MAY 1 2 2003

# Reconnaissance (1:20,000) Fish and Fish Habitat Inventory Resampling in the Pierre and Twain Sub-units 2002/03

Addendum to Pierre and Twain Sub-units Fish Inventory - 1999

## WSC's:

480-793000: Kew C. (Alias) Watershed

480-802100: Pierre C. Watershed 480-816400: Twain C. Watershed

480-\*\*\*\*\* 8 Small Tributaries to Babine Lake

Prepared for:

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March 31, 2003

## **Project Reference Information**

FIA Investment Schedule # PRTSA145013

MSRM Project Number BFP-C016-001-2003

FIA Project Number 5013004 FDIS Project Code 5746 FDIS Project WSC 480-000000

FIA Region Smithers Region MSRM Region 06 - Skeena

FW Management Unit 6-6 DFO Sub-District 4D

Forest Region Prince Rupert
Forest District Lakes Forest District

Forest Licensee and Tenure # Babine Forest Products Company

Forest Licence A-16823

First Nations Claim Area Carrier-Sekani

#### Watershed Information

Watershed Group BABL (Babine Lake)

Watershed Name Babine Lake Tributaries (Pierre and Twain Sub-unit Areas)

Watershed Code 480-\*\*\*\*\*
UTM at Mouth Varied
Watershed Area (km²) 252
Total of all Stream Lengths (km) 452
Stream Order Varied

NTS Maps 93 K/12, 93 L/9

**TRIM Maps** 93K.061, 93K.051, 93L.060, 93L.070

BEC Zone SBS (Sub-Boreal Spruce)

Fish Species Present CT, LKC

**Air Photos** 30BCC98024: 129-144; 160-163 30BCC96049: 027-043;086-100

**30BCC96155**: 024-041 **30BCB90065**: 130-145;167-183

30BCC96154: 166-183

## Sampling Design Summary

Total Number of Reaches805Random Sample Reaches0Discretionary Sample Reaches154Total Sample Reaches154% of Reaches Sampled19.1

Field Sampling Dates July 4 – August 16, 2002

Abbreviations Used in this Report

Avg	Average	M	Moderate flow, moderate turbid or medium size stream
BB	Burbot (Lota lota)	MELP	Ministry of Environment, Lands and Parks
BD	Stream bed, beaver dam	M/L	Mainline
BFP	Babine Forest Products Company	MT	Minnow trap
BGC	Biogeoclimatic zone	MW	Mountain whitefish (Prosopium williamsoni)
BMC	Brassy minnow (Hybognathus hankinsoni)	NA	Not applicable
С	Clear (not turbid)	NCD	Not classified drainage
C.	Creek	NCD*	No drainage present at mapped location
CAS	Prickly sculpin (Cottus asper)	Neg	Film negative
CBC	Chub-general	NFC	No fish captured
CC	Sculpins -general	NFP	No fish present
CD	Compact disc	NS	Not sampled
СН	Chinook salmon (O. tshawytscha)	NSC	Northern pike minnow (Ptycheilus oregonensis)
CO	Coho salmon (O. kisutch)	NTS	National Topographic Survey
Cond.	Conductivity	NVC	No visible channel
CPUE	Catch per unit effort	PCC	Peamouth chub (Mylocheilus caurinus)
CSU	Largescale sucker (Catostomus macrocheilus)	pH	Acidity or alkalinity measurement unit
CT	Cutthroat trout (O. clarki)	Prop	Proposed
CW	Channel width	PW	Electric pulse width
D	Downstream	R.	River
DFO	Department of Fisheries and Oceans	RB	Rainbow trout (O. mykiss)
Dir	Direction	Rd	Road
Dist.	Distance		Riparian
d/s	Downstream	Rip RSC	<del></del>
DV			Redside shiner (Richardsonius balteatus)
	Dolly Varden char (Salvelinus malma)	RSS	Regionally significant species
EF	Electrofishing	S1 - S6	Riparian classes
Exp	Expected	sec	Seconds
FDIS	Field Data Information System	S	Small size stream
FISS	Fisheries Information Summary System	SBS	Sub-Boreal Spruce BGC
FPC	Forest Practices Code	SK	Sockeye salmon (O. nerka)
FRBC	Forest Renewal of British Columbia	S/S/I	Straight, sinuous or irregular wandering channels
Freq	Electric current frequency	Spp.	Species
FRIM	Reconnaissance (1:20,000) Fish and Fish Habitat	STD	Standard
	Inventory: Standards and Procedures (Version 1.1)	am/ai/an	
Grad	Slope gradient	ST/SI/IR	Straight, sinuous or irregular wandering channels
H	High flow	T	Turbid
Hz	Hertz	Temp	Temperature
ILP	Interim Locational Point	TRIM	Terrain Resource Information Management
I/M/T	Irregular meandering, meandering or tortuous meandering channels	Turb	Turbidity
IM/ME/TM	Irregular meandering, meandering or tortuous meandering channels	U	Upstream
Info.	Information	u/s	Upstream
km	Kilometer	X	Across
КО	Kokanee (O. nerka)	UTM	Universal Transverse Mercator coordinates
L	Lamprey - general (Lampetra spp.)	V	Volts
L	Low flow, lightly turbid or large size stream	Volt	Voltage
L.	Lake	Wb	Bankfull depth
LKC	Lake chub (Couesius plumbeus)	WCB	Workers Compensation Board
LNC	Longnose dace (Rhinichthys cataractae)	WSC	Watershed code
LSU	Longnose sucker (Catostomus catostomus)	W1-W5	FPC wetland classes
LT	Lake trout (S. namaycush)	μs	Microseconds
LW	Lake whitefish (Coregonus clupeaformis)	μS	Microsiemens
LWD	Large Woody Debris	°C	Temperature
	<u> </u>	%	
m	Meter	1 70	Slope gradient

# **Contractor Information**

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#### Disclaimer

This product has been accepted as being in accordance with approved standards within the limits of Ministry quality assurance procedures. Users are cautioned that interpreted information on this product developed for the purposes of the Forest Practices Code Act and Regulations, for example stream classifications, is subject to review by a statutory decision maker for the purposes of determining whether or not to approve an operational plan.

## Acknowledgments

Funding for this project was made available by the Forest Investment Account, a new provincial government mechanism for promoting sustainable forest management in British Columbia. We would also like to give special thanks Karen Grainger for, above all else, putting up with us throughout the field portion of the project.

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## **List of Attachments**

The following material is supplemental to this report and provides information for all watersheds as defined in Schedule A (i.e., Pierre/Twain and Taltapin Sub-units)

## Attachment I Hardcopy FISS Update Data Forms and Maps

#### Attachment II Photodocumentation

- i) Photodocumentation Form 1
- ii) FDIS Photodocumentation Export File
- iii) Indexed Album of all negatives
- iv) 2 Indexed Copies of Photo CD's

#### Attachment III Field Data

i) site cards, fish collection forms, individual fish data forms and field notes

#### Attachment IV Digital Data

#### 1. Introduction

## 1.1 Project Scope and Objectives

The objective of this project was to conduct resampling on streams within the Pierre and Twain Sub-units to provide a complete summary of fish distribution in the area. Resampling was conducted to supplement and augment the information collected during a past Reconnaissance inventory completed in the area in 1999, and was generally gathered to provide BFP with site-specific fisheries information to be 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 or to confirm previously proposed Forest Practices Code (FPC) stream classifications. All results for this report incorporate any previous field sampling that may have been conducted on the streams. This is a continuation of a multi-year FRBC project commenced in 1996 for Babine Forest Products Company (BFP).

#### 1.2 Location

All watersheds within this project area are south shore tributaries to Babine Lake in the Pierre Creek area, located approximately 60km north northwest of the Village of Burns Lake, B.C. All streams are located within the Pierre and Twain BFP sub-unit management areas. The project overview map (Figure 1) on the following page provides the general location of the study area.

#### 1.3 Access

The predominant modes of access to reaches within the study area watersheds were boat, helicopter and vehicle. Boat access from Babine Lake was used for the lower reaches of the Kew Creek and Pierre Creek watersheds, and the small tributaries to Babine Lake. The upper Pierre Creek watershed was only accessible by helicopter. Remaining reaches were primarily accessed by vehicle from various logging roads and cutblock spur roads.

#### 2. Resource Information

The primary resource use within the area is forest management for timber extraction in BFP's operating area. The project area is located within Carrier-Sekani land. No significant wildlife use or impacts were noted within this area.

An abundance of fisheries information has been collected and presented under the scope of a reconnaissance inventory completed in 1999 (FINS, 1999.). This information has been compiled and utilized for the interpretive mapping for this project and when applicable, used to provide rationale for fish-bearing status and stream classifications. Table I below summarizes historical information regarding fish presence and sampling results within the project area. This information is also displayed on the interpretive maps for this project.



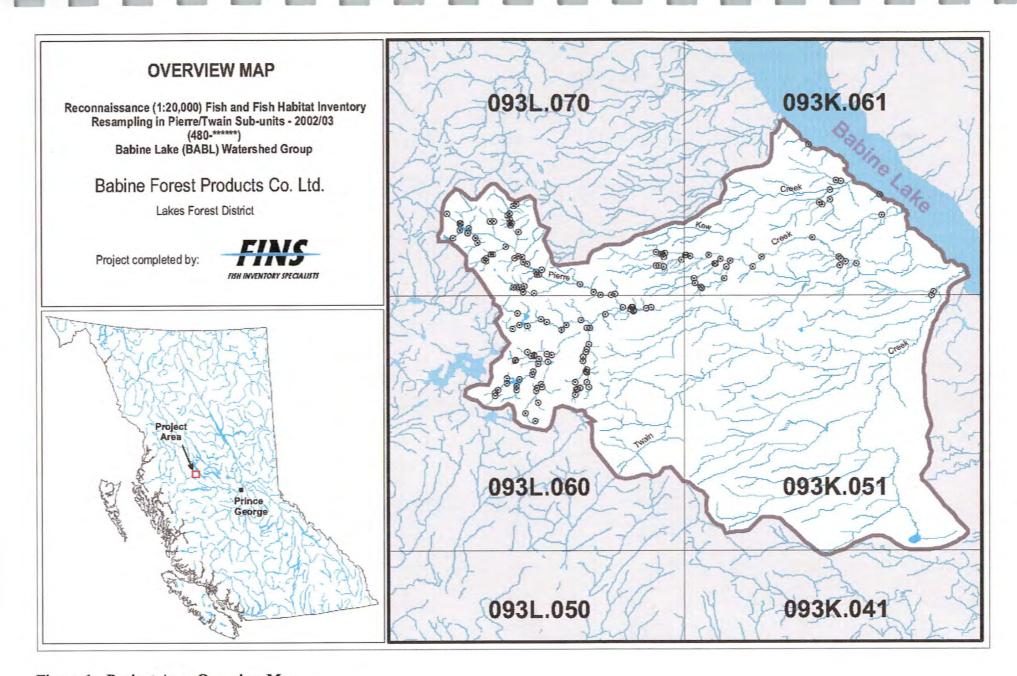


Figure 1: Project Area Overview Map.

Table 1: Historical information on fish presence in the Pierre/Twain Area.

Stream ID/ ILP	Watershed Code	Reach	Historic Site#	Fish Species/ Sampling Results	Source/Comments
61701	480-778888	1	1	NS	FINS. 1999 (FFHI).
	480-781500	1	2	NS	FINS. 1999 (FFHI).
61703	480-783503	1	3	NS	FINS. 1999 (FFHI).
61704	480-785774	1	4	NS	FINS. 1999 (FFHI).
Kew C.	480-793000	1	5	co	FINS. 1999 (FFHI).
Kew C.	480-793000	3	6	NFC (RB)	FINS. 1999 (FFHI).
Kew C.	480-793000	3.1	7	NFC	FINS. 1999 (FFHI).
Kew C.	480-793000	3.1	8	NFC	FINS. 1999 (FFHI).
Kew C.	480-793000	3.1	9	NFC	FINS. 1999 (FFHI).
61710	480-793000-11922	1	10	NS	FINS. 1999 (FFHI).
	480-793000-13100	1	11	СО	FINS. 1999 (FFHI).
	480-793000-13100	3	12	NFC (RB)	FINS. 1999 (FFHI).
	480-793000-13100	5	13	NS	FINS. 1999 (FFHI).
61718	480-793000-26831	1	14	NS	FINS. 1999 (FFHI).
61706	480-793000-11873-13844	1	15	NS	FINS. 1999 (FFHI).
Pierre C.	480-802100	1	16	KO RB SK	FINS. 1999 (FFH1).
Pierre C.	480-802100	2	17	SK	FINS. 1999 (FFHI).
Pierre C.	480-802100	3	18	RB SK	FINS. 1999 (FFHI).
Pierre C.	480-802100	3	19	CT	FINS. 1999 (FFHI).
Pierre C.	480-802100	5	20	CT	FINS. 1999 (FFHI).
Pierre C.	480-802100	6	21	СТ	FINS. 1999 (FFHI).
Pierre C.	480-802100	17	22	CT	FINS. 1999 (FFHI).
Pierre C.	480-802100	19	23	СТ	FINS. 1999 (FFHI).
Pierre C.	480-802100	21	24	СТ	FINS. 1999 (FFHI).
Pierre C.	480-802100	24	26	NFC	FINS. 1999 (FFHI).
Pierre C.	480-802100	26	27	NFC	FINS. 1999 (FFHI).
	480-802100-03500	1	28	NFC	FINS. 1999 (FFHI).
	480-802100-03500	2	29	NFC	FINS. 1999 (FFHI).
61726	480-802100-03500-23005	1	30	NS	FINS. 1999 (FFHI).
	480-802100-16400	2	31	NFC (CT)	FINS. 1999 (FFHI).
-	480-802100-16400	9	32	NFC	FINS. 1999 (FFHI).
	480-802100-16400	10	33	NFC	FINS. 1999 (FFHI).
61735	480-802100-17862	2	34	NFC	FINS. 1999 (FFHI).
61735	480-802100-17862	2.1	35	NFC	FINS. 1999 (FFHI).
61745	480-802100-42400-36866	1	36	NFC	FINS. 1999 (FFHI).
70704	480-802100-42400-54400-7930	5	37	NFC	FINS. 1999 (FFH1).
	480-802100-64500	4	38	NFC	FINS. 1999 (FFHI).
	480-802100-64500	5	39	NS	FINS. 1999 (FFHI).
60713	480-802100-64382	1	40	NFC	FINS. 1999 (FFHI).
	480-802100-66400	1	41	CT	FINS. 1999 (FFHI).
	480-802100-66400	5	42	CT	FINS. 1999 (FFHI).
<del>-</del> -	480-802100-66400	11	43	NFC	FINS. 1999 (FFHI).
60715	480-802100-66400-29165	3	44	NFC (CT)	FINS. 1999 (FFHI).
60715	480-802100-66400-29165	5	45	CT	FINS. 1999 (FFHI).

Stream ID/ ILP	Watershed Code	Reach	Historic Site #	Fish Species/ Sampling Results	Source/Comments
60715	480-802100-66400-29165	7	46	NFC (CT)	FINS. 1999 (FFHI).
60726	60726 480-802100-66400-51900-6945-1799		47	NS	FINS. 1999 (FFHI).
60736	480-802100-66400-29800-7252	1	48	NFC (CT)	FINS. 1999 (FFHI).
	480-802100-66400-72600	3	49	NFC	FINS. 1999 (FFHI).
60800	480-802100-68670	2	50	NFC	FINS. 1999 (FFHI).
70720	480-802100-75340	2	51	NS	FINS. 1999 (FFHI).
	480-802100-79900	1	52	CT	FINS. 1999 (FFHI).
70722	480-802100-79900-62632	1	53	CT	FINS. 1999 (FFHI).
70731	480-802100-87582-55658	1	54	NFC	FINS. 1999 (FFHI).
	480-802100-89200	4	55	СТ	FINS. 1999 (FFHI).
	480-802100-89200	9	56	CT	FINS. 1999 (FFHI).
70734	480-802100-89200-14498	1	57	NS	FINS. 1999 (FFHI).
70735	480-802100-89200-21677	i	58	NFC (CT)	FINS. 1999 (FFHI).
70742	480-802100-89200-56047	1	59	NFC (CT)	FINS. 1999 (FFHI).
70750	480-802100-89677	1	60	CT	FINS. 1999 (FFHI).
70750	480-802100-89677	4	61	NFC	FINS. 1999 (FFHI).
70751	480-802100-89677-37120	1	62	NFC	FINS. 1999 (FFHI).
70752	480-802100-90021	1	63	CT	FINS. 1999 (FFHI).
70752	480-802100-90021	2	64	NS	FINS. 1999 (FFHI).
70755	480-802100-90021-66649	1	65	NS	FINS. 1999 (FFHI).
	480-805000	1	66	CAS CO	FINS. 1999 (FFHI).
	480-805000	3	67	NFC (RB)	FINS. 1999 (FFHI).
	480-805000	4	68	NFC	FINS. 1999 (FFHI).
	480-805000	6	69	NFC	FINS. 1999 (FFHI).
61751	480-805000-06622	1	70	NS	FINS. 1999 (FFHI).
	480-805000-06800	2	71	NFC	FINS. 1999 (FFHI).
	480-805000-17000	1	72	NFC	FINS. 1999 (FFHI).
61755	480-811652	1	73	CAS (CO RB)	FINS. 1999 (FFHI).
61755	480-811652	2	74	NFC	FINS. 1999 (FFHI).
61755	480-811652	3	75	NS	FINS. 1999 (FFHI).
Twain C.	480-816400	3	76	RB	FINS. 1999 (FFHI).
Twain C.	480-816400	4	77	NFC	FINS. 1999 (FFHI).
Twain C.	480-816400	5	78	NFC	FINS. 1999 (FFHI).
Twain C.	480-816400	6	79	NFC	FINS. 1999 (FFHI).
Twain C.	480-816400	11	80	NFC	FINS. 1999 (FFHI).
	480-816400-06800	1	81	RB	FINS. 1999 (FFHI).
	480-816400-06800	2	82	RB	FINS. 1999 (FFHI).
	480-816400-06800	3	83	NFC	FINS. 1999 (FFHI).
	480-816400-06800-04500	2	84	NS	FINS. 1999 (FFHI).
61756	480-816400-06800-04500-4239-1043	1	85	NS	FINS. 1999 (FFHI).
51711	480-816400-06800-06802	1	86	NS	FINS. 1999 (FFHI).
	480-816400-26900	5	87	NFC	FINS. 1999 (FFHI).

#### 3. Methods

Planning for this project entailed compiling existing information and identifying "information gaps", with the intent being to fill in these gaps with additional sampling information that would supplement and/or solidify all FPC stream classifications. This incorporated any follow-up sampling recommendations made in the Reconnaissance Inventory report. All other aspects of the pre-field phases were conducted as part of the original Reconnaissance Inventory. Sampling to determine upper extents of fish use followed the methodology as outlined in that project planning document.

FDIS data for this project has been consolidated into one FDIS database, which incorporates existing FDIS data from past inventories. Historic site data is not included in the FDIS database, but has been imported into the mapping symbol file (Map features.dbf) for the project. Original FDIS data is included with the digital deliverables for this project.

#### 3.1 Reconnaissance Standards

Methodology used throughout this project was consistent with the standards and methods as defined in the "Reconnaissance (1:20,000) Fish and Fish Habitat Inventory: Standards and Procedures (April 2001)" manual and all standards referenced therein.

#### Fish Sampling

Electrofishing and visual observation were the primary methods used for fish sampling throughout the field portion of this project. These methods were to be 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) and sampling results were inconclusive, but these circumstances did not occur.

#### Measurements

Stream channel and wetted widths were determined using a meter tape. When possible, 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 the following formula:

H=Ho (gradient (%) to top of falls)/(gradient (%) to bottom of falls) + Ho

```
Where H = Height of falls (in m)
And Ho = Eye height of observer (in m)
```

The above formula is accurate provided the observer is at the same elevation as the base of the falls (i.e., standing at the edge of the plunge pool). Cascade heights and lengths were determined using a hip chain and Abney level. Vertical cascade height was calculated using the gradient and slope distance according to the formula:



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 daily using standardized solutions.

## **Site Numbering Convention**

Site numbers for this project have been assigned in an upstream ascending order for all sampled reaches under the scope of this project. Site numbers have been included in all tables that provide specific reach sampling information and on all photographs and photodocumentation indices.

## **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. These different types of NVC reaches were noted in the comments on the site cards and are summarized in the "Fish-Bearing Status" section of this report. It is expected that NVC reaches would receive a "Non Classified Drainage" (NCD) FPC classification.

## Appendix Layout - FDIS Reach/Site Summaries, Photographs and Maps

FDIS reach site summaries for sampled reaches have been included in Appendix I. In addition to the standard FDIS reach site summary, comments from the corresponding site and fish cards have been extracted from the cards and provided on the bottom of the page. Photodocumentation references for each site have also been included on this summary page. The reach/site summaries are arranged by site number. The photographs are included in Appendix II and are arranged by roll and frame number. The photographs have been reduced in size so that multiple photos can be presented on one page. Each photo is labeled with roll, frame, watershed code/ILP, reach and site numbers so that each photo can be easily cross-referenced in the index, report, the FDIS database, the negative binder and the photo CD's. All photos are available in Kodak photo CD format, included in Attachment II. An interpretive map has also been produced and is included in Appendix III.

## Field Equipment

All sampling equipment specifications are listed below:

- 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)
- Abney Levels, alcohol thermometers, Silva compasses
- Pentax Zoom 90WR cameras
- assorted other equipment including tight chains, hip chains, dip nets, fishing rods, magnifying lenses, meter sticks, meter tapes
- 4X4 trucks equipped with Level 1 First Aid kits and 4 personal First Aid kits, as per WCB requirements



#### 4. Results and Discussion

The following sections present fish and fish habitat information for the project area as identified earlier in this report. Summarized information for all sampled reaches is presented in tabular format in the "Fish Bearing Status section" of this report while detailed site-specific information is available in the Appendices.

## 4.1 Logistics

No logistical problems were encountered throughout the course of the field sampling portion of this project.

#### 4.2 Fish and Fish Habitat Information

Several physical obstructions to fish migration that influenced fish distribution in the project area were identified in this area. Although some are permanent barriers that mark the upper extent of fish use, few are temporary or "soft" barriers that may influence upstream fish use but can not be used to justify a non fish-bearing FPC classification.

All obstructions are summarized in Table 2 below. Historic barriers and their source information are also included in this table.

Table 2: Summary of historic and new barriers to fish migration found in the Pierre and Twain Sub-units.

Watershed Code	ILP	TRIM Map	Reach	Site	TYPE	Height (m)	, -	Verified in Field?	( connecte
480-793000		93K.061	3	6	Falls (Historic)	5.1			FFHI 1999. Blocks all fish passage and marks upper extent of fish use in system. Located at end of reach.
480-802100		93K.061	3	18	Canyon (Historic)	50	700		FFHI 1999. Inaccessible canyon located at start of reach. Likely contains impassable barriers.
480-802100		93K.061	3	19	Falls (Historic)	10		Historic	FFHI 1999. Blocks all fish passage and marks upper extent of anadromous use. Only CT present in watershed upstream. Located at end of reach 3.
480-802100		93K.061	5	20	Falls (Historic)	5			FFHI 1999. Impassable set of 5m falls located at end of reach. Blocks CT migration.
480-802100-16400		93K.061	1	14	Falls	4		Y	Blocks all fish passage and marks upper extent of fish use in system. Located at end of reach.
480-802100-16400		93K.061	2	31	Falls (Historic)	14		Historic	FFHI 1999. Impassable but located in non fish-bearing section. Located at end of reach.
	61735	93K.061	1	17	Beaver Dam	0.5	20	Y	Temporary barrier which impedes fish passage and decreases u/s habitat value. Located in middle of reach.
	61735	93K.061	1	17	Cascade	5	18	Y	Blocks all fish passage and marks upper extent of fish use in system. Located at end of reach.
480-802100-42400		93L.070	5	24	Cascade	5	20		Blocks all fish passage and marks upper extent of fish use in system. Located at end of reach.
480-802100-42400-54400		93L.070	3.1	32	Cascade	2.5	4	Y	Blocks all fish passage and marks upper extent of fish use in system. Located at end of reach.

Watershed Code	ILP	TRIM Map	Reach	Site	ТҮРЕ	Height (m)		Verified in Field?	
	70706	93L.070	0.1	37	Falls	1		Y	Blocks all fish passage and marks upper extent of fish use in system. Located at end of reach.
	60710	93L.060	1	47	Cascade	4	15	Y	Blocks all fish passage and marks upper extent of fish use in system. Located at mouth.
	60711	93L.060	0.1	48	Subsurface Flow	1	7	Y	Blocks all fish passage and marks upper extent of fish use in system. Located at end of reach.
480-802100-64500		93L.060	1	51	Beaver Dam	1	40	Y	Temporary barrier which impedes fish passage and decreases u/s habitat value. Located in middle of reach.
480-802100-64500		93L.060	1	51	Beaver Dam	2	60	Y	Temporary barrier which impedes fish passage and decreases u/s habitat value. Located in middle of reach.
480-802100-66400-29800-6750		93L.060	2	76	Subsurface Flow			Y	Blocks all fish passage and marks upper extent of fish use in system. Located at end of reach in headwater bog.
	60734	93L.060	1	77	Subsurface Flow	6	30	Y	Blocks all fish passage and marks upper extent of fish use in system. Located ~30m u/s from mouth.
	60746	93L.060	2	91	Falls	1		Y	Blocks all fish passage and marks upper extent of fish use in system. Located at start of reach.
	60748	93L.060	1	97	Cascade	2.5	10		Blocks all fish passage and marks upper extent of fish use in system. Located at start of reach.
	70730	93L.070	1	124	Cascade	4	14	Y	Blocks all fish passage and marks upper extent of fish use in system. Located at start of reach.
480-805000		93K.061	3	67	Falls (Historic)	3		Historic	FFHI 1999. Blocks all fish passage and marks upper extent of fish use in system. Located at end of reach.
480-816400		93K.051	3	76	Falls (Historic)	20		Historic	FFHI 1999. Blocks all fish passage and marks upper extent of fish use in system. Located at end of reach (~480m d/s from Augier road crossing).
480-816400		93K.051	4	77	Falls (Historic)	7		ristoric	FFHI 1999. Impassable but located in non fish-bearing section. Located near start of reach, ~225m d/s from Augier road crossing.
480-816400-06800		93K.051	2.1	153	Cascade	2	8	Y	Blocks all fish passage and marks upper extent of fish use in system. Located at start of reach. Documented (FFHI 1999), but confirmed location and fish absence u/s.

#### 4.2.1 Fish Presence and Distribution

A total of 154 reaches were sampled in the project area during this inventory, supplementing the 86 original sample sites completed in the 1999 inventory. Fish species found within these streams include cutthroat trout (CT) and lake chub (LKC), all in the Pierre Creek watershed above the 10m falls barrier at the end of reach 3. Overall fish use in the area is moderate, often limited by the lack of suitable habitat, or distribution is limited by impassable barriers and/or steep gradients.

Cutthroat trout were primarily found within Pierre Creek and two of its larger tributaries, -802100-42400 and -802100-66400, or in reaches proximal to these streams. CT distribution in these streams and a few of their tributaries often extended right to their headwater reaches.



Cutthroat trout were captured in 32 of the 154 sampled reaches and assumed present in an additional 17 reaches that were found to contain sufficient habitat to support CT use, although none were captured. This habitat was determined to be accessible to fish and fish use was subsequently inferred. CT use was mainly documented in larger channels with low average gradients. Most channel widths where CT were found were greater than 1.0m and the average gradients were all less than 7%. The remaining 105 reaches sampled were confirmed to be non fish-bearing. Of these, 74 were determined to be non classified drainages (NCD's) while 31 had fish absence confirmed usually as a result of small size and lack of sufficient habitat.

Lake chub in sampled reaches were only found in reach 6.1 of ILP 60715. This is a low gradient lake inlet reach which is wide, shallow and exposed with abundant instream vegetation cover preferable for this species. In addition, incidental (undocumented) capture of lake chub also occurred in the headwater lake reach of Pierre Creek (Reach 22), indicating that they are distributed throughout the watershed, likely utilizing similar type habitat.

#### 4.2.2 Habitat

Overall rearing habitat is good to excellent in diverse habitat throughout the watershed while overwintering habitat is abundant in the numerous wetland reaches. Cutthroat trout were also found to utilize seasonal habitat, as indicated by the presence of dead and stranded fish in drying channels. Cutthroat trout generally utilized all habitable reaches within this area, which is typical for this species. No significant spawning areas were observed although excellent spawning gravels and opportunity are prevalent in site 22 (-802100-42400 reach 4) – 4 redds were observed in this reach. Spawning elsewhere in the watershed likely occurs on an opportunistic basis.

#### 4.2.3 Fish Stage, Size and Life History

Fork length and maturity level of all fish sampled were recorded on the individual fish data forms. The life stage (fry, juvenile, or adult) for each fish was determined in the field based on length measurements, physical characteristics, and the habitat in which each fish was found. All captured fish appeared healthy and did not exhibit any external signs of disease.

Lake chub within this watershed were sampled only in reach 6.1 of ILP 60715. They likely reside throughout this system in low gradient reaches, influenced largely by the presence and proximity of numerous lakes and wetlands.

A total of 118 cutthroat trout were sampled within this area and both the juvenile and adult life stages were represented in this sample (Table 3). The presence of small juveniles (43-48mm) indicates that spawning had occurred earlier in the season.

Cutthroat trout in the area may exhibit one of three life history strategies; adfluvial (spawning and rearing for one to three years in streams before moving into lakes to rear or mature), fluvial (spawning and rearing in smaller tributaries and rearing as adults in mainstem rivers or large tributaries), or resident (living their entire lives within smaller, usually headwater, tributaries). Different migratory forms can live in the same river system.



Cutthroat trout are spring and early summer spawners, and will spawn when water temperatures approach 10°C, usually around mid-June in this area. Fry emergence usually occurs in two months time. As fry emerge from the spawning gravels, they will move into slow moving waters along the margins and/or pools. As the fish grow, they move into deeper pools. Fry may migrate to lakes in the summer in response to receding water levels or they may overwinter in larger streams for one to three years before migrating to lakes or the ocean in the early summer. Resident fish may have a home territory of one large pool, in which they spend their whole lives.

The following table presents data for fish species encountered in this watershed. The CPUE column in the table indicates the number of fish captured in 1000 seconds of electrofishing. This data is extracted only from those reaches where the species were sampled.

Table 3: Summary of life stage, length and CPUE data from fish sampled within the Pierre Creek watershed.

Stream Name	Watershed Code	Spp.	Stage	Number of Fish	Mean Length (mm)	Range of Lengths (mm)	CPUE (# of fish/1000 sec electrofishing)
Pierre C.	480-802100-****	CT	J	105	80	43-146	17.6
Watershed			Α	13	177	150-210	5.5
watersiled		LKC	J	16	42	38-47	146.8

Figure 2 below provides general information on frequency of occurrence of CT within different length classes for the Pierre Creek watershed for all fish captured in this inventory.

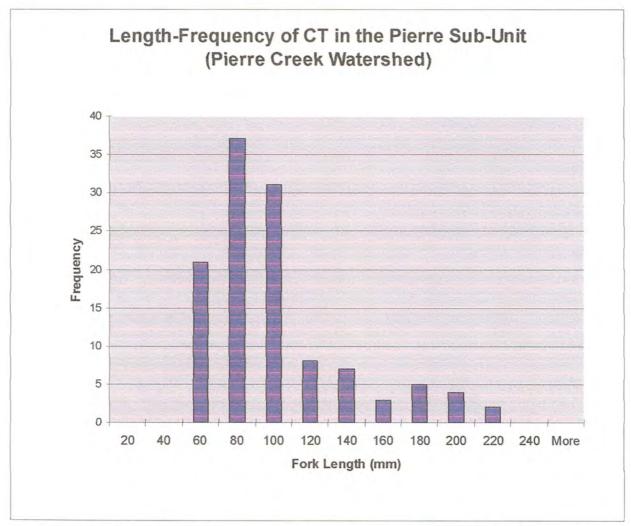


Figure 2: Length-frequency histogram of sampled CT from the Pierre Creek watershed, July 4 to August 16, 2002.

# 4.3 Significant Features and Fisheries Observations

#### 4.3.1 Fish and Fish Habitat

Within the Pierre/Twain project area, no significant staging areas or large spawning grounds were identified within the sites sampled in 2002.

## 4.3.2 Habitat Protection Concerns

#### 4.3.2.1 Fisheries Sensitive Zones

No fisheries sensitive zones were identified in this inventory.

#### 4.3.2.2 Fish Above 20% Gradients

During field sampling in 1999, a resident cutthroat population was confirmed upstream from falls barriers at the end of reach 3 in Pierre Creek which block any upstream fish migration in any flow condition. However, no fish populations were detected within any sampled reach with a gradient of 20% or more.

## 4.3.2.3 Restoration and Rehabilitation Opportunities

No restoration or rehabilitation opportunities were identified in this inventory.

## 4.4 Fish Bearing Status

The following three sections summarize the fish-bearing status for all surveyed reaches within the entire project area. The first section summarizes all surveyed reaches; the second section presents information for all non fish-bearing reaches and the third section identifies reaches where follow-up sampling should be conducted. An overview of the process used in determining fish-bearing status is presented in a flowchart in Figure 3 on the following page.

## 4.4.1 Summary of all Surveyed Reaches

Table 4 on the following pages summarizes all surveyed reaches in the project area. In addition to confirmed fish-bearing reaches, non fish-bearing reaches and reaches requiring follow-up sampling have also been identified and summarized in this table. They are also discussed in further detail in the "Non Fish-bearing Reaches" and "Follow-up Sampling Required" sections of this report.

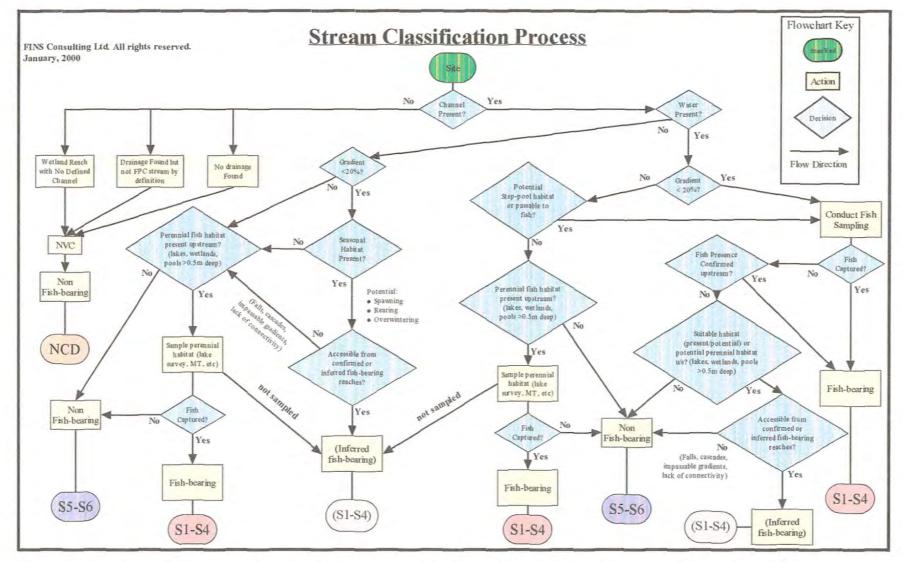


Figure 3: Flowchart of the stream classification process used in determining fish-bearing status of surveyed reaches

Summary of data from all surveyed reaches in the Pierre and Twain Sub-units Table 4:

Stream Name	Watershed Code	ILP	Reach	Site	Species	Avg CW (m)	Avg Grad (%)	Proposed FPC Class	Follow-up Sampling?	Comments
		61702	1	1	NS	NA	NS	NCD	N	Confirmed non fish-bearing.
		61705	1	2	NS	1.2	2.0	S6	N	Confirmed non fish-bearing.
		61705	2	3	NS	0.8	3.3	\$6	N	Confirmed non fish-bearing.
	480-793000-13100		4	4	NS	NA	NS	NCD	N	Confirmed non fish-bearing.
	480-793000-13100-30021		1	5	NS	0.9	6.5	S6	N	Confirmed non fish-bearing.
		61713	1	6	NS	0.6	7.8	S6	N	Confirmed non fish-bearing.
		61716	1	7	NS	NA	NS	NCD*	N	Confirmed non fish-bearing.
		61725	1	8	NS	NA	NS	NCD*	N	Confirmed non fish-bearing.
Pierre C.	480-802100		16	9	CT	9.6	2.5	S2	N	Confirmed fish-bearing.
Рієтте С.	480-802100		17	10	CT	4.7	1.5	S3	N	Confirmed fish-bearing.
Ріетте С.	480-802100		23	11	NFC (CT)	1.2	1.3	(S4)	N	Assumed fish use - fish habitat present and accessible.
	480-802100-03500		2	12	NFC	0.6	2.8	S6	N	Confirmed non fish-bearing.
		61729	1	13	NS	NA	NS	NCD*	N	Confirmed non fish-bearing.
	480-802100-16400		1	14	CT	4.3	2.8	S3	N	Confirmed fish-bearing.
		61731	1	15	NS	NA	NS	NCD	N	Confirmed non fish-bearing.
		61734	1	16	NS	NA	NS	NCD	N	Confirmed non fish-bearing.
		61735	1	17	NFC (CT)	1.4	1.5	(S4)	N	Assumed fish use - fish habitat present and accessible.
		61739	1	18	NS	NA	NS	NCD	N	Confirmed non fish-bearing.
		61740	1	19	NS	NA	NS	NCD	N	Confirmed non fish-bearing.
		61742	1	20	NS	NA	NS	NCD*	N	Confirmed non fish-bearing.
	480-802100-42400		1	21	CT	2.3	3.5	S3	N	Confirmed fish-bearing.
	480-802100-42400		4	22	CT	2.5	2.8	S3	N	Confirmed fish-bearing.
	480-802100-42400		4.1	23	CT	2.0	2.0	S3	N	Confirmed fish-bearing.
	480-802100-42400		5	24	CT	1.0	4.8	S4	N	Confirmed fish-bearing.
	480-802100-42400		6	25	NFC	1.3	2.8	S6	N	Confirmed non fish-bearing.
	480-802100-42400-09600		1	26	NFC (CT)	1.5	1.3	(S3)	N	Assumed fish use - fish habitat present and accessible.
	480-802100-42400-09600		2	27	NFC (CT)	1.4	5.8	(S4)	N	Assumed fish use - fish habitat present and accessible.
	480-802100-42400-09600		4	28	NFC	1.3	1.3	S6	N	Confirmed non fish-bearing.
		61744	1	29	NS	NA	NS	NCD*	N	Confirmed non fish-bearing.
_	480-802100-42400-54400		1	30	СТ	2.0	2.3	S3	N	Confirmed fish-bearing.



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Table 4: Summary of data from all surveyed reaches in the Pierre and Twain Sub-units

