
20063
180-374000-95200-66500-6450
36.9 km
NFC
3-1,7 | S6
NFC
3-0,9 | S6
65
18
C
45
64
NFC(RB)
1-2.0 (S3)
(FINS 1998)
ALLIN CREEK
NS
NVC | NCD
(FINS 1998)
NFC(RB)
5-1,7 (S3)
62
MAXAN CREEK
460-924300-90900
RB
5-1.6 | S3
(FINS 1998)
32 km
63
NS
NVC | NCD
6005000
6004000
6003000
6002000
6001000
295000
296000
297000
298000
299000
300000
301000
302000

Map 15 of 15