Stream Name	Watershed Code	ILIP	Reach	Site	Species	Avg CW (m)	Avg Grad (%)	Proposed FPC Class	Follow-up Sampling?	Comments
	480-802100-42400-54400		3	31	NFC (CT)	1.7	2.8	(S3)	N	Assumed fish use - fish habitat present and accessible.
	480-802100-42400-54400		3.1	32	NFC (CT)	1.4	5.5	(S4)	N	Assumed fish use - fish habitat present and accessible.
	480-802100-42400-54400		4	33	NFC	1.2	4.0	S6	N	Confirmed non fish-bearing.
		70704	0.1	34	CT	1.8	2.3	S3	N	Confirmed fish-bearing.
		70704	1	35	NFC	0.7	2.8	S6	N	Confirmed non fish-bearing.
		70705	1	36	NS	NA	NS	NCD	N	Confirmed non fish-bearing.
		70706	0.1	37	CT	1.1	4.0	S4	N	Confirmed fish-bearing.
		70706	1	38	NFC	1.2	6.0	S6	N	Confirmed non fish-bearing.
		70709	1	39	NS	NA	NS	NCD	N	Confirmed non fish-bearing.
	480-802100-43000		1	40	NS	NA	NS	NCD	N	Confirmed non fish-bearing.
<del> </del>		61748	1	41	NS	NA	19.5	NCD	N	Confirmed non fish-bearing.
		61749	1	42	CT	0.9	3.3	S4	N	Confirmed fish-bearing.
		61749	2	43	NS	NA	NS	NCD	N	Confirmed non fish-bearing.
		61750	1	44	NFC	1.4	1.5	S6	N	Confirmed non fish-bearing.
		60708	1	45	NS	NA	NS	NCD	N	Confirmed non fish-bearing.
		60709	1	46	NS	NA	NS	NCD	N	Confirmed non fish-bearing.
		60710	1	47	NFC	0.7	4.3	S6	N	Confirmed non fish-bearing.
		60711	0.1	48	NFC (CT)	1.1	2.3	(S4)	N	Assumed fish use - fish habitat present and accessible.
***		60711	1	49	NFC	0.9	1.3	\$6	N	Confirmed non fish-bearing.
- · · · · · · · · · · · · · · · · · · ·		60712	1	50	NS	NA	NS	NCD	N	Confirmed non fish-bearing.
~~~~	480-802100-64500		1	51	CT	0.9	3.5	S4	N	Confirmed fish-bearing.
	480-802100-66400		8	52	CT	2.1	0.5	S3	N	Confirmed fish-bearing.
	480-802100-66400		10	53	СТ	1.3	3.4	S4	N	Confirmed fish-bearing.
	480-802100-66400		12	54	NS	NA	NS	NCD	N	Confirmed non fish-bearing.
		60714	1	55	NS	NA	40.0	NCD	N	Confirmed non fish-bearing.
		60715	6.1	56	LKC (CT)	NS	0.0	(S3)	N	Assumed fish use - fish habitat present and accessible.
		60715	7	57	NS	NA	NS	NCD	N	Confirmed non fish-bearing.
		60716	1	58	NFC	NA	NS	NCD	N	Confirmed non fish-bearing.
		60718	1	59	NS	NA	NS	NCD	N	Confirmed non fish-bearing.
		60721	1	60	NS	NA	NS	NCD	N	Confirmed non fish-bearing.



Table 4: Summary of data from all surveyed reaches in the Pierre and Twain Sub-units

Stream Name	Watershed Code	ILP	Reach	Site	Species	Avg CW (m)	Avg Grad (%)	Proposed FPC Class	Follow-up Sampling?	Comments
		60722	1	61	NS	NA	NS	NCD	N	Confirmed non fish-bearing.
		60723	1	62	NS	NA	NS	NCD	N	Confirmed non fish-bearing.
		60724	1	63	NS	NA	NS	NCD	N	Confirmed non fish-bearing.
		60727	3	64	NS	1.0	1.0	<b>S</b> 6	N	Confirmed non fish-bearing.
		60730	1	65	NS	NA	NS	NCD	N	Confirmed non fish-bearing.
	480-802100-66400-29800		1	66	CT	2.1	6.5	S3	N	Confirmed fish-bearing.
	480-802100-66400-29800		2	67	CT	1.8	1.3	S3	N	Confirmed fish-bearing.
	480-802100-66400-29800		3	68	CT	1.5	4.5	S4	N	Confirmed fish-bearing.
	480-802100-66400-29800		6	69	CT	1.4	1.3	S4	N	Confirmed fish-bearing.
	480-802100-66400-29800		8	70	NFC (CT)	1.0	0.3	(S4)	N	Assumed fish use - fish habitat present and accessible.
	480-802100-66400-29800		9	71	NFC	1.3	4.8	S6	N	Confirmed non fish-bearing.
,		60731	1	72	NS	NA	NS	NCD	N	Confirmed non fish-bearing.
		60732	1	73	NFC	NA	7.0	NCD	N	Confirmed non fish-bearing.
		60733	1	74	NS	NA	NS	NCD	N	Confirmed non fish-bearing.
	480-802100-66400-29800-6750		1	75	CT	1.0	4.0	S4	N	Confirmed fish-bearing.
	480-802100-66400-29800-6750		2	76	CT	0.7	0.3	S4	N	Confirmed fish-bearing.
		60734	1	77	NFC	0.8	15.3	S6	N	Confirmed non fish-bearing.
		60735	1	78	NS	NA	NS	NCD	N	Confirmed non fish-bearing.
		60736	2	79	NFC	0.4	0.3	S6	N	Confirmed non fish-bearing.
		60738	1	80	NS	NA	NS	NCD	N	Confirmed non fish-bearing.
		60739	1	81	NS	NA	NS	NCD	N	Confirmed non fish-bearing.
		60741	1	82	NS	NA	12.7	NCD	N	Confirmed non fish-bearing.
		60742	1	83	CT	1.7	3.3	S3	N	Confirmed fish-bearing.
		60742	2	84	CT	1.6	1.0	S3	N	Confirmed fish-bearing.
		60742	5	85	CT	1.2	6.5	S4	N	Confirmed fish-bearing.
		60742	6	86	CT	1.3	0.5	S4	N	Confirmed fish-bearing.
		60743	1	87	NS	NA	NS	NCD	N	Confirmed non fish-bearing.
		60744	0.1	88	NFC (CT)	1.1	2.8	(S4)	N	Assumed fish use - fish habitat present and accessible.
		60744	1	89	NFC	0.5	5.8	S6	N	Confirmed non fish-bearing.
		60745	1	90	NS	NA	NS	NCD	N	Confirmed non fish-bearing.



Table 4: Summary of data from all surveyed reaches in the Pierre and Twain Sub-units

Stream Name	Watershed Code	ILP	Reach	Site	Species	Avg CW (m)	Avg Grad (%)	Proposed FPC Class	Follow-up Sampling?	Comments
		60746	2	91	NFC	0.6	0.8	S6	N	Confirmed non fish-bearing.
	480-802100-66400-72600		1	92	CT	4.5	0.0	S3	N	Confirmed fish-bearing.
	480-802100-66400-72600		2	93	NFC (CT)	1.3	0.5	(S4)	N	Assumed fish use - fish habitat present and accessible.
	480-802100-66400-72600		4	94	NS	NA	NS	NCD	N	Confirmed non fish-bearing.
		60747	1	95	NFC (CT)	0.7	0.8	(S4)	N	Assumed fish use - fish habitat present and accessible.
		60747	2	96	NS	0.6	6.5	S6	N	Confirmed non fish-bearing.
		60748	1	97	NFC	0.7	1.3	S6	N	Confirmed non fish-bearing.
		60749	1	98	NS	NA	NS	NCD	N	Confirmed non fish-bearing.
		60751	1	99	NS	NA	NS	NCD	N	Confirmed non fish-bearing.
		60752	1	100	NS	NA	10.5	NCD	N	Confirmed non fish-bearing.
		60753	1	101	NS	NA	5.0	NCD	N	Confirmed non fish-bearing.
		60754	1	102	NS	NA	NS	NCD	N	Confirmed non fish-bearing.
		60755	1	103	NS	NA	NS	NCD	N	Confirmed non fish-bearing.
		60756	2	104	CT	1.8	0.3	S3	N	Confirmed fish-bearing.
		60757	1	105	NS	NA	NS	NCD	N	Confirmed non fish-bearing.
		60758	1	106	NS	NA	NS	NCD	N	Confirmed non fish-bearing.
		60800	1	107	NFC	0.6	12.5	S6	N	Confirmed non fish-bearing.
		70718	1	108	NS	NA	NS	NCD	N	Confirmed non fish-bearing.
		70719	1	109	NFC	0.9	3.3	S6	N	Confirmed non fish-bearing.
		70720	1	110	NS	NA	NS	NCD	N	Confirmed non fish-bearing.
	480-802100-79900		5	111	· NFC (CT)	1.4	3.0	S3	N	Confirmed fish-bearing (CT captured u/s).
	480-802100-79900		7	112	NFC (CT)	1.6	0.5	S3	N	Confirmed fish-bearing (CT captured u/s).
	480-802100-79900		8	113	NFC (CT)	0.9	4.7	(S4)	N	Assumed fish use - fish habitat present and accessible.
	480-802100-79900		9	114	NS	NA	NS	NCD	N	Confirmed non fish-bearing.
		70721	1	115	NS	NA	NS	NCD	N	Confirmed non fish-bearing.
		70722	2	116	NS	NA	NS	NCD	N	Confirmed non fish-bearing.
_		70723	1	117	NS	NA	NS	NCD	N	Confirmed non fish-bearing.
		70725	1	118	СТ	1.2	2.8	S4	N	Confirmed fish-bearing.
		70725	2	119	NFC	13	8.0	S6	N	Confirmed non fish-bearing.
		70726	1	120	NS	NA	NS	NCD	N	Confirmed non fish-bearing.



Table 4: Summary of data from all surveyed reaches in the Pierre and Twain Sub-units

Stream Name	Watershed Code	ILP	Reach	Site	Species	Avg CW (m)	Avg Grad (%)	Proposed FPC Class	Follow-up Sampling?	Comments
		70727	1	121	NS	NA	NS	NCD	N	Confirmed non fish-bearing.
		70728	1	122	NS	NA	31.0	NCD	N	Confirmed non fish-bearing.
		70729	1	123	NS	NA	NS	NCD	N	Confirmed non fish-bearing.
		70730	1	124	NFC	1.2	14.0	<b>S</b> 6	N	Confirmed non fish-bearing.
		70732	0.1	125	NFC (CT)	0.9	11.0	(S4)	N	Assumed fish use - fish habitat present and accessible.
		70732	1	126	NS	NA	15.0	NCD	N	Confirmed non fish-bearing.
		70735	1	127	NS	0.9	7.3	<b>S</b> 6	N	Confirmed non fish-bearing.
		70736	1	128	NS	NA	4.0	NCD	N	Confirmed non fish-bearing.
		70737	1	129	NS	NA	NS	NCD	N	Confirmed non fish-bearing.
		70738	1	130	NFC	0.8	4.3	<b>S</b> 6	N	Confirmed non fish-bearing.
		70739	1	131	NS	NA	NS	NCD	N	Confirmed non fish-bearing.
		70740	1	132	NS	NA	NS	NCD	N	Confirmed non fish-bearing.
		70741	1	133	NS	NA	NS	NCD	N	Confirmed non fish-bearing.
		70742	2	134	NFC	1.1	4.7	<b>S</b> 6	N	Confirmed non fish-bearing.
		70743	1	135	NS	NA	NS	NCD*	N	Confirmed non fish-bearing.
		70746	1	136	СТ	1.7	6.5	S3	N	Confirmed fish-bearing.
		70746	2	137	CT	1.6	0.5	S3	N	Confirmed fish-bearing.
		70746	3	138	NS	NA	NS	NCD	N	Confirmed non fish-bearing.
		70747	1	139	NFC (CT)	0.4	1.2	(S4)	N	Assumed fish use - fish habitat present and accessible.
		70747	2	140	NS	NA	NS	NCD	N	Confirmed non fish-bearing.
		70748	1	141	NS	NA	NS	NCD	N	Confirmed non fish-bearing.
		70750	3	142	NS	NA	6.0	NCD	N	Confirmed non fish-bearing.
		70751	2	143	NFC	0.6	12.8	S6	N	Confirmed non fish-bearing.
		70753	1	144	NS	NA	NS	NCD	N	Confirmed non fish-bearing.
		70754	1	145	NS	NA	NS	NCD	N	Confirmed non fish-bearing.
		70756	1	146	NS	NA	NS	NCD	N	Confirmed non fish-bearing.
		70757	1	147	NS	NA	NS	NCD*	N	Confirmed non fish-bearing.
		70758	1	148	CT	1.6	2.3	<b>S</b> 3	N	Confirmed fish-bearing.
		70758	2	149	NS	NA	NS	NCD	N	Confirmed non fish-bearing.
		70759	1	150	NS	NA	19.5	NCD	N	Confirmed non fish-bearing.



Table 4: Summary of data from all surveyed reaches in the Pierre and Twain Sub-units

Stream Name	Watershed Code	ILP	Reach	Site	Species	Avg CW (m)	Avg Grad (%)	Proposed FPC Class	Follow-up Sampling?	Comments
		70760	0.1	151	CT	1.5	1.5	S3	N	Confirmed fish-bearing.
		70760	1	152	CT	0.8	4.0	S4	N	Confirmed fish-bearing.
	480-816400-06800		2.1	153	NFC	1.6	14.0	S6	N	Confirmed non fish-bearing.
	480-816400-06800-04500		1	154	NFC	1.4	5.5	S6	N	Confirmed non fish-bearing.



#### 4.4.2 Non Fish-bearing Reaches

This section summarizes all sampled reaches within this project area that have been designated as non fish-bearing. This has been based on interpretations and conclusions from the synthesis of data collected during Phases I through IV of this inventory. In addition, historic fish sampling results from numerous watersheds in the area (Babine Forest Products Co. 1997 through 2001 Reconnaissance and Operational Inventories) have also been taken into consideration in this section. Table 5 below summarizes this categorized information.

Table 5: Fish sampling results for categorized reach classes (from 1997 through 2001 inventory data).

Reach	Reach				Reac	h Size C	lass			
Gradient	Pattern		Small			Medium			Large	
Class	Type	(1	<sup>st</sup> order)		(2 <sup>nd</sup> a	nd 3 <sup>rd</sup> o	rder)	(4 <sup>th</sup> and	l higher	order)
		Total # of Reaches	# of Reaches with Fish Capture	%	Total # of Reaches	# of Reaches with Fish Capture	%	Total # of Reaches	# of Reaches with Fish Capture	
1	ST/SI/IR	270	4	1.48%	554	127	22.92%	99	77	77.78%
(≤4%)	IM/ME/TM	34	3	8.82%	119	26	21.85%	24	11	45.83%
2	ST/SI/IR	172	1	0.58%	322	66	20.50%	29	19	65.52%
(>4% and ≤8%)	IM/ME/TM	8	0	0.00%	2	1	50.00%	0	0	0.00%
3	ST/SI/IR	144	2	1.39%	148	20	13.51%	9	4	44.44%
(>8% and ≤20%)	IM/ME/TM	0	0	0.00%	0	0	0.00%	0	0	0.00%
4	ST/SI/IR	45	0	0.00%	25	0	0.00%	1	0	0.00%
(>20% and ≤30%)	IM/ME/TM	0	0	0.00%	0	0	0.00%	0	0	0.00%
5	ST/SI/IR	9	0	0.00%	4	0	0.00%	0	0	0.00%
(>30%)	IM/ME/TM	0	0	0.00%	0	0	0.00%	0	0	0.00%

Sampled reaches where fish absence is suspected but not confirmed are not included in this section. They are discussed in the "Follow-up Sampling Required" section of this report.

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, when applying a non fish-bearing recommendation 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 known fish distributions and behavior, barriers, gradients, invertebrate presence, habitat quality, and presence/absence of headwater lakes. This process is summarized in the flowchart in Figure 3 above.

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.

Table 6 on the following pages is a summary of all surveyed reaches within this project area that have been recommended for a non fish-bearing designation. It includes relevant site-specific data, some historical information and comments that provide a brief rationale to support the interpretation. The table is simply a summary of the interpretation, and not meant to be a reiteration of the data it summarizes. This data is available in the appendices included in this report.

Once a non-fish bearing conclusion has been established for a sampled reach, all reaches located upstream from that location are considered to be non fish-bearing and no further sampling is required to confirm this conclusion. This is inherent in the process used to determine the non fish-bearing status. Accordingly, only those reaches that were sampled and confirmed to be non fish-bearing are included in this section.

Interpretive mapping of non fish-bearing streams mirrors this procedure, using a solid blue line to denote fish absence, both in the sampled reach and in all reaches upstream. In the case of non classified drainages, a solid green line has been used. A dashed green line on the interpretive maps denotes that no drainage was present as mapped at 1:20,000. These are still referred to as non fish bearing and all reaches upstream are coloured solid blue.



Table 6: Summary of data from surveyed non-fish-bearing reaches in tributaries in the Pierre and Twain Sub-units

Watershed Code	ILP	Reach	Site	Date	Avg CW (m)	Avg Grad (%)	Avg Wb Depth (m)	Exp FPC Spp.	FPC Class	Method	EF Dist (m)	EF Time (s)	Flow Stage	Water Temp (C)	Conductivity (uS/cm)	Turbidity	Voltage (V)	Frequency (Hz)	Pulse Width (u.S.)	Comments
	61702	1	1	2002/08/15	NA	NS	0.0	RB	NCD	NS			NA							Not an FPC stream at site location - lacks continuous channel bed. No fish habitat or potential, no connectivity to u/s reaches. Steep dip in slope (~18%) - signs of snowmelt, surface runoff only, no scour, no channel, not a stream. All vegetated by Devil's club and mixed forest.
	61705	1	2	2002/08/15	1.2	2.0	0.0	RB	S6	NS			L							No fish habitat - seasonal creek with very poor instream cover when watered, mainly overstream vegetation and sticks, watered likely for very short time in spring and maybe early summer. Rearing Habitat - no potential for fish - not preferable habitat, fairly fast flow and lacks pools (when watered). Almost all reach is Kew C. mainstem and only 70m is in R1.
	61705	2	3	2002/08/15	0.8	3.3	0.1	RB	S6	NS			L							No fish habitat - small, shallow, and seasonal stream, watered only during runoff or heavy rain, lacks sufficient habitat to support seasonal rearing for CO. No deep pools or good instream cover. Flows through small swale within old cutblock.
480-793000-13100		4	4	2002/08/15	NA	NS	0.0	RB	NCD	NS			NA							Not an FPC stream at site location - lacks continuous channel bed. No fish habitat or potential, no connectivity to u/s reaches. No fish habitat - NCD - seepage - channel dissipates into flats, habitable to here.
480-793000-13100-30021		1	5	2002/08/15	0.9	6.5	0.2	RB	S6	NS			L							No fish habitat - small and seasonal stream, watered only during spring runoff and early summer. Fast when flowing with almost no instream cover, no habitat for fish. Flows through small gully vegetated by alder.
	61713	1	6	2002/08/15	0.6	7.8	0.2	RB	S6	NS			L							No fish habitat - small, seasonal and moderately steep stream, flowing only during spring runoff, no instream cover when watered, no pools observed, no fish in parent stream in R2 and R3. Flows through gully in a cutblock.
	61716	1	7	2002/08/15	NA	NS	0.0	RB	NCD*	NS			NA							No stream/ drainage present at mapped location or within 100m radius.
	61725	1	8	2002/08/16	NA	NS	0.0	RВ	NCD*	NS			NA							No stream/ drainage present at mapped location or within 100m radius.  Obviously, no fish habitat or potential!
480-802100-03500		2	12	2002/08/16	0.6	2.8	0.2	RB	S6	EF	100	37	L	10	160	c	500	0 80	6	Poor rearing - no flow, all fines; no spawning or overwintering habitat - only 2 shallow stagnant pools, poor quality. Sampled NFC in 1999 too. Reach 1 d/s may be used as refuge, but habitat there is marginal. Note * - hundreds of SK spawning observed in Pierre C.!
	61729	1	13	2002/07/06	NA	NS	0.0	СТ	NCD*	NS			NA							No stream/ drainage present at mapped location or within 100m radius. Trib is also NCD*. Mapped "stream" is totally dry gully with no evidence of channel, scour or water, also drops 40m into Pierre C. canyon at "mouth".
	61731	1	15	2002/07/06	NA	NS	0.0	СТ	NCD	NS			NA							Not an FPC stream at site location - lacks continuous channel bed. No fish habitat or potential, no connectivity to u/s reaches. "Stream" is slight moist depression with no water, no fluvium, no channel bed - no fish habitat or access.
	61734	1	16	2002/07/06	NA	NS	0.0	ст	NCD	NS			NA							Not an FPC stream at site location - lacks continuous channel bed. No fish habitat or potential, no connectivity to u/s reaches. Not a stream - isolated organic moss puddles in forest - no bed, fluvium, flow or habitat.



Table 6: Summary of data from surveyed non-fish-bearing reaches in tributaries in the Pierre and Twain Sub-units

Watershed Code	ILP	Reach	Site	Date	Avg CW (m)	Avg Grad (%)	Avg Wb Depth (m)	Exp FPC Spp.	FPC Class	Method	EF Dist (m)	EF Time (s)	Flow Stage	Water Temp (C)	Conductivity (uS/cm)	Turbidity	Voltage (V)	Frequency (Hz)	Pulse Width (u.S.)	Comments
	61739	1	18	2002/07/06	NA	NS	0.0	СТ	NCD	NS			NA							Not an FPC stream at site location - lacks continuous channel bed. No fish habitat or potential, no connectivity to u/s reaches. Not a creek - Devil's Club fan, no channel, no fluvium - moist ground.
	61740	1	19	2002/07/07	NA	NS	0.0	СТ	NCD	NS			NA							Not an FPC stream at site location - lacks continuous channel bed. No fish habitat or potential, no connectivity to u/s reaches. NCD - no fluvium, no banks - seasonal runoff after snowmelt, descends over 40% embankment (10m) into Pierre C. from 6% slope bench.
	61742	1	20	2002/07/07	NA	NS	0.0	СТ	NCD*	NS			NA		<u> </u>					No stream/ drainage present at mapped location or within 100m radius.
480-802100-42400		6	25	2002/07/08	1.3	2.8	0.2	СТ	S6	EF	100	348	М	10	30	С	700	80	6	Marginal habitat present but isolated above cascade at end of R.5 d/s. No fish present in system u/s from cascade. NFC below cascade as well.
480-802100-42400-09600		4	28	2002/07/08	1.3	1.3	0.3	СТ	S6	EF	120	389	М	7	40	С	700	80	) 6	Marginal rearing habitat present but no spawning or overwintering. NFC in this site and 2 sites $d/s = no$ CT use.
	61744	1	29	2002/07/07	NA	NS	0.0	СТ	NCD*	NS			NA							No stream/ drainage present at mapped location or within 100m radius.
480-802100-42400-54400		4	33	2002/07/23	1.2	4.0	0.3	СТ	<b>S</b> 6	EF	200	506	L	9	30	С	600	80	) 6	Impassable 2.5m cascade at end of reach 3.1 d/s blocks all fish passage and marks upper extent of fish use. No fish present in watershed u/s from cascade. Sampled nice CT habitat extensively. 3rd site NFC in creek.
	70704	1	35	2002/07/23	0.7	2.8	0.2	СТ	S6	EF	250	167	L	9	30	С	600	80	) 6	Marginal FPC stream, seasonally wetted, tiny channel over organics, detritus with no fish habitat or potential. Frequently discontinuous channel/subflow.
	70705	1	36	2002/07/23	NA	NS	0.0	СТ	NCD	NS			NA							Not an FPC stream at site location - lacks continuous channel bed. No fish habitat or potential, no connectivity to u/s reaches. Not a creek - seepage, occasionally wet spots in moss - no continuous channel, no fluvium, no fish habitat.
	70706	1	38	2002/07/23	1.2	6.0	0.3	СТ	\$6	EF	150	313	L	9	30	С	600	80	6	sustain isolated population, no spawning habitat - substrate = cobble or angular or detritus.
	70709	1	39	2002/07/08	NA	NS	0.0	СТ	NCD	NS			NA							Not an FPC stream at site location - lacks continuous channel bed. No fish habitat or potential, no connectivity to u/s reaches. Not an FPC stream, no fish habitat or passage, no fluvium or continuous channel bed.
480-802100-43000		1	40	2002/07/07	NA	NS	0.0	СТ	NCD	NS			NA							Not an FPC stream at site location - lacks continuous channel bed. No fish habitat or potential, no connectivity to u/s reaches. Seepage in 30m wide valley with discontinuous channel, no fluvium - organics and sticks, frequently percolates through forest floor.
	61748	1	41	2002/07/07	NA	19.5	0.0	СТ	NCD	NS			NA							Not an FPC stream at site location - lacks continuous channel bed. No fish habitat or potential, no connectivity to u/s reaches. NCD, drains valley then descends to Pierre C. at 32% for 30m, flattens out on bench. No fluvium, no banks.



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Watershed Code	ILP	Reach	Site	Date	Avg CW (m)	Avg Grad (%)	Avg Wb Depth (m)	Exp FPC Spp.	FPC Class	Method	EF Dist (m)	EF Time (s)	Flow Stage	Water Temp (C)	Conductivity (uS/cm)	Turbidity	Voltage (V)	Frequency (Hz)	Pulse Width (uS)	Comments
	61749	2	43	2002/07/08	NA	NS	0.0	ст	NCD	NS			NA							Not an FPC stream at site location - lacks continuous channel bed. No fish habitat or potential, no connectivity to u/s reaches. Stream gets most water from this bog, NFC up to site UTM anyway, but channel disperses in grassy meadow with no fish habitat or connection u/s. No overwintering potential u/s.
	61750	1	44	2002/07/08	1.4	1.5	0.3	ст	<b>S</b> 6	EF	150	182	М	7	40	С	600	80	6	Lacks sufficient fish habitat - no overwintering or spawning habitat or potential. No rearing habitat - shallow, standing water over organics, algae filled (low Oxygen). Marginal channel present. Flows into Pierre C. side channel. Water from gully wall percolation.
	60708	1	45	2002/07/09	NA	NS	0.0	СТ	NCD	NS			NA							Not an FPC stream at site location - lacks continuous channel bed. No fish habitat or potential, no connectivity to u/s reaches. Mostly underground draw in gully.
	60709	1	46	2002/07/09	NA	NS	0.0	СТ	NCD	NS			NA							Not an FPC stream at site location - lacks continuous channel bed. No fish habitat or potential, no connectivity to u/s reaches. NCD - discontinuous drainage, no fluvium, no banks, steep at valley wall, no connectivity to Pierre C. Seepage disperses 50m away from Pierre C.
	60710	1	47	2002/07/09	0.7	4.3	0.1	СТ	<b>S</b> 6	EF	200	274	М	6	20	С	800	80	6	Small stream with marginal habitat, but all isolated above 4m high cascade barrier near mouth. No fish present in stream u/s from cascade. Above cascade = ~50% subflow.
	60711	1	49	2002/07/09	0.9	1.3	0.2	ст	<b>S</b> 6	EF	100	177	М	7	20	С	800	80	6	Subsurface flow at 15% gradient at start of reach is impassable to fish and marks upper extent of potential fish use in stream. No fish present in system upstream from this point. No spawning or overwintering habitat present in stream.
	60712	1	50	2002/07/09	NA	NS	0.0	СТ	NCD	NS			NA							Not an FPC stream at site location - lacks continuous channel bed. No fish habitat or potential, no connectivity to u/s reaches. NCD - no fluvium, no banks, not a creek.
480-802100-66400		12	54	2002/07/25	NA	NS	0.0	ст	NCD	NS			NA							Not an FPC stream at site location - lacks continuous channel bed. No fish habitat or potential, no connectivity to u/s reaches. "Stream" is discontinuous, disconnected standing water with no fluvium or continuous channel bed. Watershed atlas mainstem = wrong, this reach is actually trib to mainstem. CT observed in parent wetland R.11 - presence extended.
	60714	1	55	2002/07/09	NA	40.0	0.0	ст	NCD	NS			NA							Not an FPC stream at site location - lacks continuous channel bed. No fish habitat or potential, no connectivity to u/s reaches. Seasonal (snowmelt) drainage from meadow down to wetland adjacent to - 802100-66400 at 40% gradient. Channelized for 40m only within wetland.
	60715	7	57	2002/07/26	NA	NS	0.0	ст	NCD	NS			NA							Not an FPC stream at site location - lacks continuous channel bed. No fish habitat or potential, no connectivity to u/s reaches. No trace of any channel, percolates through ground, no fluvium, squishy ground in wetland. Drains wetland u/s.
	60716	1	58	2002/07/29	NA	NS	0.0	CT	NCD	EF	150	109	NA	5	40	С	700	80	6	Not an FPC stream at site location - lacks continuous channel bed. No fish habitat or potential, no connectivity to u/s reaches. site = meadow near mouth.



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Watershed Code	ILP	Reach	Site	Date	Avg CW (m)	Avg Grad (%)	Avg Wb Depth (m)	Exp FPC Spp.	FPC Class	Method	EF Dist (m)	EF Time (s)	Flow Stage	Water Temp (C)	Conductivity (uS/cm)	Turbidity	Voltage (V)	Frequency (Hz)	Pulse Width (uS)	Comments
																				Drainage has flow and frequent channelized sections (on gravels), but common underground flow, both percolation and continuous, but no accessible fish habitat. Channelized sections too shallow with no pools or CT habitat anyway. No overwintering habitat u/s.
	60718	1	59	2002/07/29	NA	NS	0.0	СТ	NCD	NS			NA							Not an FPC stream at site location - lacks continuous channel bed. No fish habitat or potential, no connectivity to u/s reaches. Drainage is just a shrubby corridor with no evidence of channel or flow, just seepage at 30% gradient down gully wall to parent stream.
	60721	1	60	2002/07/29	NA	NS	0.0	СТ	NCD	NS			NA							Not an FPC stream at site location - lacks continuous channel bed. No fish habitat or potential, no connectivity to u/s reaches. Mapped stream is just an occasionally moist shrubby corridor with no channel or flowing water present.
	60722	1	61	2002/07/26	NA	NS	0.0	СТ	NCD	NS			NA							Not an FPC stream at site location - lacks continuous channel bed. No fish habitat or potential, no connectivity to u/s reaches. Seepage draining squishy and brushy meadow, no channel, no fluvium.
	60723	1	62	2002/07/26	NA	NS	0.0	СТ	NCD	NS			NA							Not an FPC stream at site location - lacks continuous channel bed. No fish habitat or potential, no connectivity to u/s reaches. Squishy valley from headwater pond, no channel, no fluvium, not a stream.
	60724	1	63	2002/07/26	NA	NS	0.0	СТ	NCD	NS			NA							Not an FPC stream at site location - lacks continuous channel bed. No fish habitat or potential, no connectivity to u/s reaches. Seepage draining couple of wetlands u/s, discontinuous channel, water percolates through sedges, not a stream.
	60727	3	64	2002/07/26	1.0	1.0	0.1	СТ	<b>S</b> 6	NS			L							No fish habitat - stream accessible and passable to the pond in R2, but lake/pond too shallow to provide suitable overwinter habitat or rearing in summer - exposed, shallow - high water temp. in summer. Flows through shrubby valley with many beaver ponds filled with algae and stagnant water, just below the pond (R.2) is dry and nicely channelized in forested section near mouth. Seasonal creek with water only during runoff. Vegetated channel, loses stream characteristics above pond.
	60730	1	65	2002/07/09	NA	NS	0.0	СТ	NCD	NS			NA							Not an FPC stream at site location - lacks continuous channel bed. No fish habitat or potential, no connectivity to u/s reaches. Seepage - no fluvium, no banks - drains moist meadow u/s and discharges over 10% slope into parent stream. Densely vegetated by willows.
480-802100-66400-29800		9	71	2002/07/24	1.3	4.8	0.1	СТ	<b>S</b> 6	EF	150	301	L	10	20	С	800	80	6	No fish habitat - small, shallow and intermittent trickle, lacks of good flow. Channel exposed and full of organics.
	60731	1	72	2002/07/24	NA	NS	0.0	СТ	NCD	NS			NA							Not an FPC stream at site location - lacks continuous channel bed. No fish habitat or potential, no connectivity to u/s reaches. Seepage with disconnected mucky puddles, no fluvium, no channel, no banks.
	60732	1	73	2002/07/24	NA	7.0	0.0	СТ	NCD	EF	10	20	NA	9	40	С	700	80	6	Not an FPC stream at site location - lacks continuous channel bed. No fish habitat or potential, no connectivity to u/s reaches. Seepage, channelized but intermittent flow near mouth for 50 m, then discontinuous, dry sections, wet



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Watershed Code	ILP	Reach	Site	Date	Avg CW (m)	Avg Grad (%)	Avg Wb Depth (m)	Exp FPC Spp.	FPC Class	Method	EF Dist (m)	EF Time (s)	Flow Stage	Water Temp (C)	Conductivity (uS/cm)	Turbidity	Voltage (V)	Frequency (Hz)	Pulse Width (uS)	Comments
		,																	T	puddles and short (10-15m) channel over organic fines and cobbles. Drains swamps u/s.
	60733	1	74	2002/07/24	NA	NS	0.0	ст	NCD	NS			NA							Not an FPC stream at site location - lacks continuous channel bed. No fish habitat or potential, no connectivity to u/s reaches. Seepage - drains adjacent wetland to parent stream. No fluvium, no channel past 25m from mouth. Drainage is not as mapped - ends past 35m u/s from mainstem.
	60734	l	77	2002/07/24	0.8	15.3	0.1	СТ	<b>S</b> 6	EF	100	39	L	8	50	С	600	80	6	No fish habitat - shallow and intermittent stream, percolates underground ~30m u/s from mouth, then becomes organic steps with isolated shallow pools.
	60735	1	78	2002/07/24	NA	NS	0.0	СТ	NCD	NS			NA							Not an FPC stream at site location - lacks continuous channel bed. No fish habitat or potential, no connectivity to u/s reaches. Drainage disperses in forest floor ~50m u/s from "mouth", then has discontinuous and already dry channel, no fluvium, drains wetland u/s.
	60736	2	79	2002/07/24	0.4	0.3	0.2	СТ	<b>S</b> 6	EF	150	133	М	22	30	С	800	80	6	No fish habitat - tiny, shallow and exposed channel through wetland with no suitable fish habitat or potential.
	60738	1	80	2002/07/24	NA	NS	0.0	СТ	NCD	NS			NA							Not an FPC stream at site location - lacks continuous channel bed. No fish habitat or potential, no connectivity to u/s reaches. Seepage - drains wetland u/s, water seeps through ground with occasional wet and squishy spots.
	60739	1	81	2002/07/24	NA	NS	0.0	СТ	NCD	NS			NA							Not an FPC stream at site location - lacks continuous channel bed. No fish habitat or potential, no connectivity to u/s reaches. Seepage draining to mainstem, no channel, no fluvium, no water, just squishy ground.
	60741	1	82	2002/07/25	NA	12.7	0.0	СТ	NCD	NS			NA							Not an FPC stream at site location - lacks continuous channel bed. No fish habitat or potential, no connectivity to u/s reaches. On top of valley wall (12m), stream flattens out and channel/water disappears. "Stream" is channelized at mouth, but is tiny steep trickle down valley wall. No water on flat portion, too steep in watered section, no perennial habitat, no connection to parent due to cascade and NCD status.
	60743	1	87	2002/07/25	NA	NS	0.0	СТ	NCD	NS			NA							Not an FPC stream at site location - lacks continuous channel bed. No fish habitat or potential, no connectivity to u/s reaches. Mapped stream is NCD, squishy ground up to lake. At lake outlet, stream is slightly channelized before dispersing in grassy meadow. No connection to lake, but lake may have another unmapped outlet that provides access for fish from -66400. No fish observed in lake. NCD to lake, but lake dashed red.
	60744	1	89	2002/07/25	0.5	5.8	0.1	ст	S6	EF	150	279	М	9	40	С	700	80	6	Very poor overall fish habitat - extremely shallow, barely enough water to cover fish, lacks instream cover. No potential for fish habitat. Lacks suitable gravels for spawning and has no overwintering potential. Inferred fish use (unlikely) to here, but enough is enough (2 sites NFC). At the end of site, becomes borderline creek, intermittent flow, etc.
	60745	1	90	2002/07/25	NA	NS	0.0	СТ	NCD	NS			NA							Not an FPC stream at site location - lacks continuous channel bed. No fish habitat or potential, no connectivity to u/s reaches. "Stream" is seepage down meadow valley wall, no fluvium or continuous channel bed.



Table 6: Summary of data from surveyed non-fish-bearing reaches in tributaries in the Pierre and Twain Sub-units

Watershed Code	ILP	Reach	Site	Date	Avg CW (m)	Avg Grad (%)	Avg Wb Depth (m)	Exp FPC Spp.	FPC Class	Method	EF Dist (m)	EF Time (s)	Flow Stage	Water Temp (C)	Conductivity (uS/cm)	Turbidity	A	Voltage (V)	Frequency (Hz)	Pulse Width (uS)	Comments
	60746	2	91	2002/07/25	0.6	0.8	0.2	СТ	\$6	EF	150	384	L	10	30	С	7	00	80	6	No fish habitat - reach is tiny, shallow trickle through meadow, heavily vegetated with willow shrub. Channel frequently dry and discontinuous channel with abundant subsurface percolation through meadow. Access impeded by percolation in R.1 d/s. Substrate 95% organics.
480-802100-66400-72600		4	94	2002/07/26	NA	NS	0.0	СТ	NCD	NS			NA								Not an FPC stream at site location - lacks continuous channel bed. No fish habitat or potential, no connectivity to u/s reaches. Nothing but grassy meadow, no channel, no fluvium.
	60747	2	96	2002/07/26	0.6	6.5	0.1	СТ	S6	NS			L								No fish habitat - seasonal, tiny, channel already dry. Also no fish access d/t frequent subflow in 15% gradient section at start of reach. Frequently vegetated channel with no perennial habitat.
	60748	1	97	2002/07/26	0.7	1.3	0.2	СТ	<b>S</b> 6	EF	100	164	М	13	50	L	6	00	80	6	Very poor overall fish habitat and no potential for fish use - isolated above cascade barrier at start of reach which marks upper extent of assumed fish use.
	60749	1	98	2002/07/26	NA	NS	0.0	ст	NCD	NS			NA								Not an FPC stream at site location - lacks continuous channel bed. No fish habitat or potential, no connectivity to u/s reaches. Drains wetland above 25% 15m long embankment, no channel, no fluvium, not a stream.
	60751	1	99	2002/07/26	NA	NS	0.0	СТ	NCD	NS			NA								Not an FPC stream at site location - lacks continuous channel bed. No fish habitat or potential, no connectivity to u/s reaches. Discontinuous channel draining meadow, no fluvium, dry sections, accessible to fish for ~25m in parallel length to -66400, then percolates through ground.
	60752	1	100	2002/07/26	NA	10.5	0.0	СТ	NCD	NS			NA								Not an FPC stream at site location - lacks continuous channel bed. No fish habitat or potential, no connectivity to u/s reaches. Drains sloping meadow adjacent to right bank of parent stream. Discontinuous channel and fluvium.
	60753	1	101	2002/07/26	NA	5.0	0.0	ст	NCD	NS			NA								Not an FPC stream at site location - lacks continuous channel bed. No fish habitat or potential, no connectivity to u/s reaches. Drains squishy meadow with some isolated and short channelized sections. Disperses 20m u/s from lake, inaccessible to fish, lacks fluvium, continuity.
	60754	1	102	2002/07/25	NA	NS	0.0	СТ	NCD	NS			NA								Not an FPC stream at site location - lacks continuous channel bed. No fish habitat or potential, no connectivity to u/s reaches. Access blocked at mouth - absorbed further into grassy wetland on lake shore. Walked down from pond in upper reach, isolated water puddles on organics, no scour power, no defined continuous channel bed, fluvium.
	60755	1	103	2002/07/25	NA	NS	0.0	СТ	NCD	NS			NA								Not an FPC stream at site location - lacks continuous channel bed. No fish habitat or potential, no connectivity to u/s reaches. Enters 60754 ~80m from mouth, but not an FPC stream, lacks channel bed and banks.
	60757	1	105	2002/07/25	NA	NS	0.0	СТ	NCD	NS			NA							_	Not an FPC stream at site location - lacks continuous channel bed. No fish habitat or potential, no connectivity to u/s reaches.
	60758	1	106	2002/07/25	NA	NS	0.0	СТ	NCD	NS			NA								Not an FPC stream at site location - lacks continuous channel bed. No fish habitat or potential, no connectivity to u/s reaches. Reach u/s from site rises out of meadow and lacks continuous channel bed or fluvium and contains no accessible habitat. Reach below (in meadow) is inferred CT, broken into R. 0.1.



Table 6: Summary of data from surveyed non-fish-bearing reaches in tributaries in the Pierre and Twain Sub-units

Watershed Code	ILP	Reach	Site	Date	Avg CW (m)	Avg Grad (%)	Avg Wb Depth (m)	Exp FPC Spp.	FPC Class	Method	EF Dist (m)	EF Time (s)	Flow Stage	Water Temp (C)	Conductivity (uS/cm)	Turbidity	Voltage (V)	Frequency (Hz)	Pulse Width (uS)	Comments
																			Т	FPC of R. 0.1 = (S4).
	60800	1	107	2002/07/23	0.6	12.5	0.1	СТ	S6	EF	100	109	L	9	30	С	700	80	6	Steep and shallow with no usable fish habitat - valley wall trickle with frequent long stretches of subsurface flow. Might be used near mouth, but NFB from here (60m u/s from mapped mouth).
	70718	1	108	2002/07/23	NA	NS	0.0	СТ	NCD	NS			NA							Not an FPC stream at site location - lacks continuous channel bed. No fish habitat or potential, no connectivity to u/s reaches. Stream is seasonally moist seepage with no continuous channel bed, no flow, no water, no habitat.
	70719	1	109	2002/07/23	0.9	3.3	0.1	СТ	S6	EF	300	88	L	9	30	С	700	80	6	Stream is dry and inaccessible at mouth, then almost NCD 60m u/s from mouth
	70720	1	110	2002/07/23	NA	NS	0.0	ст	NCD	NS			NA							Not an FPC stream at site location - lacks continuous channel bed. No fish habitat or potential, no connectivity to u/s reaches. Walked 200m radius from mapped mouth, found a couple wet spots that may have been the mapped stream, but no channel bed or fluvium present.
480-802100-79900		9	114	2002/07/30	NA	NS	0.0	СТ	NCD	NS			NA							Not an FPC stream at site location - lacks continuous channel bed. No fish habitat or potential, no connectivity to u/s reaches. Headwater meadow, squishy meadow where creek originates, no channel (continuous), no fluvium. No connection to reach d/s.
	70721	1	115	2002/07/29	NA	NS	0.0	ст	NCD	NS			NA							Not an FPC stream at site location - lacks continuous channel bed. No fish habitat or potential, no connectivity to u/s reaches. Drainage not FPC stream - any water from u/s absorbed into wetland water table. No connection and no channel present.
	70722	2	116	2002/07/29	NA	NS	0.0	СТ	NCD	NS			NA							Not an FPC stream at site location - lacks continuous channel bed. No fish habitat or potential, no connectivity to u/s reaches. Flow = 100ml/min. R.1 wetland was called S3 but is actually just a wetland back channel from parent stream. "stream" = discontinuous mud channel.
	70723	1	117	2002/07/29	NA	NS	0.0	ст	NCD	NS			NA							Not an FPC stream at site location - lacks continuous channel bed. No fish habitat or potential, no connectivity to u/s reaches. No channel present, only moist ground. Any water is soaked into ground, no fish habitat, no passage, no possible use.
	70725	2	119	2002/07/29	1.3	8.0	0.3	СТ	\$6	EF	100	264	L	10	40	С	700	80	6	Shallow and seasonal trickle among cobbles, frequent dry sections and moderate gradient. Dense OSV. CT use limited to section near mouth, proximal to Pierre, would have got them here. No spawning habitat - all large cobble mixed with fines/organics. No overwintering habitat and no suitable rearing - very shallow and seasonal, lacks deep pool habitat.
	70726	1	120	2002/07/29	NA	NS	0.0	СТ	NCD	NS			NA							Not an FPC stream at site location - lacks continuous channel bed. No fish habitat or potential, no connectivity to u/s reaches. Channelized at mouth, but only d/t Pierre C. s/c flow. Channel/ water disappears and percolates immediately u/s from s/c.



Table 6: Summary of data from surveyed non-fish-bearing reaches in tributaries in the Pierre and Twain Sub-units

Watershed Code	ILP	Reach	Site	Date	Avg CW (m)	Avg Grad (%)	Avg Wb Depth (m)	Exp FPC Spp.	FPC Class	Method	EF Dist (m)	EF Time (s)	Flow Stage	Water Temp (C)	Conductivity (uS/cm)	Turbidity	Voltage (V)	Frequency (Hz)	Pulse Width (uS)	Comments
	70727	1	121	2002/07/29	NA	NS	0.0	СТ	NCD	NS			NA							Not an FPC stream at site location - lacks continuous channel bed. No fish habitat or potential, no connectivity to u/s reaches. "Creek" also enter a small Pierre C. s/c and is occasionally channelized but discontinuous and inaccessible to CT. Contains no usable fish habitat anyway - channelized sections = 1 cm deep and 0.3m wide.
	70728	1	122	2002/07/29	NA	31.0	0.0	СТ	NCD	NS			NA							Not an FPC stream at site location - lacks continuous channel bed. No fish habitat or potential, no connectivity to u/s reaches. Drainage is just a steep gully seepage/trickle down Pierre C. valley wall with no fish habitat/passage or potential. No overwintering u/s.
	70729	1	123	2002/07/29	NA	NS	0.0	СТ	NCD	NS			NA							Not an FPC stream at site location - lacks continuous channel bed. No fish habitat or potential, no connectivity to u/s reaches. Nothing to photograph.
	70730	1	124	2002/07/29	1.2	14.0	0.3	СТ	<b>\$</b> 6	EF	150	364	L	8	30	С	700	80	6	Impassable 4.0m cascade falls at end of reach 0.1 d/s blocks all fish passage and marks upper extent of fish use. No fish present in watershed u/s from cascade. Seasonal, moderately steep creek with no permanent habitat, no overwintering u/s to support isolated population. Assume CT use below cascade. NFC below cascade as well.
	70732	1	126	2002/07/30	NA	15.0	0.0	СТ	NCD	NS			NA							Not an FPC stream at site location - lacks continuous channel bed. No fish habitat or potential, no connectivity to u/s reaches. Discontinuous channel and vegetated for 60m on 15% slope d/s from meadow, some scoured sections but is 80% vegetated by shrubs and saplings. Snowmelt runoff.
	70735	1	127	2002/07/30	0.9	7.3	0.1	СТ	<b>S</b> 6	NS			L							No fish habitat - seasonal and moderately steep stream with no instream cover when flowing during snowmelt runoff. Inferred CT use (S4) in R. 0.1 d/s.
	70736	1	128	2002/07/30	NA	4.0	0.0	СТ	NCD	NS			NA							Not an FPC stream at site location - lacks continuous channel bed. No fish habitat or potential, no connectivity to u/s reaches. Drains subalpine meadow, some short channelized sections within steeper (4%) gradient, otherwise seepage throughout.
	70737	1	129	2002/07/30	NA	NS	0.0	ст	NCD	NS			NA							Not an FPC stream at site location - lacks continuous channel bed. No fish habitat or potential, no connectivity to u/s reaches. Seepage through subalpine meadow, no fluvium, no continuity.
	70738	1	130	2002/07/30	0.8	4.3	0.1	ст	<b>S</b> 6	EF	2	23	L	5	30	С	700	80	6	No fish habitat - small, shallow, almost dry stream, no instream cover when flowing. Channel exposed, lacks any spawning, rearing or overwintering habitat.
	70739	1	131	2002/07/30	NA	NS	0.0	ст	NCD	NS			NA							Not an FPC stream at site location - lacks continuous channel bed. No fish habitat or potential, no connectivity to u/s reaches. Discontinuous channel, drains wetland u/s. Steep (22%) drop to parent stream, inaccessible anyway.
	70740	1	132	2002/07/30	NA	NS	0.0	СТ	NCD	NS			NA							Not an FPC stream at site location - lacks continuous channel bed. No fish habitat or potential, no connectivity to u/s reaches. Seepage, drains subalpine meadow with discontinuous channel, no fluvium. Drainage accessible and usable for rearing for 50m from mouth then NCD from site.
	70741	1	133	2002/07/30	NA	NS	0.0	CT	NCD	NS	<u> </u>		NA			<u>L</u>		<u>L</u> .	<u>L</u>	Not an FPC stream at site location - lacks continuous channel bed. No fish



Table 6: Summary of data from surveyed non-fish-bearing reaches in tributaries in the Pierre and Twain Sub-units

Watershed Code	ILP	Reach	Site	Date	Avg CW (m)	Avg Grad (%)	Avg Wb Depth (m)	Exp FPC Spp.	FPC Class	Method	EF Dist (m)	EF Time (s)	Flow Stage	Water Temp (C)	Conductivity (uS/cm)	Turbidity	Voltage (V)	Frequency (Hz)	Pulse Width (uS)	
		-																T	T	habitat or potential, no connectivity to u/s reaches. Just squishy meadow.
	70742	2	134	2002/07/30	1.1	4.7	0.1	ст	S6	EF	150	48	L	5	30	С	700	80	6	No fish habitat - shallow and intermittent stream, lacks instream cover when watered. No pools observed, just trickle between cobbles. Flows through shrubby corridor. Usable habitat present in reach 1.1 d/s (inferred CT presence).
	70743	1	135	2002/07/30	NA	NS	0.0	CT	NCD*	NS			NA						T	No stream/ drainage present at mapped location or within 100m radius.
	70746	3	138	2002/07/31	NA	NS	0.0	СТ	NCD	NS			NA							Not an FPC stream at site location - lacks continuous channel bed. No fish habitat or potential, no connectivity to u/s reaches. "Channel" is marginally accessible to site UTM (= R. 2.1), only 1 CT in reach below (R.2). At site, channel disperses in willow jail, occasionally reappearing, but totally dry. No continuity, no CT habitat anyway. When present, channel is cobbles/fines, organics, dry and moss covered.
	70747	2	140	2002/07/31	NA	NS	0.0	ст	NCD	NS			NA							Not an FPC stream at site location - lacks continuous channel bed. No fish habitat or potential, no connectivity to u/s reaches. Channel/drainage ends at edge of meadow - no channel/water present u/s from site.
	70748	1	141	2002/07/31	NA	NS	0.0	СТ	NCD	NS			NA							Not an FPC stream at site location - lacks continuous channel bed. No fish habitat or potential, no connectivity to u/s reaches. To here will be R.0.1. "Channel" is marginally accessible to site (v. shallow crap) and only 1 CT in R.2 of parent. At site, channel disperses in willow jail and loses continuity.
	70750	3	142	2002/07/30	NA	6.0	0.0	СТ	NCD	NS			NA							Not an FPC stream at site location - lacks continuous channel bed. No fish habitat or potential, no connectivity to u/s reaches. Creek from R.4 through cobble rubble, mostly underground, entire reach vegetated and no continuous channel present, only some isolated channelized sections. Percolates through cobbles on willow vegetated slope.
	70751	2	143	2002/07/30	0.6	12.8	0.1	ст	S6	EF	100	18	L	6	30	С	700	80	6	No fish habitat - tiny, shallow and moderately steep stream with no instream cover when watered. At present, water percolates through cobbles. Flows over forested slope with some subsurface flow sections.
	70753	1	144	2002/07/31	NA	NS	0.0	СТ	NCD	NS			NA							Not an FPC stream at site location - lacks continuous channel bed. No fish habitat or potential, no connectivity to u/s reaches. Stream is only a willow shrub corridor with no channel present, no water, no fish habitat.
	70754	1	145	2002/07/31	NA	NS	0.0	СТ	NCD	NS			NA							Not an FPC stream at site location - lacks continuous channel bed. No fish habitat or potential, no connectivity to u/s reaches. Drainage is just very local bank runoff, no fluvium, no water, no channel bed present.
	70756	1	146	2002/07/31	NA	NS	0.0	СТ	NCD	NS			NA							Not an FPC stream at site location - lacks continuous channel bed. No fish habitat or potential, no connectivity to u/s reaches. Reach 1 from site is dispersed with no fluvium or continuous channel bed and is not an FPC stream. 1st 100m of mapped "stream" is actually a lake back channel. From 100m to site (R 0.1), channel is dry mossy cobbles through meadow and has potentially accessible, although marginal, habitat at higher flow.



Table 6: Summary of data from surveyed non-fish-bearing reaches in tributaries in the Pierre and Twain Sub-units

Watershed Code	ILP	Reach	Site	Date	Avg CW (m)	Avg Grad (%)	Avg Wb Depth (m)	Exp FPC Spp.	FPC Class	Method	EF Dist (m)	EF Time (s)	Flow Stage	Water Temp (C)	Conductivity (uS/cm)	Turbidity	Voltage (V)	Frequency (Hz)	Pulse Width (n.S.)	Comments
	70757	1	147	2002/07/30	NA	NS	0.0	CT	NCD*	NS			NA							No stream/ drainage present at mapped location or within 100m radius.
	70758	2	149	2002/07/31	NA	NS	0,0	ст	NCD	NS			NA							Not an FPC stream at site location - lacks continuous channel bed. No fish habitat or potential, no connectivity to u/s reaches. At site channel becomes discontinuous with no fish habitat or potential, no passage u/s. Ribbon "1+230 North,1+125 E". site = junction with 70759. Note - shocked to here with NFC but infer CT present as habitat suitable and accessible to site (= R.1.1). NCD from here, (S3) to here.
	70759	1	150	2002/07/31	NA	19.5	0.0	СТ	NCD	NS			NA							Not an FPC stream at site location - lacks continuous channel bed. No fish habitat or potential, no connectivity to u/s reaches. Ribbon - "T = 1+300N, 1+155E, stream at 155E". Stream lacks continuity - channel occasionally present but not continuous, not passable, no fish habitat anyway (dry). 20% at mouth too.
480-816400-06800		2.1	153	2002/07/04	1.6	14.0	0.3	RB	\$6	EF	200	313	М	9	80	С	600	80	6	Impassable 2.0m cascade falls at beginning of reach blocks all fish passage and marks upper extent of fish use. No fish present in watershed u/s from cascade. Followed by 60m long bedrock cascade at 14% gradient. 2nd sampling NFC above cascade to confirm fish absence. Observed natural spring d/s from cascade which contributes significant flow to the stream and may explain RB presence in lower section - no RB captured u/s from spring either.
480-816400-06800-04500		1	154	2002/07/04	1.4	5.5	0.2	RB	S6	EF	100	39	М	8	110	С	600	80	6	Seasonal, shallow creek, already dry now when others at mod-hi flow stage.



#### 4.4.3 Follow-up Sampling Required

No follow-up sampling within sampled streams has been recommended for this project. All upper extents of confirmed or inferred fish use have been identified.

#### 5. Bibliography

FINS. 1999. Reconnaissance (1:20,000) Fish and Fish Habitat Inventory: Pierre and Twain Sub-Units Fish Inventory – 1999. WSC's 480-793000: Kew C. (Alias) Watershed; 480-802100: Pierre C. Watershed; 480-816400: Twain C. Watershed; and 480-\*\*\*\*\*\* 8 Small Tributaries to Babine Lake. Unpublished report submitted to BC Min. Environ., Lands and Parks, Fisheries Branch, Skeena Region. 37pp + 2 Apps. + Attachments.

Fisheries Information Summary System (FISS), 2002. Mapsheets 93 K/12, 93 L/9.

MELP. 1995. B.C. Lakes Database. B.C. Min. of Environment - Fisheries Headquarters, Victoria, B.C.

MELP: Resource Analysis Branch. Aquatic Biophysical Maps - B.C. Min. of Environment, Victoria, B.C.

Province of British Columbia. 1995. Riparian Management Area Guidebook. Forest Practices Code Guidebook. B.C. Min. For., Victoria, B.C.

Province of British Columbia. 1996. Channel Assessment Procedure Guidebook. Forest Practices Code Guidebook. B.C. Min. For., Victoria, B.C.

Province of British Columbia. 1997. Fish Collection Methods and Standards. Version 4.0. RIC January 1997 and Errata #1 RIC (March 1999). B.C. Min. Fisheries. Fisheries Inventory Section. Victoria, B.C..

Province of British Columbia. 1997. Fisheries Information Summary System (FISS): Data Compilation and Mapping Procedures. Federal/ Provincial Fish Habitat Inventory and Information Program. Draft 3 October 1997. B.C. Min. Fisheries. Fisheries Inventory Section. Victoria, B.C.

Province of British Columbia. 1998. Fish-stream Identification Guidebook Second Edition. Forest Practices Code Guidebook. B.C. Min. For., Victoria, B.C.

Province of British Columbia. 1999. Guidelines for Local Area Agreement Preparation: Skeena Region. Draft Version 2 - June 1999.

Province of British Columbia. 1999. Reconnaissance (1:20,000) Fish and Fish Habitat Inventory: Site Card Field Guide. Version 1.0. RIC March 1999 and Errata RIC (March 2000). B.C. Min. Fisheries. Fisheries Inventory Section. Victoria, B.C.

Province of British Columbia. 1999. Reconnaissance (1:20,000) Fish and Fish Habitat Inventory: Fish Collection Form Field Guide. Version 1.0. RIC March 1999 and Errata RIC (March 2000). B.C. Min. Fisheries. Fisheries Inventory Section. Victoria, B.C.



Province of British Columbia. 2000. Reconnaissance (1:20,000) Fish and Fish Habitat Inventory: Reach Information Guide. Version 1.0. RIC March 2000. B.C. Min. Fisheries. Fisheries Inventory Section. Victoria, B.C.

Province of British Columbia. 2001. Reconnaissance (1:20,000) Fish and Fish Habitat Inventory: Standards and Procedures. Version 2.0. RIC April 2001. B.C. Min. Fisheries. Fisheries Inventory Section. Victoria, B.C.

Province of British Columbia. 2001. Standards for Fish and Fish Habitat Maps. Version 3.0. RIC April 2001. B.C. Min. Fisheries. Fisheries Inventory Section. Victoria, B.C.

Province of British Columbia. 2001. Users Guide to British Columbia's Watershed/ Waterbody Identifier System. Version 2.2. RIC March 2001. B.C. Min. Fisheries. Fisheries Inventory Section. Victoria, B.C.

#### 6. List of Appendices

Appendix I: FDIS Reach/Site Summaries

**Photographs** Appendix II:

Appendix III: Hardcopy Maps

# Reconnaissance (1:20,000) Fish and Fish Habitat Inventory

# Resampling in the Pierre and Twain Sub-units 2002/03

Addendum to Pierre and Twain Sub-units Fish Inventory - 1999

• Appendix I: FDIS Reach/Site Summaries

BFP FFHI 2002/03 - Pierre/Twain Resampling

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BFP FFHI 2002/03 - Pierre/Twain Resampling

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Reach #:	1.0			UTM/Zone/	Fast/No	rth): 10.313	165.605910	)4		S	ample	Type:	Biase	d
Length (km				Coupling:		•	lagnitude:			_	BGC 2	• •		_
Gradient (%	): 1.4		Соп	finement: Oc	casional	lly Con	Order:	2		Oį	en wat	ter:		- 1
US Elev (m	): 724			isiands:		1	Riparlan Ve	egetatio	1:					
Bars: None	Sid	e 🗌 D	iagonal	Mid-cha	nneł 🗌	Span 🗌	Braid 🗌	Land	se:					
						51	TE							
Site #	: 2		Field &	JTM 10.3132	<b>38</b> .60591	116	Age	ncy: C01	16	Crew: MU/	SR	Date: 2	002/08	/15
Site Lengti	n (m): 70		GIS	UTM 10.3132	32.60590	094	Age	ncy Nam	e:FIN	NS Consulting Ltd.				
						CHA	NNEL							
No Vis.Ch.:	=	ermittent	: 🗹 💆		f	Avg Mi		#	_		Avg	Min	Max	#
Dewatered	:[]	Tribs.	:□ [	Channel Wid		1.18 0.9		6		Gradient %:	2.00	1	3	3
Stage: Low	$\checkmark$		-	Wetted Wid	<del>```</del>	0.00 0	0	0	L	Pool Depth (m):	0.00	0	0	0
Med	==		L	Bankfuli De		0.00   0		l		Turbi	-	Turbid	₹	Low
High		Tem	o (C):	pł	<del>1:</del>		Conducti				M	oderate_		ilear
						MORP	OLOG	<b>.Y</b>						
Bed Materia				•	cm): 0.1		Bars: N	on 🗹	Side	Diagonal [	] Mid-	channel		oan 🔲
	Subdom	inant: No	t Applica	able D(	cm): 0.1	10							Br	aid 📙
Channel P		•		ng Isla	nds: Non		TURBANCI DICATORS		B1	B2 B3	D1	D2 D3	1	
1	upling: D	•						L-Lf	11.	05 04 00	1.11.		ᄓ	
į.	ement: U hology:   I		u ırge Cha	nnel		C1	C2	C3 C	7	C5 S1 S2	S3	S4	S5	
William	lology.		nge Cha						<u> </u>			<u> </u>		
						CO	VER							
Total Cover	: None				Туре:	<del></del>		В	Ü	DP C	_	IV		
LWD	: None		ı	Location:	mount:	N C	N	N	N	N I	<u> </u>	N		
LWD Dist	: Not Ap	olicable	1	COCATON.	F13/U.		الاللاللة		11			البال	FS	Z: []
Right Bank	: Sha	ipe: Slop	ing (g	Texture: Fines	Gra			=	Rock	= =		Сго	wn Clo	
Left Bank		pe: Slop		Texture: Fines	-			ilder	Rock	Manmade			71-9	ю%
Right Bank Left Bank		/eg: Shr. /eg:	ibs		-	e: Not Applic e: Not Applic		lact	mam '	Veg: None 🗹 A	voan F	Nance [	7 1/20	cular 🗌
Lon Daily	. Юр.ч					a. Not Applic				veg. None (v) 7		IWOSS [	<b>v</b> as	CURAI
		, <u></u>				T	FEAT		<b>W</b>				,	
	NID	Type BMA	Hgt	Method	Lg	Method	R: Ph	oto F:	╌	UTM (Z/E/N) 10.313530.605900		Method	1	
NID Map	30021				<u> </u>	I GL		ــــانا					<u> </u>	
093K.061	30021 s: Almos	<u> </u>	each is l	Kew Creek										
093K.061		<u> </u>	each is l	Kew Creek										
093K.061 Comment	s: Aimos	t entire r												
093K.061 Comment	s: Almos	t entire r	, Image	#329, Direc										
093K.061 Comment Roll# 15, Fi Roll# 15, Fi	s: Almos rame# 7 rame# 8	, CD# 4	, Image	#329, Direc	tion: Do	wnstream,	Scale/Co	mment:	Cam		t - sea	sonal cr	eek wi	th v.
Roll# 15, Fr Roll# 15, Fr site=UTM= poor instrea	rame# 7 rame# 8 mouth.	, CD# 4 , CD# 4 , CD# 4 Almost a	, Image , Image all reacl watere	e#329, Direct e#330, Direct h is a Kew C d, mainly over	tion: Do . mains erstrear	ownstream, tem and or n vegetatio	Scale/Co nly 70m is n and stic	mment: in R1. ( ks, wate	Cam Other ered (	bag ·- No fish habita likely for v. shor	time i	n spring	and m	
Roll# 15, Fr Roll# 15, Fr site=UTM= poor instrea	rame# 7 rame# 8 mouth.	, CD# 4 , CD# 4 , CD# 4 Almost a	, Image , Image all reacl watere	e#329, Direct e#330, Direct h is a Kew C d, mainly over	tion: Do . mains erstrear	ownstream, tem and or n vegetatio	Scale/Co nly 70m is n and stic	mment: in R1. ( ks, wate	Cam Other ered (	bag ·- No fish habita	time i	n spring	and m	
Roll# 15, Fr Roll# 15, Fr site=UTM= poor instrea	rame# 7 rame# 8 mouth.	, CD# 4 , CD# 4 , CD# 4 Almost a	, Image , Image all reacl watere	e#329, Direct e#330, Direct h is a Kew C d, mainly over	tion: Do . mains erstrear	ownstream, tem and or n vegetatio	Scale/Co nly 70m is n and stic	mment: in R1. ( ks, wate	Cam Other ered (	bag - No fish habita likely for v. shor	time i	n spring	and m	
Roll# 15, Fr Roll# 15, Fr site=UTM= poor instrea	rame# 7 rame# 8 mouth.	, CD# 4 , CD# 4 , CD# 4 Almost a	, Image , Image all reacl watere	e#329, Direct e#330, Direct h is a Kew C d, mainly over	tion: Do . mains erstrear	ownstream, tem and or n vegetatio	Scale/Co nly 70m is n and stic	mment: in R1. ( ks, wate	Cam Other ered (	bag - No fish habita likely for v. shor	time i	n spring	and m	
Roll# 15, Fr Roll# 15, Fr site=UTM= poor instrea	rame# 7 rame# 8 mouth.	, CD# 4 , CD# 4 , CD# 4 Almost a	, Image , Image all reacl watere	e#329, Direct e#330, Direct h is a Kew C d, mainly over	tion: Do . mains erstrear	ownstream, tem and or n vegetatio	Scale/Co nly 70m is n and stic	mment: in R1. ( ks, wate	Cam Other ered (	bag - No fish habita likely for v. shor	time i	n spring	and m	
Roll# 15, Fr Roll# 15, Fr site=UTM= poor instrea	rame# 7 rame# 8 mouth.	, CD# 4 , CD# 4 , CD# 4 Almost a	, Image , Image all reacl watere	e#329, Direct e#330, Direct h is a Kew C d, mainly over	tion: Do . mains erstrear	ownstream, tem and or n vegetatio	Scale/Co nly 70m is n and stic	mment: in R1. ( ks, wate	Cam Other ered (	bag - No fish habita likely for v. shor	time i	n spring	and m	
Roll# 15, Fr Roll# 15, Fr site=UTM= poor instrea	rame# 7 rame# 8 mouth.	, CD# 4 , CD# 4 , CD# 4 Almost a	, Image , Image all reacl watere	e#329, Direct e#330, Direct h is a Kew C d, mainly over	tion: Do . mains erstrear	ownstream, tem and or n vegetatio	Scale/Co nly 70m is n and stic	mment: in R1. ( ks, wate	Cam Other ered (	bag - No fish habita likely for v. shor	time i	n spring	and m	

BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

ILP# 61705

.0 93K.061

				STR	EAM	REF	ERE)	ICIN	G						
Gazet	ted Nar	ne:						Local N	lame:						
Water	shed C	ode: 000-800000-900	00-000	00-0000-0000-00	00-000-00	00-000-0	000-000		ILP	Map #: 93K	.061		ILP	<b>#</b> :	61705
					J	REAC	H								
Rea	ch #: 2.	0	דט	M(Zone/East/N	orth): 10	.312709	.605933	9			Sa	ample '	Type:	Bias	ed
	th (km):			oling:	•		nitude:					BGC 2	• •		
l .	ent (%):			ment: Frequently	y Confin		Order:				Op	en wat	ter:		
ł	lev (m):			ands:	٦.	_ `	arian Ve	-							
Bars:	None L	Side Diagona	u []	Mid-channel _	j Span	∐ Br		Land	use:						
		-				SIT		-	-	_	···		_		
Site	Site #: Length	-		10.313002.6059 10.313002.6059			•	ncy: C0		Crew: IS Consulting	MJ/S Litd.	SR	Date:	2002/0	ਲ/15 
- Sile	-c-igui	(, 100				HAN		incy INGI		whoustly	,				
No V	/is.Ch.:	Intermittent: 🗸			Avg	Min	Max	#			Г	Avg	Min	Max	T # 1
i	atered:[	Tribs.:	Cha	annel Width (m):		0.5	1.200	6	Г	Gradien	1 %:	3.25	3	4	4
Stage:	Low		W	etted Width (m):	0.00	0	0	0	1 E	Pool Depth		0.00	0	0	0
	Med	<del></del>	Ba	nkfull Depth (m):	0.10	0.1	0.1	3	]		Furbid	iity.:	Turbid	⊒ ̄	Low
L	High [	Temp (C):		pH:			onducti	vity:				Me	oderate		Clear 🗌
					MOF	(PHC	(L (), ()	Y		_					_
Bed		: Dominant: Fines		D95 (cm): 10			Bars: N	on 🗹	Side	Diagon	al 🗌	Mid-	channel		Span 🔲
		Subdominant: Cobble		D (cm): 0					_		_				Braid
Cha		ftem: Sinuous pling: Decoupled		Islands: No	ne		RBANCI ATORS		<u>B1</u>	<u>B2 B</u>	3	D1	<u>D2                                     </u>	)3 	
		ment: Occasionally Co	nfine			C1		لللا	<u> </u>	C5 S1	S2	S3	\$4	 S5	
	Morpho	ology: RP Riffle Po	ol												
						0:00	E R								
Total	Cover.	None		Type:	SWD	LWI		В	U	DP	O	v T	IV	]	
	LWD:	None		Amount:	N	N		N	N	N	N		N	]	
LW		Not Applicable		ocation: P/S/O:										F	sz: 🗌
1	nt Bank:	Shape: Sloping (g		re: Fines 🗹 Gr			_	lder	Rock	=	=		Cr	own Ci	
1	ft Bank: it Bank:	Shape: V - shape	Textu	لتخنا		Cobble		lder	Rock	Manmad	de 🔝			71	-90%
_	it bank: ft Bank;	Rip.Veg: Shrubs Rip.Veg:		-	ge: Not A ge: Not A			ins	tream \	Veg: None	<b>y</b> A	lgae [	Moss	□ Va	scular 🗌
L		<u> </u>													
Rol#	15, Fra	me# 5, CD# 4, Ima	ge#32	7, Direction: U	pstream	n, Scale	/Comn	nent:ca	m bac	 }					
Rol#	15, Fra	me# 6, CD# 4, Ima	ge#32	8, Direction: D	ownstre	eam, So	ale/Co	mment	:cam Ì	bag	•				
		h small swale within unoff or heavy rain,													
		scoured sections of				, , , , , ,				,	, , , ,				•
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BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # !LP Map #

ILP#

	STREA	MREF	ERE)	ICIN	G					
Gazetted Name:				Local N	ame:					
Watershed Code: 480-793000-1310	0-0000-0000-000-000-00	0-000-000-	000-000		ILP	Мар #:		ILF	· 你	
		REA(	) H							
Reach #: 4.0	UTM(Zone/East/North)	: 10.312077	.605823	11		S	ample	Type:	Biase	d
Length (km): .26	Coupling:	Mag	mitude:				BGC 2	Zone:		
	onfinement: Occasionally C		Order:			O	pen wa	ter:		
US Elev (m): 806	Islands:	Rlp	arian Ve	egetatio	n:					
Bars: None Side Diagona	al Mid-channel Sp	pen ∐ Br	aid 📙	Land	ise:					
		811	E							
Site #: 4 Field	UTM 10.312237.6058238			ncy: CO			/SR	Date:	2002/08	3/15
Site Length (m): 100 GI	S UTM 10.312235.6058229		Age	ncy Nan	e: FINS	S Consulting Ltd				
		CHAN	NEL							
No Vis.Ch.: V Intermittent:	Av	ng Min	Max	#	_		Avg	Min	Max	#
Dewatered: Tribs.:	Channel Width (m): 0.0		0	٥		Gradient %:	0.00	0	0	0
Stage: Low 🗌	Wetted Width (m): 0.0		0	0	L	Pool Depth (m):	0.00	0	0	<u> </u>
Med	Bankfull Depth (m): 0.0			<b>.</b>		Turbi	-	Turbid	=	Low
High Temp (C):	pH:		Conducti	vity:			M	oderate		Clear
	M	ORPHO	) L O G	١,						
Bed Material: Dominant:	D95 (cm):		Bars: N	on 🗌	Side	Diagonal [	Mid	-channel	_	pan 🔲
Subdominant:	D (cm):								В	raid
Channel Pattern:	Islands:		RBANCI		B1	B2 B3	D1	D2 [	3	
Coupling:			CATORS	٠ـــــــــــــــــــــــــــــــــــ	Щ		Ш	Ш		
Confinement:		C1	C2	C3 C	4 C	5 S1 S2		S4	S5	
Morphology:					<u> </u>					
		e o v	F.R.							
Total Cover:	Type: SW	/D LWI	<b>D</b>	В	U	DP C	)V	IV	]	
LWD:	Amount:									
LWD Dist:	Location: P/S/O:								FS	z: 🗌
Right Bank: Shape:	Texture: Fines Gravel	Cobble	☐ Bou	lder	Rock [	Manmade _	]	Cı	own Clo	sure
Left Bank: Shape:	Texture: Fines Gravel	Cobble	☐ Bou	lder	Rock [	Manmade	]			
Right Bank: Rip.Veg:	Stage:					_	_	_		
Left Bank: Rip.Veg:	Stage:			Inst	ream V	eg: None 🔲	Ngae _	_ Moss	∐ Vas	cular
Roll# 15, Frame# 13, CD# 4, Ima Roll# 15, Frame# 14, CD# 4, Ima site = UTM. Other - No fish habit	age#336, Direction: Dow	nstream, S	Scale/C	ommer	tcam		reache	s, habit	able to	here

#### BFP FFHI 2002/03 - Pierre/Twain Resampling

Watershed Code: 480-793000-13100-30021-0000-0000-000-000-000-000-000-000

Reach # ILP Map #

ILP#

	STREAM	REFERE	4 C I N G					
Gazetted Name:			Local Nan	ле:				
Watershed Code: 480-793000-1310	00-30021-0000-0000-000-000-	000-000-000-000		ILP Map #:		ILP	*	
		REACH						
Reach #: 1.0	UTM(Zone/East/North): 1	0.312862.605801	9	s	ample	Туре:	Biase	d
Length (km): .35	Coupling:	Magnitude:			BGC 2			
• •	onfinement: Frequently Confin			Oı	en wat	ter:		
U\$ Elev (m): 782	Islands:	Riparian Ve	_					
Bars: None Side Diagoni	al Mid-channel Spar		Landus	e:				
		SITE						
	IUTM 10.312733.6058328	-	ncy: C016			Date:	2002/08	1/15
Site Length (m): 100 Gi	S UTM 10.312732.6058309	Age	ncy Name:	FINS Consulting Ltd.			·	
		HANNEL						
No Vis.Ch.: Intermittent:	Avg	Min Max	#		Avg	Min	Max	#
Dewatered: Tribs.:	Channel Width (m): 0.87	0.7 1.100	6	Gradient %:	6.50	5	8	4
Stage: Low 🗹	Wetted Width (m): 0.00 Bankfull Depth (m): 0.17	0 0	3	Pool Depth (m):	0.00	0	0	0
Med _			استسا	Turbi	•	Turbid	==	Low
High Temp (C):	pH:	Conducti			M	oderate		lear
	MO	RPHOLOG			_			
Bed Material: Dominant: Fines Subdominant: Cobble	D95 (cm): 15.00 D (cm): 4.00	Bars: No	on 🗹 🧐	Side Diagonal L	_ Mid-	channel		pan 📋
Channel Pattern: Sinuous	Islands: None	DISTURBANCI	E 01	B1 B2 B3	D1	D2 D	3	
Coupling: Partially Coupled	i	INDICATORS						
Confinement: Frequently Conf	ined	C1 C2	C3 C4	C5 S1 S2	S3	S4	S5	
Morphology: CP Cascade	Pool							
		COVER						
Total Cover: None	Type: SWD	LWD	В	U DP C	V	ΙV	l	
LWD: Few	Amount: N	N	N	N N I	V	N		
LWD Dist: Evenly Distributed	Location: P/S/O:						FS	z: 🗌
Right Bank: Shape: V - shape	Texture: Fines ✔ Gravel	Cobble Bou	lder R	ock Manmade	]	Cn	own Clo	sure
Left Bank: Shape: V - shape	Texture: Fines 🗹 Gravel	Cobble Bou	lder R	ock Manmade			41-7	70%
Right Bank: Rip.Veg: Deciduous		-sapling stage			_	٠,	_	_
Left Bank: Rip.Veg:	Stage: Pole	-sapling stage	Instre	am Veg: None 📙 /	Ngae L	_ Moss	<b>√</b> Vas	cular _
Roll# 15, Frame# 9, CD# 4, Ima								
Roll# 15, Frame# 10, CD# 4, Im site = UTM = mouth. flows throu					eason:	al etrear	n wate	ered
only during spring runoff and ea								
		_						

#### BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

ILP#

1.0 93K.061

		STR	EAM	REF	EREI	VCIN	G						
Gazetted Name:						Local N	lame	<b>:</b>					
Watershed Code:	000-000000-0000	0-00000-0000-0000-00	0-000-0	00-000	000-000	٠	II	LP Map #: 93k	C061		IL.	P #:	61713
				REA(	) H								
Reach #: 1.0		UTM(Zone/East/No	orth): 1(	).31164	3.605724	13			s	ample '	Type:	Bias	ed
Length (km): 1.42		Coupling:		Mag	initude:				_	BGC 2			
Gradient (%): 11.3 US Elev (m): 952		onfinement: Confined Islands:		Rin	Order: arian Ve		m·		O	en wat	ler:		
l `_	Side Diagona		Span	_	raid 🗍	Land							
			, -,	SIT					*****				
Site #: 6	Field	UTM 10.312367.6058	153	*******		ncy: C0	16	Crew:	MJ	SR	Date:	2002/0	)8/15
Site Length (m): 1	100 GIS	S UTM 10.312373.6058	3142		_	•		INS Consulting	g Ltd.				
			C	HAN	NEL								
1 =	Intermittent: 🗹		Avg	Min	Max	#	1			Avg	Min	Max	#
Dewatered:	Tribs.:	Channel Width (m):	0.62	0.400	0.800	6	ļ	Gradier		7.75	7	8	4
Stage: Low		Wetted Width (m): Bankfull Depth (m):		0.2	0.2	3	1	Pool Depth	ائست	0.00	0	0	10
j Med ∐ High ☐	Temp (C):	pH:			Conducti	vity:	3		Furbi	-	Turbid oderate	=	Low
			MOI	<b>RPHC</b>	LOG	¥							
Bed Material; Do	ominant: Cobble	D95 (cm): 12	2.00		Bars: N	on 🔽	Sid	le Diagor	nal [	Mid-	channe	ı 🗌 :	Span 🗌
Subdo	ominant: Gravels	D (cm): 5.	.00									ı	Braid 🗌
Channel Pattern:		Islands: No	ne		RBANC		B	31 B2 B	3	D1	D2 [	23	
Coupling: Confinement:	-			C1	CATORS C2	سللا	⊥ ≱	C5 S1	 S2	53	 S4	 S5	
Morphology		Pool			MI		٦		<u>52</u>			$\overline{\Box}$	
· -				1						<u> </u>			
			*********	638°88		********	******		******				***************************************
Total Cover None		Type:		COV		R T	IJ	) ne		v T	īV	1	
Total Cover: None		Type: Amount:	SWD N	C Q ¥	0	B N	U	DP N	0	v	IV N	]	
Total Cover: None  LWD: None  LWD Dist: Not A	•	<del>``</del>	SWD	LW	0							F	sz: 🗌
LWD: None LWD Dist: Not A	•	Amount:	SWD N	LWI N		N 	N	N D D			N	F:	
LWD: None LWD Dist: Not A Right Bank: S Left Bank: S	e Applicable Shape: V - shape Shape: V - shape	Amount: Location: P/S/O: Texture: Fines  Gr Texture: Fines Gr	SWD N avel	LWI N Cobble	D D D D D D D D D D D D D D D D D D D	N Ider	N	N N	de [		N	nown Cl	
LWD: None LWD Dist: Not A Right Bank: S Left Bank: S Right Bank: Rig	a Applicable Shape: V - shape Shape: V - shape p.Veg: Coniferous	Amount: Location: P/S/O: Texture: Fines  Gr Texture: Fines  Gr Stag	SWD N avel avel avel ge: Pole-	LWI N Cobble Cobble	D Bou	N	Roc	N  k Manma	de _		N C		osure -40%
LWD: None LWD Dist: Not A Right Bank: S Left Bank: S Right Bank: Rig	e Applicable Shape: V - shape Shape: V - shape	Amount: Location: P/S/O: Texture: Fines  Gr Texture: Fines  Gr Stag	SWD N avel	LWI N Cobble Cobble	D Bou	N	Roc	N N	de _		N C		osure
LWD: None LWD Dist: Not A Right Bank: S Left Bank: Right Bank: Rig	Applicable Shape: V - shape Shape: V - shape p.Veg: Coniferous p.Veg: # 11, CD# 4, Ima # 12, CD# 4, Ima	Amount: Location: P/S/O: Texture: Fines  Gr Texture: Fines  Step Stag Stag age#333, Direction:	SWD N avel  avel  ge: Pole- ge: Pole- Upstrea Downs	Cobble Cobble sapling sapling arm, Scattream,	D Bou Stage Stage	Institute of the second of the	Roce Roce tream	N Manmark Manmark None None	de de	N C	N C	rown Ct 21	osure -40% scular
LWD: None LWD Dist: Not # Right Bank: S Left Bank: Rig Left Bank: Rig Roll# 15, Framef Roll# 15, Framef flows through gu	Applicable Shape: V - shape Shape: V - shape p.Veg: Coniferous p.Veg: # 11, CD# 4, Ima # 12, CD# 4, Ima tity in a cutblock.	Amount: Location: P/S/O: Texture: Fines  Gr Texture: Fines  Gr Stag Stag age#333, Direction: age#334, Direction: site = UTM. Other	SWD N avel  avel  ge: Pole- ge: Pole- Downs No fisi	Cobble Cobble sapling sapling arm, Scatream, in habita	Bou Bou stage stage	Institute Instit	Roc Roc tream	N Manmark Manmark None None	de d	Nugae C	N C Moss	rown Ct 21	osure -40% scular
LWD: None LWD Dist: Not # Right Bank: S Left Bank: Rig Left Bank: Rig Roll# 15, Framef Roll# 15, Framef flows through gu	Applicable Shape: V - shape Shape: V - shape p.Veg: Coniferous p.Veg: # 11, CD# 4, Ima # 12, CD# 4, Ima tity in a cutblock.	Amount: Location: P/S/O: Texture: Fines  Gr Texture: Fines  Step Stag Stag age#333, Direction:	SWD N avel  avel  ge: Pole- ge: Pole- Downs No fisi	Cobble Cobble sapling sapling arm, Scatream, in habita	Bou Bou stage stage	Institute Instit	Roc Roc tream	N Manmark Manmark None None	de d	Nugae C	N C Moss	rown Ct 21	osure -40% scular
LWD: None LWD Dist: Not # Right Bank: S Left Bank: Rig Left Bank: Rig Roll# 15, Framef Roll# 15, Framef flows through gu	Applicable Shape: V - shape Shape: V - shape p.Veg: Coniferous p.Veg: # 11, CD# 4, Ima # 12, CD# 4, Ima tity in a cutblock.	Amount: Location: P/S/O: Texture: Fines  Gr Texture: Fines  Gr Stag Stag age#333, Direction: age#334, Direction: site = UTM. Other	SWD N avel  avel  ge: Pole- ge: Pole- Downs No fisi	Cobble Cobble sapling sapling arm, Scatream, in habita	Bou Bou stage stage	Institute of the season of the	Roc Roc tream	N Manmark Manmark None None	de d	Nugae C	N C Moss	rown Ct 21	osure -40% scular
LWD: None LWD Dist: Not # Right Bank: S Left Bank: Rig Left Bank: Rig Roll# 15, Framef Roll# 15, Framef flows through gu	Applicable Shape: V - shape Shape: V - shape p.Veg: Coniferous p.Veg: # 11, CD# 4, Ima # 12, CD# 4, Ima tity in a cutblock.	Amount: Location: P/S/O: Texture: Fines  Gr Texture: Fines  Gr Stag Stag age#333, Direction: age#334, Direction: site = UTM. Other	SWD N avel  avel  ge: Pole- ge: Pole- Downs No fisi	Cobble Cobble sapling sapling arm, Scatream, in habita	Bou Bou stage stage	Institute of the season of the	Roc Roc tream	N Manmark Manmark None None	de d	Nugae C	N C Moss	rown Ct 21	osure -40% scular
LWD: None LWD Dist: Not # Right Bank: S Left Bank: Rig Left Bank: Rig Roll# 15, Framef Roll# 15, Framef flows through gu	Applicable Shape: V - shape Shape: V - shape p.Veg: Coniferous p.Veg: # 11, CD# 4, Ima # 12, CD# 4, Ima tity in a cutblock.	Amount: Location: P/S/O: Texture: Fines  Gr Texture: Fines  Gr Stag Stag age#333, Direction: age#334, Direction: site = UTM. Other	SWD N avel  avel  ge: Pole- ge: Pole- Downs No fisi	Cobble Cobble sapling sapling arm, Scatream, in habita	Bou Bou stage stage	Institute of the season of the	Roc Roc tream	N Manmark Manmark None None	de d	Nugae C	N C Moss	rown Ct 21	osure -40% scular
LWD: None LWD Dist: Not # Right Bank: S Left Bank: Rig Left Bank: Rig Roll# 15, Framef Roll# 15, Framef flows through gu	Applicable Shape: V - shape Shape: V - shape p.Veg: Coniferous p.Veg: # 11, CD# 4, Ima # 12, CD# 4, Ima tity in a cutblock.	Amount: Location: P/S/O: Texture: Fines  Gr Texture: Fines  Gr Stag Stag age#333, Direction: age#334, Direction: site = UTM. Other	SWD N avel  avel  ge: Pole- ge: Pole- Downs No fisi	Cobble Cobble sapling sapling arm, Scatream, in habita	Bou Bou stage stage	Institute of the season of the	Roc Roc tream	N Manmark Manmark None None	de d	Nugae C	N C Moss	rown Ct 21	osure -40% scular
LWD: None LWD Dist: Not # Right Bank: S Left Bank: Rig Left Bank: Rig Roll# 15, Framef Roll# 15, Framef flows through gu	Applicable Shape: V - shape Shape: V - shape p.Veg: Coniferous p.Veg: # 11, CD# 4, Ima # 12, CD# 4, Ima tity in a cutblock.	Amount: Location: P/S/O: Texture: Fines  Gr Texture: Fines  Gr Stag Stag age#333, Direction: age#334, Direction: site = UTM. Other	SWD N avel  avel  ge: Pole- ge: Pole- Downs No fisi	Cobble Cobble sapling sapling arm, Scatream, in habita	Bou Bou stage stage	Institute of the season of the	Roc Roc tream	N Manmark Manmark None None	de d	Nugae C	N C Moss	rown Ct 21	osure -40% scular
LWD: None LWD Dist: Not # Right Bank: S Left Bank: Rig Left Bank: Rig Roll# 15, Framef Roll# 15, Framef flows through gu	Applicable Shape: V - shape Shape: V - shape p.Veg: Coniferous p.Veg: # 11, CD# 4, Ima # 12, CD# 4, Ima tity in a cutblock.	Amount: Location: P/S/O: Texture: Fines  Gr Texture: Fines  Gr Stag Stag age#333, Direction: age#334, Direction: site = UTM. Other	SWD N avel  avel  ge: Pole- ge: Pole- Downs No fisi	Cobble Cobble sapling sapling arm, Scatream, in habita	Bou Bou stage stage	Institute of the season of the	Roc Roc tream	N Manmark Manmark None None	de d	Nugae C	N C Moss	rown Ct 21	osure -40% scular
LWD: None LWD Dist: Not # Right Bank: S Left Bank: Rig Left Bank: Rig Roll# 15, Framef Roll# 15, Framef flows through gu	Applicable Shape: V - shape Shape: V - shape p.Veg: Coniferous p.Veg: # 11, CD# 4, Ima # 12, CD# 4, Ima tity in a cutblock.	Amount: Location: P/S/O: Texture: Fines  Gr Texture: Fines  Gr Stag Stag age#333, Direction: age#334, Direction: site = UTM. Other	SWD N avel  avel  ge: Pole- ge: Pole- Downs No fisi	Cobble Cobble sapling sapling arm, Scatream, in habita	Bou Bou stage stage	Institute of the season of the	Roc Roc tream	N Manmark Manmark None None	de d	Nugae C	N C Moss	rown Ct 21	osure -40% scular
LWD: None LWD Dist: Not # Right Bank: S Left Bank: Rig Left Bank: Rig Roll# 15, Framef Roll# 15, Framef flows through gu	Applicable Shape: V - shape Shape: V - shape p.Veg: Coniferous p.Veg: # 11, CD# 4, Ima # 12, CD# 4, Ima tity in a cutblock.	Amount: Location: P/S/O: Texture: Fines  Gr Texture: Fines  Gr Stag Stag age#333, Direction: age#334, Direction: site = UTM. Other	SWD N avel  avel  ge: Pole- ge: Pole- Downs No fisi	Cobble Cobble sapling sapling arm, Scatream, in habita	Bou Bou stage stage	Institute of the season of the	Roc Roc tream	N Manmark Manmark None None	de d	Nugae C	N C Moss	rown Ct 21	osure -40% scular

BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

ILP#

1.0 93K.061

	STREAM REFERENCING
Gazetted Name:	Local Name:
Watershed Code: 000-000000-0000	00-00000-0000-0000-000-000-000-000-000
	REACH
Reach #: 1.0	UTM(Zone/East/North): 10.312420.6058454 Sample Type: Biased
Length (km): .50	Coupling: Magnitude: BGC Zone:
	onfinement: Occasionally Con Order: 2 Open water:
US Elev (m): 766	Islands: Riparian Vegetation:
Bars: None Side Diagona	
	SITE
	d UTM 10.312759.6058736 Agency: C016 Crew: MJ/SR Date: 2002/08/15 IS UTM 10.312777.6058750 Agency Name: FINS Consulting Ltd.
	CHANNEL
No Vis.Ch.: V Intermittent:	Avg Min Max # Avg Min Max #
Dewatered: Tribs.:	Channel Width (m): 0.00 0 0 Gradient %: 0.00 0 0
Stage: Low 🗌	Wetted Width (m): 0.00 0 0 Pool Depth (m): 0.00 0 0 Bankfull Depth (m): 0.00 0 0 0
Med	Turbiary.: 1 urbia Low
High Temp (C):	, and a second s
Rad Medarials Dominants	MORPHOLOGY  D95 (cm): Bars: Non Side Diagonal Mid-channel Span
Bed Material: Dominant: Subdominant:	D95 (cm): Bars: Non
Channel Pattem:	Islands: DISTURBANCE O1 B1 B2 B3 D1 D2 D3
Coupling:	INDICATORS
Confinement	C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
Morphology:	
	COVER
Total Cover:	Type: SWD LWD B U DP OV IV
LWD:	Amount:
LWD Dist:	Location: P/S/O: FSZ:
Right Bank: Shape:	Texture: Fines Gravel Cobble Boulder Rock Manmade Crown Closure
Left Bank: Shape:	Texture: Fines Gravel Cobble Boulder Rock Manmade
Right Bank: Rip.Veg: Left Bank: Rip.Veg:	Stage: Instream Veg: None Algae Moss Vascular
Lott Daine 14th 10th	Ougo
no drainage amount of man	location or 100m radius. site = UTM = "mouth"
no dramage present at mapped	iocalion of 100m radius, sits - 0 mm = 1000m

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Reach # ILP Map #

ILP#

1.0 93K.061

	STREAM	REFERENCING		
Gazetted Name:		Local Name	<b>e</b> :	
Watershed Code: 000-000000-0000	0-00000-0000-0000-000-000-00	0-000-000-000	ILP Map #: 93K.061	ILP#: 61725
	R	EACH		
Reach #: 1.0	UTM(Zone/East/North): 10.	314513.6058112	Sample 1	Type: Biased
Length (km): .55	Coupling:	Magnitude:	BGC Z	
1 ' '	enfinement: Frequently Confin Islands:	Order: 1	Open wat	er:
US Elev (m): 748  Bars: None Side Diagona		Riparian Vegetation:  Braid Landuse		
Bars, Noire   Side   Diagona	ı	SITE		
Site #: 8 Field	UTM 10.314888.6058442	Agency: C016	Crew: SR/MJ	Date: 2002/08/16
	S UTM 10.314878.6058425		FINS Consulting Ltd.	<b>Duto.</b> 200200710
	CI	HANNEL		
No Vis.Ch.: Intermittent:	Avg	Min Max #	Avg	Min Max #
Dewatered: Tribs.:	Channel Width (m): 0.00	0 0 0	Gradient %: 0.00	0 0 0
Stage: Low	Wetted Width (m): 0.00	0 0 0	Pool Depth (m): 0.00	0 0 0
Med	Bankfull Depth (m): 0.00		•	Turbid Low
High Temp (C):	pH:	Conductivity:	Mo	derate Clear
		PHOLOGY		
Bed Material: Dominant: Subdominant:	D95 (cm): D (cm):	Bars: Non Si	de Diagonal Mid-	channel [_] Span [_] Braid
Channel Pattern:	• •	DISTURBANCE O1 1	B1 B2 B3 D1 [	D2 D3
Coupling:	iolatius.	INDICATORS		
Confinement:		C1 C2 C3 C4	C5 S1 S2 S3	S4 S5
Morphology:	_			
		OVER		
Total Cover:	Type: SWD	LWD B U	DP OV	iv
LWD:	Amount:			
LWD Dist:	Locaton Piso.			FSZ:
Right Bank: Shape:	= =	Cobble Boulder Ro	= =	Crown Closure
Left Bank: Shape: Right Bank: Rip.Veg:	Texture: Fines Gravel Stage:	Cobble Boulder Ro	ck Manmade	
Left Bank: Rip.Veg:	Stage:	Instream	m Veg: None 🗌 Algae 🗌	Moss Vascular
no drainage/channel present with	in 100m, obviously, no fish t	nabitat or potential!. site	= "mouth". Other - none	
·				

BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

ILP#

			STR	EAM	REF	EREI	ICIN	G					
Gazetted Nan	ne: PIERRE C	REEK				***************************************	Local N	lame:	40101111111111111111111111111111111111				
Watershed Co	ode: 480-8021	100-00000-000	00-0000-0000-00	0-000-0	00-000-	-000-000		ILP M	lap #:		ILP	#:	1
					REA	CH							
Reach #: 16	5.0	TU	M{Zone/East/No	orth): 9.0	690873	.6053970	)			Sample	Туре:	Biase	1
Length (km):	.70	Cou	pling:		Mag	gnitude:				BGC	Zone:		Ī
Gradient (%):			ment: Unconfine	d		Order:			O	pen wa	ter:		1
US Elev (m):			ands:			oarian Ve	getatio	n:					
Bars: None	_ Side	Diagonal	Mid-channel	Span	∐В	raid []	Land	use:					1
					SIT	E							
Site #:	9	Field UTM	9.691114.60537	97		Ager	ncy: C0	16	Crew: M.	/SR	Date:	2002/07	<i>1</i> 09
Site Length	(m): 100	GIS UTM	110.303505.6054	1025		Age	ncy Nar	ne; FINS	Consulting Ltd	i.			
				C	HAN	NEL							
No Vis.Ch.:[	Intermitte	ent: 🗌		Avg	Min	Max	#	1		Avg	Min	Max	#
Dewatered:	Trib	rs: Chi	annel Width (m):	9.63	6.800	12.60	6	] [_	Gradient %:	2.50	2	4	4
Stage: Low[		<b>——</b>	etted Width (m):	7.22	5.400	8.7	6	P	ool Depth (m)	0.62	0.38	0.83	5
Med	<b>✓</b>	Ва	nkfull Depth (m):	0.77	0.6	1	3	ļ	Turb	idity.:	Turb)d		LOW
High (	Te	mp (C): 11	pH: 7.6		•	Conducti	vity: 20			M	oderate[	c	lear 🗹
				MOF	(P.H	) L O G	γ						
Bed Material:	: Dominant: 0	Gravels	D95 (cm): 18	.00		Bars: No	on 🗌	Side 🗹	Diagonal	Mid-	channel	☐ Sr	oan 🔲
s	Subdominant: (	Cobble	D (cm): 12	2.00								Вг	aid 🔲
Channel Pa	ttern: irregular	, Wandering	islands: irre	gular	DISTU	RBANCI	E 01	B1	B2 B3	D1	D2 D	3_	
Cour	oling: Decoupl	ed			INDI	CATORS				ᆈ			ŀ
Confiner	ment: Unconfii	ned			C1	C2	C3 (	C5 C5	S1 S2	S3	S4	S5	
Morpho	ology: RP	Riffle Pool											
					COA	ER							
Total Cover:	Abundant		Туре:	SWD	LW	D	В	υ	DP (	ov T	IV		
LWD:	Fave		Amount:	T	s		T	T	D	T	N		
LWD Dist:		ī	ocation: P/S/O:									FSZ	z: 🗆
Right Bank:	Shape Sk	oning for Texts	ıre; Fines 🗸 Gr	avei 🗸	Cobble	₩ Bou	lder 🗀	Rock	Manmade	7	Cn	own Clos	Ruma
Left Bank:	Shape: V		re: Fines 🗸 Gr			=		Rock	Manmade	์ 1	01.	1-21	
Right Bank:	Rip.Veg: Co			ىت e: Matu		_			J	_			
Left Bank:	Rip.Veg:		Stag	je: Matu	re fores	t	ins	tream Veç	g: None 🗹	Algae [	] Moss	Uase	cular 🗌
													**********
City North and	Q4			T-4	F18	************					_		
Site Number	Capture Method	Number of Events	Length fished (m)	Tot Tim		Voltage	9   5	pecies	Total Fish	Minir Length			mum h (mm)
9	EF	1	20	48 s	ec	800		СТ	2	4	3		58
									•				
Roll# 3, Fran	ne# 20, CD#	1, lmage#56	i, Direction: Do	wnstrea	am, Sc	ale/Corr	ment	SR					
Roll# 3, Fran	ne# 21, CD#	<sup>1</sup> 1, lmage#57	', Direction: Up	stream,	Scale	/Comme	ent:SR						
			t - many LWD										
small size gr	avei inrougn	out and abun	idant holding a	reas. U	verwin	wenng H	abitat -	- excelle	nt, large and	ceep p	1000IS V.	commo	m
1													
1													
1													
1													
1													

BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

!LP#

			STR	EAM	REF	EREN	ICIN	G					
Gazetted Nar	ne: PIERRE C	REEK					Local N	lame:					
Watershed C	ode: 480-8021	00-00000-000	000-0000-0000-0	00-000-00	0-000-0	000-000		ILP N	fap #:		ILF	P #:	
				F	EAC	: #1							
Reach #: 17			TM(Zone/East/N	orth): 9.6						Sample	••	Biase	d
Length (km):			ipling:	allu Can	Mag	nitude:	4				Zone:		
Gradient (%): US Elev (m):			ement: Occasion lands:	any Con	Rina	Order: arian Ve		m:	,	)pen wa	ter:		
Bars: None		Diagonal [	Mid-channel	Span	_ `	aid 🗌	Land						
					SIT	E							
Site #:			9.690584.6054			_	cy. C0			RVMJ	Date:	2002/07	7/23
Site Length	(m): 140	GIS UTI	M 10.303032.605		******		ncy Nar	me: FINS	Consulting Li	d.			
ا بم عددا	¬	. 🗀			HAN		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	7			1		<del></del>
No Vis.Ch.: Dewatered:	Intermitte		nannel Width (m):	Avg 4.74	Min 4.1	Max 5.2	# 5	<b>┤</b> ┌──	Gradient %	Avg : 1.50	Min 1	Max 2	#
	_		Vetted Width (m):	+	4	5.2	- 5	┨┠┲	Pool Depth (m	<del></del>	0.460	0.680	1 4
Stage: Low Med	<b>⊻</b> !		ankfull Depth (m)	4	0.4	0.6	3	1 -	<del></del>	oiditv.:	Turbid		Low
High	Ter	mp (C): 9	pH: 8.3		c	Conductiv	ity: 30				oderate	=	Clear 🔽
				MOR	PHO	1. O.G	Y						
	: Dominant: C		D95 (cm): 25		ı	Bars: No	on 🗌	Side 🛚	Diagonal	Mid	-channel		pan 🗌
	Subdominant: C		D (cm): 12									В	raid 🔲
	ttern: Irregular pling: Decoupk	-	Islands: Oc	xasiona		RBANCE ATORS	01	<u>B1</u>	B2 B3	D1	D2 [	3	
	ment: Unconfir				C1		C3 (	C4 C5	S1 S2	S3	1 1 1 1 54	 S5	
1		Riffle Pool		-	'nТ						ΙΠΙ	$\overline{\Box}$	
	Morphology: RP Riffle Pool COVER												
Total Cover:	Moderate		Туре:	SWD	LWD		в	U	DP	ov	IV	]	
LWD:	Few	_	Amount: Location: P/S/O:	T	T	:	S	T	D	T	N	ļ	
LWD Dist:	Eveniy Distribi									<u> </u>		FS	z: 🗌
Right Bank:	Shape: V -		ure: Fines 🗹 G		_	_		Rock	Manmade		Ct	own Clo	
Left Bank:	Shape: Sk		ure: Fines 📝 G				der[]	Rock	_ Manmade}			1-2	:0%
Right Bank: Left Bank:	Rip.Veg: Sh Rip.Veg:	irubs		ge: Not Ap ge: Not Ap			Ins	tream Ve	g: None 🗹	Algae [	Moss	U Vas	cular 🗀
											-		
Site Number	Capture	Number of	Length fished	Tota	FIS	¥f Voltage	. I e	Species	Total	Mini		<b>pa.</b>	imum
Site Number	Method	Events	(m)	Time		voitage		opecies	Fish		num h (mm)	1	th (mm)
10	EF	1	140	84 se	e	700		СТ	9	4	8	1	136
Roll# 5, Frame# 17, CD# 1, Image#88, Direction: Upstream, Scale/Comment:SR Roll# 5, Frame# 18, CD# 1, Image#89, Direction: Downstream, Scale/Comment:dog channel width average - occasionally v. wide sections fro scour, not representative!. observed lots of CT as well, nice productive creek. did site to document change from S2-S3 - almost still S2 close. site = UTM. Rearing Habitat - excellent in abundant v. deep cobble/cascade pools. Spawning Habitat - good to excellent. Overwintering Habitat - excellent													

BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

ILP#

			STR	EAM	REF	EREN	CIN	G					
Gazetted Nam	e: PIERRE C	REEK				ı	ocal N	ame:					
Watershed Co	de: 480-8021	00-00000-000	00-0000-0000-00	00-000-00	0-000-	000-000		ILP N	flap #:		ILP	#:	
				F	EAG	2 H							
Reach #: 23	.0	רט	M(Zone/East/N	orth): 9.6	83924.	6057477				Sample	Type:	Biasec	đ
Length (km):	.38	Cou	pling:		Mag	gnitude:				BGC	Zone:		
Gradient (%):			ment: Occasiona	ally Con		Order:			C	реп wa	ter:		
US Elev (m):			ands:	n	•	arian Ve	-						
Bars: None	_ Side1	Diagonal 🔲	Mid-channel _	J Span ∣			Land	use:					
					SIT	**********							
Site #: * Site Length (			9.683918.60571 10.296613.6057			-	cy: C0 cy Nan		Crew: SI Consulting Lt	e/Mj d.	Date:	2002/07	/30
				C	HAN	NEL							
No Vis.Ch.: Intermittent: Avg Min Max # Avg Min Max #										#			
Dewatered:	Tribs		annel Width (m):	1.22	0.9	1.600	6		Gradient %	1.25	0	2	4
Stage: Low			etted Width (m): nkfull Depth (m):	1.15 0.27	0.9	1.5 0.3	6 3	L P	ooi Depth (m)	0.19	0.11	0.24	3
Med	=	np (C): 8	рН: 8.4	1 0.21		Conductiv		1	Turt	idity.: M	Turbid  eterate	=	Low lear 🗹
				MOR	PHC	LOG	Y						
Bed Material:	Dominant: G	iravels	D95 (cm): 15	5.00		Bars: No	n 🗹	Side [	Diagonal	Mid	-channel	☐ Sp	oan 🗌
s	ubdominant: C	obble	D (cm): 2	.00								Br	aid 🗌
ł	tern: Sinuous		Islands: No	ne		RBANCE	01	B1	B2 B3	D1	D2 D	3	
	ling: Decouple					CATORS	للا	444	04 00	111	لللا	77	1
t	nent: Occasion logy: RP F	rally Contine Riffle Pool		-	C1	C2 (	C3 C	24 C5	S1 S2		\$4	S5	
	9,			-	ا لــا							<u>. L. J.</u>	
					OV								
Total Cover: A	Abundant		Type: Amount:	SWD	LWI		3   T	T	DP D	ov s	IV N		
LWD: I		[ l	ocation: P/S/O:				<u> </u>				<del></del>	Ee.	z: 🗍
	Not Applicable									<u> </u>	<u> </u>		
Right Bank: Left Bank:	Shape: V - Shape: V -	•	ıre: Fines 🗹 Gı ıre: Fines 🗸 Gı	ravel			=	Rock _	」Manmade∐ ]Manmade[	<u> </u>	Cr	own Clos 21-4	
Right Bank:	Rip.Veg: Shi	•	لــــا	ge: Not Ap			<b></b>	110011	] 1010/11/1000	_			
Left Bank:	Rip.Veg:			ge: Not Ap	-		inst	ream Ve	g: None 🗹	Algae [	] Moss	U Vase	cular 🗌
					FIS								
Site Number	Capture	Number of	Length fished	Tota	**********	Voltage	s	pecies	Total	Mini	num	Maxi	imum
	Method	Events	(m)	Time	e l				Fish	Lengt	(mm)	Lengt	h (mm)
11	EF	1	100	77 se	×c	700		NFC	0				
site = mouth	@ lake - see	photo. Real	34, Direction: ing Habitat - fa intering Habita	airly shal	low all	though g	good co	over pro	wide good h	abitat. \$	Spawnin	g Habit	at - fair

BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

!LP#

			STR	EAM	REF	ERE)	ICIN	G					
Gazetted Nar	ne:				-		Local N	ame:					
Watershed C	ode: 480-802°	100-03500-000	00-0000-0000-0	00-000-00	00-000	000-000		ILP I	Map #:		ILP	#:	
				ŗ	E A	: H							
Reach #: 2.	0	UT	M(Zone/East/N	<b>orth):</b> 10.	.31410	0.605733	9			Sample	Type:	Biased	
Length (km):	1.02	Cou	pling:		Mag	gnitude:				BGC :	Zone:		
Gradient (%):			ment: Occasion	ally Con		Order:			0	pen wa	ter:		- 1
US Elev (m):			ands:	٦.		earian Ve	-						
Bars: None	_ Side	Diagonal	Mid-channel _	Span		raid 🔛	Land	use:		***********			
674. N	40				SIT	************							-
Site #: Site Length			10.314970.605 110.314968.605			-	ncy: C0 ncy Nan		Crew: SF Consulting Ltd	i.	Date:	2002/08/	16
				C	HAN	NEL							
										#			
Dewatered:	Trib		annel Width (m):		0.300	0.9	6		Gradient %:		2	3	4
Stage: Low	<b>Z</b>		etted Width (m): nkfull Depth (m):	0.12	0.2	0.600	6 3	ן ני	Pool Depth (m)	0.03	0.03	0.04	2
Med High	=	mp (C): 10	pH: 8.4	. 0.25		Conducti		<b>.</b>	Turb	idity.: M	Turbid [ oderate	===	ow ☐ │ ear 🗹
				MOR	PH	LOG	Y						
Bed Material	: Dominant: I	<sup>e</sup> ines	D95 (cm): 4	.00		Bars: No	on 🔽	Side	Diagona! [	Mid-	channel	☐ \$pa	ın 🗌
s	Subdominant: (	Cobble	D (cm): 0	.10								Bra	id 🗌
1	ttem: Sinuous		Islands: No	ene.		RBANCE		B1	B2 B3	D1	D2 D	3	
	pling: Decoupt ment: Occasio					CATORS	ш	1 1	5 64 60	Щ.		<u></u>	
ł		Riffle Pool		-	C1	C2 (	C3 C	24 C	5 S1 S2		\$4	S5	
				-				1	111111	1 🗀			
Total Course	T		7		OY		. I	•••	80	T			
Total Cover:			Type: Amount:	SWD	LWI		B   N	N	<del></del>	S	IV N		
LWD:	Few Evenly Distrib	uted L	ocation: P/S/O:									FSZ:	
Right Bank:	Shape: V		re: Fines 🗹 Gr	navel	Cobble	Boul	der	Rock	Manmade	<u></u>	C	own Closu	_
Left Bank:	Shape: Sk	•		=	Cobble			Rock	Manmade	ī	0.0	41-70	
Right Bank:	Rip.Veg: Mi	xed C/D	Sta	ge: Matur	e forest	t				_		_	
Left Bank:	Rip.Veg:		Sta	ge: Matur	e foresi	t .	Inst	ream Ve	eg: None 🗹	Algae L	_ Moss	Vasc	ılar 📙
					FIS	H	_						
Site Number	Capture	Number of	Length fished	Tota	1	Voltage	S	pecies	Total	Minir		Maxin	
12	Method EF	Events 1	(m) 100	Time 37 se		500		NFC	Fish 0	Length	(man)	Length	(mm)
14	<u> </u>	l	100	1 37 30		300		141 0					
Rol# 15, Fra	me# 15, CD	# 4, Image#3	37, Direction:	Upstrear	m, Sca	le/Com	ment:c	am baq					
Rol# 15, Fra	ıme# 16, CD	# 4, Image#3	38, Direction:	Downstr	eam, S	Scale/Co	ommen	itcam t	bag				
			39, Direction: I all fines (98%)									nwar	
boundary, or	nly cover is i	n the only 2 s	hallow stagnar	nt pools,	poor	quality. I	₹1 may	be use	ed as refuge,	but hat	itat the	re is mai	ginal.
		Habitat - nor Spawning Hal	ie. Other - non pitat - none	e - only :	2 pool	s, not ge	ood/de	ep enou	ugh for fish to	reside.	. Rearin	g Habita	t -
	,	- p.a											
L													

BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

ILP#

1.0 93K.061

	STREAMRE	FERENCING		
Gazetted Name:		Local Nam	ie:	
Watershed Code: 000-000000-0000	00-90000-9000-9000-000-900-900-0	00-000-000	ILP Map #: 93K.061	ILP#: 61729
	RE	ACH		
Reach #: 1.0	UTM(Zone/East/North): 10.313	651.6055488	Sample 1	Type: Biased
Length (km): .08		Magnitude:	BGC Z	Cone:
	onfinement: Entrenched	Order: 2	Open water	er:
US Elev (m): 871		Riparian Vegetation:		
Bars: None Side Diagona	al Mid-channel Span		p:	
	<u> </u>	ITE		
	UTM 10.313760.6055486 S UTM10.313717.6055511	Agency: C016 Agency Name:	Crew: SR/MJ FINS Consulting Ltd.	Date: 2002/07/06
	CHA	INNEL		
No Vis.Ch.: Intermittent:	Avg M		Avg	Min Max #
Dewatered: Tribs.:	Channel Width (m): 0.00 C		Gradient %: 0.00	0 0 0
Stage: Low	Wetted Width (m): 0.00 0  Bankfull Depth (m): 0.00 0	<del></del>	Pool Depth (m): 0.00	0 0 0
Med Temp (C):	pH:	Conductivity:		Turbid Low Low Clear
	MORP	HOLOGY		
Bed Material: Dominant:	D95 (cm):	Bars: Non S	ide Diagonal Mid-	channel Span
Subdominant:	D (cm):			Braid 🗌
Channel Pattern:		TURBANCE 01	B1 B2 B3 D1 I	D2 D3
Coupling:		IDICATORS		
Confinement:	_ <u>c</u>	1 C2 C3 C4	C5 S1 S2 S3	S4 \$5
Morphology:				
	CC	VER		
Total Cover:		LWD B (	U DP OV	IV
LWD:	Amount:			
LWD Dist:	Walter Praid.	<u> </u>	<u></u>	FSZ:
Right Bank: Shape:		= =	ock Manmade	Crown Closure
Left Bank: Shape:		bie Boulder Ro	ock Manmade	
Right Bank: Rip.Veg: Left Bank: Rip.Veg:	Stage: Stage:	Instrea	am Veg: None Algae	Moss Vascular
TON DOING TAPETOG				J 111000 [2] 111002111 [2]
site = UTM = "mouth". trib is also drops 40m into Pierre C. canyor			evidence of channel, sco	ur or water, also

#### BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

1.0

					STR	EAM	REF	ERE	ICIN	G					
Gazetted N	ame:					***************************************		***************************************	Local N	iame:		***************************************		-	
Watershed	Code: 48	0-80210	<b>-0-16400</b> -	00000-01	)OO-OOOO-O(	0 <del>0-000-</del> 0	.00-00 <del>0</del>	-000-000	,	ILP I	Map #:		ILP	#:	
							REA(	CH							
Reach #:	1.0			UTM(Z	one/East/No	orth): 10	).31289	3.605541	12			Sample	Type:	Biase	d
Length (km	•			Coupling		~ .		gnitude:			_	BGC 2			I
Gradient (%	•		Conf		t: Frequently	y Confin		Order:			0	)pen wat	ter:		- 1
US Elev (m	_	_		Islands	_	_	_ `	parian Ve	•						I
Bars: None	Side	∌ ∐ D	Diagonal	Mid-	channel _	Span	B	Braid	Land	use:					
							817	E							
Site i	<b>‡</b> : 14		Field U	TM 10.3	313302.6055	5586		Age	ncy: C0	16	Crew: SR	S/MJ	Date:	2002/07	/06
Site Lengt	h (m): 300	<b>,</b>	GIS!	UTM 10.3	313300.6055	5 <b>582</b>		Age	ncy Nar	ne: FINS	Consulting Ltd	d.			- 1
	CHANNEL														
No Vis.Ch.: Intermittent: Avg Min Max # Avg Min Max #															
Dewatered	=	Tribs.	~ <b>=</b> -	Channe	Width (m):		3.700		6		Gradient %:	<del></del>	2	4	4
	_	• • • •	``_  -		Width (m):	-	1.9	4.800	6	1 17	Pool Depth (m):		0.22	0.310	4
Stage: Low Med	=		Ľ		Depth (m):	<del></del>	0.3	0.4	3	-		oidity.:	Turbid		LOW
Mex High	=	Tem	<u>.                                    </u>		pH: 7.9	·		Conducti	ivity; 40	•	Tuio	•	_romonu     oderate	=	lear 🗸
_	, L		- (- )- 			- un		OLOG						 	
Bed Materi	at Dom	Cont Co	-bhia		25 (cm): 2		AND			~~~ [	- ri-const [				🗆
Deu materi	Subdomi			U	95 (cm): 35 D (cm): 9.			Bars: No	וו אנ	2:08 [4	✓ Diagonal	IVISG-	-channel	— .	pan ∐   raid ∏
Channal I			210~				COTI		- 04	D4	50 De	~4	D	_	ا 🗀 🛰
Channel F			¹lad		Islands: No	ne		JRBANCE CATORS		<u>B1</u>	B2 B3	D1	D2 D:	3	I
I	oupling: Pa	•	coupled ly Confine	l			C1			C4 C5	5 S1 S2		1.111 S4	للـ 55	)
	hology: C		y Comme ascade P				<u></u>	C2 (	C3 C	7 ~	, 31 3 <u>c</u>	- <b>33</b>	- <del>34</del> T □ □ □	<u>~</u>	1
		· ·	Button.	301			ريا_				<u> </u>	<u> </u>	اليا ا		
	COYER														
Total Cover	. Moderal	le			Type:	SWD	LW		В	U	DP (	ov	١٧		1
LWD	: Few				Amount:	T	T		S	Т	D	T	N		1
	t: Clumpe	ıd	1	Locat	ion: P/S/O:									FSZ	z: 🗌
Right Bank	k: Sha	ape:V-s	shane 7	exture: F	ines 🗸 G	ravel	Cobble	Bot	ılder 🗸	Rock		1	Crc	own Clos	sure
Left Bani		ape:V-s			ines 🗸 Gr							_		21-4	ı
Right Bank		/eg: Coni	•	•		ge: Matu								•	
Left Bani	k: Rip.V	eg:				ge: Matu			Inst	tream Ve	eg: None 🗹	Algae [	] Moss [	Vas	cular 🔲
								38.3	URE	<u> </u>					
NID Map	NID	Туре	Hgt	Metho	od Lg	Met			oto		UTM (Z/E/N)	₩	Method	Ψ	
93K.061	30141	F	4.0	GE	+==	GE			F:		.312876.60553		GIS	┨	
		11	<u> </u>		u/s from ut			ىــــــــــــــــــــــــــــــــــــــ	<u> </u>						
															***************************************
	<b>#</b>			<u></u>		سيست	FIS			<u> </u>	T =				
Site Numbe	r Capt	1	Number   Events		gth fished (m)	Tot Tim		Voltage	3 5	pecies	Total Fish	Minis Lenath	mum h (mm)		imum th (mm)
14	E	- 1	1	´	300	564	- 1	600		СТ	3		• •	_	184
14	<u> </u>				300	304	SEC 1	000		<u></u>		16	71		84
Rol# 1, Fra											ND clump				
											or flow contrib	huter to	Pierre.	site = r	mouth.
few gravel	pockets,	, boulde	ers mixed	d. Overv	wintering I-	-labitat	- fair-m	oderate	- good	flow, bu	ut pools may	not be	deep en	ough.	Other -
											oulder/large	gravel,	but few	isolate	ed.
pockets su	itable. R	earing I	Habitat -	good-e	xcellent in	abund	ant bou	ılder/po	ol cove	r, but C	T v. sparse				

BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

ILP#

0 93K\_061

		STR	EAM	REFE	RE)	ICIN	G						
Gazetted Name:					Ī	Local N	lame:						l
Watershed Code: 000-000	000-00000-00000	0-0000-0000-00	0-000-00	00-000-0	00-000		ILF	Map #: 93k	C.061		ILI	P#:	61731
			,	REAC	H								
Reach #: 1.0	UTN	I(Zone/East/No	orth): 10	.312889.	605503	5			S	ample `	Туре:	Bias	ed
Length (km): .51	Coupl	ling:		Magn	nitude:					BGC 2	Zone:		l
Gradient (%): 13.5		ent: Confined			Order:				Op	en waf	er:		ļ
US Elev (m): 960		nds:	1 .			getatio							1
Bars: None Side	Diagonal N	Mid-channel	Span			Land	use:						
				SITE									
Site #: 15 Site Length (m): 100		10.313045.6055 10.313053.6055			•	ncy: C0 ncy Nar		Crew: VS Consulting	SR/ gLtd.	MJ	Date:	2002/0	17/06
			C	HANN	VEL	-							
No Vis.Ch.: 🗹 Intermit	ent: 🗌		Avg	Min	Max	#	1		ſ	Avg	Min	Max	#
Dewatered: Tri	bs.: Char	nnel Width (m):	0.00	0	0	0	1 C	Gradier	nt %:	0.00	0	0	0
Stage: Low		tted Width (m):	0.00	0	0	0		Pool Depth	(m):	0.00	0	0	0
Med	Ban	kfull Depth (m):	0.00	0	0	0	ļ		Turbio	tity.:	Turbid		Low
High Te	emp (C):	pH:		C	onducti	vity:				M	oderate		Clear
			MOF	PHO			-			7			
Bed Material: Dominant: Subdominant:		D95 (cm):		. 8	Bars: No	on [_]	Side	□ Diagor	nal L	_i Mid-	channe	_	Span 🔲   Braid 🔲
		D (cm):							_				Draft □
Channel Pattern: Coupling:		Islands:		DISTUR	RBANCI ATORS		B1	B2 B	<u>13</u>	D1	D2 [	<u>)3</u>	
Confinement:						ய	24	C5 S1	S2	 S3	S4	 S5	
Morphology:					П				$\overline{\Box}$	ΙΠ			
				COVE	R								
Total Cover:	Γ	Туре:	SWD	LWD		В	U	DP	0	v I	IV	1	
LWD:		Amount:										1	
LWD Dist:	ما	cation: P/S/O:										F:	sz: 🔲
Right Bank: Shape:	Textur	e: Fines 🔲 Gr	avel	Cobble	_ Bou	lder 🗌	Rock	Manma	de 🗌		C	rown C	losure
Left Bank: Shape:	Textur	e: Fines 🔲 Gr	avel	Cobble	Bou	ider	Rock	Manma	de				
Right Bank: Rip.Veg:		Stag								_	<b>,</b> .		
Left Bank: Rip.Veg:		Stag	3e:			Inst	tream '	Veg: None	<u> </u>	dgae _	_ Moss	∐ Va	scular 📋
Roll# 1, Frame# 16, CD: "stream" is slight moist of none - no water, no cha	depression with							nabitat or a	cces	s. site	≃ "тои	th". O	her -

BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

ILP# 61734

.0 93K.061

			STR	EAM	REF	ERE	NCIN	G					
Gazetted Nam	ie:						Local N	lame:					
Watershed Co	de: 000-000000-	00000-000	00-0000-0000-00	0-000-0	00-000	000-000	+	il.	P Map #: 93K.061		ILP	<b>#</b> :	61734
					REA	5 H							
Reach #: 1.0	1	11	TM(Zone/East/N	orth): 10	31274	4 605566		******		ample	Tyne	Bias	ed
Length (km):			rm(20112123011) Ipling:	orusy. It		nitude:			`	BGC	• -	Dias	
Gradient (%):			ement: Occasion:	ally Con		Order:			o	pen wa			
US Elev (m):	898	ls	lands:		Rip	arian V	egetatio	n:					
Bars: None	] Side [] Dia	gonal 🗌	Mid-channel	Span	□ в	raid 🗌	Land	iuse:					
					SIT	E							
Site #:	16	Field UTM	10.313080.6055	5717		•	ncy: C0			/MJ	Date:	2002/0	7/06
Site Length (	m): 100	GIS UTI	M 10.313080.6055	5717		Age	ency Na	ne: Fl	NS Consulting Ltd	<b>.</b>			
				C	HAN	NEL							
No Vis.Ch.:	=	=		Avg	Min	Max	#	] .		Avg	Min	Max	#
Dewatered:	Tribs.:		nannel Width (m):	0.00	0	0	0		Gradient %:	0.00	0	0	0
Stage: Low			Vetted Width (m): ankfull Depth (m):	0.00	0	0	0	Į l	Pool Depth (m):	0.00	0		10_
Med			***********	1 0.00	<u> </u>	1	·	1	Turb	dity.:	Turbid	4	Low
High	Temp	(C):	pH:			Conducti	ivity:			M.	oderate		Clear
				MOI	RPHC	LOC	Y			_			
Bed Material:			D95 (cm):			Bars: N	on 🗌	Side	e Diagonal	Mid	-channei	_	Span 📙
S	ubdominant:		D (cm):										Braid
Channel Pat			Islands:			RBANC		B	1 B2 B3	D1	D2 D	3	
Coup	•							L.L. 24	C5 S1 S2	111		للـ	
Confiner Morpho					C1	C2	$\frac{\omega}{\Box}$	<i>-</i> 4 <del></del>	G 51 52	<b>S3</b>	S4	S5	
Morpho	wgj.				للا	Ц.					للل	للل	
					COV							•	
Total Cover:			Type:	SWD	LWI	<u> </u>	B	U	DP C	× L	IV	1	
LWD:			Amount: Location: P/S/O:		1					-8-1		1	
LWD Dist:												] F	sz:
Right Bank:	Shape:			ravel	Cobble	_	ılder 📙	Rock	= =		Cr	own C	losure
Left Bank:	Shape:	Text		ravel	Cobble	∐ Bou	lder	Roci	k Manmade	j			
Right Bank: Left Bank:	Rip.Veg: Rip.Veg:		Stag Stag	_			ine	tnoam	Veg: None	ahaa [	Moree	□ v=	ecular [
LOIT DELINE							1165	u com	reg. Hone	wyae _			
			, Direction: Ups ganic moss puo						ow or habitat. O	ther - n	one		

BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

ILP#

.0 93K.061

61735

STREAM REFERENCING																
Gazetted Name: Local Name:																
Watershed Co	ode: 00(	0-00000	00-00000	00000-0000-4	0000-000	0-000-00	0-000	-000-00	)	1	ILP M	tap #: 93K.06	i1	ILP	#:	61735
						Ŗ	E A	CH								
Reach #: 1.	0			UTM(Zone/	East/No	erth): 10	3124	43,6055	85				Sample	Type:	Bias	ed
Length (km):				Coupling:				gnitude					-	Zone:	_,_,	
Gradient (%):				finement: Oc	casional	lly Con		Orde					Open w			
US Elev (m):	905			Islands:			R	iparian \	'egetati	on:			-			
Bars: None	Side	• 🔲 ı	Diagonal	Mid-char	nnei 🗌	Span [		Braid _	Lan	duse	:					
							SI	E								
Site #:	17		Field U	TM 10.3129	91.60558	835		Ace	ncy: C	016		Crew: S	R/MJ	Date: 2	2002/	7/06
Site Length	(m): 300	ı	GIS	UTM 10.3130	04.60558	818		•	•		FINS	Consulting Li	td.			
						C: I	IA I	INEL								
No Vis.Ch.:	Inte	ermitter	nt: 🔲		Γ	Avg	Min	Max	#	7			Avg	Min	Max	#
Dewatered:	j	Tribs	= -	Channel Wid	ith (m):	1.37	0.9	1.8	6	1		Gradient %			2	4
Stage: Low	_			Wetted Wid		1.37	0.9	1.8	6	1	P	ool Depth (m	): 0.27	0.22	0.310	) 4
Med Med	<b>7</b>			Bankfull De	oth (m):	0.23	0.2	0.3	3	]		Tur	bidity.:	Turbid	]	Low
High [	Ĭ	Ten	ip (C): 6	pł	1: 8.0			Conduc	tivity: 50	)			•	vioderate [	Ĩ	Clear 🗸
						MOR	PH	010	ł Y							
Bed Material:	: Domi	nant: F	ines	D95 (c	cm): 8.6	00		Bars: I	lon 🗹	Si	de 🗌	Diagonal	Mic	d-channel		Span 🔲
s	Subdomi	nant: G	ravels	D (e	cm): 4.0	00						-				Braid 🗌
Channel Pa	ttem: Si	nuous		Isla	nds: Occ	asiona	DIST	URBANG	E _0	1 1	B1	B2 B3	D1	D2 D3	3	
Cour	pling: De	couple	d				IND	CATOR	s 📗						1	
ĺ			ally Confi	ne		_	C1	C2	СЗ	C4	C5	S1 S2	2 S3	S4	S5	
Morpho	ology: F	RP F	Riffle Pool			_										
						(	:O\	/ER								
Total Cover.	Abundaı	nt			Type:	SWD	LV		В	U		DP	ov	IV		
LWD:	Few				nount:	Т		3	N	Ś		D	T	N		
LWD Dist:	Evenly (	Distribu	ted [	Location:	P/S/O:		$\mathbf{V}$			<b>✓</b>					F	sz: 🗌
Right Bank:	Sha	pe: Und	dercut 1	exture: Fines	<b>✓</b> Gra	evei 🗌 (	Cobbi	e 🗌 Bo	ulder	Ro	ck 🗌	] Manmade		Cro	wn C	losure
Left Bank:	Sha	pe: V -	shape 1	exture: Fines	Gra	vel 🔲 (	Cobb	le Bo	ulder	] Ro	ck 🗌	] Manmade[	$\supset$		41	-70%
Right Bank:		-	niferous		-	e: Mature						_			_	
Left Bank:	Rip.V	eg:			Stag	e: Mature			····		m Ve	g: None 🗹	Algae	Moss	\ Va	scular
								FEAT	URE	S						
NID Map	NID	Туре	Hgt	Method	Lg	Meth			hoto	$\Box$		UTM (Z/E/N)		Method		
	30172	С	5.0	AL	18	GE	- 1	₹:	F:		10.	312473.6055	663	GIS	<u>i                                     </u>	
		, ,		onfirmed UTM												
NID Map	NID 20171	Type	Hgt	Method	Lg	Meth	_		hoto	$\perp$		UTM (Z/E/N) 312686.6055		Method	4	
	30171 : hinder:	BD s passa	.5 ge, decre	AL ases habitat	20 value	GE		₹: 1	F: 2	0	10.	312000.0033	~~ <u> </u>	GIS	1	
L			<u></u>			·····										
				<u>. I.</u>			*****	SH				T =				
Site Number	Capt Meti		Number Event			d Total Voltage			Spec	ies	Total Fish		imum th (mm)		ximum gth (mm)	
17	EI	- 1	1	30	· 1	417 s		600		NF	С	0	9	(/		ر
•													•			

Roll# 1, Frame# 18, CD# 1, Image#10, Direction: Upstream, Scale/CommentMJ. Roll# 1, Frame# 19, CD# 1, Image#11, Direction: Downstream, Scale/Comment.cam bag. Roll# 1, Frame# 20, CD# 1, Image#12, Direction: Upstream, Scale/Comment.cam bag - BD in features. has to be S4 - CT use very low or none, but easily possible. site = mouth. walked from mouth - pretty nice habitat, likely permanent, easily accessible. historic cascade should be right at end of R1, below tributary. Rearing Habitat - good in abundant deep pools, but organics common. Overwintering Habitat - moderate - possible, but pools may lack depth. Spawning Habitat - moderate-good especially near mouth where more rounded gravels present.

BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

ILP#

.0 93K.061

Constant No.	O I N L A M	REFERENCIN:		
Gazetted Name: Watershed Code: 000-000000-0000	0-0000-0000-000	Locai Na 30-000-000-000	ime: ILP Map #: 93K.061	iLP#: 61739
Water Steel Good, 600 700000 70000		REACH	EL Map V. COLCOT	12 8 0/100
Reach #: 1.0	UTM(Zone/East/North): 10.		Sample	Type: Biased
Length (km): .15	Coupling:	Magnitude:	BGC 2	**
• • •	onfinement: Entrenched	Order: 1	Open wat	ter:
US Elev (m): 950	Islands:	Riparian Vegetation	n:	
Bars: None Side Diagona	Mid-channel Span		ise:	
Av. 3		SITE		
	UTM 10.311895.6056725 S UTM 10.311890.6056720	Agency: C01 Agency Nam	6 Crew: SR/MJ e: FiNS Consulting Ltd.	Date: 2002/07/06
	Ç	HANNEL	•	
No Vis.Ch.: 🗹 Intermittent: 🗌	Avg	Min Max #	Avg	Min Max #
Dewatered: Tribs.:	Channel Width (m): 0.00	0 0 0	Gradient %: 0.00	0 0 0
Stage: Low	Wetted Width (m): 0.00  Bankfull Depth (m): 0.00	0 0 0	Pool Depth (m): 0.00	0 0 0
Med ☐ High ☐ Temp (C):	pH:	Conductivity:	Turbidity.:	Turbid Low
Trigit Temp (O)	·	PHOLOGY	•••	occiate
Bed Material: Dominant:	D95 (cm):	Bars: Non	Side Diagonal Mid-	channel Span
Subdominant	D (cm):		_ •	Braid 🗌
Channel Pattern:	Islands:	DISTURBANCE 01 INDICATORS	B1 B2 B3 D1	D2 D3
Coupling: Confinement:		C1 C2 C3 C	4 C5 S1 S2 S3	S4 S5
Morphology:	-			
		COVER		
Total Cover:	Type: SWD	LWD B	U DP OV	IV
LWD:	Amount:			
LWD Dist:	Location: P/S/O:			FSZ:
Right Bank: Shape:			Rock Manmade	Crown Closure
Left Bank: Shape: Right Bank: Rip.Veg:	Texture: Fines Gravel Stage:	Cobble Boulder	Rock Manmade	
Left Bank: Rip.Veg:	Stage:	Instr	ream Veg: None 🗌 Algae 🗌	Moss Vascular
<u></u>			· · · · · · · · · · · · · · · · · · ·	
site = "mouth". not a creek - Dev	ril's Club fan, no channel, no	fluvium - moist groun	nd. Other - none - no chann	el, no connection to
lane u/s				
<u></u>	· · · · · · · · · · · · · · · · · · ·		······································	<u></u>

#### BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

ILP# 61740

1.0 93K.061

		STREAM REFERENCING												
Gazetted Nar	ne:							Local I	lame:					
Watershed Co	ode: 000-00	0000-0000	0-000	00-0000-0000-00	0-000-0	00-000-	000-000		Ш	P Map #: 93K.061	ļ	ILF	<b>#</b> :	61740
						REA(	3 84							
Reach #: 1.	n		IJŦ	M(Zone/East/N	orth): 10	309556	3 605603	5	********	9	Sample	Type:	Bias	ed
Length (km):	_			pling:			mitude:			·	BGC		2.40	
Gradient (%):		Co	-	ment: Confined		•	Order:	2		o	pen wa	ter:		
US Elev (m):	1055		isi	ands:		Rip	arian Ve	getatio	on:					
Bars: None	Side [	Diagona	d 🗌	Mid-channel	Span	Br	raid 🗌	Land	luse:					
						SIT	E							
Site #:	19	Field	UTM	10.309648.6055	977		Age	ncy: Cl	016	Crew: MJ	/SR	Date:	2002/0	07 <i>1</i> 0 <b>7</b>
Site Length	(m): 100	GI	SUTM	10.309627.6055	978		Age	ncy Na	me: Fil	NS Consulting Ltd	l.			
					C	HAN	NEL							
No Vis.Ch.:	/ Intermi	ittent:			Avg	Min	Max	#	]		Avg	Min	Max	#
Dewatered:	_ T	nbs.: 🗌	Cha	annel Width (m):	0.00	0	0	0	] [	Gradient %:	0.00	0	0	0
Stage: Low[				etted Width (m):	0.00	0	0	0	1 [	Pool Depth (m):	0.00	0	0	0
Med[	j		Ва	nkfull Depth (m):	0.00	0	0	0	1	Turb	idity.:	Turbid		Low
High [		Temp (C):		pH:		(	Conducti	vity:			М	oderate[		Clear
					M.O.	(PHC	) L O G	Y						
Bed Material:				D95 (cm):			Bars: N	on 🗌	Side	Diagonal [	Mid	-channel	_	Span 🔲
S	ubdominan	t		D (cm):									1	Braid
Channel Pa	ttern:			Islands:			RBANC		B1	B2 B3	D1	D2 D	3	
Cour	•						CATORS		Ш			لللا	لل	
Confiner						C1	C2	C3	C4	C5 S1 S2	S3	S4	S5	
Morpho	ilogy:								$\Box \bot$					
						COV	E R							
Total Cover:				Type:	SWD	LWI	2	В	U	DP (	DV	īV	]	
LWD:				Amount:										
LWD Dist:				ocation: P/S/O:			لباليا						F:	SZ: 🗌
Right Bank:	Shape:		Textu	re: Fines 🗌 Gr	avel	Cobble	☐ Bou	lder	Rock	Manmade [	3	Cr	own C	iosure
Left Bank:	Shape:		Textu	ıre: Fines 🔲 Gr	avel 🗌	Cobble	☐ Bou	ider 🔙	Rock	Manmade	]			
Right Bank:	Rip.Veg:			Stag	•					🖂		٦	<b></b>	
Left Bank:	Rip.Veg:			Stac	je:			ins	tream	Veg: None	Algae L	_ Moss	∐ Va	ascular L
	·													
Roll# 1, Fran	ne# 22, Cl vium, no b	D# 1, Ima panks - se	ge#14 asona	3, Direction: Up I, Direction: Do al runoff after s ish habitat	wnstre	am, Sc	ale/Con	nment	MJ	pankment (10m	) into P	ierre C.	from	6%

BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

ILP#

1.0 93K.061

	SIREAMI	REFERENCING		
Gazetted Name:		Local Nam	e:	
Watershed Code: 000-000000-0000	0-0000-0000-0000-000-000-000	0-000-000-000	ILP Map #: 93K.061	ILP#: 61742
	R	EACH		
Reach #: 1.0	UTM(Zone/East/North): 10.3	309212.6055523	Samp	le Type: Biased
Length (km): .14	Coupling:	Magnitude:		C Zone:
	onfinement: Entrenched	Order: 2	Open v	vater:
US Elev (m): 1083	Islands:	Riparian Vegetation:		
Bars: None Side Diagona		Braid Landuse	): 	
		SITE		0.0000707
	UTM 10.309240.6055556 S UTM 10.309236.6055579	Agency: C016 Agency Name:	Crew: MJ/SR FINS Consulting Ltd.	Date: 2002/07/07
	C)	IANNEL		
No Vis.Ch.: Intermittent:	Avg	Min Max #	Avg	
Dewatered: Tribs.:	Channel Width (m): 0.00 Wetted Width (m): 0.00	0 0 0	Gradient %: 0.00	
Stage: Low	Wetted Width (m): 0.00  Bankfull Depth (m): 0.00	0 0 0	Pool Depth (m): 0.0	
Med Temp (C):	pH:	Conductivity:	Turbidity.:	Turbid Low Moderate Clear
		PHOLOGY		
Bed Material: Dominant:	D95 (cm):		ide Diagonal M	lid-channel Span
Subdominant:	D (cm):		_ ,	Braid
Channel Pattern:	Islands:		B1 B2 B3 D1	D2 D3
Coupling:		INDICATORS		
Confinement		C1 C2 C3 C4	C5 S1 S2 S	3 S4 S5
Morphology:				
		OVER		
Total Cover.	Type: SWD	LWD B U	DP OV	IV
LWD:	Amount:			
LWD Dist:				FSZ:
Right Bank: Shape:		= =	ock Manmade	Crown Closure
Left Bank: Shape: Right Bank: Rip.Veg:	Texture: Fines Gravel Stage:	Cobble Boulder Ro	ck Manmade	
Right Bank: Rip.Veg: Left Bank: Rip.Veg:	Stage:	Instrea	m Veg: None Alaze	Moss Vascular
			<u> </u>	
no any kind of drainage present	at mapped location or 100m	radius. site = UTM = ed	lge of 30m cliff at Pierr	e C. Other - No fish
naviai				
1				

BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

ILP#

			STR	EAM	: EF	EREN	ICIN	G					
Gazetted Nar	ne:						Local N	ame:					
Watershed Co	ode: 480-8021	00-42400-6	00000-0000-0000-00	00-000-00	00-000-	000-000		ILP M	lap #:		ILP	#:	
				F	E A (	211							
Reach #: 1.	n		UTM(Zone/East/N	orth): 10	งกรกกร	R 605587	n			Sample	Type:	Biase	d
Length (km):		c	Coupling:	uruij. 10.		nitude:	U		•	BGC	• •	Diase	-
Gradient (%):			inement: Frequently	y Confin	•	Order:	3		0	pen wa	ter:		
US Elev (m):	1100		Islands:		Rip	arian Ve	getatio	n:					
Bars: None	Side	Diagonal [	Mid-channel	Span	□В	raid 🗌	Land	use:					
					511	E							
Site #:	21	Field U	TM 10.308263.6055	841		Agen	cy: C0	16	Crew: M.	/SR	Date:	2002/07	7/07
Site Length	(m): 200	GISU	JTM 10.308254.6055	5827		Age	ncy Nar	ne: FINS	Consulting Ltd	i.			
				C.	HAN	NEL							
No Vis.Ch.:		~~ <del>_</del>		Avg	Min	Max	#	]		Avg	Min	Max	#
Dewatered:	Tribe	s.: 🗌 📙	Channel Width (m):	2.30	1.9	2.900	6	l 🗀	Gradient %:	3.50	2	5	4
Stage: Low		-	Wetted Width (m): Bankfull Depth (m):	0.53	1.8 0.5	2.8 0.6	6	Į Ľº	ool Depth (m):	0.29	0.180	0.51	5
Med	<del></del>	<u></u>		0.55				j	Turb	idity.:	Turbid	=	LOW
High	Ter	np (C): 7	pH: 7.4			Conductiv				M	oderate		Clear 🗹
						)LOG							
Ĭ l	: Dominant: C Subdominant: B		D95 (cm): 40 D (cm): 4			Bars: No	on 🔽	Side _	∫ Diagona! [	Mid	-channel		pan 🔲 raid 🗍
	ttem: Sinuous	NUKU 3	Islands: No		DIETLI	IRBANCE	= 01	D4	D2 D2	D1	ח מ	2	
ŀ	oling: Decouple	ad	ISIANGS: NO	iri <del>e</del>		CATORS		T				ำ	
	ment: Occasion		ne		C1	C2 (	C3 C	24 C5	S1 S2	S3	S4	\$5	
Morpho	ology: SP	Step Pool		-						T			
					2 O Y	ER							
Total Cover:	Abundant		Type:	SWD	LWI		в	U	DP (	ov T	1V		
LWD:	Foru		Amount:	Т	T		s	Т	D	Т	S		
ŀ	Evenly Distribu	uted	Location: P/S/O:	$\mathbf{V}$								FS	z: 🗌
Right Bank:	Shape: V -	shape T	exture: Fines 🗸 Gr	avel 🔲	Cobble	<b>✓</b> Boul	der	Rock 🗸	Manmade	]	Cn	own Clo	sure
Left Bank:	Shape: V -		exture: Fines 🕢 Gr									21-	40%
Right Bank:	Rip.Veg: Co	niferous	Stag	ge: Matur	e forest	t				_	_	_	_
Left Bank:	Rip.Veg:		Stag	ge: Matun	e forest	t	Ins	tream Ve	g: None 🗌	Algae [	_ Moss	<b>✓</b> Vas	cular _
_			<del></del> _		FIS	Н							
Site Number	Capture	Number		Tota		Voltage	S	pecies	Total	Mini			imum
	Method	Events		Time		700			Fish	Lengti			th (mm)
21	EF	11	200	343 s	ec [	700	_1	СТ	3		8		113
Roll# 2, Franflows through	ne# 2, CD# 1 h 15-20m val oplemented b	I, Image# iley forest by LWD. C	15, Direction: Ups 16, Direction: Dow ed by spruce and Overwintering Hab	vnstream firs. site	n, Scal = UTI	le/Comn VI≕ mou	nent:Si ith. Re	aring Ha					

BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

ILP#

			STR	EAM	REF	EREI	ICIN	G					
Gazetted Nar	ne:	•					Local N	ame:					]
Watershed C	ode: 480-8021	100-42400-000	00-0000-0000-00	00-000-00	00-000-	000-000		ILP M	lap#:		ILI	P #:	
				F	(E/A(	) <b>1</b> 1							
Reach #: 4.	0	ยา	M(Zone/East/N	orth): 10.	.307247	7.605598	:1			Sample	Туре:	Biase	d
Length (km):			pling:		Mag	mitude:	_		_	BGC			l
Gradient (%): US Elev (m):			ment: Frequently lands:	y Contin	Rio	Order: arian Ve		n:	· ·	pen wa	ter:		
Bars: None		Diagonal	Mid-channel	Span	_ `	aid 🗌	Land						ĺ
_		•			SIT								
Site #:	22	Field UTM	10.307345.6058	5130	********		ıcy: C0	16	Crew: M.	/SR	Date:	2002/07	/07
Site Length	(m): 200	GIS UTN	110.307322.6056	6133		•	-		Consulting Ltd	<b>i</b> .			
				C	HAN	NEL							
No Vis.Ch.:	Intermitte	= —		Avg	Min	Max	#			Avg	Min	Max	#
Dewatered:	Trib		annel Width (m): letted Width (m):	2.45	2.3	2.700	6		Gradient %:	2.75	2	3	4
Stage: Low[	=		nkfuil Depth (m):		0.4	0.4	3		ool Depth (m)		0.42	0.670	3
Med High	<del>=</del>	mp (C): 7	pH: 7.4	•		Conducti	vity: 40		1 uno	idity.: M	Turbid oderate	=	Low lear 🗹
	_			MOR	PHC	LOG	Y						
Bed Material	: Dominant: (	Gravels	D95 (cm): 35	5.00		Bars: No	on 🗹	Side	Diagonal [	Mid	channe	i 🗌 sı	pan 🗌
S	Subdominant: I	Boulders	D (cm): 3	.00								В	raid 🗌
	ttem: Sinuous		Islands: No	ne		RBANCI		B1	B2 B3	D1	D2 [	3	
1	pling: Coupled ment: Frequer				C1	_	4	4 C5	S1 S2	S3	S4	 S5	
í		Riffie Pool		-	ŤΤ				T 🗀 🗀	T 🗀		$\overline{\Box}$	
				-	. O.V	E R							
Total Cover:	Abundant		Type:	SWD	LWI		В	U	DP (	DV	IV	1	
LWD:	Few	<del>,</del>	Amount:	T	T		s	S	D	T	T	1	
LWD Dist:	Evenly Distrib	uted L	ocation: P/S/O:	$\mathbf{V}$	~							FS	z: 🗌
Right Bank:	Shape: Ur	dercut Text	ure: Fines 🔲 Gr	=	Cobble	=	der		Manmade	=	C	rown Clo	sure
Left Bank: Right Bank:	Shape: Ur				Cobble		lder 🏏	Rock	Manmade			1-2	0%
Left Bank:	Rip.Veg: Co Rip.Veg:	merous	· ·	ge: Matur ge: Matur			inst	ream Veg	g: None 🗌	Algae [	Moss	<b>√</b> Vas	cular 🔲
Site Number	Capture	Number of	Length fished	Tota	FIS	H Voltage	, S	pecies	Total	Minir	num	Max	imum
	Method	Events	(m)	Tim				<b></b>	Fish		(mm)	1	th (mm)
22	EF	1	200	87 se	9C	800		CT	5	4	3	1	68
Roll# 2, Fran Roll# 2, Fran more boulde Habitat - exc	ne# 8, CD# 1 ne# 9, CD# 1 rs in upper p ellent in abu	l, Image#22, l, Image#23, art of reach. ndant and div	Direction: Bed, Direction: Dow Direction: Upsisite = UTM. Ov verse cover P/Cs observed) - p	nstream tream, S rerwinter C/LWD to	i, Scak icale/C ring Ha ype. S	e/Comn commer abitat - q pawning	nent:ca it:SR good - c Habit	m bag deep poo at - exce	ols present a	and are			

#### BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

ILP#

			STR	ЕАИ	REF	EREI	ICIN	G					
Gazetted Nar	ne:						Local N	lame:					
Watershed C	ode: 480-8021	00-42400-000	00-0000-0000-00	0-000-0	00-000-	000-000		ILP N	lap#:		1LP	#:	
					(EA	2 <b>H</b>							
Reach #: 4.	1	וט	M(Zone/East/No	orth): 10	.306414	4.605617	6			Sample	Type:	Biasec	j
Length (km):			pling:		Mag	mitude:				BGC 2			
Gradient (%): US Elev (m):			ment: Frequently	/ Confin	D.	Order:			O	pen wa	ter:		
Bars: None		Diagonal	ands: Mid-channel	Span		arian Ve raid 🗍	Land						İ
Dars. None [		Diagonal	Wiki-Criaimer _	y Span	SIT		Lang	use:					
Site #:	22	Cold LITE	10.306550.6056	497	****		CD	4E	Canua Ct	V/MJ	Deter	2002/07	ne .
Site Length			10.306549.6056				ncy: C0 ncy Nan		Crew: SF Consulting Ltd		Dale.	2002/01/	100
				C	HAN	NEL	•						
No Vis.Ch.:	Intermitte	ınt: 🗌		Avg	Min	Max	#	]		Avg	Min	Max	#
Dewatered:	Trib	s.: Ch	annel Width (m):	1.97	1.600	2.200	6		Gradient %:	2.00	1	3	4
Stage: Low			etted Width (m): nkfull Depth (m):	1.97	1.600	2.200	6	<u> </u>	ool Depth (m)	0.47	0.38	0.560	4
Med	<del></del>			0.37	0.3	0.4	3	}	Turb	idity.:	Turbid [	=	Low
High		mp (C): 9	pH: 8.1			Conducti		******************************		M	oderate	C	lear 🗹
Red Meterial	: Dominant: 0		D05 (). 0			LOG		0:4- E		7	-11		
	Subdominant (		D95 (cm): 8. D (cm): 4.			Bars: No	on [_]	Side 🖳	Diagona!	INITO-	channel		an ∐ aid □
Channel Pa	ttern: Sinuous		Islands: No		DISTU	RBANCI	E 01	B1	B2 B3	D1	D2 D	3	
Cou	pling: Partially	Coupled				CATORS							
	ment: Frequen	•			C1	C2	<b>C3</b> (	24 C5	S1 S2	S3	S4	S5	
Morpho	ology: RP	Riffle Pool											
					COY	ER							
Total Cover:	Abundant		Туре:	SWD	LWI		В	U		OV	IV		
LWD:			Amount: ocation: P/S/O:	S	S		T	T	D Call	<u>T                                     </u>	N		
	Evenly Distribu	uted								<u></u>			
Right Bank: Left Bank:	Shape: Sk Shape: V -		ıre: Fines 🗹 Gr ıre: Fines 🗹 Gr	avel 🗌	Cobble Cobble	=	=	Rock _	Manmade Manmade	~	Cn	own Clos 21-4	
Right Bank:	Rip.Veg: Co	•		re: Matur			.00,	1100K [	, <b></b>			£1-4	0,0
Left Bank:	Rip.Veg:		Stag	e: Matur	e forest	t	inst	tream Ve	g: None 🗹	Algae 🗌	Moss	Vasc	zular 🔲
					FIS	H							
Site Number	Capture	Number of	Length fished	Tot	ai	Voltage	9 S	pecies	Total	Minir		Maxi	
	Method	Events	(m)	Tim		700		07	Fish	Length		Lengti	
23	EF	1	120	382 s	AUC ]	700		СТ	2	5	4		i1
Roll# 2. Fran	ne# 21. CD#	1, Image#35	, Direction: Up:	stream.	Scale/	Comme	entMJ	•					····
Rol# 2, Fran	ne# 22, CD#	1, Image#36	, Direction: Do	wnstrea	m, Sca	ale/Com	mento						
			CT spawning - : - good to excel										
			ngular - section			450p	, poole,			ранни	.9 ( 10.5	<b>3</b>	_
1													
L	···								<del> </del>				

BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

ILP#

					STR	EAM	REF	EREI	(C)	N G						
Gazetted Nam	ne:								Loca	l Name	e:					ļ
Watershed Co	ode: 480-80	02100-4240	0-000	00-0000-0	00-00	0-000-0	00-000	000-000		1	ILP Ma	ap 朱		ILF	#:	
						,	(EA	C H								
Reach #: 5.0 Length (km): Gradient (%): US Elev (m):	.30 4.3 1152	_	Cou onfine Is	TM(Zone/ pling: ment: Oc lands:	casiona	illy Con	Ma Rij	gnitude: Order: parian Ve	3 egeta				Sample BGC ; pen wa	Zone:	Biase	đ
Bars: None	_  Side	Diagona	ı ∐.	Mid-char	nel 🔝	Span	<del></del>	raid	La	nduse	:					
Site #: : Site Length (	-			10.30638 A 10.3064			SIT	Ager	ncy: (		FINS (	Crew: SR Consulting Ltd	i/MJ L	Date:	2002/07	/DB
						C	HAN	NEL								
No Vis.Ch.: [ Dewatered: [ Stage: Low [ Med [ High [		ribs.:	W Ba	annel Wid letted Wid ankfull Dep	lth (m):	Avg 0.95 0.95 0.27	Min 0.7 0.7 0.2	Max 1.200 1.200 0.3 Conducti	# 6 3 vity: 3		Po	Gradient %: ool Depth (m): Turb	idity.:	Min 4 0.140 Turbid oderate	=	# 4 4 Low Clear 🗸
,	<u> </u>					MOF	t P H	3 L O G	Y							
Channel Pat Coup Confiner	Subdominar ttern: Sinuc pling: Partic	nt: Fines	nfine	D (d	om): 18. om): 2. nds:No	.00		Bars: No URBANCI CATORS C2	E	_	B1 C5	Diagonal	D1 S3	D2 D	_	oan 🗍
							COV	ER								
Total Cover: I LWD: I LWD Dist: I Right Bank: Left Bank:	Few Evenly Dist Shape: Shape:	Sloping (g V - shape	Text	Ar Location: I ure: Fines ure: Fines	✓ Gr	avel	Cobble	Bou	B T	Ro Ro			s ]	IV N	rown Clo	Z:
Right Bank: Left Bank:	Rip.Veg: Rip.Veg:				•	je: Not A je: Not A			1	nstrea	m Veo	r None .	Algae [	Moss	<b>V</b> ∨as	cular
					- <b>s</b>	,		FEAT			-3		J=- L			
NID Map 093L.070	NID T 30241 C	ype Hgt		Method AL	Lg 20	Meth	hod	Ph	oto F:	3		JTM (Z/E/N) 93609.605590		Method GIS	1	
Comments:	mpassab	le gradient,	small	chutes - I	ALR Spo	DV <del>0</del>						···-				
Site Number	Capture Method			Length (m		Tot Tim		i H Voltag	e	Spec	ies:	Total Fish		mum h (mm)	1	imum th (mm)
24	EF	1		20	0	297	sec	700	\-	C	Γ	1 .	5	i7	1	57
Roll# 2, Fram Roll# 2, Fram Roll# 3, Fram has occasion document -54 old BD in gull pools, but qui	ne# 24, Cl ne# 3, CD nal wide, p 4400 as π ly, 100 m	D# 1, Imag # 1, Image cool/shrubt nainstem, a fro mouth.	ye#38 #41, by sec and F Span	B, Direction Direction Ctions. flo PC class wning Ha	on: Dov n: Upst ows into s chang obitat -	wnstrea ream, S o side o ge from none si	im, Sc Scale/O shanne S3 to ignifica	ale/Com Commer el of -544 S4. CT ant obse	men nt:car 400. : only rved	t:cam n bag site = caugl - no g	bag - cas UTM ht at n gravel	cade in feat = junction v nouth. casc s. Rearing h	vith -42 ade at c	end of r	each is	EFU.

BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

ILP#

			STR	EAM	REF	EREN	CIN	G					
Gazetted Nar	ne:					L	ocal Na	ame:					
Watershed C	ode: 480-8021	00-42400-000	00-0000-0000-00	00-000-00	00-000-0	000-000		ILP N	Map #:		ILP	#:	
				F	EAC	2 H							
Reach #: 6.	0	UT	M(Zone/East/N	orth): 9.6	93104.	6055916			5	ample	Туре:	Biasec	1
Length (km):	.60	Cou	ollng:		Mag	mitude:				BGC 2	Zone:		
Gradient (%):			ment: Frequently	y Confin	<b>D</b> :-	Order:			0	pen wat	ter:		
US Elev (m):			ands:	ا ۔۔۔ ا		arian Veç raid							
Bars: None	Side	Diagonal 🔲	Mid-channel _	Span			Landı	15e: 					
					SIT	*************		-					
Site #: Site Length			9.693570.60559 10.306162.6055			-	cy: C01		Crew: SR Consulting Ltd	/MJ	Date:	2002/07	/08
				C	HAN	NEL							
No Vis.Ch.:	Intermitte	rrit: 🔲		Avg	Min	Max	#			Avg	Min	Max	#
Dewatered:	Tribs		nnel Width (m):		0.7	1.8	6		Gradient %:	2.75	0	5	4
Stage: Low			etted Width (m): nkfull Depth (m):	2.35	0.1	7 0.2	6 3	LF	Pool Depth (m):	0.16	0.08	0.280	5
Med   High [	=	np (C): 10	рН: 7.8	1 5.11		Conductiv		İ	Turb	•	Turbid ( oderate	=	Low lear 🗹
				MOR	PHC	)LOG	Y						
	: Dominant: F		D95 (cm): 15			Bars: No	n 🗹	Side [	Diagonal [	] Mid-	channel		oan 🗌
	ttem: Sinuous		Islands: Oc		DISTLI	RRANCE	01	В1	B2 B3	D1	D2 C	13	
	pling: Decouple	ed	10101100: 00	,		CATORS				ĎΙ			
Confine	ment: Occasion	nally Confine		_	C1	C2 C	3 C	4 C5	5 S1 S2	S3	S4	S5	
Morpho	ology: RP I	Riffle Pool		-									
					VO:	ΕR							
Total Cover:	Trace		Туре:	SWD	LWI			U	DP (	OV	IV .		•
LWD:	Few	<del></del>	Amount: ocation: P/S/O:	T	T	<u> </u>		N	s	<u> </u>	N		
LWD Dist:	Evenly Distribu	ited	bication. F/S/O.					الللا		<u> </u>		FS2	z: 🗌
Right Bank:	Shape: V -	•	rre: Fines 🗹 Gr	_		=	=	Rock	Manmade	]	Cr	own Clos	
Left Bank: Right Bank:	Shape: Sk Rip.Veg: Sh		re: Fines 📝 Gr	rave!∐ ge:Not Ar		_	der	Rock _	_ Manmade _	J		21-4	Ю%
Left Bank:	Rip.Veg: Si	iuus		ge: Not Ap			Inst	ream Ve	eg: None 🗌 .	Algae 💽	Moss	☐ Vas	cular 🔲
L													
Site Number	Capture	Number of	Length fished	Tota	FIS	## Voltage	<b>~~</b>	oecies	Total	Minir		Mari	imum
Site Muniber	Method	Events	(m)	Time	- 1	voitage	٦	pecies	Fish	Lengti			h (mm)
25	EF	1	100	348 s	ec oe	700		NFC	0				
D-114 2 5	-44 002	1	Discotte - : 12	·		`							<del></del>
Roll# 3, Frankind of marg determine fis pools may s	ne# 2, CD# 1 inal habitat a sh absence, l upport rearin	, Image#40, nyway. section NFC below at g, but low val	Direction: Ups Direction: Downs ons of low grad nyway - margii lue. Spawning	vnstream dient - Bl nal fish li Habitat	n, Scal D area ikelihor - none	le/Comm is and his od excer	ent:ca gher g ot near	m bag radient mouth	. site = UTM.	Rearin	g Habit	at - fair	- few
freezes solid	I. Other - all i	solated abov	e cascade at e	end of R.	.5								

BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

1.0

ILP#

Watershed Code: 480-802100-42400-09600-0000-0000-000-000-000-000-000

				STR	EAM	REF	EREN	ICIN	G					
Gazetted Nam	e:						1	Local N	lame:					}
Watershed Co	<b>de:</b> 480-8021	00-42400	-0960	0-0000-0000-00	0-000-00	00-000-	000-000		ILP I	Map #:		ILP	#:	
					,	E.	211							
Reach #: 1.0 Length (km): Gradient (%): 3 US Elev (m):	.16 3.1		Coup	M(Zone/East/No ling: nent: Occasiona inds:	•	Maç	9.605586 gnitude: Order: parian Ve	2	on:		BGC a	Zone:	Biased	1
Bars: None	Side .	Diagonal		Mid-channel	Span	В	raid 🗌	Land	luse:				×	
Site #: 2 Site Length (i				10.307845.6055 10.307844.6055		SIT	Ager	ncy: C0		Crew: MJ Consulting Ltd	/SR	Date:	2002/07	/07
					C	HAN	NEL							
No Vis.Ch.:  Dewatered:  Stage: Low	Intermitte Trib	= -	We	nnel Width (m):	Avg 1.55 1.48	1.3 1.3 0.3	1.8 1.600 0.4	# 6 6 3		Gradient %: Pool Depth (m):	1.25 0.19	Min 1 0.13	Max 2 0.270	4 3
Med <b>√</b> High	=	L np (C): 7	odi	nkfull Depth (m): pH: 7.6	0.33		Conducti		1	Turb	dity.: M	Turbid oderate	=	Low lear ✔
,	1				MOF	PHO	LOG	Y						
Si Channel Pat	Dominant: Cubdominant: F	ines , Wanderi	ng	D95 (cm): 50 D (cm): 1. Islands: Oc	00		Bars: No IRBANCI CATORS	E <u>O1</u>	Side [	Diagonal B2 B3	Mid-	channel		oan 🗌 aid 🔲
Confinen	ling: Decouple nent: Unconfin logy: RP I		l			C1		1. —	C4 C	5 S1 S2	S3	\$4	\$5	Ì
						COY	ER							
Total Cover: A		uted	L L	Type: Amount: ocation: P/S/O:	SWD T	LW	D C	B S	U D		χ Τ	IV N	FS	<u>:</u> : □
Right Bank: Left Bank: Right Bank: Left Bank:	Shape: Un Shape: Un Rip.Veg: Sh Rip.Veg:	dercut				Cobble pplicab	e∏ Bou łe	lder	Rock Rock	Manmade Manmade	]	_	own Clos 41-7	′0% 
					************									
Site Number	Capture Method	Number Event	1	Length fished (m)	Tot Tim		Voltage	9 5	Species	Total Fish	Mini: Lengti	mum h (mm)		mum h (mm)
26	EF	1	[	150	233 :	sec	700	l_	NFC	0			<u> </u>	<del></del>
Roll# 2, Fram site = UTM =	ne# 4, CD# mouth. Rea	1, Image aring Hal	#18, bitat -	Direction: Ups Direction: Dow good - abund none - too sha	vnstreai ant C/P	m, Sca ∕Bcov	ile/Comi er. Spar	ment:c wning l	am bag Habitat		trate la	rge mix	ed with	fines

BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

ILP#

	U' Coufine Is onal	FM(Zone/East/Nipling: ment: Confined lands: Mid-channel	orth): 10.	EAC 307482 Mag	000-000 2 H 2.605556 mitude: Order:				ample BGC 2		#: Biased	
Reach #: 2.0 Length (km): .46 Gradlent (%): 4.8 US Elev (m): 1132 Bars: None Side Diag	U' Coufine Is onal	fM(Zone/East/No pling: ment: Confined lands:	orth): 10.	EAC 307482 Mag	2.605556 mitude: Order:		ILP N	s		Type:		
Length (km): .46 Gradlent (%): 4.8 US Elev (m): 1132 Bars: None Side Diag Site #: 27 Site Length (m): 150  No Vis.Ch.: Intermittent:	Cou Confine is onal eld UTM	pling: ement: Confined lands:	orth): 10.	307482 Mag	2.605556 initude: Order:						Biased	
Length (km): .46 Gradlent (%): 4.8 US Elev (m): 1132 Bars: None Side Diag Site #: 27 Site Length (m): 150  No Vis.Ch.: Intermittent:	Cou Confine is onai	pling: ement: Confined lands:		Mag	mitude: Order:						Biased	
Gradlent (%): 4.8 US Elev (m): 1132 Bars: None Side Diag Site #: 27 Site Length (m): 150  No Vis.Ch.: Intermittent:	Confine is onai	ment: Confined	]Span [		Order:	2		_	DGC 4	Lone.		
US Elev (m): 1132  Bars: None Side Diag  Site #: 27  Site Length (m): 150  No Vis.Ch.: Intermittent:	is onal eld UTM	lands:	]Span[	Rip	arian Vo			O	oen wat	ter:		
Site #: 27 F Site Length (m): 150  No Vis.Ch.: Intermittent:	eld UTM	Mid-channel	] Span [		at lall 4C	getatio	n:	•				
Site Length (m): 150  No Vis.Ch.: Intermittent:				Br	aid 🗌	Land	use:					
Site Length (m): 150  No Vis.Ch.: Intermittent:				SH	E							
		10.307630.6055 10.307598.6055			•	cy: C0 ncy Nam		Crew: MJ Consulting Ltd	/SR	Date:	2002/07/	07
			C	HAN	NEL							
Dewatered: Tribs :	]		Avg	Min	Max	#			Avg	Min	Max	#
,	Ch	annel Width (m):	1.42	1.200	1.600	6		Gradient %:	5.75	4	8	4
Stage: Low		etted Width (m):		1.200	1.5	6	P	ool Depth (m):	0.18	0.12	0.24	5
Med ☑ High ☐ Temp (		pH: 7.6	0.23	0.2	0.3 Conductiv	3 rity: 40		Turbì	•	Turbid[ oderate	=	_ow ☐ lear ✔
			MOR	PHC	LOG	γ						
Bed Material: Dominant: Cobb	Ð	D95 (cm): 40	0.00		Bars: No	an 🗹	Side	] Diagonal [	] Mid-	channel	☐ \$p	an 🔲
Subdominant: Fines		D (cm): 6	.00								Bra	aid
Channel Pattern: Sinuous		Islands: No	ne ne		RBANCE	- 01	B1	B2 B3	<u>D1</u>	D2 D	3	
Coupling: Coupled	-6				CATORS	للا	لللا	1111	44		7	
Confinement: Frequently C  Morphology: CP Case	mmeo ade Pool		-	C1	C2 (	C3 C	4 C5	S1 S2			S5	
37		***************************************										
T-1-10				30 V		. 1	1	-5- T			<u> </u>	
Total Cover. Moderate		Type: Amount:	SWD	LWI		3	U T		)V	IV N		
LWD: Few LWD Dist: Evenly Distributed		Location: P/S/O:									FS7	: 🗆
Right Bank: Shape: V - sha	—— Tovto	ure: Fines 🗹 Gr	iove-	Cobble				Manmada	<del></del>	<u></u>	own Clos	_
Left Bank: Shape: V - sha		ure: Fines 📝 Gr						_		Cit	21-4	
Right Bank: Rip.Veg: Conifer			ge: Mature		_							
Left Bank: Rip.Veg:		Stag	ge: Mature	forest	t	Inst	ream Ve	g: None 🗌 /	Ngae [	Moss	<b>✓</b> Vasc	ular 🗌
				FIS	H							
, , , , ,	nber of vents	Length fished (m)	Tota Time		Voltage	S	pecles	Total Fish	Minir Length		Maxii Lengti	
27 EF	1	150	359 s	ec	700		NFC	0				
Roll# 2, Frame# 5, CD# 1, Im Roll# 2, Frame# 6, CD# 1, Im site = ~20m d/s from "trib" = 1 Spawning Habitat - none - su	ige#20, TM. Re	Direction: Dow aring Habitat -	rnstream moderati	, Scale e oven	e/Comm all, fairty	ent:ca fast fi	m bag ow altho	ough cover us o shallow	sable ir	n some	shallow	pools.

BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

IIP#

Watershed Code: 480-802100-42400-09600-0000-0000-000-000-000-000-000 STREAM REFERENCING **Gazetted Name:** Local Name: ILP#: Watershed Code: 480-802100-42400-09600-0000-0000-000-000-000-000-000 ILP Map #: REACH Reach #: 4.0 UTM(Zone/East/North): 10.306258.6055215 Sample Type: Biased **BGC Zone:** Length (km): 1.04 Coupling: Magnitude: Gradient (%): 1.4 Confinement: Occasionally Con Order: 2 Open water: US Elev (m): 1158 Islands: Riparlan Vegetation: Bars: None Side Diagonal Mid-channel Span Braid Landuse: Site #: 28 Field UTM 10.306677.6055145 Agency: C016 Crew: SR/MJ Date: 2002/07/08 GIS LITM 10:306674:6055132 Agency Name: FINS Consulting Ltd. Site Length (m): 120 CHANNEL No Vis.Ch.: Intermittent: Min Max Avg Min Max Dewatered: Tribs.: Channel Width (m): 1.600 1.25 1.27 0.9 6 Gradient % Wetted Width (m): 1.27 1.600 Pool Depth (m): 0.13 0.090 0.180 4 0.9 6 Low Bankfull Depth (m): 0.27 0.2 0.3 Med 🗸 Turbidity.: Turbid Low Clear 🗸 High [ Temp (C): 7 pH: 7.9 Conductivity: 40 Moderate MORPHOLOGY Bed Material: Dominant: Fines D95 (cm): 1.00 Bars: Non 🗸 Side Diagonal Mid-channel Subdominant: Not Applicable D (cm): 0.10 Braid \_\_\_ Channel Pattern: Sinuous Islands: Occasiona DISTURBANCE **INDICATORS** Coupling: Decoupled C4 C5 S1 **S3** Confinement: Occasionally Confine C3 **S2 S4** Morphology: LC Large Channel Total Cover: Trace SWD LWD Туре Amount N S D N LWD: Few Location: P/S/O: FSZ: 🔲 LWD Dist: Evenly Distributed Shape: Sloping (g Texture: Fines Gravel Cobble Boulder Rock Manmade Right Bank: Crown Closure Shape: Sloping (g Texture: Fines ✓ Gravel Cobble Boulder Rock Manmade 41-70% Right Bank: Rip.Veg: Shrubs Stage: Not Applicable Instream Veg: None 🗹 Algae 🗌 Moss 🔲 Vascular 🗍 Left Bank: Rip.Veg: Stage: Not Applicable FISH Maximum Site Number Capture Number of Lenath fished Total Voltage Species **Total** Minimum Method Events Time Fish Length (mm) Length (mm) (m) EF 120 389 sec 700 NEC Roll# 2, Frame# 19, CD# 1, Image#33, Direction: Upstream, Scale/Comment:cam bag Roll# 2, Frame# 20, CD# 1, Image#34, Direction: Downstream, Scale/Comment.cam bag defined flow over fines, branches through alder corridor. NFC already in 3 sites, unlikely CT use. site = UTM. Overwintering Habitat none - too shallow. Spawning Habitat - none - no gravels suitable. Rearing Habitat - fair - occasional deep enough section hidden by overstream vegetation, but no use

#### BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

iLP#

1.0 93K.061

STREAM REFERENCING													
Gazetted Nam	18:					Local N	ame:						1
Watershed Co	de: 000-000000-0000	0-00000-0000-0000-00	0-000-0	00-000-0	00-000		IL.	P Map #	: 93K.061		ILF	P#: 6	1744
				REAC	H								
Reach #: 1.0	)	UTM(Zone/East/No	orth): 10	.307347.	605568	18			S	ample	Type:	Biase	d
Length (km): .		Coupling:		_	ritude:					BGC 2			
Gradient (%):		nfinement: Frequently	/ Confin		Order:				O	pen wat	ter:		
US Elev (m):		Islands:	1.	_	_	egetatio							
Bars: None	」Side ∐ Diagona	Mid-channel	Span			Land	use:				**********		
				5174			_	_					
Site #: 2 Site Length (i		UTM 10.307605.6055 S UTM 10.307573.6055			-	ncy: C0 ncy Nan		_	ew: SR sulting Ltd	/MJ	Date:	2002/07	<i>1</i> 07
			C	HANI	<del> </del>	•							
No Vis.Ch.:	Intermittent:		Avg	Min	Max	#	<u> </u>			Avg	Min	Max	#
Dewatered:	Tribs.:	Channel Width (m):	0.00	0	0	0	] [	Gr	adient %:	0.00	0	0	0
Stage: Low	7	Wetted Width (m):	0.00	0	0	0	[	Pool D	epth (m):	0.00	0	0	0
Med [	<u> </u>	Bankfull Depth (m):	0.00	0	0	0	1		Turb	dity.:	Turbid		Low
High [	Temp (C):	pH:		С	onducti	vity:				M	oderate	□ c	iear 🗌
			MOI	3 P H O	0.00	Y				_			
Bed Material:		D95 (cm):		E	Bars: N	on 🗌	Side	∌ 🗌 D	iagonal	Mid	-channe	_ '	pan 🗌
	ubdominant:	D (cm):										184	raid 📙
Channel Pat		Islands:		DISTUR	RBANC ATORS		B	1 B2	B3	D1	D2 [	<u>)3</u>	
Coup Confinen	•			C1		لبليا	<u> </u>	C5 :	S1 S2	S3	 S4	 S5	
Morpho				$\overline{\Box}$				$\frac{\omega}{\Box}$	J	T 🗀		$\overline{\Box}$	
,	•			COVE	<u> </u>	<u> </u>							
Total Cover:		Type:	SWD	LWD		вГ	U	l p	P (	ov I	īV	7	
		Amount:		+	+	-	<u> </u>	+	<u> </u>	-		1	
LWD:		Location: P/S/O:										FS	z: 🗌
Right Bank:	Shape:	Texture: Fines Gr	avei	Cobble	Bou	lder	Roci	k ☐ Ma	nmade	7	C	 rown Clo	sure
Left Bank:	Shape:		avei	Cobble	=	lder 🗌	Roci	=	nmade	_			
Right Bank:	Rip.Veg:	Stag		·				-	_	_	_	_	_
Left Bank:	Rip.Veg:	Stag	ge:			Ins	tream	Veg: N	lone 🗌	Algae [	_ Moss	☐ Vas	cular _
no any kind o	of drainage at mapp	ed location or 100m	radius.	. site ≈ U	лм. С	ther - i	Vo fis	h habit	at				
1													
Ì													
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BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

1.0

ILP#

ILP Map#

			STR	EAM RE	FERENC	ING			
Gazetted Nam	ne:				Lo	cal Name:			
Watershed Co	ode: 480-8021	00-42400-544	00-0000-0000-00	0-000-000-00	0-000-000	ILP N	lap #:	ILI	余
				RE	KC H				
Reach #: 1.0	)	UT	M(Zone/East/No	orth): 9.69349	3.6056242			Sample Type:	Biased
Length (km):	.33	Cou	pling:	N	lagnitude:			<b>BGC Zone:</b>	
Gradient (%):			ment: Confined	_	Order: 3		C	pen water:	
US Elev (m):			ands:		tiparian Vege				
Bars: None	_ Side	Diagonal 🔲	Mid-channel	J Span ∐		anduse:			
<b></b>				•••••	TE				000000700
Site #:			10.306335.6056 110.306343.6056		Agency Agency	: C016 / Name: FINS			2002/07/08
				CHA	NNEL				
No Vis.Ch.:	Intermitte	=		Avg Mir	Max	#		Avg Min	Max #
Dewatered:	Trib		annel Width (m):	2.03 1.70		6	Gradient %	2.25 2	3 4
Stage: Low			etted Width (m): nkfull Depth (m):	2.03 1.70 0.37 0.3		6 P	ool Depth (m)	<del> </del>	0.52 4
Med High	=	mp (C): 9	pH: 8.0	1 0.01   0.0	Conductivity	<u>ت</u> .	Turb	idity.: Turbid   Moderate	Low ☐ Clear ✔
				MORPI	OLOGY				
Bed Material:	Dominant: 0	Cobbie	D95 (cm): 25		Bars: Non	Side	Diagonal [	Mid-channe	I Span 🗌
s	ubdominant: (	Gravels	D (cm): 6				_ •		Braid
Channel Pat	ttem: Sinuous		Islands: No		TURBANCE	O1 B1	B2 B3	D1 D2 E	23
-	oling: Partially	-			DICATORS				
ł	nent: Frequen	tly Confined Riffle Pool		C1	C2 C3	C4 C5	S1 S2	S3 S4	S5
Morpho	ology: RP i	KHIRO FUOI							
				CO	VER				•
Total Cover:	Abundant		Туре:		WD B	U	DP (	OV IV	
LWD: I		[	Amount: ocation: P/S/O:					T N	
	Evenly Distrib	uted [						<u></u>	FSZ: ∐
Right Bank: Left Bank:	Shape: V - Shape: V -	•	ure: Fines 🗹 Gr ure: Fines 📝 Gr	_			: =	=======================================	rown Closure 21-40%
Right Bank:	Snape: v - Rip.Veg: Sh			rave≀ Cob ge: Not Applic		ILLI NUCK [	] macinidas	_	£1~4U70
Left Bank:	Rip.Veg:	==		ge: Not Applic		Instream Ve	g: None 🗹	Algae 🗌 Moss	Vascular [
					SH				
Site Number	Capture	Number of	Length fished	Total	Voltage	Species	Total	Minimum	Maximum
	Method	Events	(m)	Time		<u> </u>	Fish	Length (mm)	Length (mm)
30	EF	11	150	413 sec	700	СТ	4	54	114
Rol# 3. Fran	ne# 5, CD# 1	I, Image#42	Direction: Ups	tream. Scale	/Comment:	cam bao		- ;	·
Roll# 3, Fran	ne# 6, CD# 1	i, image#43,	Direction: Dow	nstream, So	ale/Comme	nt:cam bag			
			n. also sampled ngular. site = U						
			nguiar. site = t s, very deep, o						
		. •	• • • • • • • • • • • • • • • • • • • •			•	•	, <u>.</u>	
								_	

BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

ILP#

			STR	EAM	REF	EREN	CII	IG					
Gazetted Nar	ne:					ı	.ocal I	Name:			•		
Watershed Co	ode: 480-8021	00-42400-544	00-0000-0000-00	00-000-00	000-000	-000-000		ILP I	fap #:		ILP	*	
				,	(EA	C II							
Reach #: 3.	_		M(Zone/East/N	orth): 9.6			********		;	Sample	• •	Biase	1
Length (km): Gradient (%):			pling: ment: Occasion	ally Con	Mag	gnitude: Order:	2			BGC : pen wa	Zone:		
US Elev (m):			ands:	ally Con	Rin	oruer. parian Ve		on:		pen wa	ter.		
Bars: None		Diagonal	Mid-channel	Span	_ `	iraid 🗌	-	luse:					
					SIT	E							
Site #:	31	Field UTM	9.692807.6056	085		Agen	cy: C(	016	Crew: SF	CMN	Date:	2002/07	<i>1</i> 08
Site Length	(m): 120	GIS UTM	10.305400.605	6153		Age	ncy Na	me: FINS	Consulting Ltd	i.			
				C	HAN	NEL							
No Vis.Ch.:	Intermitte	mt: 🔲		Avg	Min	Max	#	]		Avg	Min	Max	#
Dewatered:	Trib		annel Width (m):	-	1.3	21	6	]	Gradient %:	2.75	1	4	4
Stage: Low			etted Width (m): nkfull Depth (m):		0.3	0.4	6 3	<del>│</del> └‐	ool Depth (m)	0.29	0.200	0.370	4_
Med	프	<u> </u>	· · · · · ·	.1 0.33		Conductiv		٤	Turb	idity.:	Turbid [ oderate		Low 🗍
High		np (C): 9	pH: 8.1			OLOG		***********		IVI	ooerate		rear 💌
Red Material	Dominant: 0	`ohble	D05 (cm): 11		3.81A			Side	Diagonal [	T NASA	abaaaal	_ ი	🗆
Bed Material: Dominant: Cobble D95 (cm): 12.00 Bars: Non ☑ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ Subdominant: Fines D (cm): 4.00 Braid ☐													
Channel Pa	Channel Pattern: Sinuous Islands: None DISTURBANCE O1 B1 B2 B3 D1 D2 D3												
Cour	oling: Decoupl	ed				CATORS	V						
1	ment: Occasio	•		_	C1	C2 (	3	C4 C5	S1 S2	S3	S4	S5	
Morpho	ology: CP	Cascade Pool											
					COV	ER							
Total Cover:	Abundant		Туре:	SWD	LW		3	U	DP (	OV	ſ٧		
LWD:	Few		Amount: ocation: P/S/O:	T	<u> </u>		3	T	D	T	N		
LWD Dist:	Evenly Distrib	nted									لــالــالــ	FSZ	<u>:</u> : 🗌
Right Bank:	Shape: Slo		re: Fines 🗹 G					=	Manmade	]	Cr	own Clos	
Left Bank: Right Bank;	Shape: V - Rip.Veg: Sh		ıre: Fines 🗹 Gı ∽	ravel ge: Not A			der	Rock	_ Manmade _	J		21-4	ю%
Left Bank:	Rip.Veg. 30	1005		ge: Not A			ins	stream Ve	g: None	Algae [	Moss	<b>✓</b> Vas	cular 🗌
879 - 37	•	N		T	FIS		<u> </u>		T =				
Site Number	Capture Method	Number of Events	Length fished (m)	Tota Tim		Voltage	'   '	Species	Total Fish	Minir Lengti	num ı (mm)		mum h (mm)
31	EF	1	120	257 s	ес	700		NFC	0				
	·												
Rol# 3, Fran -54400	ne# 7, CD# <sup>-</sup>	I, Image#44,	Direction: Dov	vnstrean	n, Sca	le/Comn	ent:N	AJ - staci	king photos o	f BD m	aking p	ond in r	. 3 of
	ne# 8, CD# 1	I, Image#45,	Direction: Dov	vnstrean	n, Sca	le/Comn	ent:n	one					
	Roll# 3, Frame# 12, CD# 1, Image#49, Direction: Upstream, Scale/Comment.cam bag												
	Roll# 3, Frame# 13, CD# 1, Image#50, Direction: Downstream, Scale/Comment:cam bag site = UTM = on u/s side of lake. BD's - repeating process of BD/pond, then steeper with cobbles, cascades. Rearing Habitat -												
moderate to	good, espec	ially in steep	er sections in (	CP cove	r, boul	der/cobi							
Overwinterin	Overwintering Habitat - moderate - nice deep pools, perennial flow												
L											<del></del>		

#### BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

ILP#

Watershed Code: 480-802100-42400-54400-0000-0000-000-000-000-000-000

STREAM REFERENCING														
Gazetted Nam	ie:						i	Local I	Name:					.
Watershed Co	de: 480-8021	00-42400-	54400-0000	-0000-00	0-000-00	000-00	-000-000		ILP N	fap #:		ILP	#:	
					,	(EA	CH							
Reach #: 3. Length (km): Gradient (%): US Elev (m):	.18 4.4		UTM(Zon Coupling: finement: ( Islands:		•	Mag	.6055671 gnitude: Order: parian Ve	2	on:		Sample BGC Open wa	Zone:	Biase	d
Bars: None	Side 🗌	Diagonal	Mid-ch	annel	Span	□В	raid 🗌	Lanc	iuse:					
						<b>51</b> 1	E							
Site #: Site #:	_		TM 9.6926 UTM 10.305				-	ncy: Co ncy Na		Crew: Si Consulting Lt	R/MJ d.	Date:	2002/07	/23
					C	HAN	NEL							
No Vis.Ch.: Dewatered: Stage: Low Med High	Trib	ent:	Channel W Wetted W Bankfull D	idth (m):	Avg 1.35 0.88 0.23	Min 1 0.600 0.2	Max 1.700 1.100 0.3	# 6 6 3 vity: 30		Gradient % Pool Depth (m	0.13 oidity.:	Min 3 0.090 Turbid	=	# 4 4 Low :: Slear 🗸
MORPHOLOGY														
Bed Material: Dominant: Cobble D95 (cm): 30.00 Bars: Non V Side Diagonal Mid-channel Span Braid Diagonal Mid-channel Span Diagonal Mid-channel Span Diagonal Mid-channel Span Diagonal Mid-channel Span Diagonal Mid-channel Span Diagonal Mid-channel Span Diagonal Mid-channel Span Diagonal Mid-channel Span Diagonal Mid-channel Span Diagonal Mid-channel Span Diagonal Mid-channel Span Diagonal Mid-channel Span Diagonal Mid-channel Span Diagonal Mid-channel Span Diagonal Mid-channel Span Diagonal Mid-channel Span Diagonal Mid-channel Span Diagonal Mid-channel Span Diagonal Mid-channel Span Diagonal Mid-channel Span Diagonal Mid-channel Span Diagonal Mid-channel Span Diagonal Mid-channel Span Diagonal Mid-channel Span Diagonal Mid-channel Span Diagonal Mid-channel Span Diagonal Mid-channel Span Diagonal Mid-channel Span Diagonal Mid-channel Span Diagonal Mid-channel Span Diagonal Mid-channel Span Diagonal Mid-channel Span Diagonal Mid-channel Span Diagonal Mid-channel Span Diagonal Mid-channel Span Diagonal Mid-channel Span Diagonal Mid-channel Span Diagonal Mid-channel Mid-channel Span Diagonal Mid-channel Span Diagonal Mid-channel Span Diagonal Mid-channel Span Diagonal Mid-channel Span Diagonal Mid-channel Mid-channel Mid-channel Mid-channel Mid-channel Mid-channel Mid-channel Mid-channel Mid-channel Mid-channel Mid-channel Mid-channel Mid-channel Mid-channel Mid-channel Mid-channel Mid-channel Mid-channel Mid-channel Mid-channel Mid-channel Mid-channel Mid-channel Mid-channel Mid-channel Mid-channel Mid-channel Mid-channel Mid-channel Mid-channel Mid-channel Mid-channel Mid-channel Mid-channel Mid-channel Mid-channel Mid-channel Mid-channel Mid-channel Mid-channel Mid-channel Mid-channel Mid-channel Mid-channel Mid-channel Mid-channel Mid-channel Mid-channel Mid-channel Mid-channel Mid-channel Mid-channel Mid-channel Mid-channel Mid-channel Mid-channel Mid-channel Mid-channel Mid-channel Mid-channel Mid-channel Mid-channel Mid-channel Mid-channel Mid-channel Mid-channel Mid-channel Mid-channel Mid-channel Mid-chann														
						COV	FR							
Total Cover: I LWD: I LWD Dist: I		uted		Type: Amount: : P/S/O:	SWD T	LW	D	B D	U N	DP T	ov s	iV N	FS	z: 🗌
Right Bank: Left Bank: Right Bank: Left Bank:	Shape: V Shape: V Rip.Veg: Sh Rip.Veg:	-shape	Cexture: Find Cexture: Find	es 🔽 Gr Stag		Cobbk pplicat	Bou	ider	Rock	Manmade  Manmade  Manmade	Ī		own Clo 41-7 Vas	70%
							FEAT	URE	S					
	NID Type 30321 C	2.5	Method	Lg 4	Meth	_		oto F: 1:	2 9.0	UTM (Z/E/N) 592501.60556		Method GIS		
Comments:	impassable	to all fish -	no pool											
Site Number	Capture Method	Number Event		h fished m)	Tot Tim		Voltage	e :	Species	Total Fish	1	mum h (mm)		imum th (mm)
32	EF	1		100	289 s	ес	600		NFC	0	<u> </u>		<u> </u>	
Roll# 5, Frame# 9, CD# 1, Image#80, Direction: Upstream, Scale/Comment:probe - cobble channel section Roll# 5, Frame# 10, CD# 1, Image#81, Direction: Downstream, Scale/Comment:cam bag - cobble channel section Roll# 5, Frame# 11, CD# 1, Image#82, Direction: Upstream, Scale/Comment:lower gradient pooled water section = repeating sequence over fines/detritus Roll# 5, Frame# 12, CD# 1, Image#83, Direction: Upstream, Scale/Comment:SR - cascade in features = EFU has fair usable and accessible habitat, infer CT presence, none in R. 3 either, very low numbers. site = UTM =50m u/s from lake. CP over mossy cobbles, but occasional low gradient wider sections. Rearing Habitat - fair - occasional deep pools, but overall pretty shallow CP morphology over mossy cobbles. Spawning Habitat - none - usually large cobbles or fines - no uniform gravels. Overwintering Habitat - none - no pools deep enough														

BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach# !LP Map #

LP#

Watershed Code: 480-802100-42400-54400-0000-0000-000-000-000-000-000

			STR	EAM RE	FEREN	CING					
Gazetted Nar	ne:				Lo	cal Nam	e:				
Watershed Co	ode: 480-8021	100-42400-54	400-0000-0000-00	00-000-000-00	0-000-000	i	ILP Map #:		ILP	套;	
				RE/	CH						
Reach #: 4.	-	บ	TM(Zone/East/N	orth): 9.69085	4.6055315			Sample	Type:	Biased	
Length (km):			upling:		agnitude:				Zone:		
Gradient (%):			ement: Frequently		Order: 2			Open wa	ter:		
US Elev (m):			slands:	. –	iparian Vego						
Bars: None	_ Side	Diagonal	Mid-channel	J Span ∐	Braid	Landuse	:				
				\$1	TE						
Site #: Site Length			1 9.692488.60556 M 10.305038.6055			r: C016	Crew: S	R/MJ	Date:	2002/07/2	23
One congu	(11): 200	0,00,				y Ivanie.	into consulting t			************	
	7	. 🗀			NNEL						
No Vis.Ch.: Dewatered:	=	= -		Avg Min		#		Avg	Min	Max	#
_	_		hannel Width (m): Vetted Width (m):	1.22 0.80 1.18 0.80		6	Pool Depth (m		3 0.270	5 0.38	5
Stage: Low	<b>⊈</b>	<u> </u>	ankfull Depth (m):	0.33 0.3	0.4	3		······			
Med High [		mp (C): 9	pH: 8.4		Conductivit		Tu	bidity.: M	Turbid \ oderate		ow∐ ear <b>√</b>
				MORPH	O L O G Y						
1	: Dominant: (		D95 (cm): 20 D (cm): 3	.00	Bars: Non		de 🗌 Diagonal	Mid	-channel	Spa	= 1
Channel Pa	ttem: irregular	Wandering	Islands: No		URBANCE	O1 1	B4 D2 D2	D4	D2 D		
1	ling: Decoup	•	15181105.140		CATORS		B1 B2 B3	<del>- 11</del>		<u>-</u>	
1	nent: Occasio			C1	C2 C3	C4	C5 S1 S	2 S3	S4	 S5	
Morpho	ology: RP	Riffle Pool		П							
				CO.	/ER			2.1.			
Total Cover:	Abundant		Type:	SWD LV	VD B	U	DP	ον	1V		
LWD:	Few		Amount:	Т	T T	T	D	S	N		
1	Evenly Distrib	uted	Location: P/S/O:							FSZ:	
Right Bank:	Shape: V -	shape Text	ture: Fines 🗹 Gr	avel Cobb	le 🗹 Boulde	er∏ Ro		=	Cn	own Closu	ıre
Left Bank:	Shape: V	•	ture: Fines 🗹 Gr			er Ro	ck 🔲 Manmade			21-40	)%
Right Bank: Left Bank:	Rip.Veg: Co	niferous	_	e: Mature fore				ъ. г	٦ ا	<b>.</b>	
Leit Dalik.	Rip.Veg:		Stat	je: Mature fore	ST	instreal	n Veg: None	Algae	_  Moss	▼ Vascu	ular 📋
				FI	5 H						
Site Number	Capture Method	Number of Events	Length fished (m)	Total Time	Voltage	Spec	ies Total Fish	Minir	num ) (mm)	Maxin Length	
33	EF	1	200	506 sec	600	NF	0				
Roll# 5, Fran sampled nice morphology a Spawning Ha	ne# 14, CD# o CT habitat as below, bu abitat - poor ep pools pre	1, Image#8 extensively. t non fish. 3 (none) - no s	4, Direction: Up 5, Direction: Do slightly lower gr rd site NFC in c suitable gravels ut already v. littl	wnstream, S radient and d reek. site = fi (i.e. CT isola	cale/Comm leeper pool rom cascad ited not pos	entcam s, less c le. Reari ssible - n	bag obble pool (case ng Habitat - goo o spawning). O	d in abu verwinte	ndant v ring Hal	. deep po bitat -	

BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

ILP#

93L.070

70704

STREAM REFERENCING **Gazetted Name: Local Name:** ILP Map #: 93L.070 70704 ILP#: REACH Reach #: .1 UTM(Zone/East/North): 9.692723.6056175 Sample Type: Biased Magnitude: Length (km): .14 Coupling: **BGC Zone:** Gradient (%): 5.7 **Confinement:** Confined Order: 2 Open water: US Elev (m): 1177 Islands: Riparian Vegetation: Bars: None Side Diagonal Mid-channel Span Braid Landuse: SITE Site #: 34 Field UTM 9.692869.6056222 Agency: C016 Crew: SR/MJ Date: 2002/07/08 GIS UTM 10:305440:6056268 Site Length (m): 100 Agency Name: FINS Consulting Ltd. CHANNEL No Vis.Ch.: Intermittent: Min Max Avg Min Max # Dewatered: Channel Width (m): Tribs.: 2.200 1.77 1.4 ß Gradient %: 2.25 4 Wetted Width (m): 1.77 2.200 6 Pool Depth (m): 0.24 0.140 1.4 0.310 5 Bankfull Depth (m): 0.27 0.2 0.3 Med 🗸 Turbidity.: Turbid [ Low Clear 🗹 Hìgh Temp (C): 9 pH: 8.0 Conductivity: 30 Moderate MORPHOLOGY Bed Material: Dominant: Gravels D95 (cm): 12.00 Side Diagonal Mid-channel Span 🗌 Subdominant: Cobble D (cm): 3.00 Channel Pattern: Sinuous Islands: None DISTURBANCE Coupling: Decoupled Confinement: Occasionally Confine C3 C4 C5 S<sub>1</sub> S2 Morphology: RP Riffle Pool COVER Total Cover: Moderate SWD Type: OV íν Amount: T T N Т D S N LWD: Few Location: P/S/O: LWD Dist: Evenly Distributed FSZ: Shape: Sloping (g Texture: Fines ✓ Gravel Cobble Boulder Rock Manmade Right Bank: Crown Closure Shape: V - shape Texture: Fines 

✓ Gravel Cobble Boulder Rock Manmade 21-40% Right Bank: Rip.Veg: Shrubs Stage: Not Applicable Left Bank: Rip.Veg: instream Veg: None ☐ Algae ☐ Moss 🗹 Vascular 🗍 Stage: Not Applicable FISH Site Number Capture Number of Lenath fished Total Voltage Minimum Maximum Species Total Method Events Time (m) Fish Length (mm) Length (mm) FF 100 104 sec 700 CT 188 188 Roll# 3, Frame# 9, CD# 1, Image#46, Direction: Upstream, Scale/Comment:MJ Roll# 3, Frame# 10, CD# 1, Image#47, Direction: Downstream, Scale/Comment.cambag Roll# 3, Frame# 11, CD# 1, Image#48, Direction: Downstream, Scale/Comment:fish photo #3-11 site = UTM = mouth = pond. stream carries bulk of flow for drainage. CT presence - surprised. Spawning Habitat - mod - abundant gravels, but most angular. Overwintering Habitat - fair-mod - may lack sufficient depth. Rearing Habitat - mod-good in occasional deep pool cover, extensive overstream vegetation and bridged banks

#### BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

ILP#

1.0 93L.070

	STREAM REFERENCING												
Gazetted Nar	ne:						Local N	ame:					
Watershed C	ode: 000-0000	000-00000-00	000-0000-0000-00	00-000-06	00-000	)-000-00 <del>0</del>		ILP I	<b>dap #:</b> 93L.070	)	ILF	#:	70704
				•	REA	CH							
Reach #: 1.	0	l	JTM(Zone/East/N	orth): 9.6	92446	6.605604 <b>6</b>			Į	Sample	Туре:	Bias	ed
Length (km):	.30	Co	upling:	•	Ma	ignitude:				-	Zone:		
Gradient (%):			ement: Frequently	y Confin		Order:			O	pen wa	ter:		
US Elev (m):			slands:	٦ _	_	iparian Ve	-						
Bars: None	Side	Diagonal	Mid-channel	∫ Span		Braid	Land	use:		***************************************			
<u> </u>					SIJ	************			_				
Site #: Site Length			M 9.692665.60561 M 10.305316.6056			•	ncy: C0 ncy Nar		Crew: SF Consulting Ltd	VMJ 1.	Date:	2002/0	7/23
-					i A	INEL	,		•				
No Vis.Ch.:	Intermitte	ent:		Avg	Min	Max	#	···········		Avg	Min	Max	T #
Dewatered:	Trib		hannel Width (m):		0.400	) 1	5		Gradient %:	2.75	1	5	4
Stage: Low	.0W V									0.04	0.02	0.070	3
Med	₫		sankfull Depth (m):	0.17	0.1	0.2	3	ļ	Turb	idity.:	Turbia	$\supseteq$	LOW
High	Ter	mp (C): 9	pH: 8.6		***********	Conductiv	<del>.</del>		***************************************	M	oderate		Clear 🗹
MORPHOLOGY  Bed Material: Dominant: Fines D95 (cm): 10 00 Bars: Non M Side Diagonal Mid-channel Soan D													
Bed Material: Dominant: Fines D95 (cm): 10.00 Bars: Non ☑ Side ☐ Diagonal ☐ Mid-channel ☐ Span ☐ ☐ Subdominant: Cobble D (cm): 0.05													
	ttem: Sinuous		Islands: No		ודפות	URBANCE	E 01	B1	D2 B3	D4	ח פים		Haiu []
	oling: Decouple		13141103.140	110		ICATORS	m	T		ÄΤ			
Confiner	nent: Occasio	nally Confine			C1	C2 (	C3 C	4 C5	S1 S2	S3	S4	\$5	
Morpho	ology: RP	Riffle Pool											
					COV	/ER							
Total Cover: I	None		Туре:	SWD	LW	VD I	3	U	DP (	DV	IV	]	
LWD:	Few	_	Amount:	N	١	1	N	N	N	N	N		
LWD Dist:	Evenly Distrib	uted	Location: P/S/O:	لللا								FS	z: ☐ │
Right Bank:	Shape: V -	•	ture: Fines 🗹 Gr			=	der	Rock	Manmade _	=	Cn	own Cl	
Left Bank: Right Bank:	Shape: V -		ture: Fines 🕢 Gr		Cobbl	_	der	Rock	] Manmade	]		41	-70%
Left Bank:	Rip.Veg: Co Rip.Veg:	milerous	•	ge: Matun ge: Matun			Inst	ream Ve	g: None 🔲 .	Algae	Moss	<b>√</b> ∨a	scular 🗆
					-					-3			
Site Number	Capture	Number of	Length fished	Tota	FI	***********			Total	NA:-1-		10-	-1
Site Rumber	Method	Events	(m)	Time		Voltage	,   ,	pecies	Total Fish	Minir Length			kimum jth (mm)
35	EF	1	250	167 s	ec	600		NFC	0				
D-146 F	42 004	4 1	. D						<del> </del>				
Rol# 5, Fran	ne# 2, CD# 1 ne# 3. CD# 1	1, image#73 1. image#74	3, Direction: Dow 1, Direction: Ups	vnstrean tream. \$	n, Sca Scale/	ale/Comn /Commer	nent:ca nt:cam	ım bag bao: "	- no channel Dool"				
site = UTM (	at junction of	f real 70706	and 70704, pos	ssible ma	appin	g error - a	at site	ocation	north branci	ı is mai	nstem,	likely i	real
			anch (70704) is arginal FPC stre										
or potential.	frequently di	iscontinuous	channel/subflo	w. Rear	ing H	abitat - no							
Spawning Ha	abitat - none	. Overwinte	ring Habitat - no	ne and	none	u/s.							
l													

BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

ILP#

1.0 93L.070

STREAM REFERENCING											
Gazetted Name:		Local Nam	ne:								
Watershed Code: 909-990009-9000	00-00000-0000-0000-000-000-000-	000-000-000	ILP Map #: 93L.070	ILP#: 70705							
	RI	ACH									
Reach #: 1.0 Length (km): .37 Gradient (%): 4.1 C US Elev (m): 1190	UTM(Zone/East/North): 9.692 Coupling: onfinement: Frequently Confin Islands:	477.6056419 Magnitude: Order: 1 Riparian Vegetation:	Sample BGC a Open wat	Zone:							
Bars: None Side Diagona	al Mid-channel Span	Braid Landuse	<b>:</b> :								
	Ş	ITE									
	1 UTM 9.692751.6056208 IS UTM 10.305345.6056276	Agency: C016 Agency Name:	Crew: SR/MJ FINS Consulting Ltd.	Date: 2002/07/23							
	СН	ANNEL									
No Vis.Ch.: Intermittent: Dewatered: Tribs.:		Min Max #	Avg	Min Max #							
		0 0 0	Gradient %: 0.00 Pool Depth (m): 0.00	0 0 0							
Stage: Low   Med   High Temp (C):	Bankfull Depth (m): 0.00 pH:	0 0 0 Conductivity:	•	Turbid Low Low Clear							
	MORP	HOLOGY									
Bed Material: Dominant: Subdominant:	D95 (cm): D (cm):		ide Diagonal Mid-	-channel Span Braid Braid							
Channel Pattern:		STURBANCE 01 NDICATORS	B1 B2 B3 D1	D2 D3							
Coupling: Confinement:		:1 C2 C3 C4	C5 S1 S2 S3	\$4 \$5							
Morphology:											
	C.	DVER									
Total Cover: LWD: LWD Dist:	Type: SWD Amount: Location: P/S/O:	LWD B L	J DP OV	iv FSZ:							
Right Bank: Shape: Left Bank: Shape:	Texture: Fines Gravel Co	= =	ock Manmade Manmade Manmade	Crown Closure							
Right Bank: Rip.Veg: Left Bank: Rip.Veg:	Stage: Stage:	instrea	ım Veg: None Algae	Moss Vascular							
Roll# 5, Frame# 1, CD# 1, Image not a creek - seepage, occasions none			uvium, no fish habitat. sit	e ≃ mouth. Other -							

BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

ILP#

93L.070

70706

	SIREAM REFERENCING  Gazetted Name:  Local Name:														
Gazetted Name:								Local i	Namo	e:					
Watershed Code	e: 000-00000	0-00000-000	000-0000-0	000-000	0-000-00	0-000-	-000-000		ı	LP M	ap #: 93L.070		ILP	#:	70706
					Ŗ	E A	CH								
Reach #: .1		11	TM(Zone/I	ast/No	4b)- 9 6	92474	6056256	•••••	******	******	ç	amnie	Type:	Bias	ed
Length (km): .25	5		initedies	-030110	лиу. э.о		gnitude:	,			`	•	Zone:	U,u3	00
Gradient (%): 6.0			ement: Oc	casional	lv Con		Order:	1			O	pen wa			
US Elev (m): 11			lands:		,	Rip	arian V		on:			,			
Bars: None	Side D	iagonal 🗍	Mid-chan	nel 🗌	Span	_ `	_	Lane		:					
						SIT	E								
Site #: 37		Field UTM	9.692665	.605617	73	~~~~	Age	ncy: Cl	016	********	Crew: SR	/MJ	Date:	2002/0	7 <i>1</i> 23
Site Length (m)	: 120		vi 10.30531		_		•	•		FINS (	Consulting Ltd		Duit.		
					C)	HA N	NEL	-			-				
No Vis.Ch.:	Intermittent	: 🗆	***************************************	ſ	Avg	Min	Max	#	7			Avg	Min	Max	#
Dewatered:	Tribs.	=	nannel Wid	th (m):	1.13	0.9	1.4	6	1	Г	Gradient %:	4.00	3	5	4
Stage: Low ✓			Vetted Wid		0.97	0.7	1.200	6	1	Po	ool Depth (m):	0.15	0.08	0.24	5
Med Med		В	ankfull Dep	th (m):	0.20	0.2	0.2	3	]		Turbi	ditv.:	Turbid	7	LOW
High [	Tem	p (C): 9	рH	: 8.4			Conducti	vity: 30	ı		. 2.0	•	Accerate	Ī	Clear 🗹
	MORPHOLOGY														
Bed Material: Dominant: Cobble D95 (cm): 14.00 Bars: Non 🗹 Side 🗌 Diagonal 🗍 Mid-channel 🗍 Span 🗍															
Sub	Subdominant: Fines D (cm): 5.00 Braid														
Channel Patter	m: Irregular, \	Wandering	Islar	ds: Non	ne i	DISTU	RBANC	E 01	1 1	B1	B2 B3	D1 .	D2 D	3	
Coupling	g: Decoupled	3				INDI	CATORS	: 🔟							
Confinemen	nt: Occasiona	ally Confine				C1	C2	СЗ	Ç4	C5	S1 S2	S3	S4	<b>S5</b>	
Morpholog	gy: CP Ca	ascade Pool			_										
					C	O.Y	ER								
Total Cover: Mod	derate			Туре:	SWD	LW	D	В	υ	Т	DP C	N I	ΙV		
LWD: Fev	v		An	ount:	T	Т		s	N		D	s	N		
LWD Dist: Eve		ed	Location: F	PISIO:		V								F	sz: 🗌
Right Bank:	Shape: V - s	hape Text	ure: Fines	<b>√</b> Gra	rvel 🔲 (	Cobble	<b>✓</b> Bou	lder	Ro	ck 🗌	Manmade	]	Сп	own Cl	osure
Left Bank:	Shape: V - s	•	ure: Fines	_	=		_		Ro	ck 🗌	Manmade	]			-70%
Right Bank: F	Rip.Veg: Con	iferous		Stage	e: Mature	fores	t								-
Left Bank: F	Rip.Veg:			Stage	e: Mature	fores	t	Ins	stream	m Veç	: Nane 🗌 /	Ngae [	Moss	<b>√</b> Va	scular [
							EAT	URE	S						
NID Map NI		<del>`</del>	Method	Lg	Metho			oto			UTM (Z/E/N)	$\Box$	Method	1	
	372 F	1.0	AL		GE	R	: 5	F: 6		9.6	92486.605625	4	GIS		
Comments: b		····													
	D Type	Hgt	Method	Lg	Metho			oto			UTM (Z/E/N) 92712.605618		Method	4	
093L.070 303 Comments: si		mouth and t	AL his is real	mainste	GE m	R		F:		3.0	761 16.000018	<u> </u>	GIS		
					···										
						FIS									
	Capture Method	Number of Events	Length f	1	Tota Time		Voltag	e   -	Spec	ies	Total Fish		imum th (mm)		ximum
1 1	1		(m	1		- 1	enn		^-	-	1	_	th (mm)	Len	gth (mm) 107
37	EF	1	100	,	284 s	ec [	600		СТ		1 1		197		197

Roll# 5, Frame# 4, CD# 1, Image#75, Direction: Upstream, Scale/Comment:cam bag. Roll# 5, Frame# 5, CD# 1, Image#76, Direction: Downstream, Scale/Comment:cam bag. Roll# 5, Frame# 6, CD# 1, Image#77, Direction: Upstream, scale/ Comment:cam bag - falls in features. mapped wrong at mouth, likely u/s too. stream alternates between fairly confined over cobbles (nice habitat), and impounded, flooded, flat areas over detritus. upper site UTM 9.692583.6056226, this stream is real mainstem of the system. site = starts at branch = UTM. only 1 CT caught near mouth. Other - falls at the end of reach blocks fish access. Rearing Habitat - mod-good - mainly in cobbled sections, marginal sections with poor rearing in backed up, pooled, flooded sections. Spawning Habitat - poor - mainly angular cobbles, then detritus. Overwintering Habitat - poor - lacks significant deep pools

BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

ILP# 70706

1.0 93L.070

			STF	EAM	REF	EREN	CIN	G				
Gazetted Nar	ne:					L	ocal N	lame:				
Watershed C	ode: 000-0000	00-00000-000	00-0000-0000-0	00-000-nr	10-00n-	-000-000		ILP N	lap #: 93L.07	D	ILP#	t 70706
							******			-		
Reach #: 1.			M(Zone/East/N	lorth): 9.6	91782	.6056204				Sample Ty	-	Biased
Length (km):			pling:		Mag	gnitude:				BGC Zo		
Gradient (%):			ment: Occasion	ally Con	D:-	Order:			•	Open water	":	1
US Elev (m):			lands:	7 -	_ `	oarian Veç						
Bars: None	_  Side  _	Diagonal	Mid-channel _	_ Span		raid 🔝	Land	luse:				
					SIT	E						
Site #:			9.692465.6056			Agend	•				Date: 20	002/07/23
Site Length	(m): 150	GIS UTN	110.305065.605	6367		Agen	cy Na	me: FINS	Consulting Lt	d.		
				C	HAN	NEL						
No Vis.Ch.:[	Intermitte	int: 🗌		Avg	Min	Max	#	]		Avg	Min I	Vlax #
Dewatered:	Trib		annel Width (m)	_	0.9	1.8	6		Gradient %		3	8 4
Stage: Low	✓		etted Width (m)	1	0.800	1.8	6	↓ Lº	ool Depth (m	0.22 0	).140 0	.310 4
Med	$\supset$	Į Ba	nkfull Depth (m)	0.33	0.3	0.4	3	1	Turi	oldity.: To	urbid 🔙	Low
High [	Ter	mp (C): 9	pH: 8.4			Conductiv	ity: 30			Mode	erate	Clear 🗹
				MOR	PH(	) L.O.G	Y					
Bed Material	: Dominant: 0	Cobble	D95 (cm): 1	4.00		Bars: No	n 🗹	Side	Diagonal	Mid-ch	annel [	Span 🗍
s	Subdominant: F	ines	D (cm): 3	3.00								Braid 🗌
Channel Pa	ttem: Irregular	, Wandering	Islands: No	one	DISTU	JRBANCE	01	B1	B2 B3	D1 D2	D3	_
Cou	pling: Decouph	ed			INDI	CATORS		ЦП				
Confine	ment: Occasio	nally Confine		_	C1	C2 C	3 (	C4 C5	S1 S2	S3	S4 S	<b>.</b> 5
Morpho	ology: CP	Cascade Pool		_								
					OV	ER						
Total Cover:	Moderate		Туре:	SWD	LW	D B	T	U	DP	ov l	īV	
LWD:	Eau		Amount:	T	Ŧ	s		T	D	S	N	
J.	Evenly Distribi	uted [	ocation: P/S/O:		V							FSZ:
Right Bank:	Shape: V -		ıre: Fines 🗹 G	rmenl (	Cobble	<b>⊘</b> Bould	 (o•□	Rock	Manmade	7		n Closure
Left Bank:	Shape: V -	•	re: Fines 🗸 G			_	_	Rock	Manmade	╡	CION	41-70%
Right Bank:	Rip.Veg: Co			ge: Mature			<u>۔</u>		, <u></u>			
Left Bank:	Rip.Veg:			ge: Mature			Ins	tream Ve	g: None 🗌	Algae 🗌 I	Moss 🗹	Vascular 🗌
					********		**********					
200			l	1 = .	F 1 3	***************************************	<u> </u>		T			
Site Number	Capture Method	Number of Events	Length fished (m)	Tota		Voltage	s	pecies	Total Fish	Minimu Length (r		Maximum Length (mm)
38	<b>E</b> F	1	150	313 s		600	+	NFC	0			
	L		<u> </u>	1					1			
Roll# 5, Fran	ne# 7, CD# 1	l, Image#78,	Direction: Ups	tream. S	cale/0	Comment	:cam	bag - sh	owing cobb	le channel	area	
Roll# 5, Fran	ne# 8, CD# 1	l, Image#79,	Direction: Dov	vnstream	, Scal	le/Comm	ent:ca	am bag -	showing im	pounded v	water a	
			falls almost to									
			at to sustain is significant. Ot									
Habitat - non			angular or det									
copple												
1												
L												

BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

ILP# 70709

1.0 93L070

STREAM REFERENCING	
Gazetted Name: Local Name:	
Watershed Code: 000-00000-00000-00000-0000-0000-000-00	P#: 70709
REACH	
Reach #: 1.0 UTM{Zone/East/North}: 9.692797.6055412 Sample Type:	Biased
Length (km): .27 Coupling: Magnitude: BGC Zone:	5.0360
Gradient (%): 5.6 Confinement: Occasionally Con Order: 1 Open water:	
US Elev (m): 1198 Islands: Riparian Vegetation:	
Bars: None Side Diagonal Mid-channel Span Braid Landuse:	
SITE	
Site #: 39         Field UTM 9.692823.6055643         Agency: C016         Crew: SR/MJ         Date           Site Length (m): 100         GIS UTM 10.305370.6055746         Agency Name: FINS Consulting Ltd.	2002/07/08
CHANNEL	
No Vis.Ch.: ✓ Intermittent: Avg Min Max # Avg Min	Max #
Dewatered: Tribs.: Channel Width (m): 0.00 0 0 0 Gradient %: 0.00 0	0 0
Stage: Low     Wetted Width (m):   0.00   0   0     Pool Depth (m):   0.00   0	
Med Turbidity.: Turbid High Temp (C): pH: Conductivity: Moderate	= =
MORPHOLOGY	
Bed Material: Dominant: D95 (cm): Bars: Non Side Diagonal Mid-chann	el 🗌 Span 🗌
Subdominant: D (cm):	Braid 🗌
Channel Pattern: Islands: DISTURBANCE O1 B1 B2 B3 D1 D2	D3_
Coupling: INDICATORS	
Confinement: C1 C2 C3 C4 C5 S1 S2 S3 S4	S5
Morphology:	
COVER	_
Total Cover: Type: SWD LWD B U DP OV IV	]
LWD: Amount: Location: P/S/O: Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control	_
LWD Dist:	FSZ:
	rown Closure
Left Bank: Shape: Texture: Fines Gravel Cobble Boulder Rock Manmade	
Right Bank: Rip.Veg: Stage:  Left Bank: Rip.Veg: Stage: Instream Veg: None Algae Mos:	Vascular
Left Bank: Rip.Veg: Stage: Instream Veg: None Algae Mos:	
site = mouth. not an FPC stream, no fish habitat or passage, no fluvium or continuous channel bed. Other - none	
The annual recent is a second, the first manual or passage, the fluviorit of continuous chairner sed. Other - none	

BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

ILP#

		STR	EAM	REF	ERE	NCIN	G					
Gazetted Nam	10:					Local N	ame:	:				
Watershed Co	ode: 480-802100-4300	00-00000-0000-0000-00	0-000-0	00-000-	000-000	)	Щ	.P Map #:		ILI	P #:	
				REA(	<b>:</b> #							
Reach #: 1.0	)	UTM(Zone/East/N	orth): 10	.308019	9.60555	27		S	ample	Type:	Biase	d
Length (km):	.22	Coupling:		Mag	initude:				BGC	Zone:		
Gradient (%):		onfinement: Confined Islands:		<b>D</b> :-	Order			O	pen wa	ter:		
US Elev (m): Bars: None			1	ПВ		egetatio						
Dars: None	_ Side Diagona	ii [ ] Miki-Channei [	j Span			Land	use:			********		
City at	o Fina	11731 40 200405 6055	ena	SIT	***********	60	46	Constant	en.	D-4	2002/07	107
Site #: 4 Site Length (		UTM 10.308105.6055 S UTM 10.308174.6055			•	ncy: C0 ency Nan		Crew: MJ INS Consulting Ltd	/SR	Date:	2002/07	101
	•			HAN		,						
No Vis.Ch.:	/ Intermittent:		Avg	Min	Max	#			Avg	Min	Max	#
Dewatered:	Tribs.:	Channel Width (m):	0.00	0	0	0	1	Gradient %:	0.00	0	0	0
Stage: Low	٦ .	Wetted Width (m):	0.00	0	0	0		Pool Depth (m):	0.00	0	0	0
Med	<u> </u>	Bankfull Depth (m):	0.00	0	0	0	ļ	Turbi	dity.:	Turbid		Low
High [	Temp (C):	pH:			Conducti	ivity:			М	oderate		lear
			MOI	(PH)	)LOC	Y			_			
Bed Material:	Dominant: ubdominant:	D95 (cm):			Bars: N	on 📙	Sid	e Diagonal _	_ Mid	-channe	_	pan 📙
		D (cm):		DICTL	DDANO	- 04	_	4 DO DO	D4	D0 1		raid 🔲
Channel Pat Coup		islands:			RBANC CATORS		<u>B</u>	1 B2 B3	D1	D2	23	
Confinen	<del>-</del>			C1	C2	cs c	24	C5 S1 S2	S3	S4	S5	
Morpho	logy:											
				COV	ER							
Total Cover:		Type:	SWD	LWI	D	В	บ	DP C	)V	IV	]	
LWD:		Amount:									]	
LWD Dist:		Location: P/S/O:			الباللا		للل	الللباللا			FS	z: 🗌
Right Bank:	Shape:		=	Cobble	=	ilder 🗌		= =		C	rown Clo	sure
Left Bank:	Shape:	$\Box$	avei 🔝	Cobble	Bou	llder[]	Roc	k Manmade _	i			
Right Bank: Left Bank:	Rip.Veg: Rip.Veg:	Stag Stag				Inst	tream	Veg: None 🗌 /	Ngae [	Moss	☐ vas	cular 🗌
L											_	
Rol# 2, Fram	ne# 10, CD# 1, Imag	ge#24, Direction: Up	stream,	Scale	Comm	ent:cam	n bag	)				
		ge#25, Direction: Do th. seepage in 30m						annal na fluidum		nico o	nd stick	
		est floor. Other - No			ii uisco	Hulluou	15 GI	anner, no noviun	ii - uiga	ancs a	IIO SUCK	5,
1												
												i
1												
												į

BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

ILP#

1.0 93K.061

		STR	EAM	REF	ERE)	(CI)	4 G						
Gazetted Name:	Vatershed Code: 000-00000-00000-0000-0000-0000-000-000												
Watershed Code: 000-00	0000-00000-000	0-0000-0000-0	00-000-0	00-000-0	000-000		ILP	<b>Map #:</b> 93K.0	)61	Ш	#	61748	
			1	REAC	: #								
Reach #: 1.0 Length (km): .66 Gradient (%): 5.9 US Elev (m): 1153	Cou Confine Is	TM(Zone/East/N upling: ement: Confined slands:	_	Mag Ripa	0.605453 nitude: Order: arian Ve	1	on:		Sample BGC Open w	Zone:	Bia	sed	
Bars: None Side	_ Diagonal	Mid-channel _	Span	Bra	aid 🔝	Lan	duse:						
				SIT	<b>.</b>								
Site #: 41 Site Length (m): 100		1 10.308012.605 M 10.307936.605			-	ncy: C ncy Na		Crew: S Consulting	MJ/SR Litd.	Date:	2002/	07/07	
			C	HAN	NEL								
No Vis.Ch.: Intermit	= —	nannel Width (m):	Avg 0.00	Min 0	Max 0	#	7 -	Gradient	Avg %: 19.50	Min 7	Max 32	# 2	
Stage: Low		Vetted Width (m):		0	0	0	1 F	Pool Depth (r		0	0	0	
Med	emp (C):	ankfull Depth (m) pH:	0.00	0	0 Conducti	0 vitv:	] -	Τι	rrbidity.:	Turbid Moderate		Low Clear	
		F	MOF	~~~~							_ 		
Bed Material: Dominant: D95 (cm): Bars: Non Diagonal Mid-channel Span Coupling: Blands: DISTURBANCE O1 B1 B2 B3 D1 D2 D3 INDICATORS													
Coupling: Confinement: Morphology:				C1			C4 C	:5 S1 S	\$2 S3	\$4 	S5	1	
				COV	E R							,	
Total Cover:		Type:	SWD	LWD		В	U	DP	OV	ΙV	1		
LWD:	Γ-	Amount: Location: P/S/O:							111		]	· 67. []	
LWD Dist:  Right Bank: Shape: Left Bank: Shape: Right Bank: Rip.Veg:		ture: Fines G	ravel	Cobble Cobble	_	ider	Rock	Manmade		_	own C	SZ:	
Left Bank: Rip.Veg:		Sta	ge:			in	sueam v	eg: None	J AIGAE I	IVIOSS		ascular _	
Roll# 2, Frame# 12, CD Roll# 2, Frame# 13, CD NCD, drains valley than No fish habitat	# 1, Image#2	7, Direction: Do	wnstrea	m, Sca	le/Com	ment:	cam ba	g	banks.	site = U	FM. O	ither -	

BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

ILP#

93K.061

			SIR	E A M	KEF	ERENC	ING			
Gazetted Nan	1e:					Lo	cal Name:			
Watershed Co	ode: 000-0000	00-0000-000	00-0000-0000-0	00-000-00	00-000	000-000	ILI	P Map #: 93K.06	51 IL	₽#: 61749
				F	EAC	C H				
Reach #: 1.0	)	บา	M(Zone/East/N	orth): 10.	306830	0.6054843			Sample Type:	Biased
Length (km):	.17	Cou	pling:		Mag	gnitude:			<b>BGC Zone:</b>	
Gradient (%):		Confine	ment: Frequenti	y Confin		Order: 2		•	Open water:	
US Elev (m):	1145	isi 	ands:	_	Rip	arian Vege	tation:			
Bars: None	Side	Diagonal	Mid-channel	Span			anduse:			
					SIT	E				
Site #: 4			10.306975.605 10.306973.605			Agency: Agency		Crew: S US Consulting Li		2002/07/08
				C	HAN	NEL				
No Vis.Ch.:	Intermitte	nt: 🔲 _		Avg	Min	Max	#		Avg Min	Max #
Dewatered:	Trib		annel Width (m):	-	0.400		<u>6</u> [	Gradient %	3.25 2	4 4
Stage: Low[		· · · · · · · · · · · · · · · · · · ·	etted Width (m):		0.400	<del></del>	6	Pool Depth (m	0.17 0.04	0.340 6
Med		Ва	nkfuli Depth (m)	0.17	0.1	0.2	3	Tur	bidity.: Turbid	Low _
High [	Ter	np (C): 10	pH: 7.9		(	Conductivity	: 20		Moderate	Clear 🗹
				MOR	PHC	LOGY				
Bed Material:			D95 (cm): 25			Bars: Non	<b>✓</b> Side	Diagonal	Mid-channe	_ =
l	ubdominant: 0	Bravels	D (cm): 3	.00						Braid
1	tern: Sinuous		Islands: Fr	equent		RBANCE	O1 B1	B2 B3	D1 D2	D3
1 '	ling: Decouple					CATORS [				
ł	nent: Occasion logy: CP = 6	Cascade Pool		-	C1	C2 C3	C4 (	C5 S1 S	2 S3 S4	S5
Morpho	logy. Ci	De30208 1 (0)		-						
				•	OY	ER				_
Total Cover: N	Moderate		Туре:	SWD	LWI		U	DP	OV IV	4
LWD: F	ew	<del>- 1</del>	Amount: ocation: P/S/O:	T	T	S	N	D	TN	_
LWD Dist: I	Evenly Distribu	ted	Jozanon. Franc.				الللال			FSZ:
Right Bank:	Shape: V -	-	ire: Fines 🗹 Gi			_		=	<b>=</b>	rown Closure
Left Bank:	Shape: V -		ıre: Fines 🗹 G	_			Rock	Manmade	_	41-70%
Right Bank: Left Bank:	Rip.Veg: Co Rip.Veg:	niferous		ge: Matur ge: Matur			In-dec 1	Nama 🗀	Algae Moss	. <b></b>
Len Darik.	Trip. veg.			der Merrine	) IVI (S)		IIISUBAIII	veg. None 🗀	wifae [ ] iatos:	Vascular L
					FIS	H				
Site Number	Capture	Number of	Length fished	Tota		Voltage	Species		Minimum	Maximum
	Method :	Events	(m) 120	Time		200	0.7	Fish	Length (mm)	Length (mm)
42	EF	1	120	204 s	вс	600	СТ	4	71	131
Rol# 2, Fram frequent subf flow. site = m	ne# 17, CD# low, but CT louth. Overw	1, Image#31 present in po intering Habi	tat - none - too	wnstrea h. CT ca o shallow	m, Sca ught to r, lacks	ale/Commo o end of R s flow - bet	ent:cam b 1. cobble ter near u	pools general	ly quite shallov r wetland. Rea xasional grave	ring Habitat -

BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

ILP#

2.0 93K.061

		STR	EAM	REF	ERE	YCIN	G					
Gazetted Nam	e:					Local N	ame	:				
Watershed Co	de: 000-000000-0000	0-0000-0000-0000-00	0-000-0	00-000-	000-000	٠	I	LP Map #: 93K.061		IL	P#: (	61749
				REA	2.81							
Reach #: 2.0	)	UTM(Zone/East/N	orth): 9.1	693523.	6054762	2	******	S	ample	Туре:	Biase	ed
Length (km): .	.69	Coupling:	•		gnitude:				BGC			
Gradient (%):	2.9 <b>C</b>	onfinement: Occasiona	aily Con		Order:	2		Oį	pen wa	ter:		
US Elev (m):	1172	Islands:		Rip	arian V	egetatio	n:					
Bars: None	Side Diagona	al Mid-channel	Span	В	raid 🗌	Land	use:					
				SIT	E							
Site #: 4 Site Length (r		UTM 10.306691.6054 S UTM10.306698.6054			-	ncy: C0 incy Nar		Crew: SR INS Consulting Ltd	/MJ	Date:	2002/0	7/08
· ·	•		······································	HAN		•						
No Vis.Ch.:	Intermittent:		Avg	Min	Max	#	****** 		Avg	Min	Max	#
Dewatered:	Tribs.:	Channel Width (m):	0.00	0	0	0	1	Gradient %:	0.00	0	0	0
Stage: Low		Wetted Width (m):	0.00	0	0	0	1	Pool Depth (m):	0.00	0	0	0
Med Med		Bankfull Depth (m):	0.00	0	0	0	]	Turbi	ditv.:	Turbid		LOW
High [	Temp (C):	pH:			Conducti	vity:		14.0.	-	oderate	=	Clear 🗌
			MOI	<b>RPH</b> (	LOC	Y						
Bed Material:	Dominant:	D95 (cm):			Bars: N	on 🗌	Sic	le 🗌 Diagonal 🛭	] Mid-	-channe	ı 🗌 s	ipan 🔲
St	ubdominant:	D (cm):									B	raid
Channel Pati	lem:	Islands:			RBANC		E	1 B2 B3	D1	D2 1	D3_	
Coup	ling:			INDIC	CATORS	لسلسا	$\perp$					
Confinen				C1	C2	C3 C	4	C5 \$1 \$2	S3	S4	S5_	
Morphol	logy:						Ш					
				COV	ER							
Total Cover:		Туре:	SWD	LWI	D	В	Ü	DP C	)V	IV	]	
LWD:		Amount:										
LWD Dist:		Location: P/S/O:					1				FS	z: 🗌
Right Bank:	Shape:	Texture: Fines G	avel	Cobble	Bou	lder	Roc	k Manmade	]	С	rown Clo	sure
Left Bank:	Shape:	Texture: Fines G	avel	Cobble	☐ Bou	ılder	Roo	k 🔲 Manmade	]			
Right Bank:	Rip.Veg:	Stag	ge:						_	_	_	_
Left Bank:	Rip.Veg:	Stag	3e:			Inst	rean	n Veg: None 🗌 /	Ngae _	Moss	. ☐ Vas	cular _
stream gets n	nost water from this	ge#32, Direction: Up s bog, NFC up to site POD. no overwinter	UTM a	anyway	, but ch	annel o 66/NCD		ther - none	eadow	with n	o fish h	abitat

#### BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

ILP#

1.0 93K.061

						X - 100	e:K:E:	*******	*********						
Gazetted Nam								Locai	Name:	- 14	- #- 00V 0	~4	IL P		24750
Watershed Co	de: 000-0000	00-00000-0	0000-0000-0	000-000					Ш	P Ma <sub>l</sub>	p #: 93K.0	51	ILP	ar: t	31750
					*	E A (	. 11								
Reach #: 1.0	)		UTM(Zone/E	ast/Nor	rth): 10.	306980	).605431	6				Sample	• -	Biase	d
Length (km):			oupling:			Mag	mitude:					BGC			
Gradient (%):		Confi	nement: Und	confined		<b>-</b> 2-	Order:					Open wa	ter:		
US Elev (m):			islands:	. —	_ [	_	arian Ve	-							
Bars: None	_ SideI	Diagonal L	_ Mid-chan	nel 📋	Span (	SIT	aid 🔲	Lan	duse:						
0:1	• •		31.40.00000	0.00547		****			·nae		Crave 6	R/MJ	Dete	2002/07	7 IN 9
Site #: 4 Site Length (			TM 10.30698 TM 10.30690				•	ncy: C ncv Na		NS C	Crew: Sonsulting L		Date.	2002/01	700
Ole Length (	111): 100	0.00	1111 10:0000			HAN			21110						
No Vis.Ch.:	Intermitte	nt- 🗆		Γ	Avg	Min	Max	#	7	*****		Avg	Min	Max	<b>#</b>
Dewatered:	Tribs	= <b>—</b>	Channel Wid	th (m):	1.43	0.7	2	6	٦ г		Gradient 9	<del></del>	1	2	4
Stage: Low	 _		Wetted Wid	<u> </u>	1.35	0.5	1.700	6	7 F	Poc	ol Depth (n	): 0.16	0.16	0.16	1
Med Med	<u></u>		Bankfull Dep	th (m):	0.27	0.2	0.3	3	]		Tu	rbidity.:	Turbid	7	LOW
High	=	np (C): 7	pН	: 8.2		(	Conducti	vity: 40	)			M	oderate[	<u> </u>	Clear 🗸
	_				MOR	PHC	) L O G	Y							
Bed Material:	Dominant: F	ines	D95 (c	m): 2.0	ю		Bars: N	on 🗸	Side	, 🗌	Diagonal	Mid	-channel	□ s	pan 🗌
s	ubdominant: G	Gravels	D (c	m): 0.5	<b>50</b>									8	raid 🗌
Channel Pat	tern: Sinuous		Islar	ds: Occ	аѕіопа	_	RBANC		1 B1		B2 B3	D1	D2 D	3	
Coup	ling: Partially	Coupled				INDIC	CATORS								
ł	nent: Occasion	•	е		_	C1	C2	СЗ	C4	C5	S1 S	2 S3	S4	S5	
Morpho	logy: RP F	Riffle Pool			-										
						3 O Y	ER								
Total Cover: 1	Frace .		<u> </u>		SWD	LWI		В	U	$\perp$	DP	OV	IV		
Total Cover: Trace Type: SWD LWD B U DP OV IV  LWD: Abundant LWD Dist: Evenly Distributed Location: P/S/O: DISTRIBUTION FSZ:															
LWD Dist:	Evenly Distribu	uted	COCABOIL P	13.0.			<u>الـالـال</u>	_! <u> </u>			عالاا			] FS	Z: 📋
Right Bank:	Shape: V -		exture: Fines		=	Cobble	=	ider	Rock	_	Manmade	=	Cr	own Clo	
Left Bank:	Shape: Slo		exture: Fines			Cobble	_	ider	Rock	ïЦ	Manmade	Ш		41-	70%
Right Bank: Left Bank:	Rip.Veg: Co Rip.Veg:	niferous		•	e: Matun e: Matun			tr	stream	Vec:	None _	Algae	Moss	□ vas	cular
20112	1p. 2 0g.			<b>-</b>			E A I			·- <b>J</b> ·		3			_
NID Map	NID Type	Hgt	Method	Lg	Meth			oto	1	U	TM (Z/E/N	, T	Method	7	
	30441 BMA	<del>                                     </del>	AL		GE	R		F:			6907.605		GIS	7	
Comments:	mapped wron	ng, utm ≃ n	nap utm of m	outh	<u> </u>										
						FIS	H								
Site Number	Capture	Number o			Tota		Voltag	е	Specie	s	Total	1	num	1	dmum
	Method	Events	1 ,	- 1	Time	i i			NEO		Fish	Lengt	h (mm)	Leng	th (mm)
44	EF	1	150	U	182 s	ec (	600	i	NFC	1	0	1		<u> </u>	
Roll# 2, Fran Roll# 2, Fran site = UTM = substrate ain Overwinterin shallow, stan used, would	ne# 15, CD# mouth (map nost all organ g Habitat - n nding water o	1, Imager oped wron nic fines, o one - shal over organ	#29, Direction of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the	on: Dov width = n orang nal. Spa	wnstrea = wide : e algae awning	ım, Sc standii e. little Habita	ale/Con ng pook flow - w at - non	nmen s over vater i e - no	t:cam t r algae, from gu suitab	, orga uilly v le su	vall perco ibstrate. I	lation. no Rearing I	mosqu Habitat	iitoes. - poor -	
L															

BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

ILP#

0 93L.060

	SIKEAM	REFERENCING		
Gazetted Name:		Local Nan	ne:	
Watershed Code: 000-000000-0000	0-00000-0000-0000-000-000-00	0-000-000-000	ILP Map #: 93L.060	ILP#: 60708
	ţ	EACH		
Reach #: 1.0	UTM(Zone/East/North): 9.6	92369.6053966	Sample	
Length (km): .16	Coupling:	Magnitude:	BGC 2	
, ·	onfinement: Confined Islands:	Order: 1 Riparian Vegetation:	Open wat	ter:
US Elev (m): 1202  Bars: None Side Diagona	FT		a.	
Dars. Note   Side   Diagona		SITE	c.	
Site #: 45 Field	UTM 9.692348.6053848	Agency: C016	Crew: MJ/SR	Date: 2002/07/09
į.	S UTM 10.304743.6053972		FINS Consulting Ltd.	
	C	HANNEL		
No Vis.Ch.: Intermittent:	Avg	Min Max #	Avg	Min Max #
Dewatered: Tribs.:	Channel Width (m): 0.00	0 0 0	Gradient %: 0.00	0 0 0
Stage: Low	Wetted Width (m): 0.00  Bankfull Depth (m): 0.00	0 0 0	Pool Depth (m): 0.00	0 0 0
Med∐   High	pH:	Conductivity:	Turbidity.:	Turbid Low Low Clear
Light Temp (C)	·	PHOLOGY	193	oderate Cicar C
Bed Material: Dominant:	D95 (cm):		Side Diagonal Mid-	channel Span
Subdominant:	D (cm):		and a surgenum a mine	Braid
Channel Pattern:	Islands:	DISTURBANCE 01	B1 B2 B3 D1	D2 D3
Coupling:		INDICATORS		
Confinement:	-	C1 C2 C3 C4	C5 S1 S2 S3	S4 S5
Morphology:	-			
		COVER		
Total Cover.	Type: SWD	LWD B	U DP OV	iV
LWD:	Amount:			
LWD Dist:				FSZ:
Right Bank: Shape:  Left Bank: Shape:		= =	ock Manmade Ock Manmade	Crown Closure
Right Bank: Rip.Veg:	Stage:	000010[1000001[10	ock mainitedo	
Left Bank: Rip.Veg:	Stage:	Instre	am Veg: None 🗌 Algae 🗌	] Moss [] Vascular [
		· · · · · · · · · · · · · · · · · · ·		
Roll# 4, Frame# 10, CD# 1, Imag			pag	
site = UTM. mostly underground	draw in guily. Other - No is	n nadnat		

BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

!LP#

1.0 93L.060

		STR	EAM	REF	ERE)	(C)	G					
Gazetted Name:	:					Local	Name:					
Watershed Code	e: 000-000000-0000	0-0000-0000-0000-00	0-000-00	00-000-	000-000		ILF	Map #: 93L.060		ILP	#:	60709
			,	REA(	H							
Reach #: 1.0 Length (km): .5 Gradient (%): 7.		UTM(Zone/East/No Coupling: onfinement: Frequently	•		6054212 mitude: Order:				ample BGC a	Zone:	Bias	ed
US Elev (m): 12	225	Islands:	_	Rlp —	arian Ve	egetati	on:					
Bars: None	Side Diagona	l Mid-channel	Span	□ Ві	aid 🗌	Lan	duse:					
				SIT	E							
Site #: 46 Site Length (m		UTM 9.692142.60538 S UTM 10.304469.6053			-	ncy: C ncy Na		Crew: MJ IS Consulting Ltd	/SR	Date:	2002/	)7 <i>1</i> 09
			C	HAN	NEL							
No Vis.Ch.:	Intermittent:		Avg	Min	Max	#	] _		Avg	Min	Max	#
Dewatered:	Tribs.: 🔛	Channel Width (m): Wetted Width (m):	0.00	0	0	0	┨┠	Gradient %: Pool Depth (m):	0.00	0	0	0
Stage: Low		Bankfull Depth (m):	0.00	0	0	0	┧┖	Turb	<b></b>	Turbid∫	<u> </u>	LOW□
High [	Temp (C):	pH:			Conducti	vity:	_	, Taib	•	oderate[	<b>=</b>	Clear
			MOF	(PHC	) L (2) G	Y						
Bed Material: Sub	Dominant:	D95 (cm): D (cm):	·		Bars: N	on 🗌	Side	Diagonal [	Mid-	channel		Span 🗌 Braid 🔲
Channel Patte	m:	Islands:		DISTU	RBANCI	E _0	1 B1	B2 B3	D1	D2 D	3_	
Couplin	-				CATORS		Ш					
Confineme Morpholog				C1	C2	C3	C4 +	C5 S1 S2		S4	\$5 	
Morbioo	97-					الا			ليال		ا لــا	************
				COV							· · · · · · · · · · · · · · · · · · ·	
Total Cover:		Type:	SWD	LWI	-	В	U	DP (	×	īV		
LWD: LWD Dist:		Location: P/S/O:		ılı			T I				F	sz:
Right Bank:	Shape:	Texture: Fines Gr	avel	Cobble	☐ Bou	lder	Rock	Manmade	] ]	Cn	own C	
Left Bank:	Shape:		avel	Cobbie	=	lder	;	= =	j			
	Rip.Veg:	Stag								<b>-</b>		. –
Left Bank:	Rip.Veg:	Staç	je:			in	stream '	Veg: None	Algae L	Moss	Va	iscular L
site = UTM = P	OD. NCD - discor	#70, Direction: Ups ntinuous drainage, n m Pierre C. Other - N	o fluviu	m, no t				y wali, no conn	ectivity	to Pien	re C.,	

BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

ILP# 60710

.0 93L.060

						STR	EAM	RE	FE	RE	V C I	NG						
Gazetted Na	ıme:						-				Loca	l Nam	e:					
Watershed (	Code: 00	00000-00000	00-00000	)- <b>0</b> 00	00-0000-	000-00	0-000-0	00-00	0-0	00-000	,		ILP M	ap #: 93L.060	)	ILF	*	60710
								RE/	V.	H								
Reach#:	ı n			111	TM(Zone	Eact/Na	orth): O	60404	26	05222	**************************************	*******	******		Sample	Tunai	Bias	ad
Length (km)					pling:	Easund	жиу. э.			vsszz nitude:				•	BGC		bias	ec
Gradient (%)	-		Co		ment; Fr	equently	/ Confin		_	Order:				o	pen wa			
US Elev (m	): 1235			ls	lands:			R	lpa	rian Vo	egeta	tion:						-
Bars: None	Sic	le 🗌 I	Diagonal		Mid-cha	nnel 🗌	] Span		Bra	id 🗌	La	nduse	<b>:</b> :					ł
								<b>S</b> I	T E									
Site #	: 47		Field	UTM	9.69157	8.60536	57			Age	ncy: (	C016		Crew: M.	/SR	Date:	2002/0	7/09
Site Length	n (m): 20	0	GIS	UTN	110.3038	96.6053	873			Age	ncy N	lame:	FINS	Consulting Ltd	j.			l
							C	HA	NA	IEL								
No Vis.Ch.:	: In	termitter	nt:				Avg	Min	П	Max	#	$\neg$			Avg	Min	Max	T #
Dewatered:		Tribs	:: 🗆 [	Ch	annel Wid	ith (m):	0.67	0.5		0.800	6			Gradient %:	4.25	3	5	4
Stage: Low			[		etted Wid	` ` '	0.62	0.5		0.7	6	$\Box$	Po	ool Depth (m):	0,19	0.11	0.340	3
Med         Bankfull Depth (m):         0.13         0.1         0.2         3         Turbidity.:         Turbidity.:         Turbid         Low           High         Temp (C):         6         pH:         7.0         Conductivity:         20         Moderate         Clear ✔																		
MORPHOLOGY																		
Subdominant: Gravels D (cm): 2.00 Braid																		
Channel P	Channel Pattern: Irregular, Wandering Islands: None DISTURBANCE O1 B1 B2 B3 D1 D2 D3																	
Coupling: Partially Coupled INDICATORS																		
Godping. I distany Godpied																		
Morpi	Morphology: RP Riffle Pool COVER																	
Total Cover: Abundant Type: SWD LWD B U DP OV IV																		
Total Cover	LWD: Few Amount: S T N D T T N																	
LWD: Few Amount: S T N D T T N																		
LWD: Few LWD Dist: Evenly Distributed  Amount: S T N D T T N  Location: P/S/O: D D D D D D D D D D D D D D D D D D D																		
Right Bank	: Sh	ape: Und	dercut	Text	ure: Fines	Gr	avel	Cobb	le [	Bou	ider	Ro	ock 🗌	Manmade	]	Cr	own Cl	osure
Left Bank	_	ape: Und		Text	ure: Fines	Gr.	avei	Cobb	)ele	Bou	lder	Ro	xck 🗌	Manmade	]		21	-40%
Right Bank		/eg: Cor	riferous			-	e: Matu					_		🗔		٦	п.,	
Left Bank	: Rip.\	/eg:			***********	Stag	e: Matu	re tore					m Veg	r: None 🗹	Algae L	_ Moss	Va	scular 🔲
										E A T	UR	ES						
NID Map	NID	Туре	Hgt	1'	Method	Lg	Met		= 1	Ph	oto			JTM (Z/E/N) 91500.605370		Method	4	
093L_060	30472 s:[Mouth	BMA	n in east	nf si	AL to LITM	<u> </u>	GE		R:		F:		9.63	91500.605370	N	GIS		
NID Map	NID	Type	Hgt		Viethod	Lg	Meti	hod I		Dh	oto			JTM (Z/E/N)		Method	_	
093L.060	30471	С	4.0	+	AL	15	GE		R:	4		3		91511.605367		GIS	-	
Comment			<u>.                                      </u>	ow, ii														
				******				****	***									
Site Numbe	г Сар	41,000	Numbe		l and	Seb	▼4	# )	****	***********		<b>C</b>		Total			B.S.	winnur
Jum Humpe		thod	Even		Length (m		Tot Tim		1	Voltag	٠	Spec	.æs	Total Fish	Minir Lengti		1	ximum gth (mm)
47	E	F	1		20		274	Sec		800		NF	С	0				
Roll# 4, Fra	me# 1,	CD# 1,	, Image	#62,	Directio	n: Upst	ream, S	Scale	/Co	mmei	nt:cai	m baç	)					
Rol# 4, Fra Rol# 4, Fra														scade in fea	tures			
site = UTM.																scade	near n	nouth.
Overwinteri																		

#### BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

ILP#

931..060

Reach #: .1							STR	E A M	e F	ER	EN	C)	NG							
Reach #: .1	Gazetted Nam	e:									L	oca	l Nam	e;						·
Reach #: .1	Watershed Co	de: 000-	00000	0-00000-0	9000	0-0000-0	000-00	0-000-00	0-000	-000-4	900		1	ILP M	ap #: 93L.0	060		ILP	套:	60711
Coupting: Coupting: Coupting: Proquently Confined (%): 6.7   Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently								R	ΕA	CH										
Coupting: Coupting: Coupting: Proquently Confined (%): 6.7   Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently	Reach # 1	***********	*********		UΠ	M/Zone/I	ast/No	vth): 9.6	91524	6053	792	*****		********	•	Sar	nole	Type:	Bias	ed
Gradient (%): 6.7   Confinement: Frequently Confin   Gorder: 2   Open water:		09		c		•		,. 0.0									•	• •		
Site #: 48						-	quently	Confin		_		2				Оре	n wa	ter:		
SITE	US Elev (m): 1	1201			Isla	ınds:			Rij	oariar	Veg	jeta	tion:							
Site #: 48   Site   Agency   Co16   Crew: MJ/SR   Date: 2002/07/09	Bars: None	Side		iagonal [	] ;	Mid-chan	nel 🗌	Span [	B	raid		La	nduse	:						
No Vis.Ch.:   Intermittent:   Channel Width (m): 1.07									SIT	E										
No Vis.Ch.:	Site #: 4	8		Field U	TM :	9.691599	.60536	68		P	geno	:у:	C016		Crew:	MJ/S	R	Date:	2002/0	7/09
No Vis.Ch.:	Site Length (r	n): 200		GIS L	MTL	10.30388	8.6053	927			\gen	cy h	Name:	FINS	Consulting	Ltd.				
Dewatered:								C)	HAN	NE	L									
Wetted Width (m): 1.05	No Vis.Ch.:	Inter	mitten	t: 🗌				Avg	Min	Ma	x	#				Ī	Avg	Min	Max	#
Bankfull Depth (m): 0.20	Dewatered:	]	Tribs.	: 🗆 🔼	Cha	nnel Wid	th (m):	1.07	0.7	1.	4	6			Gradient	%: :	2.25	2	3	4
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Bed Material: Dominant: Gravels Subdominant: Cobble D95 (cm): 13.00 Bars: Non	Med 🗸	Ž			Ban	ktuli Dep	th (m):	0.20	0.2	J 0.	2				T	urbidil	ty.:	Turbid	_	Low
Bed Material: Dominant: Gravels Subdominant: Cobble D (cm): 3.00 Bars: Non Side D Diagonal Mid-channel Span Braid  Channel Pattern: Irregular, Wandering Coupling: Decoupled Confinement: Unconfined Morphology: RP Riffle Pool  Total Cover: Abundant LWD: Few LWD Dist: Eventy Distributed Right Bank: Shape: Undercut Left Bank: Shape: Undercut Left Bank: Rip. Veg: Gravel Gravel Cobble Boulder Rock Manmade Crown Closure Left Bank: Rip. Veg: Stage: Mature forest Left Bank: Rip. Veg: Stage: Mature forest NID Map NID Type Hgt Method Lg Method Photo UTM (Z/E/N) Method 093L.060 30482 BMA AL GE R: 4 F: 6 9.691519.6053784 GIS  Comments:   7m @ 15% - impassable to fish   15% - impassable to fish   15% - impassable to fish   15% - impassable to fish   15% - impassable to fish   15% - impassable to fish   15% - impassable to fish   15% - impassable to fish   15% - impassable to fish   15% - impassable to fish   15% - impassable to fish   15% - impassable to fish   15% - impassable to fish   15% - impassable to fish   15% - impassable to fish   15% - impassable to fish   15% - impassable to fish   15% - impassable to fish   15% - impassable to fish   15% - impassable to fish   15% - impassable to fish   15% - impassable to fish   15% - impassable to fish   15% - impassable to fish   15% - impassable to fish   15% - impassable to fish   15% - impassable to fish   15% - impassable to fish   15% - impassable to fish   15% - impassable to fish   15% - impassable to fish   15% - impassable to fish   15% - impassable to fish   15% - impassable to fish   15% - impassable to fish   15% - impassable to fish   15% - impassable to fish   15% - impassable to fish   15% - impassable to fish   15% - impassable to fish   15% - impassable to fish   15% - impassable to fish   15% - impassable to fish   15% - impassable to fish   15% - impassable to fish   15% - impassable to fish   15% - impassable to fish   15% - impassable to fish   15% - impassable to fish   15% - impassable to fish   15% - impassable to fish   15% - impassable to fish   15%																				
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Roll# 4, Frame# 4, CD# 1, Image#65, Direction: Upstream, Scale/Comment:cam bag Roll# 4, Frame# 5, CD# 1, Image#66, Direction: Downstream, Scale/Comment:cam bag Roll# 4, Frame# 6, CD# 1, Image#67, Direction: Upstream, Scale/Comment:cam bag - FSB in features site = UTM. Overwintering Habitat - none - too shallow. Rearing Habitat - good potential in nice CB/P cover. Spawning Habitat suitable gravels present and cover	Roll# 4, Fram Roll# 4, Fram site = UTM. C	e# 5, C e# 6, C Verwin	:D# 1, :D# 1, tering	Image# Image# Habitat	66, l 67, l - no	Direction Direction	n: Dow n: Upsi	nstream tream, S	n, Sca icale/	ile/Ci Com	omm men	eni t:ca	t:cam im bag	bag g - FS	SB in feat n nice CB	ures /P co	ver.	Spawni	ng Ha	bitat -

BFP FFHI 2002/03 - Pierre/Twain Resampling

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Evenly Distribu Shape: Un Shape: Un Rip.Veg: Sh	uted idercut Texti idercut Texti	ure: Fines 🗹 Grure: Fines 📝 Gr	ravel 🔲 ( ge: Not Ap	Cobble Cobble oplicable oplicable	Bould le le	er R	ock _	Manmade Manmade	Algae [	Cn Moss	own Clo 41- Vas Max	sure 70%
Evenly Distribu Shape: Un Shape: Un Rip.Veg: Sh Rip.Veg:	idercut Texti idercut Texti idercut Texti inubs	ure: Fines  G Grure: Fines  G Grure: Fines  G Grure: Fines  G Grure: Stag	ravel ge: Not Ap ge: Not Ap	Cobble Cobble oplicable op	Bould de de	er Rer R	ock Ock Ock Ock Ock Ock Ock Ock Ock Ock O	Manmade Manmade St. None Total	Algae [	Cn Moss	own Clo 41- Vas Max	sure 70% scular
	ode: 000-0000  .11 6.4 .1208	ode: 000-00000-0000-0000  0 UT .11 Coup 6.4 Confined 1208 Isl  A9 Field UTM (m): 100 GIS UTM  Intermittent: Ch: W Ba  Temp (C): 7  : Dominant: Fines Subdominant: Gravels attern: Irregular, Wandering pling: Decoupled ment: Unconfined blogy: RP Riffle Pool	O UTM(Zone/East/No	O	O	O	O	Note	Name	Name	Note	Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note

BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

ILP#

.0 93L.060

	STREAM	REFERENCING		
Gazetted Name:		Local Nam	ne:	
Watershed Code: 000-000000-0000	0-00000-0000-0000-000-000-0	00-000-000-000	ILP Map #: 93L.060	ILP#: 60712
		REACH		
US Elev (m): 1207	UTM(Zone/East/North): 9. Coupling: onfinement: Frequently Confin	Magnitude: Order: 1 Riparian Vegetation:	Sample T BGC Z Open wate	one:
Bars: None Side Diagona	i Mid-channel Span		P:	
	UTM 9.691519.6053794 S UTM 10.303905.6053987	Agency: C016 Agency Name:	Crew: MJ/SR FINS Consulting Ltd.	Date: 2002/07/09
	<u> </u>	HANNEL		
No Vis.Ch.:  Intermittent:    Dewatered:  Tribs.:    Stage: Low    Med	Channel Width (m): 0.00 Wetted Width (m): 0.00 Bankfull Depth (m): 0.00	Min Max # 0 0 0 0 0 0 0 0 0 0	Gradient %: 0.00 Pool Depth (m): 0.00 Turbidity.:	Min Max # 0 0 0 0 0 0 Turbid Low
High Temp (C):	pH:	Conductivity:	Mo	derate Clear
Bed Material: Dominant:		RPHOLOGY  Bars: Non S	side ☐ Diagonal ☐ Mid-c	channel Span
Subdominant: Channel Pattern: Coupling: Confinement: Morphology:  Total Cover: LWD: LWD Dist: Right Bank: Shape: Left Bank: Shape: Right Bank: Rip.Veg: Left Bank: Rip.Veg: Left Bank: Rip.Veg:	Type: SWD Amount:  Location: P/S/O:  Texture: Fines  Gravel  Texture: Fines  Stage:  Stage:	Cobble Boulder Ro	B1 B2 B3 D1 C C5 S1 S2 S3  U DP OV  ock Manmade ock Manmade am Veg: None Algae	Braid D2 D3 S4 S5 S4 S5 S5 S5 S5 S5 S5 S5 S5 S5 S5 S5 S5 S5

#### BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

iLP#

1.0

				STRI	AMR	EFEREN	CING						
Gazetted Nar	ne:					ı	ocal Nam	1e:					
Watershed C	ode: 480-802	100-64500-0	0000-0000-0	000-000	-000-000-0	000-000-000		ILP Ma	p#:		iLP	#:	
					RE	ACH							
Reach #: 1.	.0		UTM(Zone/	East/No	rth): 9.691	231.6053546				Sample	Туре:	Biasec	į
Length (km):			oupling:	6		Magnitude:	•		_		Zone:		
Gradient (%): US Elev (m):		Conn	nement: Un Islands:	contined	l	Order: Riparian Ve			0	pen wa	ater:		
Bars: None	Side	Diagonal	-	nnei 🗍	Span	Braid	Landus	e:					
		<b>. .</b>				ITE		-					
Site #:	51	Field UT	M 9.69147	5.605373			cy: C016		Crew: MJ	/SR	Date: 3	2002/07/	m9
Site Length			TM 10.30386			-	•	FINS C	onsulting Ltd		54.0.		
					CH.	ANNEL							
No Vis.Ch.:	Intermitte	ent: 🔲			Avg N	lin Max	#			Avg	Min	Max	#
Dewatered:	Trit	os.: 🗌 🗀	Channel Wid	<del></del>		300 1.8	6		Gradient %:	3.50	-	4	4
Stage: Low		<b>-</b>	Wetted Wid Bankfull Der			300 1.100	6	Poc	ol Depth (m):		0.180	0.230	3
Med High	<del></del>	mp (C): 8		t: 7.6	5.00   0	Conductiv			Turb	idity.:	_Turbid ∏oderate	= '	Low∐ lear ✔
111911		mp (O). O	рі	. 7.0	M O D D	HOLOG					MODE LA LE		1641 (V)
Bed Material	: Dominant:	Fines	D95 (c	:m): 0.1	*******	Bars: No		ide 🗌	Diagonal	Mir	d-channel		an 🗍
	Subdominant	= =	•	m): 0.1		Duis. IVO			Diagonas		J-C(18(1)16(		aid 🔲
Channel Pa	ittem: Sinuous	•	Islaı	nds: Non	e Di	STURBANCE	01	B1 _ !	B2 B3	D1	D2 D3	3	
	pling: Decoup					NDICATORS		$\Box \sqcup$					
1	ment: Unconfi ology: RP	ned Riffle Pool			C	1 C2 C	23 C4	C5	\$1 S2	S3	S4	S5	
Morph	Jiogy. 14	TABLE 1 GOT				<u> </u>		لللل		ليال		Ш	
						VER							
Total Cover:	Abundant		An	Type: nount:	SWD	LWD E		u s		D	IV T		
LWD:	None Not Applicabl	. Г	Location:									E67	:: 🗀
Right Bank:	Shape: V	-	vture: Eines	✓ Gra	wai Co	bble Boule			Manmade	<u> </u>		wn Clos	
Left Bank:	Shape: V	•	xture: Fines	_	==		=	==	Manmade	j	Git	71-9	
Right Bank:	Rip.Veg: SI	hrubs		_	: Not Appli		_	_	_	_		_	_
Left Bank:	Rip.Veg:			Stage	: Not Appli			ım Veg:	None	Algae (	✓ Moss [	Vaso	wlar 🗹
		······				FEAT							
093L.060	NID Type 30512 BD	9 Hgt   2.0	Method	Lg 60	Method	R: 3	to F: 23		TM (Z/E/N) 1401.605370	<del>6</del>	Method	4	
					1 35	14-1 2 1	-1_23	1				1	
NID Map	NID Type		Method	Lg	Method	Pho	do	U	TM (Z/E/N)		Method	1	
	30511 BD	1.0	AL	40	GE	R: 3	F: 22	9.69	1440.605371	1	GIS	<u> </u>	
Comments	temporary b	arrier to fish											
					F	ISH							
Site Number	Capture Method	Number of Events	f Length i	4	Total Time	Voltage	Spe	cles	Total Fish		imum th (mm)		mum h (mm)
51	EF	1	30		348 sec	700	C	т	7		48	_	'5
<u> </u>	<u> </u>												-

Roll# 3, Frame# 22, CD# 1, Image#58, Direction: Upstream, Scale/Commenttape - BD in features

Roll# 3, Frame# 23, CD# 1, Image#59, Direction: Across, Scale/Comment:no scale - 2nd BD in features

Roll# 3, Frame# 24, CD# 1, Image#60, Direction: Upstream, Scale/Comment:cam bag - channel in W/meadow

Roll# 3, Frame# 25, CD# 1, Image#61, Direction: Upstream, Scale/Comment.cam bag - channel near Pierre C.

if BD's breached, creek passable to lake u/s in R.3. creek provides good rearing opportunity near Pierre C., cobbles/gravels in substrate, used by CT to 1st BD obstruction. channel wider and confined near Pierre C. site = UTM = mouth. Spawning Habitat - none - fines. Overwintering Habitat - none - only in beaver ponds. Rearing Habitat - poor - incised channel in meadow/W with fast flow

BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

ILP#

			STR	EAM RE	FEREN	CINC	i					
Gazetted Nar	ne:				ı	ocal Na	me:					
Watershed C	ode: 480-802	100-66400-000	00-0000-0000-00	0-000-000-00	0-000-000		ILP M	ap #:		ILP	#:	
				RE/	CH							
Reach #: 8.		וט	M(Zone/East/No	orth): 9.68700	0.6050612				Sample	Туре:	Biase	Ė
Length (km):			pling:		agnitude:	_			BGC 2			
Gradient (%): US Elev (m):			ment: Occasiona ands:	•	Order: iparian Ve			0	pen wa	ter:		:
Bars: None		Diagonal	Mid-channel		Braid	Landus						
bars. Hone [		Diagonal [	Wild Citatines [	SI		Lande	se.					
Site #:	52	Sield LITM	9.687324.60508			cv: C016	=	Crew: MJ	/SR	Deter	2002/07	ne
Site Length			9.007324.00300 110.299479.6051		•	•		Crew. Mid Consulting Ltd		Date:	2002/07	/20
				CHA	NNEL	•						
No Vis.Ch.:[	Intermitte	ent: 🗌		Avg Min	Max	#			Avg	Min	Max	#
Dewatered:	Trib	s.: Ch	annel Width (m):	2.13 1.70	0 2.700	6		Gradient %:	0.50	0	1	4
Stage: Low	7	<b></b>	etted Width (m):	2.13 1.70	0 2.700	6	Po	ool Depth (m):	0.67	0.08	1.01	4
Med	<b>₹</b>	Ba	nkfull Depth (m):	0.73 0.5	0.9	3		Turb	idity.:	Turbid		Low
High [	Te	mp (C): 15	pH: 8.3		Conductiv	ity: 40			M	oderate[	c	lear 🗹
	_	_		MORPH					_			]
	: Dominant: ( Subdominant: (		D95 (cm): 20 D (cm): 1.		Bars: No	n 🗹 .	Side	Diagonal	Mid-	channel		an 🔲
_	ttem: Irregular		Islands: Irre		URBANCE	O1	В1	B2 B3	D1	D2 D		
1	oling: Decoupl		isianos. me	<b>3</b>	CATORS		m		ÄΤ		ווֹ	
Confiner	ment: Occasio	nally Confine		C1	C2 (	3 C4	C5	S1 S2	S3	S4	S5	
Morpho	ology: RP	Riffle Pool										
				CO.	/ER							
Total Cover.	Abundant		Type:	SWD LV	VD E		υ	DP (	OV	I۷		
LWD:			Amount: ocation: P/S/O:				S	D	7 (	T	507	<u>:</u> []
	Not Applicable		ıre: Fines 🗸 Gr				Rock	Manmade			y FSZ Swn Clos	
Right Bank: Left Bank:	Shape: Ur Shape: Ur		re: Fines 🗸 Gr		=	=	Rock	Manmade	ו	Cit	3wn Clos 1-20	
Right Bank:	Rip.Veg: Sh			re: Not Applica	_		100x		J		1-21	770
Left Bank:	Rip.Veg:		-	e: Not Applica		Instre	eam Veg	: None 🗌 .	Algae 🖳	Moss	Vase	cular 🗹
				Fi	S H							
Site Number	Capture	Number of	Length fished	Total	Voltage	Spe	ecies	Total	Minin			mum
52	Method EF	Events 1	(m) 100	Time 192 sec	700	<del>                                     </del>	СТ	Fish 2	Length			h (mm) 07
		1	100	132 500			<i>-</i> 1		9:			<u> </u>
Rol# 7, Fran	ne# 25, CD#	2, Image#14	5, Direction: U 6, Direction: D	ownstream,	Scale/Cor	nment:d		······································				
			ed channel, site ering Habitat -						served.	Rearin	g Habita	at -
L												

BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

ILP#

			STR	EAM	REF	EREN	CIN	G					
Gazetted Nam	ie:					L	ocal N	lame:					
Watershed Co	de: 480-8021	00-66400-000	00-0000-0000-00	00-000-00	0-000-	000-000		ILP N	Nap #:		ILP	#:	
				F	E A	3 H							
Reach #: 10 Length (km): Gradient (%): US Elev (m):	.53 2.3 1272	Cou Confine Isi	TM(Zone/East/No pling: ment: Occasion: lands:	ally Con	Mag Rip	mitude: Order: arian Veg	getatio			iample BGC i	Zone:	Biase	d
Bars: None	_ Side	Diagonal	Mid-channel _	Span		raid 🔲	Land	use:					
Site #: ! Site Length (			9.686222.60502 10.298336.6050	956	SIT	Agend Agen	cy: C0 cy Nar		Crew: SR Consulting Ltd	/MJ	Date:	2002/07	/25
١						NEL							
No Vis.Ch.: Dewatered:	Intermitter Tribs	s.: 🗌 <u>Ch</u>	annel Width (m):	1.25	0.9	1.700	6		Gradient %:	3.38	0.5	5 0.000	4
Stage: Low Med	Z	Ва	etted Width (m): inkfull Depth (m):	1.25 0.37	0.9	1.700 0.4	6 3	}	ool Depth (m): Turbi	•	0.16 Turbid		5 Low
High [	Ten	np (C): 19	pH: 8.2			Conductiv				М	oderate	0	lear 🗹
						)LOG			,	¬			
	Dominant: C ubdominant: F		D95 (cm): 14 D (cm): 0			Bars: No	n 🔽	Side _	_ Diagonal _	Mid-	-channel		oan 📋
Channel Pattern: Irregular, Wandering Islands: None Coupling: Decoupled  Confinement: Occasionally Confine Morphology: CP Cascade Pool  DISTURBANCE O1 B1 B2 B3 D1 D2 D3 INDICATORS INDICATORS C1 C2 C3 C4 C5 S1 S2 S3 S4 S5 INDICATORS COVER													
					YO.	ΕR							
Total Cover: Moderate Type: SWD LWD B U DP OV IV													
Total Cover: Moderate         Type:         SWD         LWD         B         U         DP         OV         IV           LWD: None         Amount:         N         N         T         S         S         D         N           LWD Dist: Not Applicable         Location: P/S/O:         Image: Control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the													
Right Bank: Left Bank: Right Bank: Left Bank:	Shape: Un Shape: Un Shape: Un Rip.Veg: Shi Rip.Veg:	dercut Text	Stag	=	•	Bould Bould	ser der	Rock Rock	Manmade Manmade G	j		own Clos 1-2	sure 0%
					FIS	H							
Site Number	Capture Method	Number of Events	Length fished (m)	Tota Time		Voltage	s	pecies	Total Fish	Minir Lengti			lmum h (mm)
53	EF	1	200	348 s	9C	700		СТ	10	6	9		39
Roll# 7, Fram channel width channel width shrubby, fine	e# 17, CD# n occasionall n < 1.5m. nui s/organics. C	2, Image#13 y opens up t merous CT o overwintering	7, Direction: U 8, Direction: D o ~2m wide ru bserved in lak g Habitat - pool - mod - plenty	ownstrea n/pool over and inleading the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction	am, Sover orget area	cale/Com panics, al a. site = ough poo	nment Iso 5n UTM. Is. Sp	cam ban wide of forested awning	g - shrubby a pen water we I area - cobbl Habitat - goo	rea etland t e/fines d in lak	, open a	area - ´	

BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

ILP#

			STR	EAM	REF	ERE	VCIN	G					
Gazetted Name	»:						Local N	ame	:			·	
Watershed Cod	le: 480-802100-6640	0-0000	00-0000-0000-00	0-000-0	00-000-	000-000		i	LP Map #:		IL	P 你	
					REA(	H							
Reach #: 12.0			M(Zone/East/N	orth): 9.			3			ample		Biase	ed
Length (km): .4		-	oling:		Mag	mitude:	_		_	BGC 2			
Gradient (%): 4			ment: Frequently	y Confin		Order:			0	pen wa	ter:		
US Elev (m): 1		_	ands:	1		arian Ve	-						
Bars: None	Side Diagona	i 📙	Mid-channel	Span		aid 📗	Land	use:					
					SIT	E							
Site #: 54 Site Length (m			9.685714.60498 10.297758.6050			-	ncy: C0 ncy Nan		Crew: SR INS Consulting Ltd	· /MJ	Date:	2002/0	7 <i>1</i> 25
				C	HAN	NEL							
No Vis.Ch.:	Intermittent:			Avg	Min	Max	#	<u> </u>		Avg	Min	Max	#
Dewatered:	Tribs.:	Cha	annel Width (m):	0.00	0	Ó	0	ŀ	Gradient %:	0.00	0	0	0
Stage: Low		_	etted Width (m):	0.00	0	0	0	l	Pool Depth (m):	0.00	0	0	0
Med Med		Ba	nkfull Depth (m):	0.00	0	0	0	•	Turb	dity.:	Turbid		Low
High	Temp (C):		pH:		(	Conducti	vity:			M	oderate		Clear
				MO	(P.H.(	) (. O. C	Y						
Bed Material: Sul	Dominant: bdominant:		D95 (cm): D (cm):			Bars: N	on 🗌	Sic	fe Diagonal	Mid	-channe	_	ipan 🗌 Iraid 🔲
Channel Patte	em:		Islands:		DISTU	RBANC	E <u>01</u>	E	31 B2 B3	D1	D2	D3_	
Coupli	ng:		•		INDIC	CATORS		] [					
Confineme	en <b>t</b> :				C1	C2	C3 C	<b>'</b> 4	C5 S1 S2	S3	S4	S5	
Morpholo	ogy:												
					COV	ER							
Total Cover:			Туре:	SWD	LWI	0	В	บ	DP (	)V	IV	]	
LWD:			Amount		1							1	
LWD Dist:			ocation: P/S/O:									FS	iz: 🗌
Right Bank:	Shape:	Textu	re: Fines 🔲 Gr	avel	Cobble	☐ Bou	lder	Roc	k Manmade	]	C	rown Clo	sure
Left Bank:	Shape:	Textu	rre: Fines 🔲 Gr	avel	Cobble	□ Bou	ılder 🔙	Roc	k Manmade	]			
Right Bank:	Rip.Veg:		Stag	-					,	-	7		_
Left Bank:	Rip.Veg:		Star	je:			inst	rean	n Veg: None 🔲	Aigae _	_ Moss	: ∐ Va:	scular L
"stream" is dis	o# 18, CD# 2, Image continuous, discor nch is actually trib	necte	ed standing wa	ter with	no fluv	rium or	∞ntinu	ous					

BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

ILP#

.0 93L.060

		STR	EAM	REF	ERE	CIN	G					
Gazetted Name	:					Local N	ame:					
Watershed Cod	e: 000-000000-0000	0-0000-0000-0000-00	00-000-0	00-000-	000-000		ILP	Map #: 93L.060		ILP	#:	60714
				REA(	) <b>(</b> )							
Reach #: 1.0		UTM(Zone/East/N	orth): 9.			5		s	ample		Bias	ed
Length (km): .0		Coupling:		Mag	initude:	_		_	BGC 2			
Gradient (%): 2.		onfinement: Unconfine Islands:	ed .	Di-	Order: arian Ve			O	pen wat	er:		
US Elev (m): 12			٦ ۵	_ `		-						
Bars: None	Side U Diagona	i Mid-channel	_ Span			Land	use:		*********		*********	
				SIT	••••		·-					
Site #: 55 Site Length (m		UTM 9.690391.60534 S UTM 10.302719.6053			•	ncy: C0 ncy Nan		Crew: MJ S Consulting Ltd	/SR	Date:	2002/	17109
			C	HAN	NEL							
No Vis.Ch.:	Intermittent:		Avg	Min	Max	#			Avg	Min	Max	#
Dewatered:	Tribs.:	Channel Width (m):	0.00	0	0	0		Gradient %:	40.00	40	40	1
Stage: Low 🗌		Wetted Width (m):	0.00	0	0	0	L	Pool Depth (m):	0.00	0	0	0
Med _	Tomp (C):	Bankfull Depth (m):	0.00	1 0	0 Conducti	0		Turbi	•	Turbid oderate	7	Low
High [_]	Temp (C):	pH:			LOG				IVA	OUBIAIE(		Clear
Bed Material:	Dominant	D05 (om):	**************************************		Bars: N		Side	Diagonal	Mid	channel		Span 🗌
1	odominant:	D95 (cm): D (cm):			Dars. 14	Oti [	SHE	Diagonas _		G I d I I I I I I	_	Braid
Channel Patte		Islands:			RBANC		<u>B1</u>	B2 B3	D1	D2   C	3	
Couplin	-				CATORS	السلسا	للل	25 64 62			브	
Confineme Morpholo				C1	C2	C3 C	<b>4 (</b>	C5 \$1 S2	S3	S4	S5	
				COV	FR		- 1 L		1 🖳	ا بــا		
Total Cover:		Туре:	SWD	LWI		В	U	DP C	)V	IV	1	•
LWD:		Amount:									1	
LWD Dist:		Location: P/S/O:									F	SZ: 🗌
Right Bank:	Shape:	Texture: Fines G	ravel	Cobble	=	lder	Rock	Manmade _	]	Cr	O nwo	losure
Left Bank:	Shape:		ravel	Cobble	∐ Bou	ider	Rock	Manmade				
I -	Rip.Veg: Rip.Veg:	Sta Sta	-			Inst	neam \	/eg: None 🗌 /	Algae [	Moss	□ va	ascular
			<b></b>						-9			
Roll# 3, Frame seasonal (snov	# 19, CD# 1, Imag	ge#54, Direction: Do ge#55, Direction: Up om meadow down to fish habitat	stream,	, Scale/	Comme	entcam	bag		channe	elized fo	or 40m	n only

#### BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

ILP#

.1 93L.060

			STR	EAM	REF	EREN	ICIN	G					
Gazetted Nam	ie:					1	Local N	lame:					
Watershed Co	de: 000-0000	00-00000-00	0000-0000-0000-0	00-000-00	00-000	-000-000		ILP M	lap #: 93L.060	ı	ILF	#:	60715
				ı	t E A	CH							
Reach #: 6.1 Length (km):			JTM(Zone/East/N upling:	<b>orth):</b> 9.6		.6052682 gnitude:			S	ample BGC		Bias	sed
Gradient (%):			rupmig. nement: Unconfine	ed .	Ма	Order:	2		0	pen wa			
US Elev (m):		1	slands:		Rij	parian Ve	getatio	n:					
Bars: None	Side	Diagonal [	Mid-channel	Span	8	Iraid 🗌	Land	use:					
					SIT	E							
Site #: 5	-		VI 9.686645.6052			-	cy: C0			/SR	Date:	2002/	07/26
Site Length (	m): 100	GIS U	TM 10.298974.605				ncy Nar	ne: FINS	Consulting Ltd	l. 			
	_					INEL		7		,		1	<del></del>
No Vis.Ch.: Dewatered:	Intermitte	= _	Channel Width (m):	Avg 0.00	Min 0	Max 0	#	┨┌	Gradient %:	Avg 0.00	Min	Max 0	# 0
			Wetted Width (m):	0.00	0	0	0	P	ool Depth (m):		0	0	1 0
Stage: Low _ Med	1		Bankfull Depth (m)	0.00	0	0	0	] '	Turb	idity.:	Turbid		Low
High [	Ter	<b>n</b> p (C):	pH:			Conducti	vity:			•	oderate		Clear
				MOF	PH	OLOG	Y						
Bed Material:	Dominant:		D95 (cm):			Bars: No	on 🗌	Side	Diagonal [	Mid	-channe		Span 🗌
S	ubdominant:		D (cm):										Braid
Channel Pat			Islands:			JRBANCI CATORS		B1	B2 B3	<u>D1</u>	D2 [	)3	
Coup Confiner	•				C1		L_1	C4 C5	S1 S2		S4	 S5	
Morpho										Τ□			
					6.0.Y	ER							
Total Cover:			Type:	SWD	LW		в	U	DP (	OV	IV	1	
LWD:		_	Amount:									1	
LWD Dist:			Location: P/S/O:									F	sz: 🗌
Right Bank:	Shape:	Te	kture: Fines 🗌 G	ravel	Cobble	e Bou	lder	Rock	Manmade	]	Ci	rown C	losure
Left Bank:	Shape:	Te		ravei	Cobbl	e Bou	lder	Rock	Manmade _	j			
Right Bank: Left Bank:	Rip.Veg: Rip.Veg:		Sta Sta	-			Ins	tream Ve	g: None .	Alcae 「	Moss	Πv	ascular
Gia- N	6/	A1		T =	F   \$	Voltage	. 1 -	·	T-4-1	1#**		100	aximum
Site Number	Capture Method	Number of Events	Length fished (m)	Tota Tim		vonage		Species	Total Fish	Mini: Lengti		1	gth (mm)
56	EF	1	50	109 s	sec	700		LKC	16	3	<b>18</b>		47
Γ:	<del></del>	<del></del>				<del></del>					<del></del>		
site = UTM. c	completed si	te to docur	nent LKC preser	nce (only	/) in th	is reach	, surve	yed in 19	999				
1													
L			<del></del>								-		

BFP FFHI 2002/03 - Pierre/Twain Resampling Reach # ILP Map # ILP# 7.0 93L060 60715 STREAM REFERENCING **Gazetted Name:** Local Name: ILP Map #: 93L.060 ILP#: 60715 REACH Reach #: 7.0 UTM(Zone/East/North): 9.686142.6052947 Sample Type: Biased Length (km): .52 Coupling: Magnitude: **BGC Zone:** Confinement: Unconfined Gradient (%): 0.4 Order: 2 Open water: US Elev (m): 1295 islands: Riparian Vegetation: Bars: None Side Diagonal Mid-channel Span Braid Landuse: SITE Agency: C016 Site #: 57 Field UTM 9.686368.6052661 Date: 2002/07/26 Site Length (m): 150 GIS UTM 10.298679.6053334 Agency Name: FINS Consulting Ltd. CHANNEL No Vis.Ch.: Intermittent: Avg Min Max Avg Min Max Dewatered: Tribs.: Channel Width (m): 0.00 0 0 Gradient % 0.00 0 Wetted Width (m): 0.00 Pool Depth (m): 0 0 0.00 0 Low Bankfull Depth (m): 0.00 0 Low Med Turbid ... Turbidity.: High 🗌 Temp (C): Conductivity: Moderate \_\_\_ Clear MORPHOLOGY Bed Material: Dominant: D95 (cm): Side Diagonal Mid-channel Subdominant D (cm): Braid Channel Pattern: Islands: DISTURBANCE INDICATORS Coupling: Confinement: C3 C4 C5 **S3** Morphology: COVER Total Cover: SWD LWD DΡ ΟV īV Type: В U Amount LWD: Location: P/S/O: LWD Dist: FSZ: 🔲 Texture: Fines Gravel Cobble Boulder Rock Manmade Right Bank: Crown Closure Shape: Left Bank: Texture: Fines Gravel Cobble Boulder Rock Manmade Shape: Right Bank: Rip.Veg: Stage: instream Veg: None Algae Moss Vascular Left Bank: Rip.Veg: Stage: Roll# 8, Frame# 16, CD# 2, Image#162, Direction: Upstream, Scale/Comment:cam bag site = UTM. no trace of any channel, percolates through, no fluvium, squishy crap in wetland. drains W u/s, no channel, just seeps through. Other - No fish habitat

BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

ILP#

93L.060

e: de: 000-0000 .05	וט	00-0000-0000-00 TM(Zone/East/N		0-000-0 (E.A.(	000-000	ocal N		lap #: 93L.06	0	ILP	<b>#</b> : 6	0716
.05	וט						ILP N	lap #: 93L.06	0	ILP	#: 6	0716
		M(Zone/East/N	F	(EA(	H	******			***********	************		
		M(Zone/East/N										
			orth): 9.6	89873.	6054027		***********		Sample	Туре:	Biase	d
.2	COU	pling:	•		nitude:				BGC	• •		
		ment: Frequently	y Confin		Order:	_		(	)pen wa	ter:		
318		ands:		_ `	arian Ve	getatio	n:					
Side	Diagonal 🔝	Mid-channel	Span		aid	Land	use:					
				SIT	E							
8 n): 150					•	•				Date:	2002/ <b>07</b>	/29
			C	HAN	NEL							
Intermitte	nt: 🔲		Avg	Min	Max	#			Avg	Min	Max	#
Tribs			0.00	0	0	0	- <u>-</u>		—	0	0	0
]	<b>——</b>	<u>`</u>							<del>'</del>	يـــــــا	لستسا	<u> </u>
] ] Ten	· · · · · ·	pH:	. 0.00		•		i	Turi		-	=	low
2			MOR	PHC	LOG	Y						
Dominant:		D95 (cm):					Side	Diagonal	Mid	-channei	□sı	pan 🗍
bdominant:		D (cm):				_						raid 🗌
em:		Islands:		DISTU	RBANCE	01	B1	B2 B3	D1	D2 D	3_	
ing:												
			_	C1	C2 (	3 (	24 C5	S1 S2	S3	\$4 1	S5	
ogy:			-		اللا					لللل		
				OV	ER							
		Type:	SWD	LWI	) [	3	U	DP	OV	١٧		
	Г											_ 🗀
									<u> </u>	الالالا		
Shape:		=			=	===	=		_	Cn	own Clo	sure
	Text			CODDIG		aer []	KOCK [_	] Ivianinade[				
Rip.Veg:		-	-			Inst	ream Ve	g: None 🗌	Algae [	Moss	U Vas	cular [
Canture	Number of	l ength fished	Tota	*********	************	s	neries	Total	Miniz	niim	Max	lmum
Method	Events	(m)			vollago		pco.cs	Fish				h (mm)
EF	1	150	109 s	өс	700		NFC	0				
e# 21, CD# meadow ne colation and	2, Image#19 ar mouth. dra I continuous,	2, Direction: U ainage has flov no accessible	pstream v and fre	, Scale	e/Comm channel	ent:ca lized s	m bag ections	on gravels)				
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Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Sect		

BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

ILP#

.0 93L.060

		STR	EAM	REF	ERE)	ICIN	G						
Gazetted Name:						Local N	ame:						
Watershed Code:	000-000000-00000	)-00000-0000-0000-00	0-000-0	00-000-	000-000		HLF	P Map #: 931	_060		H.J	P#:	60718
				REA(	<b>:</b> H								
Reach #: 1.0 Length (km): .12 Gradient (%): 15.8 US Elev (m): 125		UTM(Zone/East/No Coupling: Infinement: Confined Islands:	orth): 9.0	Maç	6053019 pritude: Order: arian Ve	2	n:			ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample ample	Zone:	Bias	sed
Bars: None S	Side 🗌 Diagonal	Mid-channel	Span	□ В	raid 🗌	Land	use:						
				SIT	E								
Site #: 59 Site Length (m): 1		UTM 9.688674.60529 UTM10.301004.6053			-	ncy: C0 ncy Nar		Crew: NS Consulting	SR. g Ltd.		Date:	2002/	07 <i>1</i> 29
			C	HAN	NEL								
No Vis.Ch.:  Dewatered:  Stage: Low  Med  High	Intermittent:  Tribs.:   Tremp (C):	Channel Width (m): Wetted Width (m): Bankfull Depth (m):	Avg 0.00 0.00 0.00	Min 0 0 0 0 0	Max 0 0 0 conducti	# 0 0 0	E	Gradier Pool Depth		-	Min 0 0 Turbid	=	# 0 0 Low Clear
		•	MOI		LOG		******		*****			_	
Channel Pattern	ominant:	D95 (cm): D (cm): Islands:		DISTU	Bars: N	on 🗌 E <u>01</u>	Side	_ •	nal [		channe	_	Span 🗌 Braid 🗌
Coupling: Confinement Morphology	:			C1	C2	لبلبا	<b>4</b> (	C5 S1	S2	\$3 	\$4	\$5 	
				COV	ER								
Total Cover: LWD: LWD Dist:		Type: Amount: Location: P/S/O:	SWD	LWI		В	U	DP	C	v I	IV	F	sz: 🗌
Left Bank: S	•		avel	Cobble Cobble	=	lder lder	Rock Rock	Manma	de 🗌		_	rown C	
Left Bank: Ri	p.Veg:	Stag	e:			inst	ream '	Veg: None	[_] <i>‡</i>	Ngae [	Moss	<b>v</b> .	ascular _
site = "mouth". de	rainage is just a	e#194, Direction: D shrubby corridor wit itat or potential, or p	h no ev oassage	ridence	of chai	nnel or		just seepag	ge at	30% g	radien	t dowr	n gully

BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

ILP#

.0 93L.060

			STR	EAM	REF	ERE	NCIN	G					
Gazetted Nar	ne:						Local N	lame	:		•		-
Watershed C	ode: 000-000000-(	00-00-00	000-0000-0000-00	0-000-0	00-000-	000-000	)	11	L <b>P Map #: 93</b> L.060		IL	P#:	60721
					REAG	) H							
Reach #: 1.	0	υ	TM(Zone/East/No	orth): 9.	688473.	605254	7		\$	Sample	Туре:	Bias	ed
Length (km):			upling:			znitude:				BGC :	Zone:		
Gradient (%):			ement: Occasiona	illy Con		Order:			0	pen wa	ter:		
US Elev (m):		_	slands:	,	_	_	egetatio	n:					
Bars: None	Side Diag	gonal 💹	Mid-channel	Span	B <sub>1</sub>	raid 📙	Land	use:					
					SIT	E							
Site #: Site Length			# 9.688507.60527 M 10.300818.6053			-	ncy: C0 incy Nar		Crew: SR	/MJ	Date:	2002/0	)7 <i>1</i> 29
•	•				HAN		•						
No Vis.Ch.:	✓ Intermittent:			Avg	Min	Max	#	 1		Avg	Min	Max	T #
Dewatered:	Tribs.:	<u> </u>	hannel Width (m):	0.00	0	0	0		Gradient %:	0.00	0	0	+ +
	<u></u>		Wetted Width (m):	0.00	0	0	0		Pool Depth (m):		0	0	1 0
Stage: Low[ Med[	╡	В	ankfull Depth (m):	0.00	0	0	0		L		Turbid	<del>'</del>	<u> </u>
High [	Temp (	C):	pH:		(	Conducti	vity:		Turbi	-	oderate	=	Low
				MOF	RP H C	) L O 6							
Bed Material:	: Dominant: Subdominant:		D95 (cm): D (cm):			Bars: N	on 🗌	Sid	le Diagonal	] Mid-	-channe		Span 🗌 Braid 🗍
Channel Pa	ttern:		Islands:		DISTU	RBANC	E 01	В	11 B2 B3	D1	no r	าจ	_
	oling:		isianus.			CATORS		Τř	inn	ĦΤ		<del>"</del>	
Confiner	ment				C1	C2	C3 C	4	C5 S1 S2	S3	S4	 S5	
Morpho	ology:					ПП		דר		$\Box$			
					COV								
Total Cover:			Type:	SWD	LWI		в	U	DP C	v T	IV	7	
			Amount:	3440	+	<del>-</del>	-		1 0	<del>"</del> +	14	1	
LWD: LWD Dist:			Location: P/S/O:	1 1	ile			-		711	7	d	sz:
					<u> </u>					<u>1                                </u>	<del></del>	-	
Right Bank:	Shape:		=	avel	Cobble	=	ider	Roc	= =		C	rown Cl	osure
Left Bank: Right Bank:	Shape: Rip.Veg:	Iex	ture: Fines Gra Stag	_	Cobble		lder	Roc	k Manmade _	J			
Left Bank:	Rip.Veg:		Stag				Inst	rearr	veg: None 🗌 /	Aloze [	Moss	□va	scular [
				· · · · · ·						-3			
Roll# 9, Fran mapped stre site = UTM =	ne# 22, CD# 2, I am is just an occ : 30 m u/s from "	mage#1 casionall mouth".	93, Direction: U ly moist shrubby Other - none	pstream corrido	n, Scale or with a	e/Comm	nent:SF inel or t	R	ng water present	t, no fis	sh habii	tat pres	sent.
									•				

BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

.0 931..060

ILP# 60722

	STREAM	REFERENCING		
Gazetted Name:		Local Nan	ne:	
Watershed Code: 000-000000-0000	0-00000-0000-0000-000-000-000	0-000-000-000	ILP Map #: 93L.060	ILP#: 60722
	R	EACH		
Reach #: 1.0	UTM(Zone/East/North): 9.68	37715.6052890	Sample T	ype: Biased
Length (km): .21	Coupling:	Magnitude:	BGC Z	
• •	onfinement: Frequently Confin	Order: 1	Open water	er:
US Elev (m): 1288	islands:	Riparian Vegetation:		
Bars: None Side Diagona			e:	
On hos		SITE		24.500000
	UTM 9.687830.6053005 S UTM 10.300187.6053509	Agency: C016 Agency Name	Crew: MJ/SR FINS Consulting Ltd.	Date: 2002/07/26
	CH	IANNEL		
No Vis.Ch.: ✓ Intermittent:	Avg	Min Max #	Avg	Min Max #
Dewatered: Tribs.:	Channel Width (m): 0.00	0 0 0	Gradient %: 0.00	0 0 0
Stage: Low	Wetted Width (m): 0.00	0 0 0	Pool Depth (m): 0.00	0 0 0
Med	Bankfull Depth (m): 0.00	0 0 0	•	Turbid Low
High Temp (C):	pH:	Conductivity:	Mo	derate Clear C
		PHOLOGY		
Bed Material: Dominant: Subdominant:	D95 (cm): D (cm):	Bars: Non 🔝 S	Side Driagonal Mid-o	channel Span in Braid Braid
Channel Pattern:	Islands:	DISTURBANCEO1	B1 B2 B3 D1 D	D2 D3
Coupling:		INDICATORS		
Confinement:	_	C1 C2 C3 C4	C5 S1 S2 S3	S4 S5
Morphology:	<del></del>			
	c	OVER		
Total Cover:	Type: SWD	LWD B	U DP OV	IV
LWD: LWD Dist:	Location: P/S/O:			FSZ:
Right Bank: Shape:	Texture: Fines Gravel C	Cobble Boulder R	lock Manmade	Crown Closure
Left Bank: Shape:	Texture: Fines Gravel C	Cobble Bouider R	tock Manmade	
Right Bank: Rip.Veg:	Stage:			]   National   Day   National   Day   National   Day   National   Day   National   Day   National   Day   Day   National   Day   Da
Left Bank: Rip.Veg:	Stage:	Instre	am Veg: None Algae	Moss   Vascular
Roll# 8, Frame# 20, CD# 2, Ima seepage draining squishy and b	-			

BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

ILP#

.0 93L.060

	STREAM	REFERENCING		
Gazetted Name:		Local Nan	ne:	
Watershed Code: 000-000000-000	00-00000-0000-0000-000-000-0	00-000-000-000	ILP Map #: 93L060	ILP #: 60723
		REACH	100 0	
Reach #: 1.0	UTM(Zone/East/North): 9.	687392.6053185	Sample	Type: Biased
Length (km): .25	Coupling:	Magnitude:		Zone:
Gradient (%): 5.2 C US Elev (m): 1287	onfinement: Frequently Confin Islands:	Order: 1 Riparian Vegetation:	Open war	ter:
Bars: None Side Diagon			e:	
		SITE		
Site #: 62 Field	UTM 9.687588.6053152	Agency: C016	Crew: MJ/SR	Date: 2002/07/25
1	S UTM 10.299932.6053675	• •	FINS Consulting Ltd.	
	C	HANNEL		
No Vis.Ch.: Intermittent:	Avg	Min Max #	Avg	Min Max #
Dewatered: Tribs.:	Channel Width (m): 0.00	0 0 0	Gradient %: 0.00	0 0 0
Stage: Low	Wetted Width (m): 0.00  Bankfull Depth (m): 0.00	0 0 0	Pool Depth (m): 0.00	0 0 0
Med Temp (C):	pH:	Conductivity:	Turbidity.: M	Turbid Low Low Clear
	MO	RPHOLOGY		
Bed Material: Dominant:	D95 (cm):	Bars: Non 🔲 💲	Side Diagonal Mid	-channel Span
Subdominant:	D (cm):			Braid
Channel Pattern:	Islands:	DISTURBANCE O1	B1 B2 B3 D1	D2 D3
Coupling:		INDICATORS [		
Confinement:		C1 C2 C3 C4	C5 S1 S2 S3	S4 S5
Morphology:				
		COVER		
Total Cover.	Type: SWD	LWD B	U DP OV	IV .
LWD:	Location: P/S/O:			
LWD Dist:				FSZ:
Right Bank: Shape:	Texture: Fines Gravel Texture: Fines Gravel	= =	ock Manmade  ock Manmade	Crown Closure
Left Bank: Shape: Right Bank: Rip.Veg:	Texture: Fines [_] Gravel [_] Stage:	CODDIE[] BOUICET[] K	ock   wannade	
Left Bank: Rip.Veg:	Stage:	instre	am Veg: None 🗌 Algae 🗌	Moss Vascular
Roll# 8, Frame# 19, CD# 2, Ima				
squishy valley from HW pond, n	o channel, no fluvium, not a	stream. site = UTM. Ot	her - No fish habitat	
1				
L				

#### BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map # ILP # 1.0 93L.060 60724

	STREAM	REFERENC	ING				
Gazetted Name:		Loc	al Name:				
Watershed Code: 000-000000-000	00-00000-0000-0000-000-000-0	00-000-000-000	ILP Map	#: 93L060		LP#:	60724
		REACH					
Reach #: 1.0	UTM(Zone/East/North): 9.	687015.6052781			mple Type:	Bias	ed
Length (km): .12	Coupling:	Magnitude:			BGC Zone:		
Gradient (%): 0.8 C US Elev (m): 1292	confinement: Unconfined	Order: 2 Riparian Veget:	ation:	Ope	en water:		
Bars: None Side Diagon			anduse:				
	- Ш - на опетано Ш - орган	SITE					
Site #: 63 Fie	d UTM 9.687008.6052818	Agency:	C016 (	Crew: MJ/S	SR Date	: 2002/0	7/26
Site Length (m): 150 G	IS UTM 10.299347.6053401	Agency	Name: FINS Co	nsulting Ltd.			
	C	HANNEL					
No Vis.Ch.: Intermittent:	Avg	Min Max #			Avg Min	Max	#
Dewatered: Tribs.:	Channel Width (m): 0.00	0 0 0			0.00 0	0	0
Stage: Low	Wetted Width (m): 0.00  Bankfull Depth (m): 0.00	0 0 0			0.00 0		10
Med∐ High ☐ Temp (C):	pH:	Conductivity:		Turbidi	ity.: Turbi Moderat	=	Low
g	· · · · · · · · · · · · · · · · · · ·	RPHOLOGY					
Bed Material: Dominant:	D95 (cm):	Bars: Non	Side 🗌	Diagonal 🗌	Mid-chanr	nel 🗌 🥲	Span 🗌
Subdominant:	D (cm):		_	_			Braid 🗌
Channel Pattern:	!slands:	DISTURBANCE	O1 B1 B	2 B3 C	D1 D2	D3	
Coupling:		INDICATORS [	C4 C5	S1 S2	S3 S4	S5	
Confinement:  Morphology:		C1 C2 C3	C4 C5	31 32 □ □	33 54		
		COVER					
Total Cover:	Type: SWD	LWD B	U	DP OV	/ I IV	7	
LWD:	Amount:	1 0	<del>                                     </del>	21 01		1	
LWD Dist:	Location: P/S/O:					] F:	sz: 🗌
Right Bank: Shape:	Texture: Fines Gravel	Cobble Boulder	Rock N	fanmade 🗌		Crown Cl	osure
Left Bank: Shape:	Texture: Fines Gravel	Cobble Boulder	Rock N	fanmade 🗌			
Right Bank: Rip.Veg: Left Bank: Rip.Veg:	Stage: Stage:		Instream Veg:	None A	nae 🗆 Mos	se □ va	scular [
Lett ballk. Trip. veg.			mstream veg.	1019 [_] 70	gas [] No.	,3 [] ¥2	Journal
Roll# 8, Frame# 15, CD# 2, Ima	age#161, Direction: Upstream	m, Scale/Commen	t:cam bag		· · · · · · · · · · · · · · · · · · ·		
site = UTM. seepage draining of	ouple of W u/s, discontinuou	us channel, water p	percolates thro	ugh sedges	s, not a stre	eam. Ott	rer - No
fish habitat							

BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

iLP#

3.0 93L.060

<u>- 1940 / Water and Lander and Lander</u>					<del></del>							
Gazetted Name:						Local N						
Watershed Code: 000-0000	00-00000-00	000-0000-0000-00					iLi	P Map #: 93L.060		ILF	9 #:	60727
	1 1			REA	СН					- 1 <u>- 1                               </u>		
Reach #: 3.0	U	TM(Zone/East/N	orth): 9.	686658.	6053354			S	ample	Type:	Biase	ed
Length (km): .23		ıpling:			jnitude:					Zone:		
Gradient (%): 3.5		ement: Frequently	y Confin		Order:			O	pen wa	ter:		
US Elev (m): 1299		lands:	-		arian Ve	getatio	n:					
Bars: None Side	Diagonal	Mid-channel	Span	В	raid 📙	Land	use:					
				SIT	E							
Site #: 64		9.686538.60533			-	юу: С0			/SR	Date:	2002/0	7/26
Site Length (m): 100	GIS UTI	vi 10.298911.6053	3970		Age	ncy Nar	ne:FIN	IS Consulting Ltd				
				HAN	NEL							
No Vis.Ch.: Intermitte	= —		Avg	Min	Max	#	۱ ـ		Avg	Min	Max	#
Dewatered: Trib		nannel Width (m):	0.97	0.200	1.600	6	<b>↓                                    </b>	Gradient %:	1.00	0	2	2
Stage: Low 🗹	<u> </u>	Vetted Width (m): ankfull Depth (m):	0.00	0.1	0.1	6 3	L	Pool Depth (m):	0.00	0	0	1
Med 🗌	<b>L</b>		0.10				J	Turbi	-	Turbid		Low
High Ter	np (C):	pH:			Conducti	vity:			M	oderate		Clear
			MOF	RPHO	LOG	Υ						
Bed Material: Dominant: F		D95 (cm): 6.			Bars: No	on 🗹	Side	Diagonal	Mid-	-channel		pan 🗀
Subdominant: C	obble	D (cm): 1.	.00								8	Iraid
Channel Pattern: Sinuous		islands: No	ne		RBANCE		B1	B2 B3	D1	D2 D	3	
Coupling: Decouple					CATORS	LLl			Щ.	لللا		
Confinement: Unconfin	ed Riffle Pool			C1	C2 (	C3 C	4 (	C5 S1 S2	53	S4	S5	
Morphology: RP F	WINE FOO!								للل			
				COV	ER							
Total Cover: None		Type:	SWD	LWI	<del></del>	В	U	DP C		١٧	!	
LWD: None		Amount:	N	N		N I	N	N I	4	N		
LWD Dist: Not Applicable	L	Location: P/S/O:					11				FS	Z: 🗌
Right Bank: Shape: Sto	ping (g Text	ure: Fines 🗹 Gr	avel 🗹	Cobble	<b>✓</b> Bou	der	Rock	Manmade		Cm	own Clo	sure
Left Bank: Shape: Slo	ping (g Text	ure: Fines 🌠 Gr	avel 🗹	Cobble	<b>✓</b> Bou	der	Rock	Manmade			41-	70%
Right Bank: Rip.Veg: Shi	rubs	_	e: Not A					رت	_	¬ ,		,
Left Bank: Rip.Veg:		Stag	e: Not A	pplicabl	e	Inst	tream \	/eg: None 🗹 /	\lgae ∟	_ Moss	∐ Vas	cular
		<del>.</del>										
								······································				
Roll# 8, Frame# 17, CD#												
Roll# 8, Frame# 18, CD#									lba	-d /D 01	\ ala- · =	nd
flows through shrubby va nicely channelized in fore												
lloosing stream characteri												
accessible and passable	to the pond	in R2, but lake/	pond se									
summer - exposed, shallo	ow - high wa	ter temp. in sur	nmer									
<u> </u>	·											

#### BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

ILP#

I.O 93L.060

		STR	EAM	REF	ERE	YCIN	G					
Gazetted Name:	ı					Local N	ame:					
Watershed Code	e: 000-000000-0000	0-0000-0000-0000-00	0-000-0	00-000-	000-000		IL	.P Map #: 93L.06	)	111	P#:	60730
				REA(	2 H							
Reach #: 1.0 Length (km): .28 Gradient (%): 9.3 US Elev (m): 12	3 Co	UTM(Zone/East/No Coupling: parfinement: Frequently Islands:	·	Maç	6052700 gnitude: Order: earian Vo	1	n:		Sample BGC pen wa	Zone:	Bia	sed
Bars: None	Side Diagona	Mid-channel	Span	□В	raid 🗌	Land	use:					
				SIT	E							
Site #: 65 Site Length (m)		UTM 9.689717.60528 S UTM 10.302031.6053			_	ncy: C0 ncy Nar		Crew: M. NS Consulting Ltd	J/SR J.	Date:	2002/	07/09
			C	HAN	NEL							
No Vis.Ch.:  Dewatered:  Stage: Low	Intermittent:	Channel Width (m): Wetted Width (m): Bankfull Depth (m):	Avg 0.00 0.00 0.00	Min 0 0	Max 0 0	# 0 0		Gradient % Pool Depth (m)	Avg 0.00 0.00	Min 0	Max 0	# 0 0
Med High	Temp (C):	pH:	0.00		Conducti		1	Turt	idity.: M	Turbid oderate		Low
			MOI	PH(	LOG	Υ						
Bed Material: [ Sub	Dominant: dominant:	D95 (cm); D (cm);			Bars: N	on 🗌	Side	e Diagonal [	Mid	-channe	i 🗌	Span 🗌 Braid 🔲
Channel Patter	m:	Islands:			RBANC		В	1 B2 B3	D1	D2 [	03	
Couplin	*				CATORS		11					
Confineme Morpholog				C1	C2	C3 (	;4 ¬ ⊤	C5 S1 S2	S3		S5	
	,,,			_L!	الل							
				COV							• • • • • • • • • • • • • • • • • • •	
Total Cover:		Type:	SWD	LWI	2	В	U	DP	OV	IV	-	
LWD:		Location: P/S/O:	1 1	11 1			H H			uu	1 _	C
LWD Dist:	<b>0</b> 1		! <u>!</u>	<u> </u>					┸ ┪		-	sz:
Right Bank: Left Bank:	Shape: Shape:		avel	Cobble	_	lder	Rock		ן ר	C	rown C	losure
	Rip.Veg:	Stag	_	0000.0			T COCI		J			
Left Bank: f	Rip.Veg:	Stag				Inst	ream	Veg: None	Algae [	Moss	□ v <sub>i</sub>	ascular 🗀
site = UTM = "n	nouth". seepage -	ge#53, Direction: Up no fluvium, no bank llows. Other - No fist	cs - drai	ns moi	Commist mead	entcam dow u/s	i bag and	discharges ove	r 10% s	slope a	t pare	nt

BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

ILP#

Watershed Code: 480-802100-66400-29800-0000-0000-000-000-000-000-000

Carefield Name:   Local Name:   Watershed Code: 480-802100-66400-28600-0000-000-000-000-000-000-000-000-00						STR	ΕA	MR	EFE	RE)	VC I I	I G						
Reach #: 1.0	Gazetted Nam	ne:									Local	Name:						
Reach #: 1.0	Watershed Co	ode: 480-802	2100-6640	)-298	00-0000-	0000-00	0-00	0-000	-000-0	00-000		IL	P Ma	ap#:		ILF	依	
Length (km): .65								Ri	AC	Ħ								
Site #: 66	Length (km): Gradient (%):	.66 6.1	Co	Cou	pling: ment: Co		orth):	9.689	Magr	nitude: Order:	3	on:			BGC	Zone:	Bias	ed
Site #: 66	Bars: None	Side	Diagonal		Mid-cha	nnel 🗌	] Sp	an [	Bra	aid 🔲	Lane	duse:						
Site Length (m): 200   GIS UTM 10.301944.6053181   Agency Name: FINS Consulting Ltd.									i i T i									
No Vis.Ch.:   Infermittent:   Channel Wicth (m): 2.08   1.8   2.400   6   Gradient %: 6.50   5   8   4   Pool Depth (m): 0.32   0.270   0.430   5   Stage: Low   Meted Width (m): 1.98   1.8   2.3   6   Pool Depth (m): 0.32   0.270   0.430   5   Pool Depth (m): 0.43   0.430   Pool Depth (m): 0.430   Pool Depth (m): 0.430   Pool Depth (m): 0.430   Pool Depth (m): 0.430   Pool Depth (m): 0.430   Pool Depth (m): 0.430   Pool Depth (m): 0.430   Pool Depth (m): 0.430   Pool Depth (m): 0.430   Pool Depth (m): 0.430   Pool Depth (m): 0.430   Pool Depth (m): 0.430   Pool Depth (m): 0.430   Pool Depth (m): 0.430   Pool Depth (m): 0.430   Pool Depth (m): 0.430   Pool Depth (m): 0.430   Pool Depth (m): 0.430   Pool Depth (m): 0.430   Pool Depth (m): 0.430   Pool Depth (m): 0.430   Pool Depth (m): 0.430   Pool Depth (m): 0.430   Pool Depth (m										•	-		NS C			Date:	2002/0	7.09
Channel Width (m):   2.08   1.8   2.400   6     Gradient %:   6.50   5   8   4     Pool Depth (m):   0.32   0.270   0.430   5     Bankfull Depth (m):   0.43   0.4   0.5   3     Turbidity:   Turbidit								C ji	ANI	VE L								
Wetted Width (m): 1.98 1.8 2.3 6   Pool Depth (m): 0.32 0.270 0.430 5	Dewatered: Tribs.: Channel Width (m): 2.08 1.8 2.400 6 Gradient %: 6.50 5 8 4  Wetted Width (m): 1.98 1.8 2.3 6 Pool Depth (m): 0.32 0.270 0.430 5																	
Bankfull Depth (m): 0.43 0.4 0.5 3   Turbidity:: Turbid   Low   High   Temp (C): 6 pH: 7.6   Conductivity: 20   Moderate   Clear   Moderate   Cl	_											1	Po					
Bed Material: Dominant: Cobble		<b>7</b>	t	Ва	nkfull De	pth (m):	0.4	3 (	0.4	0.5	3	] ,		Turb	idity.:	Turbld		=
Bed Material: Dominant: Cobble Subdominant: Boulders D (cm): 5.00 Bars: Non  Side Diagonal Mid-channel Span Breid C Channel Pattern: Sinuous Islands: None Coupling: Partially Coupled Confinement: Frequently Confined C 1 C2 C3 C4 C5 S1 S2 S3 S4 S5 Morphology: CPB Cascade Pool Boul INDICATORS	High		emp (C): 6		pi	H: 7.6			C	onducti	vity: 20				N	loderate		Clear 🗹
Subdominant: Boulders  D(cm): 5.00  Channel Pattern: Sinuous  Coupling: Partially Coupled  Confinement: Frequently Confined  Confinement: Frequently Frequently Frequently Frequently Frequently Frequently Frequently Frequently Frequently Frequently Frequently Frequently Frequently Frequently Frequently Frequently Frequently Frequently Frequently Frequently Frequently Frequently Frequently Frequently Frequently Frequently Frequently Frequently Frequently Frequently Frequently Frequently Frequently Frequently Frequently Frequently Frequently Frequently Frequently Frequently Frequently Frequently Frequently Frequently Frequently Frequently Frequently Frequently Frequently Frequently Frequently Frequently Frequently Frequently Frequently Frequently Frequently Frequently Frequently Frequently Frequently Frequently Frequently Frequently Frequently Frequently Frequently Frequently Freq								9 R (							_			
Channel Pattern: Sinuous Islands: None Coupling: Partially Coupled Confinement: Frequently Confined Coupling: Provided Confinement: Frequently Confined Cover. Abundant Type: SWD LWD B U DP OV IV LWD: Few LWD: Few LWD: Few LWD Distributed Location: Provided Cobble Boulder Provided Cobble Boulder Provided Cobble Boulder Provided Cobble Boulder Provided Cobble Boulder Provided Cobble Boulder Provided Cobble Boulder Provided Cobble Boulder Provided Cobble Boulder Provided Cobble Boulder Provided Cobble Boulder Provided Cobble Boulder Provided Cobble Boulder Provided Cobble Boulder Provided Cobble Boulder Provided Cobble Boulder Provided Cobble Boulder Provided Cobble Boulder Provided Cobble Boulder Provided Cobble Boulder Provided Cobble Boulder Provided Cobble Boulder Provided Cobble Boulder Provided Cobble Boulder Provided Cobble Boulder Provided Cobble Boulder Provided Cobble Boulder Provided Cobble Boulder Provided Cobble Boulder Provided Cobble Boulder Provided Cobble Boulder Provided Cobble Boulder Provided Cobble Boulder Provided Cobble Boulder Provided Cobble Boulder Provided Cobble Boulder Provided Cobble Boulder Provided Cobble Boulder Provided Cobble Boulder Provided Cobble Boulder Provided Cobble Boulder Provided Cobble Boulder Provided Cobble Boulder Provided Cobble Boulder Provided Cobble Boulder Provided Cobble Boulder Provided Cobble Boulder Provided Cobble Boulder Provided Cobble Boulder Provided Cobble Boulder Provided Cobble Boulder Provided Cobble Boulder Provided Cobble Boulder Provided Cobble Boulder Provided Cobble Boulder Provided Cobble Boulder Provided Cobble Boulder Provided Cobble Boulder Provided Cobble Boulder Provided Cobble Boulder Provided Cobble Boulder Provided Cobble Boulder Provided Cobble Boulder Provided Cobble Boulder Provided Cobble Boulder Provided Cobble Boulder Provided Cobble Boulder Provided Cobble Boulder Provided Cobble Boulder Provided C	Bed Material: Dominant: Cobble D95 (cm): 60.00 Bars: Non 🗹 Side 🗌 Diagonal 🗌 Mid-channel 🗍 Span 🦳																	
Confinement: Frequently Confined  Confinement: Frequently Confined  Confinement: Frequently Confined  Confinement: Frequently Confined  Confinement: Frequently Confined  Confinement: Frequently Confined  Confinement: Frequently Confined  Confinement: Frequently Confined  Confinement: Frequently Confined  Confinement: Frequently Confined  Confinement: Frequently Confined  Confinement: Frequently Confined  Confinement: Frequently Confinement: Notal Cover: Abundant  LWD: Few  LWD: Few  LWD: Description: Notation:					,			n	ISTI IE	PANC	E O	. P	1	B2 B3	D1	חי ר	12	, and
Total Cover. Abundant	l .				1510	1105. INO	116					ΪĪ	İΙ					
Total Cover: Abundant  LWD: Few LWD Dist: Evenly Distributed  Right Bank: Shape: V - shape Left Bank: Rip.Veg: Coniferous Left Bank: Rip.Veg: Stage: Mature forest Left Bank: Rip.Veg: Stage: Mature forest Left Bank: Rip.Veg: Stage: Mature forest Left Bank: Rip.Veg: Stage: Mature forest Left Bank: Rip.Veg: Stage: Mature forest Left Bank: Rip.Veg: Stage: Mature forest Left Bank: Rip.Veg: Stage: Mature forest Left Bank: Rip.Veg: Stage: Mature forest Left Bank: Rip.Veg: Stage: Mature forest Left Bank: Rip.Veg: Stage: Mature forest Left Bank: Rip.Veg: Stage: Mature forest Left Bank: Rip.Veg: Stage: Mature forest Left Bank: Rip.Veg: Stage: Mature forest Left Bank: Rip.Veg: Stage: Mature forest Left Bank: Rip.Veg: Stage: Mature forest Left Bank: Rip.Veg: Stage: Mature forest Left Bank: Rip.Veg: Stage: Mature forest Left Bank: Rip.Veg: Stage: Mature forest Left Bank: Rip.Veg: Stage: Mature forest Left Bank: Rip.Veg: Stage: Mature forest Left Bank: Rip.Veg: None   ### Att URES  NID Map NID Type Hgt Method Lg Method Photo UTM (Z/E/N) Method 093L.060 30661 BMA AL GE R: F: 9.689630.6052810 GiS  ### Att URES  ### Att URES  Length fished Total Voltage Species Total Minimum Length (mm)  ### Additionary Comments		-	•					_	C1	C2	СЗ	C4	C5	S1 S2	S3	S4	S5	
Total Cover: Abundant  LWD: Few  LWD Dist: Evenly Distributed  Right Bank: Shape: V - shape Right Bank: Rip.Veg: Coniferous Left Bank: Rip.Veg: Stage: Mature forest Left Bank: Rip.Veg: Stage: Mature forest Left Bank: Rip.Veg: Stage: Mature forest Left Bank: Rip.Veg: Stage: Mature forest Left Bank: Rip.Veg: Stage: Mature forest Left Bank: Rip.Veg: Stage: Mature forest Left Bank: Rip.Veg: Stage: Mature forest Left Bank: Rip.Veg: Stage: Mature forest Left Bank: Rip.Veg: Stage: Mature forest Left Bank: Rip.Veg: Stage: Mature forest Left Bank: Rip.Veg: Stage: Mature forest Left Bank: Rip.Veg: Stage: Mature forest Left Bank: Rip.Veg: Stage: Mature forest Left Bank: Rip.Veg: Stage: Mature forest Left Bank: Rip.Veg: Stage: Mature forest Left Bank: Rip.Veg: Stage: Mature forest Left Bank: Rip.Veg: Stage: Mature forest Left Bank: Rip.Veg: Stage: Mature forest Left Bank: Rip.Veg: Stage: Mature forest Left Bank: Rip.Veg: Stage: Mature forest Left Bank: Rip.Veg: None Algae Moss Vascular  FEATURES  NID Map NID Type Hgt Method Lg Method Photo UTIM (ZIEN) Method 093L.060 30661 BMA AL GE R: F: 9.689630.6052810 GiS  Comments: real mouth at site UTM  FISH  Sthe Number Capture Method Events (m) Time Voltage Species Total Minimum Length (mm) 66 EF 1 200 169 sec 800 CT 7 66 89  Roll# 3, Frame# 15, CD# 1, Image#51, Direction: Upstream, Scale/Comment:cam bag Roll# 3, Frame# 16, CD# 1, Image#52, Direction: Downstream, Scale/Comment:cam bag Stale = UTIM. Spawning Habitat - fair - opportunistic only in small and scattered gravel patches - likely in parent stream. Overwintering Habitat - fair - only few deeper pools with slower flow - likely move d/s to parent. Rearing Habitat - excellent in	Morpho	ology: CPB	Cascade	Pool	Boul			_[										
LWD: Few LWD Dist: Evenly Distributed  Right Bank: Shape: V - shape Left Bank: Shape: V - shape Left Bank: Rip.Veg: Coniferous Left Bank: Rip.Veg: Coniferous Left Bank: Rip.Veg: Stage: Mature forest Left Bank: Rip.Veg: Stage: Mature forest Left Bank: Rip.Veg: Stage: Mature forest Left Bank: Rip.Veg: Stage: Mature forest Left Bank: Rip.Veg: Stage: Mature forest Left Bank: Rip.Veg: Stage: Mature forest Left Bank: Rip.Veg: Stage: Mature forest Left Bank: Rip.Veg: Stage: Mature forest Left Bank: Rip.Veg: Stage: Mature forest Left Bank: Rip.Veg: Stage: Mature forest NID Map								···C	OVE	R							-	
LWD Dist: Evenly Distributed  Right Bank: Shape: V - shape Texture: Fines  Gravel  Cobble Boulder  Rock Manmade Crown Closure  Left Bank: Shape: V - shape Texture: Fines  Gravel  Cobble Boulder  Rock Manmade 1-20%  Right Bank: Shape: V - shape Texture: Fines  Gravel  Cobble Boulder  Rock Manmade 1-20%  Right Bank: Rip. Veg: Stage: Mature forest  Left Bank: Rip. Veg: Stage: Mature forest  Left Bank: Rip. Veg: Stage: Mature forest  NID Map NID Type Hgt Method Lg Method Photo UTM (Z/E/N) Method 093L.060 30661 BMA AL GE R: F: 9.689630.6052810 GIS  Comments: real mouth at site UTM  FISH  Site Number Capture Number of Length fished (m) Time Fish Length (mm) Length (mm)  66 EF 1 200 169 sec 800 CT 7 66 89  Roll# 3, Frame# 15, CD# 1, Image#51, Direction: Upstream, Scale/Comment:cam bag Roll# 3, Frame# 16, CD# 1, Image#52, Direction: Downstream, Scale/Comment:cam bag State = UTM. Spawning Habitat - fair - opportunistic only in small and scattered gravel patches - likely in parent stream.  Overwintering Habitat - fair - only few deeper pools with slower flow - likely move d/s to parent. Rearing Habitat - excellent in	Total Cover: /	Abundant								<del></del>			4					
Right Bank: Shape: V - shape Texture: Fines  CGravel  Cobble Boulder  Rock Manmade Crown Closure  Left Bank: Shape: V - shape Texture: Fines  CGravel  Cobble Boulder  Rock Manmade 1-20%  Right Bank: Rip. Veg: Coniferous Stage: Mature forest Instream Veg: None  Algae Moss Vascular  FEATURES  NID Map NID Type Hgt Method Lg Method Photo UTM (Z/E/N) Method  093L.060 30661 BMA AL GE R: F: 9.689630.6052810 GIS  Comments: real mouth at site UTM  FISH  Site Number Capture Method Events (m) Time Fish Length (mm) Length (mm)  66 EF 1 200 169 sec 800 CT 7 66 89  Roll# 3, Frame# 15, CD# 1, Image#51, Direction: Upstream, Scale/Comment: cam bag Site = UTM. Spawning Habitat - fair - only few deeper pools with slower flow - likely move d/s to parent. Rearing Habitat - excellent in			huted		·			m			1						FS	s <b>z</b> ∙ □
Left Bank: Shape: V - shape Texture: Fines Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel Gravel G		•		Text	une: Fines	s 🗸 Gr	avel	✓ C	obble	Вои	lder 🗸	Roci	, []	Manmade	<u>==.</u> 7	Cı		_
Left Bank: Rip.Veg: Stage: Mature forest Instream Veg: None ✓ Algae  Moss  Vascular    FEATURES  NID Map  NID  Type  Hgt  Method  Lg  Method  Photo	} -	•	•			=		=	_	=			=	=	=			
NiD Map   NiD   Type   Hgt   Method   Lg   Method   Photo   UTM (Z/E/N)   Method   Method   O93L.060   30661   BMA   AL   GE   R:   F:   9.689630.6052810   GIS	1		Coniferous			-	•				•			🗖	<b></b> Г	7		
NID Map NID Type Hgt Method Lg Method Photo UTM (Z/E/N) Method 093L.060 30661 BMA AL GE R: F: 9.689630.6052810 GIS  Comments: real mouth at site UTM    Site Number   Capture   Number of Events   Length fished   Total Voltage   Species   Total   Minimum   Length (mm)   Length (mm)	Len Bank:	Rip.veg:		******		Stag	je: M	ature t					veg	: None 💇	Algae L	Moss	∐ Va	scular
O93L.060 30661 BMA AL GE R: F: 9.689630.6052810 GIS  Comments: real mouth at site UTM  F1.S.H  Site Number   Capture   Number of Events   Length fished   Total   Voltage   Species   Total   Minimum   Length (mm)   Length (mm)   Length (mm)   Length (mm)   Length (mm)   Length (mm)   Length (mm)   Length (mm)   Length (mm)   Length (mm)   Length (mm)   Length (mm)   Length (mm)   Length (mm)   Length (mm)   Length (mm)   Length (mm)   Length (mm)   Length (mm)   Length (mm)   Length (mm)   Length (mm)   Length (mm)   Length (mm)   Length (mm)   Length (mm)   Length (mm)   Length (mm)   Length (mm)   Length (mm)   Length (mm)   Length (mm)   Length (mm)   Length (mm)   Length (mm)   Length (mm)   Length (mm)   Length (mm)   Length (mm)   Length (mm)   Length (mm)   Length (mm)   Length (mm)   Length (mm)   Length (mm)   Length (mm)   Length (mm)   Length (mm)   Length (mm)   Length (mm)   Length (mm)   Length (mm)   Length (mm)   Length (mm)   Length (mm)   Length (mm)   Length (mm)   Length (mm)   Length (mm)   Length (mm)   Length (mm)   Length (mm)   Length (mm)   Length (mm)   Length (mm)   Length (mm)   Length (mm)   Length (mm)   Length (mm)   Length (mm)   Length (mm)   Length (mm)   Length (mm)   Length (mm)   Length (mm)   Length (mm)   Length (mm)   Length (mm)   Length (mm)   Length (mm)   Length (mm)   Length (mm)   Length (mm)   Length (mm)   Length (mm)   Length (mm)   Length (mm)   Length (mm)   Length (mm)   Length (mm)   Length (mm)   Length (mm)   Length (mm)   Length (mm)   Length (mm)   Length (mm)   Length (mm)   Length (mm)   Length (mm)   Length (mm)   Length (mm)   Length (mm)   Length (mm)   Length (mm)   Length (mm)   Length (mm)   Length (mm)   Length (mm)   Length (mm)   Length (mm)   Length (mm)   Length (mm)   Length (mm)   Length (mm)   Length (mm)   Length (mm)   Length (mm)   Length (mm)   Length (mm)   Length (mm)   Length (mm)   Length (mm)   Length (mm)   Length (mm)   Length (mm)   Length (mm)   Length (mm)   Length (mm)   Length (mm)   Length (mm)   Length (mm)   Length (mm)	NID Man	NID T-	سرن ا	₩.	Anthod	T :=	<b>#</b> :	Ant	<u> </u>			<b>S</b>		TNA (7/5/5/5		Mother	<b>~~</b>	
Site Number   Capture   Number of   Length fished   Total   Voltage   Species   Total   Minimum   Maximum   Length (mm)   Events   1   200   169 sec   800   CT   7   66   89    Roll# 3, Frame# 15, CD# 1, Image#51, Direction: Upstream, Scale/Comment:cam bag   Roll# 3, Frame# 16, CD# 1, Image#52, Direction: Downstream, Scale/Comment:cam bag   site = UTM. Spawning Habitat - fair - only few deeper pools with slower flow - likely move d/s to parent. Rearing Habitat - excellent in				+		r8			-	Pn				<del></del>			1	
Site Number   Capture   Number of   Length fished   Total   Voltage   Species   Total   Minimum   Maximum   Length (mm)   Events   1   200   169 sec   800   CT   7   66   89    Roll# 3, Frame# 15, CD# 1, Image#51, Direction: Upstream, Scale/Comment:cam bag   Roll# 3, Frame# 16, CD# 1, Image#52, Direction: Downstream, Scale/Comment:cam bag   site = UTM. Spawning Habitat - fair - only few deeper pools with slower flow - likely move d/s to parent. Rearing Habitat - excellent in	Comments:	real mouth	at site UT	Ä		•					· · · · · ·							
Site Number   Capture   Number of   Length fished   Total   Voltage   Species   Total   Minimum   Maximum   Length (mm)   Events   1   200   169 sec   800   CT   7   66   89    Roll# 3, Frame# 15, CD# 1, Image#51, Direction: Upstream, Scale/Comment:cam bag   Roll# 3, Frame# 16, CD# 1, Image#52, Direction: Downstream, Scale/Comment:cam bag   site = UTM. Spawning Habitat - fair - only few deeper pools with slower flow - likely move d/s to parent. Rearing Habitat - excellent in									FIS	H								
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Roll# 3, Frame# 15, CD# 1, Image#51, Direction: Upstream, Scale/Comment:cam bag Roll# 3, Frame# 16, CD# 1, Image#52, Direction: Downstream, Scale/Comment:cam bag site = UTM. Spawning Habitat - fair - opportunistic only in small and scattered gravel patches - likely in parent stream. Overwintering Habitat - fair - only few deeper pools with slower flow - likely move d/s to parent. Rearing Habitat - excellent in	66		1	TS .	1	-			.	ຂດຄ		СТ			_		Leng	
Roll# 3, Frame# 16, CD# 1, Image#52, Direction: Downstream, Scale/Comment:cam bag site = UTM. Spawning Habitat - fair - opportunistic only in small and scattered gravel patches - likely in parent stream. Overwintering Habitat - fair - only few deeper pools with slower flow - likely move d/s to parent. Rearing Habitat - excellent in											\_			L. '				
	Roll# 3, Fram site = UTM. S Overwintering	ne# 16, CD Spawning H g Habitat -	# 1, Imag labitat - fa fair - only	e#52 air - c	2, Directi opportur	ion; Do nistic on	wnst ity in	ream smai	, Scal II and	le/Corr scatte	nment: red gr	cam t avel p	bag atch					in

### BFP FFHI 2002/03 - Pierre/Twain Resampling

Watershed Code: 480-802100-66400-29800-0000-0000-000-000-000-000-000

Reach # ILP Map #

ILP#

Watershed	Code: 480-	802100-66400	0-29800-00	000-000	0-000-00	0.000	-000-000	-000		:	2.0			
				STR	EAM	REF	ERE	VCI)	1 G					
Gazetted Name	<del></del>						***************************************	Local	Name:					
Watershed Cod	le: 480-8021	00-66400-296	300-0000-0	000-00	0-000-00	0-000-	-000-000	ı	ILP	Map#:		ILF	供	
					F	EA	CH							
Reach #: 2.0	***************************************	U	TM(Zone/E	ast/No	orth): 9.6	89450	.6051919	······································			Samp	le Type:	Biase	ed
Length (km): .6	<b>:8</b>		ıpling:				gnitude:				-	C Zone:		
Gradient (%): 0			ement: Und	confine	d		Order:				Open v	vater:		
US Elev (m): 1: Bars: None		Diagonal	slands: Mid-chan	nel 🗆	Span	`	oarian Vo raid 🗌	-	on: duse:					
		<b>3</b>			, -,	SIT								
Site #: 67	,	Field UTW	1 9.689584	.60517	96	**********	***************************************	ncy: C	016	Crew:	MJ/SR	Date:	2002/0	7/24
Site Length (m			M 10.30179				_	-		S Consulting		24.0.	~~~~	
					C	HAN	NEL							
No Vis.Ch.:	Intermitte	nt: 🗌			Avg	Min	Max	#	] _		Avg	Min	Max	#
Dewatered:	Trib		nannel Wid		1.77	1.3	2.700	6	] [	Gradien			2	4
Stage: Low		<del></del>	Vetted Wid ankfull Dep	$\sim$	1.67 0.43	1.200 0.4	2.700 0.5	6 3	┥┖	Pool Depth	` /1		0.76	4
Med <b>⊻</b> High	:	mp (C): 9	На	: 8.3			Conducti	vitv: 30	_	1	urbidity.:	Turbid   Moderate	=	Low Clear 🗸
	,	/	,		M OR		oLoc							_
Bed Material:	Dominant: (	3ravels	D95 (c	m): 60			Bars: N		Side	✓ Diagon	al M	lid-channel	. ∏ s	Span 🗍
Sui	bdominant: C	obble	D (c	m): 2.	00									Braid 🗌
Channel Patte	ım: Imegular	, Wandering	islan	ds: Oct	casiona				1 B1	B2 B3	3 D1	D2 D	3	
·	ng: Decouple ent: Unconfin					C1	CATORS C2	;	C4 C	5 S1	S2 S	S4	 S5	
Morpholo		Riffle Pool			_			ເລ ⊟T		3 31 	32 S	, <b>,</b>		
					-	S O Y		ا تسد						
Total Cover: At	nundant			Туре:	SWD	LW		в	U	DP	ΟV	ΙV	l	
LWD: Fe			<del></del>	ount:	T	T		T	s	D	T	T	l	
LWD Dist: Ev		uted	Location: F	PISIO:					<b>V</b>		<b>V</b>		FS	iz: 🗌
Right Bank:	Shape: Un	dercut Text	ture: Fines	<b>✓</b> Gra	avei 🔲 (	Cobble	Bou	lder	Rock	Manmad	le 🗌	Ст	own Cl	osure
Left Bank:	Shape: Un		ture: Fines			Cobble		ider	Rock [	Manmad	le 🗌		21-	40%
Right Bank: Left Bank:	Rip.Veg: Sh Rip.Veg:	rubs		-	e: Not Ap e: Not Ap	-		In	stream V	eg: None [	Alcae	Moss	<b>√</b> Va:	scular 🗆
						·	EAT	*******		- <b>3</b>				
NID Map 1	NID Type	Hgt	Method	Lg	Meth			oto	1	UTM (Z/E/	N)	Method	T	
	0671 TRB		AL		GE	R	:	F:	9.	689457.605	1616	GIS	<u> </u>	
Comments:	ınmapped Li	3 trib	<del></del>											
						FIS	H							
Site Number	Capture Method	Number of Events	Length f	1	Tota Time		Voltag	e	Species	Total Fish		nimum yth (mm)		cimum (th (mm)
67	EF	1	100		48 se		700		СТ	4		76	Long	94
Roll# 6, Frame Roll# 6, Frame flows through Overwintering sections with p	e# 2, CD# 1 subalpine r Habitat - e:	l, Image#98 neadow spa xcellent - de	, Direction rsely fore ep and la	n: Dow sted. s rge po	nstream ite = U1 ols com	n, Sca TM. Ro Imon e	le/Comi earing H every 15	ment:d labitat õm on	log - typ i - excell average	ical pool ent in P/ca	iscade-b			

BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

3.0

ILP#

Watershed Code: 480-802100-66400-29800-0000-0000-000-000-000-000-000

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STREAM REFERENCING **Gazetted Name:** Local Name: Watershed Code: 480-802100-66400-29800-0000-0000-000-000-000-000-000 ILP Map #: ILP#: REACH Reach #: 3.0 UTM(Zone/East/North): 9.689485.6051331 Sample Type: Length (km): .30 Coupling: Magnitude: **BGC Zone:** Gradient (%): 7.3 Confinement: Confined Order: 3 Open water: Islands: US Elev (m): 1284 Riparian Vegetation: Bars: None Side Diagonal Mid-channel Span Braid Landuse: SITE Site #: 68 Field UTM 9.689466.6051561 Crew: MJ/SR Date: 2002/07/24 Site Length (m): 100 GIS UTM 10.301668 6051934 Agency Name: FINS Consulting Ltd. CHANNEL No Vis.Ch.: Intermittent: Min Max Avg Avg Min Max # Dewatered: Tribs.: Channel Width (m): 1.45 1.200 1.700 6 Gradient % 4.50 3 6 Wetted Width (m): 1.07 0.800 1.5 ĥ Pool Depth (m): 0.14 0.11 0.170 2 Stage: Low Bankfull Depth (m): 0.37 0.3 0.4 Med 🗸 Turbidity.: Turbia Low High -Temp (C): 9 pH: 8.3 Conductivity: 30 Moderate Clear V MORPHOLOGY Bed Material: Dominant: Cobble D95 (cm): 50.00 Bars: Non V Side Diagonal Mid-channel Subdominant: Boulders D (cm): 6.00 Braid Channel Pattern: Sinuous DISTURBANCE Islands: None INDICATORS Coupling: Coupled Confinement: Frequently Confined СЗ C5 S3 C4 **S4** Morphology: CP Cascade Pool COVER Total Cover: Moderate SWD LWD Type: DP OV īV В U Amount N Ŧ LWD: None Location: P/S/O: LWD Dist: Not Applicable FSZ: Shape: V - shape Texture: Fines ♥ Gravel Cobble ♥ Boulder ♥ Rock Manmade Right Bank: Crown Closure Shape: V - shape Texture: Fines 

Gravel Cobble

Boulder

Rock Manmade Left Bank: 21-40% Right Bank: Rip.Veg: Shrubs Stage: Not Applicable Left Bank: Rip.Veg: Stage: Not Applicable Instream Veg: None ☐ Algae ☐ Moss ✔ Vascular ☐ FISH Site Number Capture Number of Length fished Total Minimum Maximum Voltage Species Total Method Events (m) Time Fish Length (mm) Length (mm) 209 sec CT 2 87 91 Roll# 6, Frame# 3, CD# 1, Image#99, Direction: Upstream, Scale/Comment:cam bag Roll# 6, Frame# 4, CD# 1, Image#100, Direction: Downstream, Scale/Comment.cam bag flows through 10-15m wide gully sparsely forested by firs and spruces. site = UTM. Rearing Habitat - F-M - mainly in B/P sections. Spawning Habitat - none - large and semi angular substrate. Overwintering Habitat - none - too shallow. Other - overall fair - at low flow much better cover (B and large cobble), fast during runoff, cover may not be sufficient

BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

11 P#

Watershed Code: 480-802100-66400-29800-0000-0000-000-000-000-0000-000

Cazetted Name:   Local Name:   Watershed Code: 480-802100-66400-29800-0000-000-000-000-000-000-000   ILP Map #:   ILP #:
Reach #: 6.0
Reach #: 6.0         UTM(Zone/East/North): 9.689644.6050400         Sample Type: Biased         Biased           Length (km): .45         Coupling: Magnitude: BGC Zone: Open water: Unconfined Order: 3 Open water: US Elev (m): 1315         Open water: Open water: Us Elev (m): 1315         Islands: Riparian Vegetation: Riparian Vegetation: STE           STE           Site #: 69         Field UTM 9.689680.6050480         Agency: C016         Crew: MJ/SR Date: 2002/07/24         Date: 2002/07/24           Site Length (m): 100         GIS UTM 10.301815.6050827         Agency Name: FINS Consulting Ltd.
Length (km): .45         Coupling:         Magnitude:         BGC Zone:           Gradient (%): 3.6         Confinement: Unconfined         Order: 3         Open water:           US Elev (m): 1315         Islands:         Riparian Vegetation:           Bars: None
US Elev (m): 1315
SITE  Site #: 69 Field UTM 9.689680.6050480 Agency: C016 Crew: MJ/SR Date: 2002/07/24  Site Length (m): 100 GIS UTM10.301815.6050827 Agency Name: FINS Consulting Ltd.  CHANNEL
Site #: 69 Field UTM 9.689680.6050480 Agency: C016 Crew: MJ/SR Date: 2002/07/24 Site Length (m): 100 GIS UTM 10.301815.6050827 Agency Name: FINS Consulting Ltd.  CHANNEL
Site Length (m): 100 GIS UTM10.301815.6050827 Agency Name: FINS Consulting Ltd.  CHANNEL
No. Vis. Ch
No Vis.Ch.: Intermittent: Avg Min Max # Avg Min Max #
Dewatered:
Stage: Low Bankfull Deoth (m): 0.53 0.5 0.6 3
Med ✓ Turbidity.: Turbid Low High Temp (C): 9 pH: 8.2 Conductivity: 20 Moderate Clear
MORPHOLOGY
Bed Material: Dominant: Gravels D95 (cm): 10.00 Bars: Non 🗹 Side 🗌 Diagonal 🔲 Mid-channel 📗 Span [
Subdominant: Cobble D (cm): 2.00 Braid
Channel Pattern: Irregular, Wandering Islands: None DISTURBANCE O1 B1 B2 B3 D1 D2 D3  Coupling: Decoupled INDICATORS
Coupling: Decoupled INDICATORS INDICATORS C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
Morphology: RP Riffle Pool
COVER
Total Cover: Abundant Type: SWD LWD B U DP OV IV
LWD: Few Amount: T T N S D T T
LWD Dist: Evenly Distributed Location: P/S/O: VIII VIII VIII VIII VIII VIII VIII FSZ:
Right Bank: Shape: Undercut Texture: Fines 🗹 Gravel 🗌 Cobble 🗎 Boulder 🗎 Rock 📗 Manmade 📗 Crown Closure
Left Bank: Shape: Undercut Texture: Fines / Gravel Cobble Boulder Rock Manmade 1-20%  Right Bank: Rip. Veg: Shrubs Stage: Not Applicable
Left Bank: Rip.Veg: Stage: Not Applicable Instream Veg: None ☐ Algae ☐ Moss ✔ Vascular
FISH Site Number   Capture   Number of   Length fished   Total   Voltage   Species   Total   Minimum   Maximum
Method Events (m) Time Fish Length (mm) Length (mm
69 EF 1 100 149 sec 800 CT 1 133 133
Roll# 6, Frame# 18, CD# 2, Image#114, Direction: Upstream, Scale/Comment:cam bag Roll# 6, Frame# 19, CD# 2, Image#115, Direction: Downstream, Scale/Comment:cam bag site = UTM. flows through wide meadow in incised channel, forested in clumps. Overwintering Habitat - good - many deep pools, likely sufficient flow throughout the winter not to freeze. Spawning Habitat - good - many pure gravel sections with good holding areas. Rearing Habitat - excellent in abundant P/CB type cover

BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

ILP#

Watershed Code: 480-802100-66400-29800-0000-0000-000-000-000-000-000-000

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Gazetted Nan	ne:					ı	Local N	lame:					. [
Watershed Co	ode: 480-8021	00-66400-298	00-0000-0000-00	000-000	-000-0	000-000		ILP I	Map #:		ILP	#:	
				RI	= /A (C	).H							
Reach #: 8.	)	U1	M(Zone/East/No	orth): 9.689	9202.0	6049897				Sample	Type:	Biase	d
Length (km):			pling:		Mag	mitude:				BGC			
Gradient (%):			ment: Unconfine ands:	:d	Dim	Order: arian Ve			0	pen wa	ter:		
US Elev (m):				, <sub>-</sub> -			•						
Bars: None	_ Side ∟_	Diagonal L	Mid-channel (_	Span _		aid 🔝	Land	use:	·····				
				•		E							
Site #:			9.689285.60501			•	icy: C0			/SR	Date:	2002/07	/24
Site Length	m): 150	GIS UTM	10.301365.6050	)511		Age	ncy Nar	ne:FiNS	Consulting Ltd	l. 			
				CH	AN	NEL							
No Vis.Ch.:	Intermitte	ent: 🔲		Avg I	Min	Max	#	]		Avg	Min	Max	#
Dewatered:	Trib		annel Width (m):		.800	1.200	6		Gradient %:	0.25	0	1	4
Stage: Low			etted Width (m):		.600	1.200	6	ן ני	Pool Depth (m):	0.36	0.330	0.39	3
Med	<b>7</b>	Ва	nkfull Depth (m):	0.57	0.5	0.6	3	3	Turb	idity.:	Turbid	=	Low
High [	Tei	mp (C): 10	pH: 8.3		•	Conducti	vity: 30			М	oderate		lear 🗹
				MORF	## C	) e o c	•						
Bed Material:	Dominant: F	ines	D95 (cm): 1.	.00		Bars: No	on 🗹	Side [	Diagonal [	Mid-	-channel	☐ S	oan 🔲
s	ubdominant: (	Graveis	D (cm): 0.	.50								Ba	aid 🗌
Channel Pa	tem: Imegular	, Wandering	Islands: No			RBANCI		B1	B2 B3	D1	D2 D	3_	
Cour	ling: Decoupl	ed			INDIC	CATORS				$\Box$			
ł	nent: Unconfir	ned			C1	C2	C3 (	24 C5	S1 S2	S3	S4	S5	
Morpho	logy: LC	Large Channel		_[									
				C	O V	ER							
Total Cover:	Abundant		Type:	SWD	LWE	)	В	U	DP (	ov T	iV	1	
LWD: I	lone		Amount:	T	N		N	D	S	Т	N		
į.	Not Applicable	, [	ocation: P/S/0:									FS	z: 🗀
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Left Bank:	Shape: Ur		re: Fines 📝 Gr		obble	_	=	Rock	Manmade	ī	٥.	1-2	
Right Bank:	Rip.Veg: We			ge: Not App		_							
Left Bank:	Rip.Veg:		Stag	je: Not App	licabl	е	Ins	tream Ve	ıg: None 🗹 .	Algae [	Moss	🗌 Vas	cular 🗌
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Roll# 6, Fran	ne# 15, CD#	2, Image#11	1, Direction: U	pstream,	Scale	e/Comm	ent:M	J					
			2, Direction: D										
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BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

IIP#

Watershed Code: 480-802100-66400-29800-0000-0000-000-000-000-0000-000

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Gazetted Name:					Lo	cal Name	:				
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				RE	(CH						
Reach #: 9.0		บา	M(Zone/East/No	orth): 9.68920	4.6049515		\$	ample	•	Biase	<b>d</b>
Length (km): .43			pling:	M	agnitude:		_	BGC 2			
Gradient (%): 6.5			ment: Confined	-	Order: 2		0	pen wat	er:		
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Bars: None	Side 📙	Diagonal	Mid-channel	Span	Braid	Landuse:					
				SI	TE						
Site #: 71		Field UTM	9.689219.60499	80	Agenc	y: C016	Crew: MJ	/SR	Date:	2002/07	/24
Site Length (m):	150	GIS UTW	110.301289.6050	313	Agend	y Name: F	INS Consulting Ltd				:
				CHA	NNEL	_					
No Vis.Ch.:	Intermitte	nt: 🗸		Avg Mir	Max	#		Avg	Min	Max	#
Dewatered:	Trib	s.: 🗌 Ch	annel Width (m):	1.25 1	1.5	6	Gradient %:	4.75	3	7	4
Stage: Low ✓		W	etted Width (m):	0.55 0	1.3	6	Pool Depth (m):	0.00	0	0	3
Med		Ва	nkfuli Depth (m):	0.13 0.1	0.2	3	Turb	dity.:	Turbid	٦	Low
High 🗌	Ter	mp (C): 10	pH: 8.3		Conductivit	y: 20		•	oderate[	<u> </u>	lear 🗸
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Channel Pattern	n: Sinuous		Islands: No	ne DIS	TURBANCE	O1 E	11 B2 B3	D1	D2 D	3	
	: Coupled				DICATORS						
Confinemen	t: Frequen	tly Confined		C1	C2 C	3 C4	C5 S1 S2	S3	S4	S5	
Morpholog	y: CP (	Cascade Pool									
				CO	VER						
Total Cover: Trac	~e		Type:		WD B	Ιυ	DP C	ov T	IV	l	
			<del></del>	D			1 - 1 '	, , , ,			
LWD: Few			Amount:		TN	l s	N	T	T		
		uted L	ocation: P/S/O:		TN		N	-		FS	<b>7:</b> □
LWD Dist: Eve	nly Distribi	uted	ocation: P/S/O:								Z: 🗌
LWD Dist: Eve Right Bank:	nly Distribu Shape: Sk	oping (g Text	ocation: P/S/O:	avel Cobt	ole 🗹 Bould	er Roo	k Manmade			own Clo	sure
LWD Dist: Eve Right Bank: Left Bank:	nly Distribu Shape: Sk Shape: V -	oping (g Textorshape Textorshape	ocation: P/S/O: ure: Fines 🗹 Gr ure: Fines 🕡 Gr	avel Cobb	ole ✓ Bould	er Roo	k Manmade				sure
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BFP FFHI 2002/03 - Pierre/Twain Resampling

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Roll# 5, Frame# 22, CD#	1 Imaneli03	B Direction: Un	stream	Scale	Comm	entres	am han					
Roll# 5, Frame# 23, CD#	1, Image#94	I, Direction: Do	wnstrea	ım, Sca	ale/Con	nmen	t:cam b					
seepage with disconnect	ed mucky pu	ddles, no fluviu	ım, no c	hannel	l, no ba	nks. s	site = U	TM. Other - No	ifish h	abitat		
·												
]												
L												_

BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

ILP#

0 93L.060

			STR	EAMR	EFEREN	CING			
Gazetted Nan	ne:		<del></del>			ocal Name:			
Watershed Co	ode: 000-0000	00-00000-000	00-0000-0000-0	00-000-000-	000-000-000	ILP N	lap #: 93L.06	ال 0	P#: 60732
				RE	ACH				
Reach #: 1.0	0	UT	M(Zone/East/N	orth): 9.689	927.6051685		•••••	Sample Type:	Biased
Length (km):	.43	Cou	pling:		Magnitude:			BGC Zone:	
Gradient (%):			ment: Confined		Order:		(	Open water:	
US Elev (m):			ands:	,	Riparian Veg				
Bars: None	_ Side	Diagonal 🔲	Mid-channel [	J Span L		Landuse:			
				***************************************	ITE				
Site #:	-		9.689635.60518 110.301883.6053		_	cy: C016 cy:Name:FiNS			2002/07/24
				СН	ANNEL				
No Vis.Ch.:	=	=			/lin Max	#	-	Avg Min	Max #
Dewatered:	Trib		annel Width (m):	<del></del>	0 0	0 P	Gradient %		7 1
Stage: Low	_	<del></del>	etted Width (m): nkfull Depth (m):		0 0		ool Depth (m)	<del></del>	
Med High [	Ter	np (C): 9	pH: 8.0		Conductiv	ity: 40	Turt	oidity.: Turbid Moderate	= =
				MORP	HOLOG				
Bed Material:			D95 (cm):		Bars: No	n 🗌 Side 🖺	Diagonal	Mid-channe	
1	ubdominant:		D (cm):						Braid []
Channel Pat			Islands:		STURBANCE NDICATORS	O1 B1	B2 B3	D1 D2 [	<u>)3</u>
Coup	•					:3 C4 C5	S1 S2		 
Morpho				Ī					-
					OVER			🗆 . 🗆 .	
Total Cover:			Time	swb	LWD B	U	DP I	ov I iv	1
			Type: Amount:	SWD	LVVD B	<u> </u>	UP	00 10	
LWD:		T.	ocation: P/S/O:						FSZ:
Right Bank:	Shape:	Tevt	ıre: Fines 🗌 Gı	ravel Co	bble Bould	der Rock	Manmade		rown Closure
Left Bank:	Shape:			=	bble Bould	_ =	Manmade	]	OWN Closure
Right Bank:	Rip.Veg:		Sta	ge:	_		_	_	
Left Bank:	Rip.Veg:		Sta	ge:		instream Ve	g: None	Algae Moss	Vascular
				F	13 H				
Site Number	Capture	Number of	Length fished	Total	Voltage	Species	Total	Minimum	Maximum
	Method	Events	(m)	Time	700	N.EC	Fish	Length (mm)	Length (mm)
73	EF	1	10	20 sec	700	NFC	1 0	<u> </u>	<u> </u>
Roll# 5, Fram seepage, cha	ne# 25, CD# annelized bu	1, Image#96 t intermittent	, Direction: Do	wnstream, th for 50 m	, Scale/Comi n, than disco	ment:cam bag ntinuous, dry s	- channeliz sections, we		hannel short (10-15m)

BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

ILP#

1.0 931.060

						SIR	EAM	REF	ERE	NCI)	i G						
Gazetted N	ame:									Local !	Name:						
Watershed	Code: 00	0-00000	0-0000	0-000	00-0000-	0000-00	0-000-0	00-000-	000-000	,	IL	P Map #: 93L	060		ILP	#:	60733
								REAG	) ji								
Reach #:	1.0			UT	M(Zone/	East/No	rth): 9.0	689315.	605135	В	******		Sa	ımple	Type:	Bias	ed
Length (km	ı <b>):</b> .17				pling:		•		mitude:					BGC 2			
Gradient (%	•		Co		ment: Fr	equently	Confin		Order:				Op	en wat	ter:		
US Elev (m	1): 1292	_		_	ands:	_		_	arian V	egetati	on:						J
Bars: None	Sid	e LD	iagona		Mid-cha	nnei	Span	В	aid	Land	duse:						
								SIT	E								
Site			Field	UTM	9.68948	0.60513	90		Age	ncy: Cl	D1 <b>6</b>	Crew:	MJ/5	SR	Date:	2002/0	7/24
Site Lengt	h (m): 100	)	GIS	UTM	10.3016	64.6051	737		Age	ncy Na	me: Fi	INS Consulting	Ltd.				
							C	HAN	NEL								
No Vis.Ch.		ermitten	= .				Avg	Min	Max	#	].			Avg	Min	Max	#
Dewatered	: [	Tribs.	:⊔		annel Wid		0.00	0	0	0	4	Gradien	_	0.00	0	0	0
Stage: Lov	=				etted Wid		0.00	0	0	0	4 1	Pool Depth	(m):	0.00	0	- 0	10
Me	=	<b>+</b>	- (0)-				0.00			<u> </u>		7	urbid	-	Turbid	=	Low
Higl	¹∐	16114	p (C):		þł	1. 			Conducti					IVIC	oderate	 ********	Clear
B. d.M.d.							19.01	(PHC				П -:		1		·····	
Bed Materi	ai: Dom Subdom				D95 (d	cm): cm):			Bars: N	on 📙	Side	e 🔛 Diagon	al	J Mid-	channel	_	Span 📙 Braid 🗍
Channel F						•		DICTU	DDANG	- 04		4 PO D		D4 1	D0 D		жаю 🗀
1	upling:				ISIZ	nds:			RBANC CATORS		1   F	1 B2 B:	<u>, 1</u>	D1	<u>D2 D</u>	3 7 ]	
1	ement:							C1	C2	СЗ	C4	C5 S1	 S2	 S3	S4	 S5	
Могр	hology:																
			******					COV			<u> </u>	= 1 = _	*****				
Total Cove	-		*********			Туре:	SWD	LWI		в	U	DP I	O\	, 1	īV		
1					Ar	nount:		1	+	-	<u>-</u>						
LWD Dis				Γ	ocation:	P/S/0:										FS	sz: 🗌
Right Bank	c Sha	ine.		Textu	re: Fines	Gra	vei	Cobble	□ Rou	lder	Roci	k Manmad	٦		Crr	own Ch	<del>_</del>
Left Ban		-			re: Fines		vel	Cobble	=	ider	Roci	=	=		O.	J	334.0
Right Bank	c: Rip.V	/eg:				Stag	e:		_			_		_	_	_	
Left Bank	k: Rip.V	feg:				Stag	<b>8</b> :			ins	tream	Veg: None	A	igae _	_ Moss [	Va	scular
								F	EAT	URE	S						
NID Map	NID	Туре	Hgt	<del></del>	Method	Lg	Meth		,	oto		UTM (Z/E/	_	1	viethod	]	
093L.060	30741	BMA	l esaak		AL	<u> </u>	GE	R:		F:	L	9.689477.605	1357		GIS	Щ.	
Commen		паррес	·				·										
Ball# 6 F		CD# ^	)	4454	Dies - "		<del></del>	C=-1:	C							·	
Rol# 6, Fra												l st 25m from i	nout	h. drai	inace is	not a	s
mapped, e																	
1																	
1																	

### BFP FFHI 2002/03 - Pierre/Twain Resampling

Watershed Code: 480-802100-66400-29800-6750-0000-000-000-000-000-000-000

Reach # ILP Map #

1.0

ILP#

			STR	EAM	REF	ERE)	4CINC	i						
Gazetted Nan	ne:						Local Na	me:						
Watershed Co	ode: 480-8021	00-66400-298	00-6750-0000-00	00-000-00	00-000-	000-000		ILP M	ap #:		ILP	#:		
				F	REAC	2H								
Reach #: 1.6			M(Zone/East/N	orth): 9.6	89169.	6050473	}		:	Sample		Biase	đ	
Length (km):			pling:		Mag	initude:				BGC :	Zone:			
Gradient (%):			ment: Confined			Order:			0	pen wa	ter:			
US Elev (m):		lsi —	ands:	,	_ `	_	getation	:						
Bars: None	_ Side	Diagonal 🔛	Mid-channel _	Span	∐ Bı	raid 🔲	Landus	se:						
					SIT	E								
Site #:	_		9.689611.60509			-	ncy: C016			/SR	Date:	2002/07	724	
Site Length (	m): 700	GIS UTW	110.301763.6051	1314		Age	ncy Name	; FINS (	Consulting Ltd	l <b>.</b>				
				C	HAN	NEL								
No Vis.Ch.: Intermittent: Avg Min Max # Avg Min Max # Dewatered: Tribs.: Channel Width (m): 0.98 0.600 1.5 6 Gradient %: 4.00 3 5 4  Wetted Width (m): 0.88 0.600 1.200 6 Pool Depth (m): 0.53 0.39 0.63 3														
Dewatered:	Trib			-				<u> </u>						
Stage: Low	<b>7</b>	<del></del>	<del></del>	+		1.200	6	Po	ool Depth (m):	0.53	0.39	0.63	3	
Med	]		nkfull Depth (m):	0.17	0.1	0.2	3		Turb	idity.:	Turbid	=	LOW	
High ☐ Temp (C): 10 pH: 8.4 Conductivity: 50 Moderate ☐ Clear ✔  M.O.R.P.H.O.L.O.G.Y														
				MOR	PHC	LOG	Y							
Bed Material: Dominant: Cobble D95 (cm): 400.00 Bars: Non V Side Diagonal Mid-channel Span Subdominant: Gravels D (cm): 2.00 Braid														
Subdominant: Gravels D (cm): 2.00 Braid														
1	tem: Sinuous		islands: No	ne		RBANCE CATORS		B1	B2 B3	D1	D2 D	3		
1	ling: Coupled						LL	Ш.		111		<u> </u>		
1	nent: Confined logy: RP	z Riffle Pool		-	C1	C2 (	C3 C4	C5	S1 S2	S3	S4	\$5 		
Morpho	logy. Iti	CHIE I OOI		<u>.</u>	<u> </u>									
				•	V O	ER								
Total Cover: 1	Frace		Type:	SWD	LWI		В	U		ΟV	IV			
LWD: F	ew		ocation: P/S/O:	T	T		S	s	D	T	N			
LWD Dist: 1	Evenly Distrib	uted	.ocalion: P/S/O:								ليلاث	FS	z: 🗌	
Right Bank:	Shape: V -		ıre: Fines 🗹 Gr					Rock 🔲	Manmade	]	Cr	own Clos	sure	
Left Bank:	Shape: V -		ıre: Fines 🗹 Gr			_	lder 🗹 F	Rock 🗌	Manmade _	]		1-2	0%	
Right Bank:	Rip.Veg: Co	niferous		ge: Matur					🗂	г	٦	<b>-</b>		
Left Bank:	Rip.Veg:		Stag	ge: Matur	e torest	·	Instre	sam Veç	: None 🗌	Algae L	_ Moss	<b>Y</b> Vas	cular (_	
					F15	Ħ								
Site Number	Capture	Number of	Length fished	Tota		Voltage	Spe	ecles	Total	Minir			mum	
	Method	Events	(m)	Time					Fish	Length			h (mm)	
75	EF	1	700	187 s	ec	600		<u> </u>	9	10	)2	1	73	
Roll# 6, Fram flows through	ne# 9, CD# 2 v. namow a ool and cutb	2, Image#105 and steep wal ank cover (s	), Direction: Up , Direction: Do I gully. site = U parse but inhal	wnstrea JTM = m	m, Sca outh. F	ale/Com Rearing	ment:ca Habitat	m bag - F-M -						
<u>L</u>					· · · · · ·									

BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

#P#

2.0

Watershed Code: 480-802100-66400-29800-6750-0000-000-000-000-000-000-000

STREAM REFERENCING **Gazetted Name:** Local Name: Watershed Code: 480-802100-66400-29800-6750-0000-000-000-000-000-000-000 ILP Map #: ILP#: R F & C !! Reach #: 20 UTM(Zone/East/North): 9.688828.6050473 Sample Type: Biased Length (km): .37 Coupling: Magnitude: **BGC Zone:** Gradient (%): 0.8 Confinement: Unconfined Order: 1 Open water: US Elev (m): 1333 Islands: Riparian Vegetation: Bars: None Side Diagonal Mid-channel Span Braid Landuse: SITE Site #: 76 Field UTM 9.689170.6050443 Agency: C016 Crew: MJ/SR Date: 2002/07/24 Site Length (m): 120 GIS UTM 10.301287.6050885 Agency Name: FINS Consulting Ltd. CHANNEL No Vis.Ch.: Intermittent: Avg Min Max Min Max # Tribs.: Channel Width (m): Dewatered: 0.72 0.200 1.600 6 Gradient %: 0.33 0 3 Wetted Width (m): 0.68 Pool Depth (m): 0.200 1.5 6 0.61 0.58 0.65 2 Low 🗸 Bankfull Depth (m): 0.13 0.1 0.2 Turbidity.: Med Turbid Low High Clear 🗸 Temp (C): 14 pH: 7.2 Conductivity: 50 Moderate \_\_\_ MORPHOLOGY Bed Material: Dominant: Fines D95 (cm): 0.10 Side Diagonal Mid-channel Subdominant: Not Applicable D (cm): 0.10 Channel Pattern: Sinuous DISTURBANCE Islands: None **INDICATORS** Coupling: Decoupled Confinement: Unconfined C3 C4 C5 S1 **S3** Morphology: LC Large Channel COVER Total Cover: Trace Type: LWD Oν ١٧ Amount: N Ν N N S D I WD: None Location: P/S/O: FSZ: 🔲 LWD Dist: Not Applicable Texture: Fines 

Gravei Cobble Boulder Rock Manmade Right Bank: Shape: Undercut Crown Closure Texture: Fines 🗹 Gravel 🗌 Cobble 📗 Boulder 🔲 Rock 🔲 Manmade Left Bank: Shape: Undercut Right Bank: Rip.Veg: Wetland Stage: Not Applicable Instream Veg: None Algae Moss Vascular Left Bank: Rip.Veg: Stage: Not Applicable FEATURES NID Map Method NID Type Lg Method UTM (Z/E/N) Method 9.689129.6050355 30762 FSB 0931.060 GE GIS Comments: Headwaters of stream NID Map NID Method UTM (Z/E/N) Method Photo Method Type 9.689170.6050443 093L.060 30761 BMA GE GIS Comments: flows in eastern part of wetland FISH Site Number Capture Number of Length fished Total Voltage Species Total Minimum Method **Events** (m) Time Fish Length (mm) Length (mm) 76 EF 120 163 sec 600 CT 95 162 Roll# 6, Frame# 10, CD# 2, Image#106, Direction: Upstream, Scale/Comment:dog - creek source - bog Roll# 6, Frame# 11, CD# 2, Image#107, Direction: Downstream, Scale/Comment:cam bag site = UTM, wider and deeper channel for ~20m near edge of W/forest, than small, shallow into wetland, stream mapped wrong,

flows in eastern part of W than ends at HW. Overwintering Habitat - potentially in these two pools. Spawning Habitat - none. Other poor fish habitat, wetland reach, fish present in two pools near reach boundary

#### BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

ILP#

93L.060

						STR	EAM	REF	ERE	N G 1 1	4 G					
Gazetted N	ame:									Local	Name:					
Watershed	Code:	000-000	000-0000	0-000	000-0000-0	000-00	0-000-0	000-000	-000-000	)	ILF	Map #: 93L.06	0	ILP	#:	60734
								REA	СН							
Reach #:					TM(Zone/	East/No	orth): 9.						Sample		Bias	sed
Length (km	•				ıpling:	_		Ma	gnitude:					Zone:		
Gradient (%	•		Co		ement: Un	confine	d	D.	Order:			(	Open wa	ter:		
US Elev (m	_	_	1	_	lands:	_	1	_	parian V	•						
Bars: None		Side _	Diagona	1 📙	Mid-cha	nnel 📗	Span			Lan	duse:					
								SIT								
Site : Site Lengt		100			9.68965 Vi 10.3018				_	ncy: C ency Na		Crew: M IS Consulting Li	J <i>I</i> SR d.	Date:	2002/	07/24
							C	HAN	NEL							
No Vis.Ch	: 🖳	Intermitt	ent: 🔽	*******		***************************************	Avg	Min	Max	#	7	***************************************	Avg	Min	Max	#
Dewatered:         Tribs.:         Channel Width (m):         0.83         0.600         1.100         6         Gradient %:         15.25         3         23         4           Stage:         Low ✓         Wetted Width (m):         0.23         0         0.800         6         Pool Depth (m):         0.21         0.21         1																
Stane: Lov				_			0.23	0	0.800	6	1 [	Pool Depth (m	): 0.21	0.21	0.21	1
Stage. Low Me	==			Ba	ankfull De	pth (m):	0.13	0.1	0.2	3	] -	Tur	pidity.:	Turbid	7	Low
Higi	=	Te	emp (C): {	3	pŀ	t: <b>8.2</b>			Conduct	ivity: 50	)			loderate	=	Clear 🗹
							MO	RPH	OLOG	i Y		_				
Bed Mater		ominant: ominant:			,	cm): 15 cm): 1.			Bars: N	lon 🗹	Side	Diagonal	Mid	-channel		Span
Channel I	Pattern	r Imegula	r Wande	ก่กต	•	nds: No		DISTI	JRBANC	E O	1 B1	B2 B3	D1	D2 D	)3	
		: Couple		iii ig	1314	1105. 140	110		CATORS		<del>           </del>		ήT		Ť	
	. •	t: Confine			-			C1	C2	СЗ	C4 (	C5 S1 S2	2 53	S4	 S5	
Могр	hology	r. CP	Cascade	Pool	I			$\Box$		$\Box$					$\Box$	}
								COV	ER	<u></u>			, , <u>, , , , , , , , , , , , , , , , , </u>	1 43 1		
Total Cove	r. Trac	<b>19</b>				Type:	SWD	LW	TD C	В	U	DP	OV	ΙV	]	
LWE	D: None	8				nount:	S	N		N	N	N	D	T	1	
LWD Dis	t: Not	Applicab	e		Location:	P/S/O:									F	sz: 🗌
Right Ban	k: S	Shape: S	loping (g	Text	ture: Fines	<b>✓</b> Gr	avei	Cobble	Bou	ilder 🗌	Rock	Manmade		Cr	own C	losure
Left Ban	k:	Shape: S	loping (g	Text	ture: Fines	Gr	avei	Cobbl	B <b>√</b> Bou	ılder	] Rock	Manmade [			7	1-90%
Right Ban		ip.Veg: S	hrubs			-	ge: Not A							_	_	_
Left Ban	ik: R	ip.Veg:				Stag	ge: Not /	Applicat	ole	In	stream \	Veg: None	Algae	Moss	<b>∀</b> ] ∨	ascular _
									FEAT	URE	8					
NID Map	NI	Э Тур	e Hgt	T	Method	Lg	Met	ihod	Pì	roto		UTM (Z/E/N)		Method	]	
093L.060	307		1		AL	30	GE		t:	F:	L_	9,689664.60510	19	GIS		
Commen	ns: at	21% ~30	n u/s fron	n mou	uth - impas	ssable to	o all fish	) 								
								FIS	3 H							
Site Numbe		apture	Numb		Length		To		Voltag	e	Species		1	mum	•	aximum
	"	Rethod	Eve		(m	-	Yin	Į.				Fish	Lengt	h (mm)	Len	gth (mm)
77	Л.,	EF	1 1		10	10	39 9	Sec	600		NFC	0	}		\	<del></del>
	d inte	mittent	stream,	perc	olates un	dergro	und ~3	Om ws	from m	outh,	then be	ecomes organisted guily. Oth				shallow

### BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

!LP# 60735

	O FREAT	KEFEKENGIN		
Gazetted Name:		Local N	lame:	
Watershed Code: 000-000000-000	00-00000-0000-0000-000-000-0	00-000-000-000	ILP Map #: 931.060	ILP#: 60735
		REACH		
Reach #: 1.0	UTM(Zone/East/North): 9.0	690146.6050954	Sample	Type: Biased
Length (km): .54	Coupling:	Magnitude:	BGC	Zone:
	onfinement: Occasionally Con	Order: 1	Open w	ater:
US Elev (m): 1304	Islands:	Riparian Vegetatio	on:	
Bars: None Side Diagona	al Mid-channel Span		luse:	
		SITE		
	UTM 9.689682.6050904 S UTM 10.301874.6051246	Agency: C0 Agency Nar	ne: FINS Consulting Ltd.	Date: 2002/07/24
	c	HANNEL		
No Vis.Ch.: Intermittent:	Avg	Min Max #	Avg	Min Max #
Dewatered: Tribs.:	Channel Width (m): 0.00	0 0 0	Gradient %: 0.00	
Stage: Low	Wetted Width (m): 0.00	0 0 0	Pool Depth (m): 0.00	0 0 0
Med	Bankfull Depth (m): 0.00	0 0 0	Turbidity.:	Turbid Low
High Temp (C):	pH:	Conductivity:	!	Moderate Clear C
	MOF	PHOLOGY		
Bed Material: Dominant:	D95 (cm):	Bars: Non 🗌	Side Diagonal Mi	d-channel 🗌 Span 🔲
Subdominant:	D (cm):			Braid 🗌
Channel Pattern:	Islands:	DISTURBANCE 01	B1 B2 B3 D1	D2 D3
Coupling:		INDICATORS		
Confinement:		C1 C2 C3 (	C4 C5 S1 S2 S3	S4 S5
Morphology:				
		COVER		
Total Cover:	Type: SWD	LWD B	U DP OV	IV
LWD:	Amount:			
LWD Dist:	Location: P/S/O:			FSZ:
Right Bank: Shape:	Texture: Fines Gravel	Cobble Boulder	Rock Manmade	Crown Closure
Left Bank: Shape:	Texture: Fines Gravel	Cobble Boulder	Rock Manmade	
Right Bank: Rip.Veg:	Stage:		_	
Left Bank: Rip.Veg:	Stage:	Inst	tream Veg: None Algae	Moss Vascular
			<del></del>	
Roll# 6, Frame# 7, CD# 2, Imag				d., _bl
site = UTM. drainage disperses fluvium, drains W u/s, some exp		•	iscontinuous and dry airea	dy channel, no
1				
1				
1				
	· · · · · · · · · · · · · · · · · · ·	<del></del>		

BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

ILP#

2.0 931.060

STREAM REFERENCING **Gazetted Name:** Local Name: ILP Map #: 93L 060 60736 Reach #: 2.0 UTM(Zone/East/North): 9.689870.6050165 Sample Type: Length (km): .12 Coupling: Magnitude: **BGC Zone:** Gradient (%): 3.3 Confinement: Unconfined Order: 2 Open water: US Elev (m): 1329 Islands: Riparian Vegetation: Bars: None Side Diagonal Mid-channel Span Braid Landuse: SITE Field UTM 9.689788,6050257 Agency: C016 Crew: Date: 2002/07/24 Site Length (m): 150 GIS UTM 10.301909.6050588 Agency Name: FINS Consulting Ltd. CHANNEL No Vis.Ch.: Intermittent: Avg Min Max # Avg Min Max # Tribs.: Dewatered: Channel Width (m): 0.300 0.43 0.600 6 Gradient % 0.25 ō 4 Wetted Width (m): 0.37 0.300 0.5 6 Pool Depth (m): 0.00 Low Bankfull Depth (m): 0.17 0.1 0.2 3 Med 🗸 Low Turbidity.: Turbid Clear 🗸 High -Temp (C): 22 pH: 7.5 Conductivity: 30 Moderate MORPHOLOGY Bed Material: Dominant: Fines D95 (cm): 0.10 Bars: Non 🗸 Side Diagonal Mid-channel Span Subdominant: Not Applicable D (cm): 0.10 Braid Channel Pattern: Irregular, Wandering Islands: None DISTURBANCE INDICATORS Coupling: Decoupled Confinement: Unconfined СЗ C4 C5 S1 **S2** S3 **S4** Morphology: LC Large Channel COVER SWD LWD Total Cover: Trace В u DP OV ī٧ Type: Amount: N N s D N LWD: None Location: P/S/O: LWD Dist: Not Applicable FSZ: Shape: Sloping (g Texture: Fines ✔ Gravel Cobble Boulder Rock Manmade Right Bank: Crown Closure Shape: Sloping (g Texture: Fines Gravel Cobble Boulder Rock Manmade Left Rank 1-20% Right Bank: Rip.Veg: Wetland Stage: Not Applicable Left Bank: Rip.Veg: Stage: Not Applicable Instream Veg: None Algae Moss Vascular FISH Capture Length fished Minimum Maximum Site Number Number of Total Voltage Species Total Length (mm) **Events** Fish Length (mm) (m) EF 150 133 sec 800 NFC 0 Roll# 6, Frame# 20, CD# 2, Image#116, Direction: Upstream, Scale/Comment:cam bag Roll# 6, Frame# 21, CD# 2, Image#117, Direction: Downstream, Scale/Comment:cam bag site = UTM. Other - No fish habitat - shallow and exposed to sun channel through W

BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

ILP#

1.0 93L.060

	STREAM	REFERENCIN:	G	
Gazetted Name:		Local Na	ame:	
Watershed Code: 000-000000-0000	0-00000-0000-0000-000-000-0	00-000-000-000	ILP Map #: 93L.060	ILP#: 60738
	1	REACH		
Reach #: 1.0	UTM(Zone/East/North): 9.6	89423.6049916	Sample 1	Type: Biased
Length (km): .35	Coupling:	Magnitude:	BGC Z	one:
• •	onfinement: Confined	Order: 1	Open wat	er:
US Elev (m): 1350	Islands:	Riparian Vegetation		
Bars: None Side Diagona	il Mid-channel Span	Braid Landu	rse:	
		SITE		
	UTM 9.689413.6050225	Agency: C01		Date: 2002/07/24
Site Length (m): 100 Gi	S UTM 10.301509.6050613		ne: FINS Consulting Ltd.	
		HANNEL		
No Vis.Ch.: Intermittent:	Avg	Min Max #	Avg	Min Max #
Dewatered: Tribs.:	Channel Width (m): 0.00  Wetted Width (m): 0.00	0 0 0	Gradient %: 0.00 Pool Depth (m): 0.00	0 0 0
Stage: Low	Bankfull Depth (m): 0.00	0 0 0		Turbid Low
Med Temp (C):	pH:	Conductivity:	Turbidity.:	derate Clear
High Temp (C):	<u> </u>	PHOLOGY		
Red Meterials Deminest		Bars: Non	Side Diagonal Mid-	channel Span
Bed Material: Dominant: Subdominant:	D95 (cm): D (cm):	Dais. Noi [_]	Side Diagonal Mile	Braid
Channel Pattern:	Islands:	DISTURBANCE O1	B1 B2 B3 D1	D2 D3
Coupling:	isialius.	INDICATORS		
Confinement:		C1 C2 C3 C	C4 C5 S1 S2 S3	S4 S5
Morphology:				
		COVER		
Total Cover:	Type: SWD	LWD B	U DP OV	iV
LWD:	Amount:			
LWD Dist:	Location: P/S/O:			FSZ:
Right Bank: Shape:	Texture: Fines Gravel	Cobble Boulder	Rock Manmade	Crown Closure
Left Bank: Shape:	Texture: Fines Gravel	Cobble Boulder	Rock Manmade	
Right Bank: Rip.Veg:	Stage:		🗀	
Left Bank: Rip.Veg:	Stage:	Inst	tream Veg: None Algae	_ Moss _ Vascular {_
Roll# 6, Frame# 17, CD# 2, Ima	ge#113, Direction: Upstream	n, Scale/Comment:car	m bag	a. Na fiah babitat
seepage - drains W u/s, water s	eeps through ground with o	casional wet and squ	isny spots. Site = UTM. Oth	er - INO IISH HADIIAL
1 .				
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BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

ILP#

1.0 93L.060

	STREAMREFER	ENCING	
Gazetted Name:		Local Name:	
Watershed Code: 000-000000-0000	0-00000-0000-0000-000-000-000-000-000-0	00 ILP Map #: 93L.060	ILP#: 60739
	REACH		
5 1845	UTM(Zone/East/North): 9.689113.6050	000 Sam	ple Type: Biased
Reach #: 1.0 Length (km): .20	Coupling: Magnitus	<u> </u>	GC Zone:
	- · • •		water:
US Elev (m): 1334		Vegetation:	
Bars: None Side Diagona	Mid-channel Span Braid	Landuse:	
Bets, trains   Size   Sixyer	SITE		
Site #: 81 Field		gency: C016 Crew: MJ/SR	Date: 2002/07/24
		gency Name: FINS Consulting Ltd.	
	CHANNE		
No Vis.Ch.: ✓ Intermittent:	Avg Min Ma		wg Min Max #
Dewatered: Tribs.:	Channel Width (m): 0.00 0 0	0 Gradient %: 0	.00 0 0 0
Stage: Low	Wetted Width (m): 0.00 0 0		.60 0 0 0
Med Med	Bankfull Depth (m): 0.00 0 0	0 Turbidity	/.: Turbid Low
High Temp (C):	pH: Cond	activity:	Moderate Clear
	MORPHOLO	GY	
Bed Material: Dominant:	D95 (cm): Bars	Non Side Diagonal	Mid-channel Span
Subdominant:	D (cm):		Braid 🗌
Channel Pattern:	Islands: DISTURBA		1 D2 D3
Coupling:	INDICATO		
Confinement:	C1 C2	C3 C4 C5 S1 S2	S3 S4 S5
Morphology:			
	COVER		
Total Cover:	Type: SWD LWD	B U DP OV	īV
LWD:	Amount:		
LWD Dist:	Location: P/S/O:		FSZ:
Right Bank: Shape:	Texture: Fines Gravel Cobble	Boulder Rock Manmade	Crown Closure
Left Bank: Shape:	Texture: Fines Gravel Cobble	Boulder Rock Manmade	
Right Bank: Rip.Veg:	Stage:		
Left Bank: Rip.Veg:	Stage:	Instream Veg: None Aig	ae Moss Vascular L
Roll# 6, Frame# 12, CD# 2, Ima	ge#108, Direction: Upstream, Scale/Co no channel, no fluvium, no water, just s	mment:cam bag puishy.cmund_site = UTM_Other	- No fish habitat
seepage draining to mainstean,	io chainter, no havions, no mater, just o	quary ground, one of the outer	
1			
1			

#### BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

!LP#

1.0 93L.060

					STR	EAM	REF	ERE)	I G I N	G						
Gazetted I	lame:	:							Local N	iame:	e:					
Watershed	l Code	e: 000-00	0000-0000	0-000	00-0000-0000-00	0-000-0	00-000-	000-000		IL	LP M	ap #: 93L.060		ILP	#: 6	50741
							REA(	2 (1								
Reach #	: 1.0			U.	TM(Zone/East/No	orth): 9.	687945.	6051721	1			5	ample	Туре:	Biase	d
Length (ku		7			pling:	-		gnitude:					BGC 2	Zone:		
Gradient (	%): 7.	4	Co	onfine	ment: Confined			Order:	1			O	pen wat	er:		
US Elev (	<b>m):</b> 12	:62		ls	lands:		Rip	arian Ve	egetatio	on:						
Bars: Non	<b>9</b> 🗌	Side [	Diagona	al 🗌	Mid-channel	Span	☐ Ba	raid 🗌	Land	luse:	:					
							811	E								
Site	#: 82				9.688094.60515			_	ncy: Ci				/MJ	Date:	2002/07	7/25
Site Leng	jth (m	): 100	GI	SUT	A 10.300337.6052	:086		Age	ncy Na	me: F	ins (	Consulting Ltd	•			
						C	HAN	NEL								
No Vis.Cl	1.: 🗹	interm	nittent: 🔲			Avg	Min	Max	#	1.		<u> </u>	Avg	Min	Max	#
Dewatere	d: 🗌	1	Tribs.:	<b>└</b>	annel Width (m):	0.00	0	0	0	-	L	Gradient %:	12.67	5	26 0	3
Stage: Lo	w 🗌				Vetted Width (m): ankfull Depth (m):	0.00	0	0	0	-		ool Depth (m):	0.00			
ŀ	ed 🔲		- (0)			0.00		1		د.		Turb	dity.:	Turbid oderate	=	Low Clear
H	gh 🔝		Temp (C):	*********	pH:			Conducti			*******		143		<u> </u>	
								) L O C		•			7		. 🗆 .	·
Bed Mate		Dominar Idominar			D95 (cm): D (cm):			Bars: N	on [_]	Sic	de	] Diagonal [		-channe	_	Span 🔲 Braid 🔲
			:16.				DICTI	IDD AND	E 04		D4	D2 D2	D1	D2 [		
Channel	Patte Couplin				Islands:			JRBANC CATORS			B1	B2 B3	H		<del>"</del>	
ı	ineme	-					C1	C2	сз	C4	C5	S1 S2	S3	S4	S5	
1	pholo												To			
	****						COY	ER								
Total Cov	er. No	ne			Туре:	SWD	LW		В	U	П	DP (	OV	ΙV	1	
LW					Amount:	N	N		N	N		N	N	N	1	
LWDD				Г	Location: P/S/O:										FS	sz: 🗌
Right Ba	nk:	Shape	<u>:</u>	Text	ture: Fines G	ravel	Cobble	Bol	ulder	Roc	ck 🗌	Manmade _		С	rown Ck	osure
Left Ba		Shape				ravel	Cobbk	e Bou	ılder	Roc	ck 🗌	Manmade	]			
Right Ba	nk:	Rip.Veg			Sta	ge:						_	_	_	_	
Left Ba	nk:	Rip.Veg	:		Sta	ge:			ln:	strear	m Ve	g: None	Algae	Moss	∐ Va:	scular
Roll# 6, F site = rea @ mouth	rame I mou , but	# 23, C ith = U1 is tiny s	D# 2, ima FM. on top teep trickl	ge#1 of val e dov	18, Direction: U 19, Direction: U illey wall (12m), yn valley wall. C arent due to cas	ipstrea , strean Other - i	m, Scai n flatter none - 1	le/Comi ns out a no wate	ment:c and cha ar on fla	am b Innel	l/wat	er dîsappear	s. "stre	am" is	channe ion, no	alized

#### BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

ILP#

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000-0000		00-0000-0000-00				ocal N	ame:					
			0-000-000	0-000-	000-000		ILP M	ap #: 93L.06	0	IL.P	#: (	60742
			R	EA(	211							
	117	M(Zone/East/No	<i>r</i> +h)∙ 9 68	27992	6051051	*******			Sample	Type:	Biase	ad .
		pling:	1 11/1. U.U.		mitude:				-	Zone:		
		ment: Occasiona	ily Con		Order:	2			Эреп wa	ter:		
•	Isl	ands:		Rip	arian Veç	etatio	n:					
Side 🔲 I	Diagonal 🗌	Mid-channel	Span [	Ba	raid 🗌	Land	use:					
				SIT	E							
	Field UTM	9.687878.60512	87		-	•				Date:	2002/0	7/25
100	GIS UTM	110.300113.6051	854		Agen	cy Nar	ne: FINS	Consulting L	ld.			
			C)	IAN	NEL							
Intermitte	nt: 🗌		Avg	Min	Max	#	]		Avg	Min	Max	#
Tribs			1.67	1.3	2.1	6				3	4	4
	<u> </u>		1.60	1.3			LP	ool Depth (m	): 0.36	0.29	0.41	14
	Ва	nkfuli Depth (m):	0.37	0.3	0.4	3	j	Tur	bidity.:	Turbid		Low
Ten	np (C): 9	pH: 8.0		(	Conductiv	ty: 40			М	loderate		Clear 🗹
			MOR	PH(	) ( O G							
ominant: C	obble	D95 (cm): 40	.00		Bars: No	n 🗹	Side	Diagonal	Mid	-channel	_	Span 📙
ominant: G	iravels	D (cm): 4.	00								Е	Braid 📙
: Sinuous		Islands: No	ne I			01	B1	B2 B3	D1	D2 D	3 .	
•						Ш					لل	
	-		_	C1	C2 C	3 (	24 C5	S1 S	2 53	S4	S5	
CP (	,asca0 <del>0</del> P001		_		اللل			<u>                                     </u>		144		
				O V	ER							
dant		Type:	SWD									***********
				LW			υ	DP	ov	IV		
1	_	Amount:	N	LWI			U N	DP D	ov S	IV N		
a Applicable	L	Amount: ocation: P/S/O:		<u> </u>			N		S		FS	sz: 🗌
	<u> </u>	<del> </del>	N	N	S		N	D	s	N	FS own Clo	
Applicable	shape Text	ocation: P/S/O:	N 	Cobble	Bould	ter 🗸	N		s	N	own Cl	
Applicable Shape: V -	shape Textor ping (g Textor	ure: Fines Gr Gr Gr Gr Gr Stag	N avel (	N Cobble Cobble	Bould Bould	der 🗸	Rock Rock	D Manmade Manmade	s	N Cr	ewn Cid	osure 20%
Applicable Shape: V - Shape: Slo	shape Textor ping (g Textor	ure: Fines Gr Gr Gr Gr Gr Stag	N avei (	N Cobble Cobble	Bould Bould	der 🗸	Rock Rock	D Manmade	s	N Cr	ewn Cid	osure
Applicable Shape: V - Shape: Slo p.Veg: Sh	shape Textor ping (g Textor	ure: Fines Gr Gr Gr Gr Gr Stag	N avel (	N Cobble Cobble	Bould Bould	der 🗸	Rock Rock	D Manmade Manmade	s	N Cr	ewn Cid	osure 20%
Applicable Shape: V - Shape: Slo p.Veg: Sh p.Veg:	shape Textorping (g Textorpubs	ure: Fines  G Grure: Fines  G Grure: Fines  G Grure: Stag	N avel (avel (be: Not Ap	Cobble Cobble oplicab oplicab	Bould Bould	der 🗸	Rock Rock	D Manmade Manmade	Algae Mini	N Cr Moss	own Clo	osure 20% scular
Applicable Shape: V - Shape: Slo p.Veg: Sh p.Veg: apture lethod	shape Texti ping (g Texti rubs	ure: Fines  @ Grure: Fines  @ Grure: Fines  @ Grure: Stag	N avel ( avel ( pe: Not Appe: Not Appe: Tota	Cobble Cobble Cobble Opplicab	Bould Bould Bould He He Voltage	der 🗸	Rock Rock tream Ve	Manmade Manmade Si None Manmade Total Fish	Algae Minin Lengti	N Cr Moss	own Clo	osure 20% scular kimum gth (mm)
Applicable Shape: V - Shape: Slo p.Veg: Sh p.Veg:	shape Texto ping (g Texto rubs  Number of Events	ure: Fines  G Grure: Fines  G Grure: Fines  G Grure: Stag	N avel (avel (be: Not Ap	Cobble Cobble Cobble Opplicab	S Bould be lie	der 🗸	N Rock Rock tream Ve	D Manmade Manmade	Algae Minin Lengti	N Cr Moss	own Clo	osure 20% scular
	Ten Ten Tribs Ten  minant: C  minant: G  Sinuous  Partially (  Coccasion  CP (	Intermittent: Tribs.: Chi W Ba Temp (C): 9  Intermittent: Chi W Ba Temp (C): 9  Intermittent: Chi W Ba Temp (C): 9  Intermittent: Chi W Ba Temp (C): 9	Intermittent: Channel Width (m): Wetted Width (m): Bankfull Depth (m): Bankfull Depth (m): Temp (C): 9 pH: 8.0  Intermittent: Dhannel Width (m): Wetted Width (m): Bankfull Depth (m): Depth (m): Depth (m): A.0  Intermittent: Dhannel Width (m): Bankfull Depth (m): Depth (m): A.0  Intermittent: Dhannel Width (m): Bankfull Depth (m): Depth (m): A.0  Intermittent: Dhannel Width (m): Bankfull Depth (m): Depth (m): A.0  Intermittent: Dhannel Width (m): Bankfull Depth (m): Bankfull Depth (m): Bankfull Depth (m): A.0  Intermittent: Dhannel Width (m): Bankfull Depth (m): Bankfull Depth (m): Bankfull Depth (m): Bankfull Depth (m): Bankfull Depth (m): Bankfull Depth (m): Bankfull Depth (m): Bankfull Depth (m): Bankfull Depth (m): Bankfull Depth (m): Bankfull Depth (m): Bankfull Depth (m): Bankfull Depth (m): Bankfull Depth (m): Bankfull Depth (m): Bankfull Depth (m): Bankfull Depth (m): Bankfull Depth (m): Bankfull Depth (m): Bankfull Depth (m): Bankfull Depth (m): Bankfull Depth (m): Bankfull Depth (m): Bankfull Depth (m): Bankfull Depth (m): Bankfull Depth (m): Bankfull Depth (m): Bankfull Depth (m): Bankfull Depth (m): Bankfull Depth (m): Bankfull Depth (m): Bankfull Depth (m): Bankfull Depth (m): Bankfull Depth (m): Bankfull Depth (m): Bankfull Depth (m): Bankfull Depth (m): Bankfull Depth (m): Bankfull Depth (m): Bankfull Depth (m): Bankfull Depth (m): Bankfull Depth (m): Bankfull Depth (m): Bankfull Depth (m): Bankfull Depth (m): Bankfull Depth (m): Bankfull Depth (m): Bankfull Depth (m): Bankfull Depth (m): Bankfull Depth (m): Bankfull Depth (m): Bankfull Depth (m): Bankfull Depth (m): Bankfull Depth (m): Bankfull Depth (m): Bankfull Depth (m): Bankfull Depth (m): Bankfull Depth (m): Bankfull Depth (m): Bankfull Depth (m): Bankfull Depth (m): Bankfull Depth (m): Bankfull Depth (m): Bankfull Depth (m): Bankfull Depth (m): Bankfull Depth (m): Bankfull Depth (m): Bankfull Depth (m): Bankfull Depth (m): Bankfull Depth (m): Bankfull Depth (m): Bankfull Depth (m): Bankfull Depth (m): Bankfull Depth (m): Bankfull Depth (m)	Field UTM 9.687878.6051287  GIS UTM 10.300113.6051854  Intermittent: Avg Tribs.: Channel Width (m): 1.67 Wetted Width (m): 1.60 Bankfull Depth (m): 0.37  Temp (C): 9 pH: 8.0  M: O R  Intermittent: Avg Unitermittent: Avg Unitermittent: Avg Unitermittent: 1.60 Bankfull Depth (m): 0.37  Temp (C): 9 pH: 8.0  M: O R  Intermittent: Avg Unitermittent: 1.60 Bankfull Depth (m): 0.37  Intermittent: 1.60 Bankfull Depth (m): 0.37  Int	Field UTM 9.687878.6051287  O0 GIS UTM10.300113.6051854  C H A N  Intermittent: Avg Min  Tribs.: Channel Width (m): 1.67 1.3  Wetted Width (m): 1.60 1.3  Bankfull Depth (m): 0.37 0.3  Temp (C): 9 pH: 8.0  M O R P H: Ominant: Cobble D95 (cm): 40.00  Imminant: Gravels D (cm): 4.00  Sinuous Islands: None DISTUINDIG  Cocasionally Confine C1  C O V	CHANNEL	Field UTM 9.687878.6051287  Agency: C0  GIS UTM 10.300113.6051854  Agency Nar  CHANNEL  Intermittent:  Tribs.:  Channel Width (m): 1.67 1.3 2.1 6  Wetted Width (m): 1.60 1.3 2.1 6  Bankfull Depth (m): 0.37 0.3 0.4 3  Temp (C): 9 pH: 8.0 Conductivity: 40  MOR PHOLOGY  Intermittent:  MOR PHOLOGY  Intermittent:  DISTURBANCE O1  INDICATORS  C1 C2 C3 (C)  C1 C2 C3 (C)  C1 C2 C3 (C)  C2 C3 (C)  C3 C4	Field UTM 9.687878.6051287   Agency: C016	Field UTM 9.687878.6051287   Agency: C016   Crew: S	Field UTM 9.687878.6051287   Agency: C016   Crew: SR/MJ	Field UTM 9.687878.6051287   Agency: C016   Crew: SR/MJ   Date: Agency Name: FINS Consulting Ltd.	Field UTM 9.687878.6051287   Agency: C016   Crew: SR/MJ   Date: 2002/0

#### BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach# ILP Map#

ILP#

2.0 93L.060

Maternahed Code: 000-00000-00000-0000-0000-0000-0000-0			STR	EAM	REF	EREN	ESIN!	G					
Reach #: 2.0	Gazetted Name:					L	ocal Na	ime:					
Reach 8: 2.0	Watershed Code: 000-0000	00-00000-000	00-0000-0000-0	00-000-00	0-000-	000-000		ILP M	ap #: 93L.06	0	ILP	#:	60742
Length (km): 1.44				7	E A	C H							
Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequent Confinement: Frequent Confinement: Frequent Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequently Confinement: Frequent Confinement: Frequent Confinement: Frequent Confinement: Frequent Confinement: Frequent Confinement: Frequent Confinement: Frequent	Reach #: 2.0	U1	M(Zone/East/N	orth): 9.6	87515.	.6049794				Sample	Type:	Bias	ed
US Elev (m): 1281	Length (km): 1.44	Сои	pling:	-	Mag	mitude:				BGC	Zone:		
Site   Diagonal   Mid-channel   Span   Braid   Landuse:	Gradient (%): 2.2	Confine	ment: Frequenti	y Confin		Order: 2	2		•	Open wat	ter:		
SITE	US Elev (m): 1281	Isi	ands:		Rip	arian Veg	etatior	1:					
Site #: 84   Field UTM 9.687480.6049991   Agency: C016   Crew. SR/MJ   Date: 2002/07/25	Bars: None Side 1	Diagonal	Mid-channel	Span [	В	raid 🗌	Landu	ise:					
No Vis.Ch:   Intermittent:   Channel Width (m): 1.65 1.20 2.1 6   Gradient %: 1.00 1 1 1 2   Pool Depth (m): 0.31 0.21 0.38 5   Stage: Low   Med   Temp (C): 9 pht 8.0   Conductivity: 40   Moderate   Clear   Pool Depth (m): 0.31 0.21 0.38 5   Turbidity: Turbid   Low   Moderate   Clear   Pool Depth (m): 0.31 0.21 0.38 5   Turbidity: Turbid   Low   Moderate   Clear   Pool Depth (m): 0.31 0.21 0.38 5   Turbidity: Turbid   Low   Moderate   Clear   Pool Depth (m): 0.31 0.21 0.38 5   Turbidity: Turbid   Low   Moderate   Clear   Pool Depth (m): 0.31 0.21 0.38 5   Turbidity: Turbid   Low   Moderate   Clear   Pool Depth (m): 0.31 0.21 0.38 5   Turbidity: Turbid   Low   Moderate   Clear   Pool Depth (m): 0.31 0.21 0.38 5   Turbidity: Turbid   Low   Moderate   Clear   Pool Depth (m): 0.31 0.21 0.38 5   Turbidity: Turbid   Low   Moderate   Clear   Pool Depth (m): 0.31 0.21 0.38 5   Turbidity: Turbid   Low   Moderate   Clear   Pool Depth (m): 0.31 0.21 0.38 5   Turbidity: Turbid   Low   Moderate   Clear   Pool Depth (m): 0.31 0.21 0.38 5   Turbidity: Turbid   Low   Moderate   Clear   Pool Depth (m): 0.31 0.21 0.38 5   Turbidity: Turbid   Low   Moderate   Clear   Pool Depth (m): 0.31 0.21 0.38 5   Turbidity: Turbid   Low   Moderate   Clear   Pool Depth (m): 0.31 0.21 0.38 5   Turbidity: Turbid   Low   Moderate   Clear   Pool Depth (m): 0.31 0.21 0.38 5   Turbidity: Turbid   Low   Moderate   Clear   Pool Depth (m): 0.31 0.21 0.38 5   Turbidity: Turbid   Low   Pool Depth (m): 0.31 0.21 0.38 5   Turbidity: Turbid   Low   Pool Depth (m): 0.31 0.21 0.38 5   Turbidity: Turbid   Low   Pool Depth (m): 0.31 0.21 0.38 5   Turbidity: Turbid   Low   Pool Depth (m): 0.31 0.21 0.38 5   Turbidity: Turbid   Low   Pool Depth (m): 0.31 0.21 0.38 5   Turbidity: Turbid   Low   Pool Depth (m): 0.31 0.21 0.38 5   Turbidity: Turbid   Low   Pool Depth (m): 0.31 0.21 0.38 5   Turbidity: Turbidity: Turbidity: Turbidity: Turbidity: Turbidity: Turbidity: Turbidity: Turbidity: Turbidity: Turbidity: Turbidity: Turbidity: Turbidity: Turbidity: Turbidity:					SIT	E							
No Vis.Ch.:   Intermittent:   Channel Width (m): 1.65 1.200 2.1 6   Wetted Width (m): 1.65 1.200 2.1 6   Bankfull Depth (m): 0.47 0.4 0.5 3   Turbidity: Turbid   Low   Moderate   Clear   Moderate   Clear   Moderate   Clear   Moderate   Clear   Moderate   Clear   Moderate   Clear   Moderate   Clear   Moderate   Clear   Moderate   Clear   Moderate   Clear   Moderate   Clear   Moderate   Clear   Moderate   Clear   Moderate   Clear   Moderate   Clear   Moderate   Clear   Moderate   Clear   Moderate   Clear   Moderate   Clear   Moderate   Clear   Moderate   Clear   Moderate   Clear   Moderate   Clear   Moderate   Clear   Moderate   Clear   Moderate   Clear   Moderate   Clear   Moderate   Clear   Moderate   Clear   Moderate   Clear   Moderate   Clear   Moderate   Clear   Moderate   Clear   Moderate   Clear   Moderate   Clear   Moderate   Clear   Moderate   Clear   Moderate   Clear   Moderate   Clear   Moderate   Clear   Moderate   Clear   Moderate   Clear   Moderate   Clear   Moderate   Clear   Moderate   Clear   Moderate   Clear   Moderate   Clear   Moderate   Clear   Moderate   Clear   Moderate   Clear   Moderate   Clear   Moderate   Clear   Moderate   Clear   Moderate   Clear   Moderate   Clear   Moderate   Clear   Moderate   Clear   Moderate   Clear   Moderate   Clear   Moderate   Clear   Moderate   Clear   Moderate   Clear   Moderate   Clear   Moderate   Clear   Moderate   Clear   Moderate   Clear   Moderate   Clear   Moderate   Clear   Moderate   Clear   Moderate   Clear   Moderate   Clear   Moderate   Clear   Moderate   Clear   Moderate   Clear   Moderate   Clear   Moderate   Clear   Moderate   Clear   Moderate   Clear   Moderate   Clear   Moderate   Clear   Moderate   Clear   Moderate   Clear   Moderate   Clear   Moderate   Clear   Moderate   Clear   Moderate   Clear   Moderate   Clear   Clear   Clear   Clear   Clear   Clear   Clear   Clear   Clear   Clear   Clear   Clear   Clear   Clear   Clear   Clear   Clear   Clear   Clear   Clear   Clear   Clear   Clear   Clear   Clear   Clear   Clear   Clear   Clear	i					•	-				Date:	2002/0	7/25
No Vis.Ch.:	Site Length (m): 150	GIS UTN	10.299563.605	0544		Ageno	y Nam	e: FINS (	Consulting Li	d.			
Dewatered:				C	HAN	NEL							
Wetted Width (m): 1.65   1.200   2.1   6		~ = <del></del>								<u> </u>	<del></del>		
Bankfull Depth (m): 0.47 0.4 0.5 3 Turbidity: Turbid Low   High Temp (C): 9 pH: 8.0 Conductivity: 40 Moderate   Clear      MORPHOLOGY	Dewatered: Tribs							Ļ					
Bed Material: Dominant: Cobble   D95 (cm): 15.00   Bars: Non   Side   Diagonal   Mid-channel   Span   Braid   Subdominant: Gravels   D (cm): 1.00   DISTURBANCE   O1 B1 B2 B3 D1 D2 D3   NDICATORS   D (cm): 1.00   DISTURBANCE   O1 B1 B2 B3 D1 D2 D3   NDICATORS   D (cm): 1.00   DISTURBANCE   O1 B1 B2 B3 D1 D2 D3   NDICATORS   D (cm): 1.00   DISTURBANCE   O1 B1 B2 B3 D1 D2 D3   NDICATORS   D (cm): 1.00   DISTURBANCE   O1 B1 B2 B3 D1 D2 D3   NDICATORS   D (cm): 1.00   DISTURBANCE   O1 B1 B2 B3 D1 D2 D3   NDICATORS   D (cm): 1.00   DISTURBANCE   O1 B1 B2 B3 D1 D2 D3   NDICATORS   D (cm): 1.00   D (cm): 1.00   D (cm): 1.00   D (cm): 1.00   D (cm): 1.00   D (cm): 1.00   D (cm): 1.00   D (cm): 1.00   D (cm): 1.00   D (cm): 1.00   D (cm): 1.00   D (cm): 1.00   D (cm): 1.00   D (cm): 1.00   D (cm): 1.00   D (cm): 1.00   D (cm): 1.00   D (cm): 1.00   D (cm): 1.00   D (cm): 1.00   D (cm): 1.00   D (cm): 1.00   D (cm): 1.00   D (cm): 1.00   D (cm): 1.00   D (cm): 1.00   D (cm): 1.00   D (cm): 1.00   D (cm): 1.00   D (cm): 1.00   D (cm): 1.00   D (cm): 1.00   D (cm): 1.00   D (cm): 1.00   D (cm): 1.00   D (cm): 1.00   D (cm): 1.00   D (cm): 1.00   D (cm): 1.00   D (cm): 1.00   D (cm): 1.00   D (cm): 1.00   D (cm): 1.00   D (cm): 1.00   D (cm): 1.00   D (cm): 1.00   D (cm): 1.00   D (cm): 1.00   D (cm): 1.00   D (cm): 1.00   D (cm): 1.00   D (cm): 1.00   D (cm): 1.00   D (cm): 1.00   D (cm): 1.00   D (cm): 1.00   D (cm): 1.00   D (cm): 1.00   D (cm): 1.00   D (cm): 1.00   D (cm): 1.00   D (cm): 1.00   D (cm): 1.00   D (cm): 1.00   D (cm): 1.00   D (cm): 1.00   D (cm): 1.00   D (cm): 1.00   D (cm): 1.00   D (cm): 1.00   D (cm): 1.00   D (cm): 1.00   D (cm): 1.00   D (cm): 1.00   D (cm): 1.00   D (cm): 1.00   D (cm): 1.00   D (cm): 1.00   D (cm): 1.00   D (cm): 1.00   D (cm): 1.00   D (cm): 1.00   D (cm): 1.00   D (cm): 1.00   D (cm): 1.00   D (cm): 1.00   D (cm): 1.00   D (cm): 1.00   D (cm): 1.00   D (cm): 1.00   D (cm): 1.00   D (cm): 1.00   D (cm): 1.00   D (cm): 1.00   D (cm): 1.00   D (cm): 1.00   D (cm): 1.00   D (cm):	Stage: Low							L Po	ool Depth (m	0.31	0.21	0.38	5
Bed Material: Dominant: Cobble	. =	<del></del>		4 0.47					Turi	-		4	
Bed Material: Dominant: Cobble Subdominant: Gravels D (cm): 1.00 Bars: Non  Side  Diagonal  Mid-channel  Span  Braid    Channel Pattern: Sinuous  Islands: None	High   len	np (C): 9	pH: 8.0							M	oderate	_ <u> </u>	Clear 🔽
Subdominant: Gravels D (cm): 1.00 Braid Channel Pattern: Sinuous Islands: None Coupling: Decoupled Confinement: Occasionally Confine Morphology. RP Riffle Pool C1 C2 C3 C4 C5 S1 S2 S3 S4 S5 Morphology. RP Riffle Pool DP OV IV LVD: None LWD: Not Applicable Left Bank: Shape: Undercut Texture: Fines									1				
Channel Pattern: Sinuous Coupling: Decoupled Confinement: Occasionally Confine Morphology: RP Riffle Pool  COVER  Total Cover: Abundant LWD: None LWD Dist: Not Applicable Left Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Right Bank: Righ	-		• •			Bars: Nor		Side _	Diagonal	Mid-	-channel	_	. =
Confinement: Occasionally Confine  Morphology: RP Riffle Pool  CO V ER  Total Cover: Abundant  LWD: None  LWD Dist: Not Applicable  Left Bank: Shape: Undercut  Right Bank: Shape: Undercut  Left Bank: Rip. Veg: Shrubs  Right Bank: Rip. Veg: Stage: Not Applicable  Left Bank: Rip. Veg: Stage: Not Applicable  Stage: Not Applicable  Right Bank: Rip. Veg: Stage: Not Applicable  Right Bank: Rip. Veg: Stage: Not Applicable  Right Bank: Rip. Veg: Stage: Not Applicable  Right Bank: Rip. Veg: Stage: Not Applicable  Right Bank: Rip. Veg: Stage: Not Applicable  Right Bank: Rip. Veg: Stage: Not Applicable  Right Bank: Rip. Veg: Stage: Not Applicable  Right Bank: Rip. Veg: Stage: Not Applicable  Right Bank: Rip. Veg: Stage: Not Applicable  Right Bank: Rip. Veg: Stage: Not Applicable  Right Bank: Rip. Veg: Stage: Not Applicable  Right Bank: Rip. Veg: Stage: Not Applicable  Right Bank: Rip. Veg: Stage: Not Applicable  Right Bank: Rip. Veg: Stage: Not Applicable  Right Bank: Rip. Veg: Stage: Not Applicable  Right Bank: Rip. Veg: Stage: Not Applicable  Right Bank: Rip. Veg: Stage: Not Applicable  Right Bank: Rip. Veg: Stage: Not Applicable  Right Bank: Rip. Veg: Stage: Not Applicable  Right Bank: Rip. Veg: None   Right Bank: Rip. Veg: None   Right Bank: Rip. Veg: None   Right Bank: Rip. Veg: None   Right Bank: Rip. Veg: None   Right Bank: Rip. Veg: None   Right Bank: Rip. Veg: None   Right Bank: Rip. Veg: None   Right Bank: Rip. Veg: None   Right Bank: Rip. Veg: None   Right Bank: Rip. Veg: None   Right Bank: Rip. Veg: None   Right Bank: Rip. Veg: None   Right Bank: Rip. Veg: None   Right Bank: Rip. Veg: None   Right Bank: Rip. Veg: None   Right Bank: Rip. Veg: None   Right Bank: Rip. Veg: None   Right Bank: Rip. Veg: None   Right Bank: Rip. Veg: None   Right Bank: Rip. Veg: None   Right Bank: Rip. Veg: None   Right Bank: Rip. Veg: None   Right Bank: Rip. Veg: None   Right Bank: Rip. Veg: None   Right Bank: Rip. Veg: None   Right Bank: Rip. Veg: None   Right Bank: Rip. Veg: None   Right Bank: Rip. Veg: None   Right Bank: Rip. Veg		iavers	, ,										ш овж
Confinement Occasionally Confine Morphology: RP Riffle Pool  COVER  Total Cover: Abundant  LWD: None  LWD: None  LWD Dist: Not Applicable  Right Bank: Shape: Undercut  Left Bank: Shape: Undercut  Left Bank: Rip. Veg: Shrubs  Stage: Not Applicable  Left Bank: Rip. Veg: Shrubs  Stage: Not Applicable  Instream Veg: None   Algae   Moss   Vascular    FELS N  Right Number   Capture   Number of Events   Rip. Veg: Shrubs   Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right Right R	1	<b>.</b>	Islands: No	one			01	<u>B1</u>	B2 B3	<u>D1</u>	D2 D	3	
Total Cover: Abundant   Type: SWD LWD B U DP OV IV   Amount N N T S S D N   Location: P/S/O   Decation:						1 C	4 C5	S1 S2		<u>S4</u>	<u></u>		
Total Cover: Abundant  LWD: None  LWD Dist: Not Applicable  Right Bank: Shape: Undercut Left Bank: Shape: Undercut Right Bank: Rip. Veg: Shrubs Left Bank: Rip. Veg: Strubs Stage: Not Applicable  Stage: Not Applicable  Stage: Not Applicable  Stage: Not Applicable  Stage: Not Applicable  Stage: Not Applicable  Stage: Not Applicable  Stage: Not Applicable  Instream Veg: None Agae Moss Vascular  FISH  Site Number Capture Method Events (m) Time Fish Pents Voltage Species Total Minimum Length (mm)  Roll# 7, Frame# 7, CD# 2, Image#128, Direction: Upstream, Scale/Comment: probe  Roll# 7, Frame# 8, CD# 2, Image#129, Direction: Upstream, Scale/Comment: probe  Roll# 7, Frame# 8, CD# 2, Image#129, Direction: Downstream, Scale/Comment: probe  Roll# 7, Frame# 8, CD# 2, Image#129, Direction: Downstream, Scale/Comment: probe  Roll# 7, Frame# 8, CD# 2, Image#129, Direction: Downstream, Scale/Comment: probe  Roll# 7, Frame# 8, CD# 2, Image#129, Direction: Downstream, Scale/Comment: probe  Roll# 7, Frame# 8, CD# 2, Image#129, Direction: Downstream, Scale/Comment: probe  Roll# 7, Frame# 8, CD# 2, Image#129, Direction: Downstream, Scale/Comment: probe  Roll# 7, Frame# 8, CD# 2, Image#129, Direction: Downstream, Scale/Comment: probe  Roll# 7, Frame# 8, CD# 2, Image#129, Direction: Downstream, Scale/Comment: probe  Roll# 7, Frame# 8, CD# 2, Image#129, Direction: Downstream, Scale/Comment: probe  Roll# 7, Frame# 8, CD# 2, Image#129, Direction: Downstream, Scale/Comment: probe  Roll# 7, Frame# 8, CD# 2, Image#129, Direction: Downstream, Scale/Comment: probe  Roll# 7, Frame# 8, CD# 2, Image#129, Direction: Downstream, Scale/Comment: probe  Roll# 7, Frame# 8, CD# 2, Image#129, Direction: Downstream, Scale/Comment: probe  Roll# 7, Frame# 8, CD# 2, Image#129, Direction: Downstream, Scale/Comment: probe  Roll# 7, Frame# 8, CD# 2, Image#129, Direction: Ownstream, Scale/Comment: probe  Roll# 7, Frame# 8, CD# 2, Image#129, Direction: Ownstream, Scale/Comment: probe  Roll# 7, Frame# 8, CD# 2, Image#129, Direction: Ownstream, Scale/Comment: prob	ţ	•		-				<del>, ∞</del>	T			$\tilde{\overline{\Box}}$	
Total Cover: Abundant  LWD: None  LWD Dist: Not Applicable  Right Bank: Shape: Undercut Left Bank: Shape: Undercut Right Bank: Rip. Veg: Shrubs Left Bank: Rip. Veg: Strubs Stage: Not Applicable  Stage: Not Applicable  Stage: Not Applicable  Stage: Not Applicable  Stage: Not Applicable  Stage: Not Applicable  Stage: Not Applicable  Stage: Not Applicable  Rip. Veg: Stage: Not Applicable  Stage: Not Applicable  Stage: Not Applicable  Stage: Not Applicable  Rip. Veg: Stage: Not Applicable  Stage: Not Applicable  Stage: Not Applicable  Rip. Veg: Stage: Not Applicable  Stage: Not Applicable  Rip. Veg: Stage: Not Applicable  Stage: Not Applicable  Rip. Veg: Stage: Not Applicable  Rip. Veg: Stage: Not Applicable  Rip. Veg: Stage: Not Applicable  Rip. Veg: Stage: Not Applicable  Rip. Veg: Stage: Not Applicable  Rip. Veg: None   Rip. Veg: None   Rip. Veg: None   Rip. Veg: None   Rip. Veg: None   Rip. Veg: None   Rip. Veg: None   Rip. Veg: None   Rip. Veg: None   Rip. Veg: None   Rip. Veg: None   Rip. Veg: None   Rip. Veg: None   Rip. Veg: None   Rip. Veg: None   Rip. Veg: None   Rip. Veg: None   Rip. Veg: None   Rip. Veg: None   Rip. Veg: None   Rip. Veg: None   Rip. Veg: None   Rip. Veg: None   Rip. Veg: None   Rip. Veg: None   Rip. Veg: None   Rip. Veg: None   Rip. Veg: None   Rip. Veg: None   Rip. Veg: None   Rip. Veg: None   Rip. Veg: None   Rip. Veg: None   Rip. Veg: None   Rip. Veg: None   Rip. Veg: None   Rip. Veg: None   Rip. Veg: None   Rip. Veg: None   Rip. Veg: None   Rip. Veg: None   Rip. Veg: None   Rip. Veg: None   Rip. Veg: None   Rip. Veg: None   Rip. Veg: None   Rip. Veg: None   Rip. Veg: None   Rip. Veg: None   Rip. Veg: None   Rip. Veg: None   Rip. Veg: None   Rip. Veg: None   Rip. Veg: None   Rip. Veg: None   Rip. Veg: None   Rip. Veg: None   Rip. Veg: None   Rip. Veg: None   Rip. Veg: None   Rip. Veg: None   Rip. Veg: None   Rip. Veg: None   Rip. Veg: None   Rip. Veg: None   Rip. Veg: None   Rip. Veg: None   Rip. Veg: None   Rip. Veg: None   Rip. Veg: None   Rip. Veg: None   Rip. Veg: None   Rip. Veg				-					<u> </u>	11.11			
LWD: None LWD Dist: Not Applicable  Right Bank: Shape: Undercut Texture: Fines  Gravel Cobble Boulder Rock Manmade Crown Closure Left Bank: Shape: Undercut Texture: Fines  Gravel Cobble Boulder Rock Manmade 1-20% Right Bank: Rip. Veg: Shrubs Left Bank: Rip. Veg: Stage: Not Applicable Left Bank: Rip. Veg: Stage: Not Applicable Left Bank: Rip. Veg: Stage: Not Applicable Left Bank: Rip. Veg: Stage: Not Applicable Left Bank: Rip. Veg: Stage: Not Applicable Left Bank: Rip. Veg: Stage: Not Applicable Left Bank: Rip. Veg: Stage: Not Applicable Left Bank: Rip. Veg: Stage: Not Applicable Left Bank: Rip. Veg: Stage: Not Applicable Left Bank: Rip. Veg: Stage: Not Applicable Left Bank: Rip. Veg: Stage: Not Applicable Left Bank: Rip. Veg: None  Algae Moss Vascular  FISH  Site Number Capture Number of Length fished Total Voltage Species Total Minimum Maximum Length (mm)  84	Total Course About at		<b>-</b>				······································	1	- DD	ov 1			
LWD Dist: Not Applicable  Location: P/S/O  Right Bank: Shape: Undercut Texture: Fines  Gravel  Cobble  Boulder  Rock  Manmade  Crown Closure  Left Bank: Shape: Undercut Texture: Fines  Gravel  Cobble  Boulder  Rock  Manmade  1-20%  Right Bank: Rip.Veg: Stage: Not Applicable  Left Bank: Rip.Veg: Stage: Not Applicable  Left Bank: Rip.Veg: Stage: Not Applicable  Stage: Not Applicable  Instream Veg: None  Malgae  Moss  Vascular    FISH  Site Number  Capture  Number of  Length fished  Total  Voltage  Species  Total   Minimum  Maximum  Length (mm)  84					<b></b>		+						
Right Bank: Shape: Undercut Texture: Fines  Gravel Cobble Boulder Rock Manmade Texture: Fines  Gravel Cobble Boulder Rock Manmade Texture: Fines  Gravel Cobble Boulder Rock Manmade Texture: Fines  For Gravel Cobble Boulder Rock Manmade Texture: Fines For Gravel Cobble Boulder Rock Manmade Texture: Fines For Gravel Cobble Boulder Rock Manmade Texture: Fines For Gravel Cobble Boulder Rock Manmade Texture: Fines For Gravel Cobble Boulder Rock Manmade Texture: Fines For Gravel Cobble Boulder Rock Manmade Texture: Fines For Gravel Cobble Boulder Rock Manmade Texture: Fines For Gravel Texture: Fines For Gravel Cobble Boulder Rock Manmade Texture: Fines For Gravel Texture: Fines For Gravel Cobble Boulder Rock Manmade Texture: Fines For Gravel Texture: Fines For Gravel Cobble Boulder Rock Manmade Texture: Fines For Gravel Texture: Fines For Gravel Cobble Boulder Rock Manmade Texture: Fines For Gravel Texture: Fines For Gravel Texture: Fines For Gravel Cobble Boulder Rock Manmade Texture: Fines For Gravel Texture: Fines For Gravel Texture: Fines For Gravel Texture: Fines For Gravel Texture: Fines For Gravel Texture: Fines For Gravel Texture: Fines For Gravel Texture: Fines For Gravel Texture: Fines For Gravel Texture: Fines For Gravel Texture: Fines For Gravel Texture: Fines For Gravel Texture: Fines For Gravel Texture: Fines For Gravel Texture: Fines For Gravel Texture: Fines For Gravel Texture: Fines For Gravel Texture: Fines For Gravel Texture: Fines For Gravel Texture: Fines For Gravel Texture: Fines For Gravel Texture: Fines For Gravel Texture: Fines For Gravel Texture: Fines For Gravel Texture: Fines For Gravel Texture: Fines For Gravel Texture: Fines For Gravel Texture: Fines For Gravel Texture: Fines For Gravel Texture: Fines For Gravel Texture: Fines For Gravel Texture: Fines For Gravel Texture: Fines For Gravel Texture: Fines For Gravel Texture: Fines For Gravel Texture: Fines For Gravel Texture: Fines For Gravel Texture: Fines For Gravel Texture: Fines For Gravel Texture: Fines For Gravel Texture: Fines For G												-	
Left Bank: Shape: Undercut Texture: Fines  Gravel Cobble Boulder Rock Manmade 1-20% Right Bank: Rip. Veg: Stage: Not Applicable Left Bank: Rip. Veg: Stage: Not Applicable Left Bank: Rip. Veg: Stage: Not Applicable Left Bank: Rip. Veg: Stage: Not Applicable Left Bank: Rip. Veg: Stage: Not Applicable    Instream Veg: None  Algae	1			<u>نانانا</u> . ا						<u>1</u> -	السالسا		
Right Benk: Rip.Veg: Stage: Not Applicable Instream Veg: None Algae Moss Vascular   FISH  Site Number Capture Method Events (m) Time Voltage Species Total Fish Length (mm) Length (mm)  84 EF 1 150 388 sec 700 CT 1 60 60  Roll# 7, Frame# 7, CD# 2, Image#128, Direction: Upstream, Scale/Commentprobe Roll# 7, Frame# 8, CD# 2, Image#129, Direction: Downstream, Scale/Commentcam bag CT numbers above this very low in good habitat (caught 2 in 800m). site = UTM = upper reach. walked entire reach shocking - reach in lower end contains confined bedrock outcrop section with few small drops that may reduce fish access. Spawning Habitat - F-M - no significant areas, but occasional suitable gravel pockets. Overwintering Habitat - G - perennial flow, good pools. Rearing	1 -			=		=	=	=		╡	Cn		
Left Bank: Rip.Veg: Stage: Not Applicable Instream Veg: None Algae Moss Vascular  FESH  Site Number Capture Method Events (m) Time Voltage Species Total Fish Length (mm) Length (mm)  84 EF 1 150 388 sec 700 CT 1 60 60  Roll# 7, Frame# 7, CD# 2, Image#128, Direction: Upstream, Scale/Comment: probe Roll# 7, Frame# 8, CD# 2, Image#129, Direction: Downstream, Scale/Comment: above this very low in good habitat (caught 2 in 800m). site = UTM = upper reach. walked entire reach shocking - reach in lower end contains confined bedrock outcrop section with few small drops that may reduce fish access. Spawning Habitat - F-M - no significant areas, but occasional suitable gravel pockets. Overwintering Habitat - G - perennial flow, good pools. Rearing	· ·			_			e. [	NOCK	waimade	_		1~	20%
Site Number Capture Method Events Capture Method Capture Method Capture Method Capture Method Capture Method Capture Method Capture Method Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Cap		-		•	•		instr	eam Veg	r. None 🗹	Algae [	] Moss [	va	scular 🗌
Site Number Capture Method Events Capture Method Capture Method Capture Method Capture Method Capture Method Capture Method Capture Method Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Capture Cap						************	**********	60000000000				**********	
Method Events (m) Time Fish Length (mm) Length (mm)  84 EF 1 150 388 sec 700 CT 1 60 60  Roll# 7, Frame# 7, CD# 2, Image#128, Direction: Upstream, Scale/Commentprobe Roll# 7, Frame# 8, CD# 2, Image#129, Direction: Downstream, Scale/Commentcam bag CT numbers above this very low in good habitat (caught 2 in 800m). site = UTM = upper reach. walked entire reach shocking - reach in lower end contains confined bedrock outcrop section with few small drops that may reduce fish access. Spawning Habitat - F-M - no significant areas, but occasional suitable gravel pockets. Overwintering Habitat - G - perennial flow, good pools. Rearing	Su-Newbert Control	North and	1		•••••	***********			<b></b>				
Roll# 7, Frame# 7, CD# 2, Image#128, Direction: Upstream, Scale/Commentprobe Roll# 7, Frame# 8, CD# 2, Image#129, Direction: Downstream, Scale/Commentcam bag CT numbers above this very low in good habitat (caught 2 in 800m). site = UTM = upper reach. walked entire reach shocking - reach in lower end contains confined bedrock outcrop section with few small drops that may reduce fish access. Spawning Habitat - F-M - no significant areas, but occasional suitable gravel pockets. Overwintering Habitat - G - perennial flow, good pools. Rearing				1		vortage	26	ecies		ì			
Roll# 7, Frame# 8, CD# 2, Image#129, Direction: Downstream, Scale/Comment:cam bag CT numbers above this very low in good habitat (caught 2 in 800m). site = UTM = upper reach, walked entire reach shocking - reach in lower end contains confined bedrock outcrop section with few small drops that may reduce fish access. Spawning Habitat - F-M - no significant areas, but occasional suitable gravel pockets. Overwintering Habitat - G - perennial flow, good pools. Rearing	84 EF	1	150	388 s	ес	700		CT	1	6	0		60
Roll# 7, Frame# 8, CD# 2, Image#129, Direction: Downstream, Scale/Comment:cam bag CT numbers above this very low in good habitat (caught 2 in 800m). site = UTM = upper reach, walked entire reach shocking - reach in lower end contains confined bedrock outcrop section with few small drops that may reduce fish access. Spawning Habitat - F-M - no significant areas, but occasional suitable gravel pockets. Overwintering Habitat - G - perennial flow, good pools. Rearing													
	Roll# 7, Frame# 8, CD# 2 CT numbers above this ve reach in lower end contain	, Image#129 ery low in go ns confined l	), Direction: Do od habitat (cau pedrock outcro ional suitable (	ownstread ught 2 in op section gravel po	m, Sc 800m n with ockets	ale/Comn ). site = U few smal . Overwin	nentca JTM = I drops tering	am bag upper n that m Habitat	ay reduce f - G - perer	ish acce	ss. Spa	wning	Habitat

BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

ILP#

5.0 93L.060

			STR	EAM RE	EREN	ING				
Gazetted Nam	ne:				Lo	cal Name:				
Watershed Co	ode: 000-0000	00-00000-000	00-0000-0000-00	0-000-000-00	0-000-000	!LP	Map #: 93L060		ILP#:	60742
				RE/	CH					
Reach #: 5.0	1	117	M(Zone/East/No	odh)∙ Q 6874Q	2 6048660		9	Sample Type	· R	iased
Length (km):			pling:	•	agnitude:		Ì	BGC Zone		14360
Gradient (%):			ment: Frequently		Order: 1		o	pen water:	•	1
US Elev (m):			ands:		iparian Vege	tation:		•		1
Bars: None	Side	Diagonal 🗌	Mid-channel _	Span 🗌	Braid 🗌 I	anduse:				
				51	I E					
Site #:	B5	Field UTM	9,687082.60490	808	Agency	: C016	Crew: SR	/MJ Dat	te: 200	2/07/25
Site Length (	(m): 100	GIS UTW	10.299094.6049	598	Agenc	Name: FINS	Consulting Ltd	<b>l.</b>		
				CHA	NNEL					
No Vis.Ch.:	Intermitte	int: 🗌		Avg Min	Max	#		Avg Mi	n M	ax #
Dewatered:	Trib	s.: 🔲 Chi	annel Width (m):	1.20 0.9	1.700	6 T	Gradient %:	6.50 5		B 4
Stage: Low	٦	W	etted Width (m):	1.08 0.9	1.4	6	Pool Depth (m):	0.16 0.1	2 0.	21 4
Med Med	<b>7</b>	Ba	nkfull Depth (m):	0.33 0.3	0.4	3	Turb	idity.: Turt	oid	Low
High [	=	mp (C): 9	pH: 8.0		Conductivity	r. 40		Modera	ate 🗌	Clear 🗹
				MORPH	OLOGY					
Bed Material:	Dominant: (	Cobble	D95 (cm): 30	.00	Bars: Non	<b>✓</b> Side	Diagonal [	Mid-char	nel 🗌	Span 🗌
s	ubdominant: (	Gravels	D (cm): 2	.00						Braid 🗌
Channel Par	ttern: Sinuous		Islands: No	ne DIST	URBANCE	O1 B1	B2 B3	D1 D2	D3	
Cour	oling: Coupled			INE	ICATORS					
Confiner	nent: Frequen	tly Confined		C1	C2 C3	C4 C	5 S1 S2	S3 S4	\$ \$5	
Morpho	logy: CP	Cascade Pool								
				Ç.O.	/ER					
Total Cover: !	Moderate		Type:	SWD L	VD B	U	DP (	DV IV		
LWD: I	Fow		Amount:	Т	T S	S	D	S N		
	Evenly Distrib	uted (	ocation: P/S/O:							FSZ: 🔲
Right Bank:	Shape: Ur	demut Text	ıre: Fines 🗹 Gr	avei Cobb	le Roulde	Rock	Manmade	7	Crown	Closure
Left Bank:	Shape: V				ie Boulde		Manmade	í	Ç.O.	21-40%
Right Bank:	Rip.Veg: Co	· ·		e: Mature fore	_			_		
Left Bank:	Rip.Veg:			e: Mature fore		instream V	eg: None 🗌 .	Algae 🗹 Mo	oss 🗸	Vascular 🗌
					SH					
Site Number	Capture	Number of	Length fished	Total	Voltage	Species	Total	Minimum		Maximum
OID HOMBO	Method	Events	(m)	Time	Tomage	Ороскоз	Fish	Length (mr		ength (mm)
85	EF	1				СТ	1	62		62
			T-21							
			32, Direction: U							
1	•		3, Direction: D				•			
			roughout wetla							
			ring Habitat - M							iicaiii, but
		-								
1										
1										

BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

ILP#

i.0 93L.060

			STR	EAM R	FFE	RENC	VINC	1					
Gazetted Nam	e:					Lo	cal Na	me:	•				
Watershed Co	de: 000-0000	0-00000-0000	0-0000-0000-00	0-000-000	-000-00	00-000		ILP Ma	ap #: 93L.060		ILP	<b>李</b> : 1	60742
				R	EAC	H							
Reach #: 6.0		πט	M(Zone/East/No	orth): 9.68	7701.6	048793			5	ample	Type:	Biase	ed
Length (km):		Coup	•	•		nitude:				BGC 2	Zone:		
Gradient (%):			nent: Unconfine	d		Order: 1			0	pen wat	ter:		
US Elev (m):			ınds:		_	rian Vege							
Bars: None	∫ Side ∐ ∣	Diagonal 📋	Mid-channel		_		Landu	se:				*********	
					SITE			-					
Site #: 8			9.687526.60486 40.200407.6040			Agency			Crew: SR Consulting Ltd	/MJ	Date:	2002/0	/125
Site Length (	n): 100	GISUIM	10.299497.6049				y Nam	e: F 1113 (	Jonsuling Lic	•			
		. [			ANI	***************************************	<u> </u>			Aug	Min	Max	T # 7
No Vis.Ch.:	Intermitte Tribs	==	nnel Width (m):		Min 0.600	Max 1.600	# 6		Gradient %:	Avg 0.50	0.5	0.5	1 1
Dewatered:	_j inux ¬		etted Width (m):			1.600	6	Po	ool Depth (m)	0.29	0.22	0.38	4
Stage: Low Med	_  	Bar	nkfuli Depth (m):	0.33	0.3	0.4	3	<u> </u>	Turb	idity.:	Turbid	3	LOW
High	<del></del>	np (C): 20	pH: 8.2		C	onductivit	y: 40			-	oderate		Clear 🗹
				MORI	PHO	LOGY							
Bed Material:	Dominant: F	ines	D95 (cm): 8.	.00	E	Bars: Non	$\checkmark$	Side [	Diagonal	Mid	-channel		Span 🗌
S	ubdominant: G	iravels	D (cm): 0.	.10								E	Braid 🗌
Channel Pat	tem: Sinuous		Islands: No	ne C		RBANCE	_01_	B1	B2 B3	D1	D2 D	3	;
1 .	ling: Decouple					ATORS	Ш	Щ		111		يل	
1	ent: Unconfir	ed Riffle Pool		_	C1	C2 C3	3 C	4 C5	S1 S2	S3		S5	
могрпо	logy: RP I	CIME FOOI		_	Ш.			<u> </u>			1 🗀 1		
					OVE							•	
Total Cover. A	Ubundant		Type:	SWD	LWD	B	_	U N	DP D	OV	- IV S	ł	
LWD: I		Г	Amount: ocation: P/S/O:				nt.				<u> </u>	ļ <sub>-</sub> ,	sz: 🗍
	Not Applicable	' <u>L</u>		<u>[نالات</u> 	الـــالـــا ا		<u>1[1</u>			<u> </u>		own Ci	_
Right Bank:	Shape: Sk Shape: Sk		ine: Fines 🗹 Gr ine: Fines 🗹 Gr		Sobble (	_	=	Rock	Manmade	Ξ,	Cr		0% 0%
Left Bank: Right Bank:	Rip.Veg: Gr			ge: Not Ap	-	_	٠.		,	_			
Left Bank:	Rip.Veg:		-	ge: Not Ap			Insti	ream Veç	g: None	Algae [	Moss	U Va	iscular 🗹
					FIS	4							
Site Number	Capture	Number of	Length fished	Total	********	rs Voltage	Sı	pecles	Total	Mini	mum	Ma	ximum
One Number	Method	Events	(m)	Time					Fish	Lengt	h (mm)	Leng	gth (mm)
86	EF	1	100	104 se	ж	700		СТ	7		57	<u> </u>	210
Roll#7, Fran	ne# 14, CD# ble gradient. ses, pools - I	2, Image#13 site = UTM = setter in lowe	14, Direction: D 15, Direction: U 15 lower bounds r reach below	Ipstream, ary. CT pr	, Scale resent	e/Comme right to I	ent:do: HW re	g - lake Pach, ob	served in re	ach an	d lake. I	Rearin ce out	g Habitat et.

BFP FFHI 2002/03 - Pierre/Twain Resampling Reach # ILP Map # ILP# 93L.060 60743 STREAM REFERENCING **Gazetted Name:** Local Name: 60743 ILP Map #: 93L.060 ILP#: Reach #: 1.0 UTM(Zone/East/North): 9.688013.6051250 Sample Type: Biased **BGC Zone:** Length (km): .09 Coupling: Magnitude: Confinement: Unconfined Open water: Gradient (%): 1.1 Order: 1 US Elev (m): 1248 Islands: Riparian Vegetation: Bars: None Side Diagonal Mid-channel Span Braid Landuse: SITE Field UTM 9.687950.6051280 Agency: C016 Crew: SR/MJ Date: 2002/07/25 Agency Name: FINS Consulting Ltd. Site Length (m): 100 GIS UTM 10.300142.6051789 CHANNEL Avg Min Max Avg Min Max # No Vis.Ch.: intermittent: ñ Channel Width (m): 0.00 0 0 O Gradient % 0.00 O Dewatered: Tribs.: Pool Depth (m): 0.00 0 ō n Wetted Width (m): 0.00 n 0 Stage: Low Bankfull Depth (m): 0.00 n 0 Med Turbidity.: Turbid ... Low Clear Moderate \_\_\_ Conductivity: High Temp (C): MORPHOLOGY Side Diagonal Mid-channel Span Bed Material: Dominant: D95 (cm): Braid 🗌 Subdominant D (cm): DISTURBANCE Channel Pattern: Islands: INDICATORS Coupling: **S2** 53 C3 C4 **C5** S1 Confinement: Morphology: COVER SWD LWD В Type: Total Cover: Amount LWD: Location: P/S/O: FSZ: LWD Dist: Texture: Fines Gravel Cobble Boulder Rock Manmade Crown Closure Right Bank: Texture: Fines Gravel Cobble Boulder Rock Manmade Left Bank: Shape: Stage: Rip.Veg: Right Bank: Instream Veg: None Algae Moss Vascular Stage: Left Bank: Rip.Veg: Roll# 6, Frame# 24, CD# 2, Image#120, Direction: Upstream, Scale/Comment:view from "mouth", MJ standing at lake outlet mapped stream is NCD, squishy ground up to lake, at lake outlet stream is slightly channelized, before dispersing in grassy meadow, no connection to lake, but lake may have another unmapped outlet that provides access for fish from -66400, no fish observe. site = "mouth". NCD to lake, lake dashed red. Other - none

BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

ILP#

1 93L.060

					STR	EAM	REF	ERE	4 C I	NG						
Gazetted Nam	te:								Local	l Name	E		-			_
Watershed Co	de: 000	) ) ) )	)-00000-C	.0000-0000-	-0000-00	)-0 <del>00</del> -0	000-000	<b>-000</b> -000	)	H	LP Ma	ap #: 93L.060		ILP	#: 6	50744
							REA	CH								
Reach #: .1				UTM(Zone/	/East/N	orth): 9	68774	1 605018	 O	***************************************	***************************************	s	ample	Type:	Biase	d
Length (km):	.14			Coupling:	Lase	Huiji c.		ignitude:				-	BGC 2		•	-
Gradient (%):				finement: Fr	equently	y Confir		Order				Or	pen wat	ter:		
US Elev (m):				Islands:			Ri	parian V	egetat	tion:						
Bars: None	Side	Di	iagonal [	Mid-cha	annel 🗌	] Span	n 🔲 E	Braid 🗌	Lar	nduse:						
							5.1)	15								
Site #: 8				TM 9.68770				-	ncy: (			Crew: SR		Date:	2002/07	7/25
Site Length (	m): 200	*************	GIS U	JTM 10.2998	29.6050		***************************************		ancy N	ame: F	ins c	Consulting Ltd.	~~~~	***********	**********	***************************************
	<u></u>							NEL		<u> </u>		1		•		-
No Vis.Ch.:	inte	ermittent:	= _		<u> </u>	Avg	Min	Max	#	4	r—	3 "	Avg	Min	Max	#
Dewatered:		Tribs.:	<b>™</b> ⊢	Channel Wie		<del></del>	0.800		6	-	<u></u>	Gradient %:	2.75 0.12	0.070	0,170	4
Stage: Low			H	Wetted Wie Bankfull De			0.5	0.2	3	$\dashv$		ool Depth (m):	·			
Med € High	<u> </u>	Temr	ь р(С): 9		H: 8.1		1	Conduct		<u></u>		Turbi	•	Turbid   oderate	=	Low
,e r		·-·.	, (G), 1	•		M O	HQQ	OLOG		•						
Bed Material:	Domir	nant: Gr	evels.	D95	(cm): 12		4XXxxx	Bars: N		7 Sir	de 🗌	Diagonal [	7 Mid	-channel	ı∏ s	pan 🗌
	ubdomin			•	(cm): 2.			<b>.</b>		_	,	, bang	٠. د	·	_	Braid
Channel Pat	ttern: Sir	านอนร		lsk	ands: No	иe	DIST	URBANC	Έ <u>_</u>	)1 E	B1	B2 <u>B3</u>	D1	D <u>2</u>	03	
4,,	oling: De		į					CATOR								
Confinen			d				C1	C2	СЗ	C4	C5	S1 S2	S3	S4	S5	
Morpho	ology: R	iP Rif	iffle Pool													
							COV	/ER								
Total Cover: 1	Trace	***************************************			Туре:	SWD			В	U	Ī	DP C	DV	ΙV	1	
LWD: F			_	A	\mount:	Т	1		T	T	コ	D	s	N	1	
LWD: I		Distribute	ed [	Location:	P/S/O:					V		NO N			FS	sz: 🔲
Right Bank:	-	pe: V - s		exture: Fines	s 🗸 G	ravel	Copp	le 🗹 Bo	ulder[	Roc	ck 🗌	Manmade	7	Cı	- rown Ck	osure
Left Bank:	•	pe: Slopi		exture: Fine:	_	_	_	_	uider	==	=	Manmade	Ξ.		21-	40%
Right Bank:		eg: Shru			Stag	ge: Not	Applica				-		- -	_	_	F
Left Bank:	Rip.Ve	eg:			Star	ge: Not	Applicat	ble	i i	nstrear	n Veg	: None 🗹 /	Algae L	Moss	∐ Va	scular
								FEAT	UR	ES						
NID Map	NID	Туре	Hgt	Method	Lg		ethod		hoto			UTM (Z/E/N)		Method		
	30881	TRB		AL	二	G	Ε	R:	F:		9.6	87720.605020	i0	GIS		
Comments:	unmap	ped sea	sonal Lb	trib												
							FI	SH								
Site Number	Captı		Number		n fished		otal	Volta	Je	Spec	ies	Total		mum		ximum
	Meth		Events	, fu	m)	78	ime			- 1974		Fish	Lengu	h (mm)	Leng	jth (mm)
88	EF	<del>-</del>	1			<del></del>		<u> </u>		NFO	<u> </u>	0			1	
Rol# 7, Fram Rol# 7, Fram caught CT in rises slightly cover or wate Overwintering	ne# 3, 0 parent , more er deep	CD# 2, t to here foreste enoug	, Image# e, but loved, even gh to resi	124, Direct w numbers lower habi ide but acc	tion: Up s after c itat valu cessible	ostream anyon ue. Rea e and m	n, Scalo in R.2. aring H	e/Comm . site = r abitat - l	nent:n nouth P - ve	io scal i. grave iry sha	le els al illow,	low energy	crap w	rith v. lit	tle inst	ream
1																

### BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # !LP Map #

ILP#

1.0 93L.060

			SIR	EAMRE	FERENC	ING			
Gazetted Nam	e:				Loc	al Name:			
Watershed Co	de: 000-00000	00-00000-0000	0-0000-0000-00	0-000-000-0	00-000-000	ILP N	lap #: 93L060	ILP	#: 60744
				RE	ACH				
Reach #: 1.0	)	UT	M(Zone/East/No	orth): 9.6885	39.6050122			Sample Type:	Biased
Length (km):	.96	Cour	Ŧ		Magnitude:			BGC Zone:	
Gradient (%):	5.0		nent: Frequently		Order: 1		0	pen water:	
US Elev (m):			ands:		Riparian Veget	ation:			
Bars: None	Side 🔲 I	Diagonal	Mid-channel			anduse:			
					ITE				
Site #: 8			9.687747.60501		Agency:				2002/07/25
Site Length (	m): 150	GIS UTM	10.299845.6050			Name: FINS	Consulting Ltd	1.	
_	_				INNEL			F. T.	
No Vis.Ch.:	Intermitter		1347 1-1 / 1	Avg M		#	Gradient %:	Avg Min 5.75 4	Max #
Dewatered:	_ Tribs		nnel Width (m):	0.53 0.4 0.53 0.4		6 F	Gradient %: Pool Depth (m)		0.06 4
Stage: Low	=		etted Width (m): nkfull Depth (m):			<u> </u>		1	
Med	=	<u></u>		0.10   0.			Turb	idity.: Turbid	Low
High	Ten	np (C): 9	pH: 8.1		Conductivity	40	***************************************	Moderate	Clear
					HOLOGY		r	¬	. 🗂 .
	Dominant: G		D95 (cm): 20		Bars: Non	✓ Side [	_ Diagonal (	Mid-channe	l∐ Span Braid
S	ubdominant: F	ines	D (cm): 0.						Diaru
	tem: Sinuous		Islands: No		STURBANCE IDICATORS [	01 B1	B2 B3	D1 D2 [	) <u>3</u>
	ling: Decouple			 C	L	C4 C5	5 S1 S2	S3 S4	 
	nent: Occasion	Cascade Pool					, 3, 3 <u>2</u>		$\overline{\Box}$
MOIDIO	nogy. Or k	34304041001			<u> </u>	<u>                                     </u>		11 [ ] [ ]	رب
				***************************************	VER				1
Total Cover: 1	Trace		Type:	SWD	LWD B	U	DP S	OV IV	}
LWD: I	Few		Amount: ocation; P/S/O:						507.
LWD Dist: 1	Evenly Distribu	nted						<u></u>	FSZ:
Right Bank:	Shape: V -		ıre: Fines 🗹 Gı	=	obie Boulde	= =	_ Manmade _	ျှ င	rown Closure
Left Bank:	Shape: Un		ıre: Fines 📝 Gı		bbie Boulde	r Rock	_ Manmade _	_	41-70%
Right Bank: Left Bank:	Rip.Veg: Co	niferous		ge: Mature fo ge: Mature fo		instream Va	a: None 📝	Algae Moss	Vascular
reit Bank:	Rip.Veg:		3 <b>1</b> 4	90. WALLE			-g- 1,-s-10 (g)	3	
				F	ISH				
Site Number	Capture Method	Number of Events	Length fished (m)	Total Time	Voltage	Species	Total Fish	Minimum Length (mm)	Maximus Length (m
89	EF	1	150	279 sec	700	NFC	0		
	L			·		·			
Roll# 7, Fran inferred fish end of site it	ne# 5, CD# 2 use (unlikely secomes bor ely enough v	2, Image#126 ) to here, but derline creek vater to cove	, intermittent fl r fish, lacks ins	estream, So ough, shalk ow. etc. sit	:ale/Comment ower, steeper, e = UTM = sta	cam bag no instrear art of new re	n cover, less each. Rearing	water and 2 s Habitat - poor none - gravek	r - extremely

#### BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

ILP# 60745

1.0 931\_060

	STREAM	REFERENCING		
Gazetted Name:		Local Name	e:	
Watershed Code: 000-000000-000	00-00000-0000-0000-000-000-0	100-000-000-000	ILP Map #: 931_060	ILP#: 60745
		REACH		
Reach #: 1.0			Cample 7-	oe: Biased
Length (km): .34	UTM(Zone/East/North): 9. Coupling:	Magnitude:	Sample Typ BGC Zor	
* · ·	confinement: Occasionally Con	Order: 1	Open water:	
US Elev (m): 1287	Islands:	Riparian Vegetation:	•	
Bars: None Side Diagon	al Mid-channei Span	☐ Braid ☐ Landuse	:	
		SITE		
Site #: 90 Fiel	d UTM 9.687519.6050127	Agency: C016	Crew: SR/MJ D	ate: 2002/07/25
	IS UTM 10.299620.6050687	• •	FINS Consulting Ltd.	
	C	HANNEL		
No Vis.Ch.: ✓ Intermittent:	Avg	Min Max #	Avg N	Ain Max #
Dewatered: Tribs.:	Channel Width (m): 0.00	0 0 0	Gradient %: 0.00	0 0 0
Stage: Low	Wetted Width (m): 0.00	0 0 0	Pool Depth (m): 0.00	0 0 0
Med	Bankfull Depth (m): 0.00	0 0 0	Turbidity.: Tu	irbid Low
High Temp (C):	pH:	Conductivity:	Mode	erate Clear
	MO	RPHOLOGY		
Bed Material: Dominant:	D95 (cm):	Bars: Non 🔲 Si	ide 🔲 Diagonal 🔲 Mid-ch	annel 🗌 Span 🗍
Subdominant:	D (cm):			Braid 🗌
Channel Pattern:	Islands:		B1 B2 B3 D1 D2	D3
Coupling:		INDICATORS		
Confinement:		C1 C2 C3 C4	C5 S1 S2 S3	S4 S5
Morphology:				
		GOVER		
Total Cover:	Type: SWD	LWD B U	J DP OV I	V
LWD:	Amount:			
LWD Dist:	Location: P/S/O:			FSZ:
Right Bank: Shape:	Texture: Fines Gravel	Cobble Boulder Ro	ock Manmade	Crown Closure
Left Bank: Shape:	Texture: Fines Gravel	Cobble Boulder Ro	ock Manmade	
Right Bank: Rip. Veg:	Stage:	1man	m Vors None Aless	Mana Varandar [
Left Bank: Rip.Veg:	Stage:	instrea	m Veg: None Algae III	Moss Vascular L
Roll#7, Frame#6, CD#2, Imag "stream" is seepage down mea				ne - no channel, no
water	·			
<u> </u>	<del></del>			

BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

ILP#

2.0 93L.060

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BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

ILP#

Watershed Code: 480-802100-66400-72600-0000-0000-000-000-000-0000-000

			STR	EAM RE	FERENC	ING			
Gazetted Nan	ne:		<u> </u>		Lo	cal Name:			
Watershed Co	ode: 480-8021	00-66400-726	00-0000-0000-00	0-000-000-0	00-000-000	IL	.P Map #:	ILF	·#:
				RE	ACH				
Reach #: 1. Length (km): Gradient (%): US Elev (m):	.46 0.7 1250	Coup Confine Isl	M(Zone/East/No pling: ment: Occasiona ands:	ally Con	Magnitude: Order: 2 Riparian Vege			Sample Type: BGC Zone: pen water:	Biased
Bars: None	_  Side  _	Diagonal 🔲	Mid-channel		_	Landuse:			
Site #: Site Length			9.687571.60513 1 <b>0.299762.</b> 6051	377	• •	: C016 y Name: F	Crew: M. NS Consulting Ltd		2002/07/26
-				CHA	NNEL				
No Vis.Ch.:  Dewatered:  Stage: Low	Intermitte Trib	s.: Cha	annel Width (m): etted Width (m):	Avg M 4.50 4 4.50 4	5 5	2 2	Gradient %: Pool Depth (m):	Avg Min 0.00 0 0.00 0	Max # 0 1 0 2
Med High [	ニ	mp (C): 9	nkfull Depth (m): pH: 8.3	0.30 0.	2 0.4 Conductivity	3 /: 40	Turb	idity.: Turbid Moderate	Low Clear 🗹
				MORP	HOLOGY				
S Channel Pa Coup Confiner	: Dominant: f Subdominant: C ttern: Irregular pling: Decouple ment: Occasion plogy: RP	Cobble , Wandering ed	D95 (cm): 40 D (cm): 0. Islands: No	.10 ne DIS	Bars: Non STURBANCE IDICATORS [ 1 C2 C3	O1 B			Span Sraid S5
				CC	VER				
Total Cover: A LWD: LWD Dist:		, ,	Type: Amount: ocation: P/S/O:	SWD N	LWD B	U S	DP D	OV IV T S	FSZ: 🗌
Right Bank: Left Bank: Right Bank: Left Bank:	Shape: Un Shape: Un Rip.Veg: We Rip.Veg:	dercut Textudercut Textu			obie <b>√</b> Boulde cable	r Roc	= =	j	own Closure  0%  Uascular
				•	1 <b>5</b> H	1			
Site Number	Capture Method	Number of Events	Length fished (m)	Total Time	Voltage	Speck	Fish	Minimum Length (mm)	Maximum Length (mm)
92	EF	1	150	284 sec	700	СТ	1	96	96
Roll# 8, Fran open water v	ne# 4, CD# 2 vetland type	, Image#150 section of str	, Direction: Up , Direction: Do earn. site = UT ach. Spawning	wnstream, M. Overwir	Scale/Comm tering Habita	ent:MJ it - poor -	likely freezes. F trate	Rearing Habita	t - excellent in

BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

ILP#

Watershed Code: 480-802100-66400-72600-0000-000-000-000-000-000-000

			STR	EAMI	REFE	REN	CIN	G					
Gazetted Name: Local Name:													
Watershed Co	de: 480-8021	00-66400-7260	00-0000-0000-00	0-000-00	0-000-0	000-000		iLP I	Map #:		ILP	<b>*</b>	
REACH													
Reach #: 2.0 Length (km): Gradient (%): US Elev (m):	33 ).6 1252	Coup Confiner Isla	ment: Occasiona ands:	ally Con	Magi Ripa	nitude: Order: ırian Ve	getatio			Sample BGC : pen wa	Zone:	Biased	
Bars: None	∫ Side [_]	Diagonal	Mid-channel	Span		aid 📗	Land	use:				*************	
Site #: 9 Site Length (	-		9.687209.60514 10.299422.6052		SITI	Agen	icy: C0 ncy Nar		Crew: M. Consulting Ltd	/SR L	Date:	2002/07/	26
				C	HAN	NEL		_					
No Vis.Ch.:  Dewatered:  Stage: Low  Med  High	≓	S.: Che	annel Width (m): etted Width (m): nkfull Depth (m): pH: 8.1	Avg 1.25 1.25 0.40	Min 1 1 0.4 C	1.5 1.5 0.4	# 6 6 3 vity: 40		Gradient %: Pool Depth (m) Turb	idity.:	Min 0 0 Turbid oderate	==	# 4 2 ow
,				MOR	PHO	LOG	Y						
Si Channel Pat Coup Confinen	Bed Material: Dominant: Fines D95 (cm): 0.10 Bars: Non V Side Diagonal Mid-channel Span Braid Diagonal Mid-channel Span Diagonal Mid-channel Span Diagonal Mid-channel Span Diagonal Mid-channel Span Diagonal Mid-channel Span Diagonal Mid-channel Span Diagonal Mid-channel Diagonal Mid-channel Diagonal Mid-channel Diagonal Mid-channel Diagonal Mid-channel Diagonal Mid-channel Diagonal Mid-channel Diagonal Mid-channel Diagonal Mid-channel Diagonal Mid-channel Diagonal Mid-channel Diagonal Mid-channel Diagonal Mid-channel Diagonal Mid-channel Diagonal Mid-channel Diagonal Mid-channel Diagonal Mid-channel Diagonal Mid-channel Diagonal Mid-channel Diagonal Mid-channel Diagonal Mid-channel Diagonal Mid-channel Diagonal Mid-channel Diagonal Mid-channel Diagonal Mid-channel Diagonal Mid-channel Diagonal Mid-channel Diagonal Mid-channel Diagonal Mid-channel Diagonal Mid-channel Diagonal Diagonal Mid-channel Diagonal Diagonal Diagonal Diagonal Diagonal Diagonal Diagonal Diagonal Diagonal Diagonal Diagonal Diagonal Diagonal Diagonal Diagonal Diagonal Diagonal Diagonal Diagonal Diagonal Diagonal Diagonal Diagonal Diagonal Diagonal Diagonal Diagonal Diagonal Diagonal Diagonal Diagonal Diagonal Diagonal Diagonal Diagonal Diagonal Diagonal Diagonal Diagonal Diagonal Diagonal Diagonal Diagonal Diagonal Diagonal Diagonal Diagonal Diagonal Diagonal Diagonal Diagonal Diagonal Diagonal Diagonal Diagonal Diagonal Diagonal Diagonal Diagonal Diagonal Diagonal Diagonal Diagonal Diagonal Diagonal Diagonal Diagonal Diagonal Diagonal Diagonal Diagonal Diagonal Diagonal Diagonal Diagonal Diagonal Diagonal Diagonal Diagonal Diagonal Diagonal Diagonal Diagonal Diagonal Diagonal Diagonal Diagonal Diagonal Diagonal Diagonal Diagonal Diagonal Diagonal Diagonal Diagonal Diagonal Diagonal Diagonal Diagonal Diagonal Diagonal Diagonal Diagonal Diagonal Diagonal Diagonal Diagonal Diagonal Diagonal Diagonal Diagonal Diagonal Diagonal Diagonal Diagonal Diagonal Diagonal Diagonal Diagonal Diagonal Diagonal Diagonal Diagonal Diagonal Diagonal Diagonal Di												
	_				OVI	= R							
Total Cover: A  LWD: N  LWD Dist: I			Type: Amount: ocation: P/S/O:	SWD T	LWE N		B N	U D	DP N	ov s	IV S	FSZ	: 🗀
Right Bank: Left Bank: Right Bank: Left Bank:	Shape: Un Shape: Un Rip.Veg: We Rip.Veg:	dercut Textu	Stag	=		Bou		Rock Rock	Manmade Manmade  Manmade	<u>.</u>	_	rown Clos 0%	
					FIS	H							
Site Number	Capture Method	Number of Events	Length fished (m)	Tota Time		Voltage	9 5	Species	Total Fish		mum h (mm)	Maxii Lengti	
93	EF	1	t	L			i	NFC	0			1	
Roll# 8, Fram	e# 10, CD# ows through	2, Image#15 meadow, ru	, Direction: Up: 6, Direction: Do n type morpho potentially goo	ownstrea	am, Sc reasor	ale/Cor	nment o fish.	cam baccon. Overwi	ntering Habit	at - nor es in su	e - likel bstrate	y too sha	allow

#### BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

LP#

Watershed Code: 480-802100-66400-72600-0000-0000-000-000-000-0000-000

	STREAM	IREFEREN	CING					
Gazetted Name:		L.	ocal Nam	ne:				
Watershed Code: 480-802100-6640	0-72600-0000-0000-000-000-	000-000-000-000		ILP Map #:		ILP	*	
		REACH						
Reach #: 4.0	UTM(Zone/East/North): 9	0.686393.6051347		s	ample '		Biase	d
Length (km): .15	Coupling:	Magnitude:			BGC 2			
, ,	onfinement: Unconfined	Order:		O	en wat	er:		
US Elev (m): 1256	Islands:	Riparian Ve	getation:					
Bars: None Side Diagona	al Mid-channel Spar	n Braid	Landuse	9:				
		SITE						
Site #: 94 Field	UTM 9.686543.6051312	Agen	cy: C016	Crew: MJ	SR	Date:	2002/07	/26
Site Length (m): 100 Gi	S UTM 10.298724.6051947	Ager	cy Name:	FINS Consulting Ltd.	•			
	(	CHANNEL						
No Vis.Ch.: Intermittent:	Avg	Min Max	#		Avg	Min	Max	#
Dewatered: Tribs.:	Channel Width (m): 0.00	0 0	0	Gradient %:	0.00	0	0	0
Stage: Low	Wetted Width (m): 0.00	0 0	0	Pool Depth (m):	0.00	0	0	0
Med	Bankfull Depth (m): 0.00	0 0	0	Turbi	dity.:	Turbid[		Low
High Temp (C):	pH:	Conductiv	ity:		M	oderate[	c	Clear 🔙
	MO	RPHOLOG	Y					
Bed Material: Dominant: Subdominant:	D95 (cm): D (cm):	Bars: No	n □ S	ide Diagonal	Mid-	channel		pan 🗌 raid 🔲
Channel Pattern:	Islands:	DISTURBANCE	: 01	B1 B2 B3	D1	D2 . C	3	
Coupling:	isiands.	INDICATORS						
Confinement:		C1 C2 (	3 C4	C5 S1 S2	<b>S3</b>	S4	S5	
Morphology:								
		COVER						
Total Cover:	Type: SWD		3   1	U DP C	v	IV		
LWD:	Amount:						l	
LWD Dist:	Location: P/S/O:						FS	z: 🗌
Right Bank: Shape:	Texture: Fines Gravel	Cobble Boul	der R	ock Manmade	1	Cr	own Clo	sure
Left Bank: Shape:	Texture: Fines Gravel	=	=	ock Manmade	]			
Right Bank: Rip.Veg:	Stage:	<del></del>		_	_	_	_	
Left Bank: Rip.Veg:	Stage:		instrea	am Veg: None 🗌 /	Ngae [	Moss	∐ Vas	cular [
Roll# 8, Frame# 14, CD# 2, Ima site = UTM = end of R.3.1. Othe				channel, no fluviur	n			

#### BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

ILP#

.0 93L.060

			STR	EAMI	EFE	RENC	ING			
Gazetted Nam	e:					Loc	al Name:			
Watershed Co	de: 000-0000	00-00000-0000	00-0000-0000-00	00-000-00	0-000-0	00-000	ILP I	Map #: 93L066	) ILP	<b>#</b> : 60747
				R	EAC	Ħ				
Reach #: 1.0	)	UT	M(Zone/East/N	orth): 9.68	87363.6	051579			Sample Type:	Biased
Length (km):	.09	Cour	oling:		Magr	nitude:			BGC Zone:	
Gradient (%):			ment: Frequently	y Confin		Order: 1		C	pen water:	
US Elev (m):	1252	_	ands:			rian Veget	ation:			
Bars: None	Side	Diagonal	Mid-channel	Span [	Bra	aid [ L	anduse:			
					SITE					
Site #: 9	-		9.687352.60515			Agency:				2002/07/26
Site Length (	m): 100	GIS UTM	10.299565.6052				Name: FINS	Consulting Lt	d.	
					HANI	********	<del></del> ]			
No Vis.Ch.:	Intermitte	=		Avg	Min		<del>*</del>	On all and 00	Avg Min	Max #
Dewatered:	Tribs		annel Width (m):	<del>                                     </del>	0.300		<u> </u>	Gradient % Pool Depth (m)	<del> </del>	1 4 0.180 1
Stage: Low	]		etted Width (m): nkfull Depth (m):		0.300		3 1			
Med	=	<b></b>	pH; 8.3	1 1	<del></del>	onductivity	40	Turk	oidity.: Turbid   Moderate	_ Low
High [		np (C): 8	pr. 0.3			LOGY	. 10		11.00010101	
Rod Medodali	Dominant S	inaa	D95 (cm): 10	***********		Bars: Non	<b>√</b> Side [	Diagonal	Mid-channel	Span
	Dominant: F ubdominant: G		D (cm): 0		•	Dais. Noi	∰ Swer	Diagonal	MIG-CHAINION	Braid
	tem: Irregular		Islands: No		DISTUE	RBANCE	O1 B1	B2 B3	D1 D2 D	3
	ling: Decouple		1314103.140	2110		ATORS [				
	nent: Occasio				C1	C2 C3	C4 C	5 S1 S2	S3 S4	<b>S</b> 5
Morpho	logy: RP I	Riffle Pool		_						
					:0VI	₽R.				
Total Cover.	Aoderate		Type:	SWD	LWD	В	U	DP	OV IV	
LWD: I	None		Amount:	T	N	T	S	D	T N	
	Not Applicable	L	ocation: P/S/O:							FSZ: 🗌
Right Bank:	Shape: Un	dercut Textu	ıre: Fines 🗹 G	ravel 🗹 (	Cobble	<b>B</b> oulder	Rock [	Manmade [	Cr	own Closure
Left Bank:	Shape: Un	dercut Textu	ıre: Fines 🗹 G	ravel 🗹 (	Cobble	<b>B</b> oulder	Rock	Manmade [		1-20%
Right Bank:	Rip.Veg: Sh	rubs		ge: Not Ap						D., . C
Left Bank:	Rip.Veg:		Sta	ge: Not Ap	oplicable	9	Instream V	eg: None ☑	Algae  Moss	∐ Vascular <u>L</u>
			_		FIS	H				
Site Number	Capture	Number of	Length fished	Tota		Voltage	Species	Total	Minimum	Maximum
	Method	Events	(m)	Time			1150	Fish	Length (mm)	Length (mm)
95	EF	1	80	273 s	ec	600	NFC	0	1	l
Roll# 8, Fram	ne# 8, CD# 2 sh water shr le, no reaso	2, Image#154 imp indicates	, Direction: Up , Direction: Do fish absence. . Rearing Hab	ownstread	m, Sca TM. Ov	le/Comme verwinterir	ent:cam bag ng Habitat -	none - too s	hailow. Other - tat - none - ang	habitat usable ular substrate
1										

BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

ILP#

2.0 93L060

	STREAM	REFERENCIN	G	
Gazetted Name:		Local N	ame:	
Watershed Code: 000-000000-00000	0-00000-0000-0000-000-000-00	0-000-000-000	ILP Map #: 93L.060	ILP#: 60747
	R	EACH		
Reach #: 2.0	UTM(Zone/East/North): 9.6	87660.6051851	Sample '	Type: Biased
Length (km): .44	Coupling:	Magnitude:	BGC 2	Zone:
	infinement: Unconfined	Order: 1	Open wat	ter:
US Elev (m): 1265	islands:	Riparian Vegetation		
Bars: None Side Diagonal	I Mid-channel Span		ise:	
		SITE		
	UTM 9.687342.6051577 S UTM 10.299577.6052133	Agency: C0' Agency Nam	ne: FINS Consulting Ltd.	Date: 2002/07/26
	ÇI	HANNEL		
No Vis.Ch.: Intermittent:	Avg	Min Max #	Avg	Min Max #
Dewatered: Tribs.:	Channel Width (m): 0.60 Wetted Width (m): 0.00	0.300 1.3 6	Gradient %: 6.50 Pool Depth (m): 0.00	2 15 4
Stage: Low ✓	Bankfull Depth (m): 0.07	0 0.1 3	Turbidity.:	Turbid Low
Med Temp (C):	pH:	Conductivity:	•	oderate Clear
	MOR	PHOLOGY		
Bed Material: Dominant: Gravels	D95 (cm): 30.00	Bars: Non 🗹	Side Diagonal Mid-	-channel Span
Subdominant: Cobble	D (cm): 5.00			Braid
Channel Pattern: Irregular, Wander	•	DISTURBANCE O1 INDICATORS	B1 B2 B3 D1	D2 D3
Coupling: Partially Coupled Confinement: Frequently Confir			4 C5 S1 S2 S3	S4 S5
Morphology: CP Cascade	_			
		OVER		
Total Cover: None	Type: SWD	LWD B	U DP OV	IV
LWD: None	Amount: N	N N	N N N	N
LWD Dist: Not Applicable	Location: P/S/O:			FSZ:
Right Bank: Shape: V - shape	Texture: Fines 🗹 Gravel 🗹	Cobble 2 Boulder	Rock Manmade	Crown Closure
1	Texture: Fines 🗹 Gravel 🗸		Rock Manmade	1-20%
Right Bank: Rip.Veg: Shrubs Left Bank: Rip.Veg:	Stage: Not Ap Stage: Not Ap		ream Veg: None 🗹 Algae 🗍	Moss Vascular
Left Bank: Rip.Veg:	Sage Not A	рисацио пізі	168/11 Feg. 140/16 P. Pages C	
Roll# 8, Frame# 5, CD# 2, Image Roll# 8, Frame# 6, CD# 2, Image site = UTM. Other - No fish habit frequently vegetated channel with	#152, Direction: Downstrea at - seasonal, dry already, ti	m, Scale/Comment:o	am bag	% gradient section,

### BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

ILP#

1.0 93L.060

STREAM REFERENCING														
Gazetted Name: Local Name:														
Watershed Co	de: 000	-000000	-00000-0	0000-0000-0	000-000	<b>-000-000-</b> 0	00-000-00	<b>.</b>	ILP N	Map #: 93L.060		₩	#: 6	60748
						RE	ACH							
Reach #: 1.0	)	***********	***************************************	UTM(Zone/E	East/No	rth): 9.6868	33.60516f	8		٤	Sample '	Type:	Biase	d
Length (km):	.18		Cr	oupling:		Þ	Magnitude	:			BGC 2			
Gradient (%):	3.9		Confi	inement: Occ	casional	-	Order			Or	pen wat	ter:		
US Elev (m):	1262		,	Islands:			Riparian V	/egetatic	n:					
Bars: None	] Side	Dir	agonal [	_ Mid-chan	inei 🗌	Span 🗌	Braid _	Land	iuse:					
						\$1	ITE							
Site #: 9	37			TM 9.687043			•	ency: C0			/SR	Date:	2002/07	/26
Site Length (	m): 100		GIS U	JTM 10.29927	0.60522	<u>.45</u>	Ag	ency Nar	ne: FINS	Consulting Ltd	•			
						CHA	NNEL							
No Vis.Ch.:	Inte	rmittent:	= $-$			Avg Mi			] _		Avg	Min	Max	#
Dewatered:	Ī	Tribs.:		Channel Wid		0.68 0.2			]  _	Gradient %:	1.25	0	3	4
Stage: Low	٦		<b>L</b>	Wetted Widt		0.68 0.2			1 4	Pool Depth (m):	0.18	0.140	0.230	<u> </u>
Med	Ź			Bankfull Dep		0.20 0	1	3	1	Turbl	•	Turbid	=	Low
High [	<u>ַ</u>	Temp	(C): 13	pH	t: 7.9	· ——	Conduc	ctivity: 50			M	Moderate		Clear
						MORP	HOLO	GΥ						
Bed Material:	Domir	ant: Fin	es	D95 (c	cm): 8.0	00	Bars:	Non 🔽	Side	Diagonal [	_ Mid	d-channel		Span 🔲
s	ubdomir	nant: Gra	avels	D (c	cm): 1.0	)0							В	Braid
Channel Par	item: lm	∍gular, V	Vandering	g Islar	nds: Non		STURBANG		B1	B2 B3_	D1	D2 D	)3	
1	oling: Co						NDICATOR	<u> </u>	للللا	يللب		للل	لت	
1			Confined	į		C	1 C2	C3 (	C4 C5	5 S1 S2	S3	<b>S4</b>	S5	
Morpho	ology: R	P Rin	ffle Pool					<u> </u>		<u> </u>	<u> </u>	ــــــــــــــــــــــــــــــــــــــ		
						C C	VER							
Total Cover:	Abundar	nt			Type:	SWD	LWD	В	Ų		ον	IV	1	
LWD:			_		mount:	T	N	N	T	S	S	D	]	
LWD Dist:		licable	L	Location: F	PISIO:						<u> </u>		FS	sz: 🗌
Right Bank:		pe: Unde	ercut T	exture: Fines	Gr	avel Co	hble ☐ B	oulder	Rock [	Manmade [	]	C	rown Clo	osure
Left Bank:	-	pe: Unde		exture: Fines		_		oulder	Rock [		=		>6	90%
Right Bank:		eg: Shrul				je: Not Appli	cable		,		-	_		г
Left Bank:	Rip.Ve	eg:			Stag	je: Not Applik	cable	Ins	stream Ve	eg: None 🗌	Algae [	✓ Moss	Vas	scular
							FEA	TURE	S					
NID Map	NID	Туре	Hgt	Method	Lg	Method		Photo		UTM (Z/E/N)		Method	]	*******
	30971	c	2.5	AL	10	GE	R: 8	F: 1	1 9.	.687043.605166	50	GIS		
Comments	.impass	able to f	/ish											
	_				_	F	15 H							
Site Number	Capt	ure /	Number o	of Length	fished	Total	Volta	ige	Species	1 1		imum	1	ximum
						Time	1		•	Fish	Lengt	<b>փ (</b> mm)	Leng	,th (mm)
97	EF	=	1	10	ю )	164 sec	601	)	NFC	0	<u> </u>			
Roll# 8, Fran	Method Events (m) Time Fish Length (mm) Length (mm)													

### BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

ILP#

1.0 93L.060

		STR	EAM	REF	ERE)	ICIN	G					
Gazetted Name:					i	Local N	ame	1				į
Watershed Code:	: 000-000000-0000	0-00000-0000-0000-00	0-000-0	00-000-0	000-000		11	P Map #: 93L.06	0	ILI	P#:	60749
				REAC	; H							
Reach #: 1.0		UTM(Zone/East/No	orth): 9.0	686378.	6051156	3			Sample	Туре:	Biase	ed be
Length (km): .31		Coupling:		Mag	ınitude:					Zone:		
Gradient (%): 0.3		nfinement: Unconfine	d		Order:				Open wa	ter:		
US Elev (m): 125	_	Islands:	1 _	_ `	arian Vo	_						
Bars: None 📙	Side U Diagona	I ∐ Mid-channel _	Span	∐ Br		Land	use:					
				SIT	*******		<u></u>			D-4	20020	7 D C
Site #: 98 Site Length (m):		UTM 9.686551.60512 S UTM 10.298736.6051				ncy: C0 incy Nar		Crew: N INS Consulting L	IJ <i>I</i> SR Id.	Date:	2002/0	//20
			C	HAN	NEL							
No Vis.Ch.:	Intermittent:		Avg	Min	Max	#	]		Avg	Min	Max	#
Dewatered:	Tribs.:	Channel Width (m):	0.00	0	0	0	1	Gradient 9	-	0	0	0
Stage: Low .		Wetted Width (m): Bankfull Depth (m):	0.00	0	0	0	┨	Pool Depth (n	<u>· I </u>	0	<u> </u>	0
Med			0.00	1	<del></del> -	•	3	Tu	bidity.:	Turbid Hoderate	=	Low Clear
High 🔛	Temp (C):	pH:			Conduct	•			IV	ioce ale	<u>'</u>	Clear
					Bars: N		···	te Diagonal	☐ NAio	i-channe	, D	Span 🗍
Bed Material: D Subd	Jominant: Jominant:	D95 (cm): D (cm):			Bars: N	ion [_]	S.	19 Diagonal		-Citalline	_	Braid 🗌
Channel Pattern	n:	Islands:			RBANC		<u>F</u>	31 B2 B3	D1	D2	D3	
Coupling	•				CATORS			C5 S1 S	2 S3		للـــا S5	
Confinemen				C1	C2	C3 (	C4 		2 33 T □	ΤĒ		
Morpholog				ىپ			···					
			01115	COV		ь I	Ü	DP I	ov I	IV		
Total Cover:		Type: Amount:	SWD	LW	<u>-                                    </u>	В		DF			┪	
LWD: LWD Dist:		Location: P/S/O:		1							5 F	sz: 🗌
•	Chann	Texture: Fines G	ravel	Cobble	. □ Ro	ulder	Ro	ck Manmade			rown C	losure
	Shape: Shape:		ravel	Cobble	=	ulder 🗌	Ro	=	=			
	Rip.Veg:	Sta	ge:		_				1	Π.		. r
Left Bank: F	Rip.Veg:	Sta	ge:			Ins	trea	m Veg: None	Algae	Mos:	s ∐ Va	iscular [
Roll# 8, Frame#	# 13, CD# 2, Ima	ge#159, Direction: Attact - drains W above	Across,	Scale/0	Comme	nt:no s inkmen	cale	- visible W on the channel. no fle	eft and ( Ivium. n	embani ot a str	kement eam	on right
SRE = UTM. OT	iei - No iish nabi	iai - Gianis IV abuve	, 20 707 I	om Roll	a cume		.,				-	
1												
1												
1												

BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

ILP#

1.0 93L.060

		STR	EAM	REF	ERE	NCIN	G					
Gazetted Name:						Local N	lame:					
Watershed Code	: 000-000000-0000	0-00000-0000-0000-00	0-000-0	00-000-	000-000	)	Ш	P Map #: 93L.060	}	н	P#:	60751
				REA	C H							
Reach #: 1.0		UTM(Zone/East/No	orth): 9.	686909.	605114	9			Sample	Туре:	Bias	ed
Length (km): .66	•	Coupling:		Mag	initude:				-	Zone:		
Gradient (%): 1.4		onfinement: Occasiona	illy Con		Order			0	pen wa	ter:		
US Elev (m): 125		Islands:	1 .	_	arian V	-						
Bars: None	Side Diagona	I Mid-channel	Span		raid 📙	Land	use:					
				SIT	••••••							
Site #: 99 Site Length (m):		UTM 9.687540.60511 S UTM 10.299723.6051			•	ncy: C0 incy Nar		Crew: MJ VS Consulting Ltd	/SR I.	Date:	2002/0	)7 <i>1</i> 26
			C	HAN	NEL							
No Vis.Ch.:	Intermittent:		Avg	Min	Max	#	]		Avg	Min	Max	#
Dewatered:	Tribs.: 🔲	Channel Width (m):	0.00	0	0	0		Gradient %:	0.00	0	0	0
Stage: Low 🗌		Wetted Width (m):	0.00	0	0	0	[	Pool Depth (m):	0.00	0	0	0
Med _	ļ	Bankfull Depth (m):	0.00	0	0	0	j	Turbi	dity.:	Turbid		Low
High	Temp (C):	pH:		(	Conducti	vity:			M	oderate		Clear
			MOF	(P.H.C	LOC	<u> </u>			_			
Bed Material: D Subd	ominant: Iominant:	D95 (cm): D (cm):			Bars: N	on 📋	Side	Diagonal _	Mid-	-channe	_	Span 📗 Braid 🔲
Channel Pattern	n:	Islands:			RBANC		B1	B2 B3	D1	D2 [	03_	
Coupling	•				CATORS	ш				Щ		
Confinemen Morpholog				C1	C2	C3 (	4 (	C5 S1 S2	S3	\$4 	S5	
Morpholog	<b>y</b> -								لال		للا	
				COA				· · · · · · · · · · · · · · · · · · ·			•	
Total Cover:		Type: Amount:	SWD	LWI	<del>}  </del>	В	U	DP C	×	IV	┨	
LWD: LWD Dist;		Location: P/S/O:	11				1 1			1	F.	sz: 🗌
1	Shape:	Texture: Fines Gr	avei	Cobbie	☐ Bou	ider 🗆	Rock	Manmade	 ]		rown Cl	_
1 -	Shape:		avei	Cobbie	=	lder	Rock	= =		C	IOWII C	OSUIB
1	tip.Veg:	Stag	_		_	_	-		-	_		
Left Bank: R	tip.Veg:	Stag	e:			Inst	ream '	Veg: None 🗌 /	Ngae 🗌	Moss	☐ Va	scular 🗌
Roll# 8, Frame# site = UTM. Oth	# 2, CD# 2, Imag ner - No fish habit	e#147, Direction: Up e#148, Direction: Do tat - discontinuous d 0, than percolates th	wnstrea hannel	am, Sc	ale/Cor	nment:	cam b	pag		ssible t	o fish f	or

#### BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

ILP#

1.0 93L.060

		STR	EAMI	REFI	RE	VCIN	G					
Gazetted Nan	ne:					Local N	ame:					
Watershed Co	ode: 000-000000-000	000-00000-0000-0000-00	0-000-00	0-000-0	000-000		ILP	Map #: 93L.060		ILI	P #:	60752
			R	EAC	H							
Reach #: 1.	0	UTM(Zone/East/No	orth): 9.68	87399.6	050548	3		5	ample	Type:	Bias	ed
Length (km):	.24	Coupling:	•	Mag	nitude:				BGC			
Gradient (%):	8.3	Confinement: Frequently	Confin		Order:	1		0	pen wa	ter:		
US Elev (m):	1276	Islands:		Ripa	rian Ve	egetatio	n:					
Bars: None	Side Diagor	nal Mid-channel	Span [	Bra	aid 🗌	Land	use:					
				SIT								
Site #: Site Length		ld UTM 9.687280.60507 GIS UTM 10.299448.6051	_ :		-	ncy: C0 ncy Nan		Crew: MJ S Consulting Ltd	/SR	Date:	2002/0	7/26
			C)	ANI	NEL	•		-				
No Vis.Ch.:	✓ Intermittent:	i	Avg	Min	Max	#			Avg	Min	Max	T # 1
Dewatered:	Tribs.:	Channel Width (m):	0.00	0	0	0	Г	Gradient %:	10.50	7	14	2
Stage: Low	 ¬	Wetted Width (m):	0.00	0	0	0		Pool Depth (m):	0.00	0	0	0
Med	┪	Bankfull Depth (m):	0.00	0	0	0	_	Turbi	ditv.:	Turbid	$\Box$	Low
High [		: pH:		С	onducti	vity:			•	oderate	=	Clear
			MOR	PHO	LOG	γ						
Bed Material:	: Dominant:	D95 (cm): D (cm):		E	Bars: N	on 🗌	Side	Diagonal	Mid-	channe		Span 🗌 Braid 🗍
Channel Par		Islands:		DISTRIE	RBANCI	E 01	B1	B2 B3	D1	D2 [		J. W. G
Cour		isianus.			ATORS		ΤĎ	TÄTÄ	ĦΤ		<u></u>	
Confiner	•			C1	C2	сз с	4 (	5 S1 S2	S3	S4	S5	
Morpho	ology:		_									
				OVE	R							
Total Cover:		Type:	SWD	LWD		в	U	DP C	ov I	IV	1	***********
LWD:		Amount									1	
LWD Dist:		Location: P/S/O:					JOE	المحالا		3	FS	sz: 🗌
Right Bank:	Shape:	Texture: Fines Gr	avei C	Cobble	Bou	lder 🗌	Rock	Manmade	]	C	-u rown C⊪	osuma
Left Bank:	Shape:		=	Cobble	Bou	=	Rock	Manmade	i	O.	0411 01	03016
Right Bank:	Rip.Veg:	Stag										
Left Bank:	Rip.Veg:	Stag	ie:			Inst	ream V	/eg: None 🗌 /	Ngae [	Moss	U Va	scular [
		age#144, Direction: U adow adjacent to right							nd fluvi	um. Oth	her - N	o fish

#### BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

ILP# 60753

I.0 93L.060

			STR	EAM	REFI	RE	V C I N	G						
Gazetted Nam	ie:						Local N	lame:						
Watershed Co	de: 000-000000-0000	0-000	00-0000-0000-00	90-000-00	00-000-0	000-000		ìL	P Map #: 9:	3L.060		IL	P #:	60753
				1	REAC	11								
Reach #: 1.0	)	וט	M(Zone/East/N	orth): 9.6	86748.6	050573	3		•	5	ample	Type:	Bia	sed
Length (km):	.10		pling:			nitude:					BGC	• •		
Gradient (%):	1.0 Ce	onfine	ment: Unconfine	ed .		Order:	1			0	pen wa	ter:		
US Elev (m):	1261	isi	ands:	_	Ripa	rian Ve	egetatio	n:						
Bars: None	Side Diagona	i 🗌	Mid-channel	] Span	☐ Bra	aid 🗌	Land	use:						
					SITI									
Site #: 1 Site Length (			9.686760.60504 10.298878.605			-	ncy: C0 ncy Nar		Crew NS Consult		/SR	Date:	2002/	07/26
				C	HANI	NEL								
No Vis.Ch.: ▼	Intermittent:			Avg	Min	Max	#	Ī			Avg	Min	Max	#
Dewatered:	Tribs.:	Ch	annel Width (m):	0.00	0	0	0	] [	Gradi	ent %:	5.00	5	5	1
Stage: Low	7		etted Width (m):	0.00	0	0	0	] [	Pool Dep	lh (m):	0.00	0	0	0
Med	j .	Ba	nkfuil Depth (m):	0.00	0	0	0	}		Turb	dity.:	Turbid		Low
High [	Temp (C):		pH:		C	onducti	vity:				M	oderate		Clear
				MOF	PHO	LO:0	Y							
Bed Material:			D95 (cm):			Bars: N	on 🗌	Side	e 🗌 Diag	onal	Mid	-channe	el 🗌	Span 🔲
	ubdominant:		D (cm):											Braid
Channel Pat			Islands:		DISTUR	RBANC	_	B	1 B2	B3	D1	D2	D3	
Coup	•				C1		ш	LLL 24	C5 S1	S2	 	54	للــا \$5	
Morpho					<del>~</del>			<u> </u>			T 🗀		- <del> </del>	l
Шогрії	~9,.						االا	<u> </u>		<u> </u>				
					COVI	•••••					<u> </u>		<u> </u>	
Total Cover:			Type: Amount:	SWD	LWD	<u>'</u>	B	U	DP	+-	)V	IV	-{	
LWD:		T	ocation: P/S/O:					¥ ¥		1	<del></del>	7(-7	┪ .	sz: 🗌
LWD Dist:		<u> </u>				<u> </u>					<u></u>		_	
Right Bank:	Shape:		= -	ravel	Cobble		ilder	Roci	=	=	) ]	C	rown C	losure
Left Bank: Right Bank:	Shape: Rip.Veg:	Text	ure: Fines ∐ Gi Sta		CODDIA			1100	K [ ] WIGHTING	aue [_	J			
Left Bank:	Rip.Veg:		Stag	_			ins	tream	Veg: Non	• 🔲 .	Algae [	Moss	: 🗌 v	ascular 🗌
	·													
site =UTM. c	me# 22, CD# 2, Ima drains squishy mea i fluvium, continuity	wob	vith some isola	ted and						es 201	mu/sfi	rom lai	æ, ina	ccessible

### BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

ILP#

1.0 93L.060

			STR	EAM	REF	ERE	NCING						
Gazetted Na	me:						Local Na	me:					
Watershed C	ode: 000-000000-00	000-000	000-0000-0000-0	00-000-0	000-000	-000-000	•	ILP Maj	p #: 93L.060	)	١LI	P #:	60754
					REA	CH							
Reach #: 1	.0	U	TM(Zone/East/N	orth): 9.	686662	.604981	D		5	ample	Туре:	Bias	ed
Length (km)			upling:		Mag	gnitude:				BGC	Zone:		
Gradient (%)			ement: Unconfine	ed		Order:			0	pen wa	ter:		
US Elev (m)		_	lands:	1 -	_	_	egetation:						
Bars: None	Side Diagoı	nai [	Mid-channel _	∫ Span		raid 📙	Landus	se:					
					SIT								
Site #: Site Length			9.686655.6050° M.10.298766.6050			_	ncy: C016			/MJ	Date:	2002/0	)7 <i>1</i> 25
Sile Length	(11), 130	315 U I I	W 10.290700.003				ncy Name	: FINS CO	onsulting Ltd				
No Vin Ch	<b>.</b>			***********	HAN								
No Vis.Ch.: Dewatered:	✓ Intermittent: ☐ ☐ Tribs.: ☐	C	nannel Width (m):	0.00	Min	Max 0	#	r	Gradient %:	Avg 0.00	Min	Max	#
		-	Vetted Width (m):		0	0	0		Depth (m):	0.00	0	0	0
Stage: Low Med		<b>—</b>	ankfull Depth (m):		0	0	0		Turbi		Turbid		Low
High	Temp (C):		pH:			Conducti	vity:		10101		oderate	$\exists$	Clear
				MOI	(PH(	LOG	Y						
Bed Material	: Dominant:		D95 (cm):			Bars: N	on 🗌 S	Side 🗌	Diagonal [	Mid-	channe		Span 🗌
	Subdominant:		D (cm):									1	Braid 🗌
Channel Pa			Islands:			RBANC		B1 B	2 B3	<u>D1</u>	D2   C	03	
Cour Confine	pling: ment				C1		C3 C4		S1 S2	 	S4	 S5	
Morpho									31 32		- 3 <del>4</del> 	33	
		********			COV							····	
Total Cover:			Type:	SWD	LWI		В	u I	DP C	W I	īV		
LWD:			Amount:	0110	1.00			<del>"  </del>	Dr. C	<del>"</del>	14		
LWD Dist:			Location: P/S/O:									FS	sz: 🗌
Right Bank:	Shape:	Text	ure: Fines Gr	avel	Cobble	Bou	ider R	ock 1	Manmade	}	Cr	own Cl	osure
Left Bank:	•	Text		avel	Cobble	=	=	=	Aanmade	j	J.		
Right Bank:			Stag	-						_	_	_	_
Left Bank:	Rip.Veg:		Stag	je:			Instre	am Veg:	None L A	Vgae _	Moss	∐ Va	scular _
<u></u>			····										
Roll# 7, Fran	ne# 15, CD# 2, Ima ked anyway at mou	ige#13 th - ah	36, Direction: U sorbed further i	pstrean	n, Scale	e/Comm	nent:cam	bag ma walk	ed dawn fr	nm no	nd in u	nner re	ach
isolated water	er puddles on organ	nics, no	o scour power.	no defi	ned cor	ntinuous	s channel						
mouth. no fis	sh habitat - spawnir	ıg (org	anics) or overw	vintering	3 (dry).	Other -	none				•	-	
ł													
1													
1													
1													

BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

ILP#

1.0 93L.060 60755 STREAM REFERENCING Gazetted Name: Local Name: ILP Map #: 93L.060 ILP # 60755 REACH Reach #: 1.0 UTM(Zone/East/North): 9.686596.6049807 Sample Type: Biased Length (km): .30 Coupling: **BGC Zone:** Magnitude: Gradient (%): 2.7 Confinement: Unconfined Order 1 Open water: Riparian Vegetation: US Elev (m): 1268 Islands: Bars: None Side Diagonal Mid-channel Span Braid Landuse: SITE Site #: 103 Field UTM 9.686638.6050003 Agency: C016 Crew: SR/MJ Date: 2002/07/25 GIS UTM 10.298732.6050783 Site Length (m): 100 Agency Name: FINS Consulting Ltd. CHANNEL Intermittent: No Vis.Ch.: Avg Min Max Avg Min Max # Tribs.: Channel Width (m): Dewatered: 0.00 0 0 0 Gradient %: 0.00 0 0 Wetted Width (m): 0.00 0 n n Pool Depth (m): 0.00 0 0 Low Bankfull Depth (m): 0 0.00 0 Med Turbidity.: Turbid \_\_\_ Low High 🗌 Temp (C): Conductivity: Moderate Clear 🗌 MORPHOLOGY Bed Material: Dominant: Side Diagonal Mid-channel D95 (cm): Span Subdominant: D (cm): Channel Pattern: Islands: DISTURBANCE INDICATORS Coupling: Confinement: C3 C4 C5 S1 Morphology: COVER Total Cover: SWD LWD Ū DP ΟV ١V Type: В Amount LWD: Location: P/S/O: FSZ: LWD Dist: Texture: Fines Gravel Cobble Boulder Rock Manmade Crown Closure Right Bank: Shape: Texture: Fines Gravel Cobble Boulder Rock Manmade Left Bank: Shape: Right Bank: Rip.Veg: Stage: Instream Veg: None Algae Moss Vascular Left Bank: Rip.Veg: Stage: FEATURES NiD Map NID Method Method UTM (Z/E/N) Method Type Hgt La Photo 9.686627.6050172 093L.060 31031 BMA GIS Comments: real stream actually enters ILP 60754 at site utm site = "mouth". enters 60754 ~80m from mouth, but not an FPC stream, lacks channel bed and banks. Other - none

### BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

ILP#

2.0 93L.060

Gazetted Name:				Lo	cal Name:			
Watershed Code: 000-000	000-00000-000	00-0000-0000-0	00-000-000	0-000-000-000	ILP N	lap #: 93L.06		#: 60756
			R	EACH				
Reach #: 2.0	บา	M(Zone/East/N	orth): 9.68	36272.6050695			Sample Type:	Biased
Length (km): .26		pling:		Magnitude:			BGC Zone:	
Gradient (%): 1.2		ment: Unconfine	xd	Order: 1		•	Open water:	
US Elev (m): 1270	ls!	ands:	_	Riparian Vege	etation:			
Bars: None Side	Diagonal	Mid-channel	Span	Braid	Landuse:			
				SITE				
Site #: 104	=	9.686188.60504 10.298319.605			: C016			2002/07/26
Site Length (m): 100	GISUIN	110.298319.605			y Name: FINS	Consulting Lt	d.	
No Vis.Ch.: Intermitt	ont:		Avg	Min Max	# 1		Ava Min	Max #
	= —	annel Width (m):	<del></del> +	0.400 3.700	<del>-</del>	Gradient %	Avg Min : 0.25 0	Max #
		etted Width (m):		0.400 3.6	— ⊢	ool Depth (m)		0.920 3
Stage: Low	<del></del>	nkfull Depth (m):	<del></del>	0.1 0.4	3		1	
Med ✔ High Te	mp (C): 12	pH: 7.8	<del></del>	Conductivity	r. 70	lun	oldity.: Turbid [   Moderate	Low Clear
			MOR	PHOLOGY				
Bed Material: Dominant:	Fines	D95 (cm): 4	.00	Bars: Non	☑ Side [	Diagonal	Mid-channel	Span 🗍
Subdominant:	Gravels	D (cm): 0	.50					Braid 🗌
Channel Pattern: Sinuous		Islands: No	ne [	DISTURBANCE	O1 B1	B2 B3	D1 D2 D	3
Coupling: Decoup				INDICATORS				11
Confinement: Unconfi				C1 C2 C3	C4 C5	S1 S2	S3 S4	S5
Morphology: RP	Riffle Pool		_					
			Ç	OVER				
Total Cover: Moderate		Туре:	SWD	LWD B	U		OV IV	
LWD: None	Г	Amount: ocation: P/S/O:	N	N N	T	D	TS	
LWD Dist: Not Applicabl	e L		البالا					FSZ:
Right Bank: Shape: Sl		ure: Fines 🗹 Gr	=	=	= =	Manmade	_  Cn	own Closure
Left Bank: Shape: Si Right Bank: Rip.Veg: W		ure: Fines 🗹 Gr	avei∐ c ge:NotAp	_	r Rock	Manmade	_}	1-20%
Left Bank: Rip.Veg:	elland	`	e: Not Ap	•	instream Ve	n: None	Algae Moss	Vascular 🗸
				FISH				
Site Number Capture	Number of Events	Length fished (m)	Total Time	, -	Species	Total Fish	Minimum Length (mm)	Maximum Length (mm)
Method	CACTIFO					+		
Method EF	1	100	352 se	c 500	СТ	1	121	121
		100	352 se	c 500	CI	1	121	121
104 EF  Roll# 7, Frame# 20, CD#	1 2, lmage#14	1, Direction: U	pstream,	Scale/Commer	nt:dog	1	121	121
104 EF  Roll# 7, Frame# 20, CD# Roll# 7, Frame# 21, CD#	1 2, lmage#14 2, lmage#14	1, Direction: U 2, Direction: D	pstream, ownstrea	Scale/Commer m, Scale/Comr	nt:dog nent:cam ba	g		
104 EF  Roll# 7, Frame# 20, CD#	1 2, lmage#14 2, lmage#14 te d/s d/t low	1, Direction: U 2, Direction: D water level - st	pstream, ownstrea ream disp	Scale/Commer m, Scale/Comr perses in seaso	nt:dog nent:cam bag nal meadow	g - otherwise	easily accessib	le and usable
Roll# 7, Frame# 20, CD# Roll# 7, Frame# 21, CD# access impeded from lat CT habitat (observed chafair - in some incised par	1 2, Image#14 2, Image#14 te d/s d/t low vannel in R.1 1 t of channel v	1, Direction: U 2, Direction: D water level - st .2-1.6m wide - where water wo	pstream, ownstrea ream disp S4). site ouldn't fre	Scale/Commer m, Scale/Commerses in seaso = UTM. flows to eze. Rearing H	nt:dog nent:cam baq nal meadow hrough W/su abitat - good	g - otherwise balpine mea in fairly dee	easily accessibadow. Overwinto	le and usable ering Habitat - instream
Roll# 7, Frame# 20, CD# Roll# 7, Frame# 21, CD# access impeded from lal CT habitat (observed chair - in some incised par vegetation. Spawning Ha	1 2, Image#14 2, Image#14 te d/s d/t low annel in R.1 1 t of channel v abitat - none in	1, Direction: U 2, Direction: D water level - st .2-1.6m wide - where water wo	pstream, ownstrea ream disp S4). site ouldn't fre	Scale/Commer m, Scale/Commerses in seaso = UTM. flows to eze. Rearing H	nt:dog nent:cam baq nal meadow hrough W/su abitat - good	g - otherwise balpine mea in fairly dee	easily accessibadow. Overwinto	le and usable ering Habitat - instream
Roll# 7, Frame# 20, CD# Roll# 7, Frame# 21, CD# access impeded from lat CT habitat (observed chafair - in some incised par	1 2, Image#14 2, Image#14 te d/s d/t low annel in R.1 1 t of channel v abitat - none in	1, Direction: U 2, Direction: D water level - st .2-1.6m wide - where water wo	pstream, ownstrea ream disp S4). site ouldn't fre	Scale/Commer m, Scale/Commerses in seaso = UTM. flows to eze. Rearing H	nt:dog nent:cam baq nal meadow hrough W/su abitat - good	g - otherwise balpine mea in fairly dee	easily accessibadow. Overwinto	le and usable ering Habitat - instream
Roll# 7, Frame# 20, CD# Roll# 7, Frame# 21, CD# access impeded from lal CT habitat (observed chair - in some incised par vegetation. Spawning Ha	1 2, Image#14 2, Image#14 te d/s d/t low annel in R.1 1 t of channel v abitat - none in	1, Direction: U 2, Direction: D water level - st .2-1.6m wide - where water wo	pstream, ownstrea ream disp S4). site ouldn't fre	Scale/Commer m, Scale/Commerses in seaso = UTM. flows to eze. Rearing H	nt:dog nent:cam baq nal meadow hrough W/su abitat - good	g - otherwise balpine mea in fairly dee	easily accessibadow. Overwinto	le and usable ering Habitat - instream
Roll# 7, Frame# 20, CD# Roll# 7, Frame# 21, CD# access impeded from lal CT habitat (observed chair - in some incised par vegetation. Spawning Ha	1 2, Image#14 2, Image#14 te d/s d/t low annel in R.1 1 t of channel v abitat - none in	1, Direction: U 2, Direction: D water level - st .2-1.6m wide - where water wo	pstream, ownstrea ream disp S4). site ouldn't fre	Scale/Commer m, Scale/Commerses in seaso = UTM. flows to eze. Rearing H	nt:dog nent:cam baq nal meadow hrough W/su abitat - good	g - otherwise balpine mea in fairly dee	easily accessibadow. Overwinto	le and usable ering Habitat - instream
Roll# 7, Frame# 20, CD# Roll# 7, Frame# 21, CD# access impeded from lal CT habitat (observed chair - in some incised par vegetation. Spawning Ha	1 2, Image#14 2, Image#14 te d/s d/t low annel in R.1 1 t of channel v abitat - none in	1, Direction: U 2, Direction: D water level - st .2-1.6m wide - where water wo	pstream, ownstrea ream disp S4). site ouldn't fre	Scale/Commer m, Scale/Commerses in seaso = UTM. flows to eze. Rearing H	nt:dog nent:cam baq nal meadow hrough W/su abitat - good	g - otherwise balpine mea in fairly dee	easily accessibadow. Overwinto	le and usable ering Habitat - instream
Roll# 7, Frame# 20, CD# Roll# 7, Frame# 21, CD# access impeded from lal CT habitat (observed chair - in some incised par vegetation. Spawning Ha	1 2, Image#14 2, Image#14 te d/s d/t low annel in R.1 1 t of channel v abitat - none in	1, Direction: U 2, Direction: D water level - st .2-1.6m wide - where water wo	pstream, ownstrea ream disp S4). site ouldn't fre	Scale/Commer m, Scale/Commerses in seaso = UTM. flows to eze. Rearing H	nt:dog nent:cam baq nal meadow hrough W/su abitat - good	g - otherwise balpine mea in fairly dee	easily accessibadow. Overwinto	le and usable ering Habitat - instream

#### BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

ILP#

.0 93L.060

		STREAM REFERENCING												
Gazetted Name:							Local N	ame	:					
Watershed Code: 000	-00000-0000	0-000	00-0000-0000-0	00-000-0	00-000-	000-000		11	.P Map #: 93L.060		ILF	#:	60757	
					REAG	CH								
Reach #: 1.0		וט	M(Zone/East/N	lorth): 9.6	5 <b>8</b> 5646.	6049998	3		S	ample	Type:	Bias	ed	
Length (km): .18		Cou	pling:		Mag	gnitude:				BGC	Zone:			
Gradient (%): 5.6	Co		ment: Frequent	ly Confin		Order:			0	pen wa	ter:			
US Elev (m): 1282		_	lands:	٦.	_ `	arian Ve	-							
Bars: None Side	Diagona	# <u> </u>	Mid-channel _	_ Span		raid 🔝	Land	use:		*********	······	**********		
					SIT			<u></u>						
Site #: 105 Site Length (m): 100			9.685821.6049 10.297897.605			-	ncy: C0 ncy Nan		Crew: SR INS Consulting Ltd	Wi	Date:	2002/0	07 <i>1</i> 25	
				C	HAN	NEL								
No Vis.Ch.: 🗹 Inter	mittent:			Avg	Min	Max	#			Avg	Min	Max	#	
Dewatered:	Tribs.:		annel Width (m)		0	0	0		Gradient %:	0.00	0	0	0	
Stage: Low			etted Width (m): nkfull Depth (m)	_	0	0	0		Pool Depth (m):	0.00	0	_ 0		
Med _	~~~ (0)	Da		. 0.00		1		l	Turbi	•	Turbid	=	Low	
High	Temp (C):		pH:		**********	Conducti	***************************************			M	oderate		Clear	
Badden Barria	<b>*</b>		227 ( )	9.01		) L O G		****		¬		. 🗂	. 🗆	
Bed Material: Domini Subdomin			D95 (cm): D (cm):			Bars: No	on 📙	Sid	le Diagonal	_j Mid	-channei		Span       Braid	
Channel Pattern:			Islands:		ודפות	IRBANCI	F 01	В	1 B2 B3	D1	ח פת	13		
Coupling:			13101103.			CATORS		Ti						
Confinement:					C1	C2	СЗ	:4	C5 S1 S2	S3	S4	<b>S</b> 5		
Morphology:														
					COY	F.R.								
Total Cover:			Type:	SWD	LW	D	В	Ü	DP C	OV	IV	1		
LWD:			Amount:									]		
LWD Dist:			ocation: P/S/O:					_!_				F	sz: 🗌	
Right Bank: Shap	e:	Text	ure: Fines 🗌 G	iravel 🗌	Cobble	=	lder	Roc	k Manmade	]	Cı	own C	losure	
Left Bank: Shap		Text		ravei	Cobble	Bou	lder	Roc	k Manmade	]				
Right Bank: Rip.Ve Left Bank: Rip.Ve	-			ige:			Inst	nean	n Veg: None 🗌 /	Algae [	Moss	□ v:	scular 🗀	
Lon Danc Tup. To	9-			9~				-		-340				
no continuous chann none	el bed (no s	sign o	f drainage) or	fluvium,	no fish	habitat	, no pa	ssa	ge just a seepage	e. site :	= "mout	h". Ot	her -	
ł														
1														
L														

#### BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

ILP#

1.0

93L.060 60

				STR	EAM	REF	ERE	NCIN	G						
Gazetted Nam	e:							Local N	lame	»:				•	
Watershed Co	<b>de:</b> 000-	000000-0000	00-00000	-0000-0000-0	00-000-0	00-000-	000-000	,	ŀ	LP Map #: 93L.060	)	IL.	P#:	60758	8
						REA	CH								
Reach #: 1.0	)		UTM	(Zone/East/N	orth): 9.	685832	604968	3		5	Sample	Type:	Bia	sed	******
Length (km): .	15		Coupli	ng:	•	Mag	gnitu <b>d</b> e:				BGC	• •			
Gradient (%): 2		C		ent: Occasion	ally Con		Order:	2		0	pen wa	ter:			
US Elev (m):	1280	_	islan		_		arian V	egetatio	n:						
Bars: None	Side	Diagona	ai 📙 M	lid-channel	Span	В	raid 📗	Land	use:	:					
						SIT	E								
Site #: 1 Site Length (r				.685706.60497 0.297794.6050			-	ncy: C0 ency Nar		Crew: SR	r NMD	Date:	2002/	07/25	
					C	HAN	NEL								***
No Vis.Ch.:	Inter	mittent:			Avg	Min	Max	#	1		Avg	Min	Max	#	T
Dewatered:	]	Tribs.:	Chan	nel Width (m):	0.00	0	0	0	1	Gradient %:	0.00	0	10	0	一
Stage: Low	7		<del></del>	ed Width (m):	0.00	0	0	0	1	Pool Depth (m):	0.00	0	0	0	
Med	วี		Bank	full Depth (m):	0.00	0	0	0	1	Turb	dity.:	Turbid		Low	
High _	]	Temp (C):		pH:		(	Conducti	vity:			M	oderate	₽□	Clear	
					MO	3 P H (	) L O C	<b>Y</b>							
Bed Material:	Domina	ant:	•	D95 (cm):			Bars: N	on 🗌	Sic	de 🔲 Diagonal 🛚	Mid	-channe	ei 🗌	Span	
Sı	ıbdomin	ant:		D (cm):										Braid	Ш
Channel Patt				Islands:			RBANC		E	31 B2 B3	D1	D2	D3		
Coupl	•						CATORS	اسلسا	Ш		44	Щ.	يلا		
Confinem Morphol						C1	C2	C3 (	<b>≻4</b>	C5 S1 S2	S3	\$4 	S5	ı	
	ogy.					لـلــ							<u>                                     </u>		
						COV							<u> </u>		
Total Cover:			-	Type: Amount:	SWD	LWI	D	В	υ	DP C	DV .	IV	4		
LWD:			Loc	ation: P/S/O:		1			ų				┪ .		٦.
LWD Dist:			<u> </u>		<u>اللك</u>	ــالــا اِلـــ			I		<u>     </u> ¬	!!_		SZ;	
Right Bank:	Shap		Texture		ravel		∐ Bou				-	C	Crown C	losure	
Left Bank: Right Bank:	Shape Rip.Ve		Texture	n:Fines ∐ Gi Stag	ravel 📋	Cobble	l∏ Ror	lder	Roo	k Manmade	J				
Left Bank:	Rip.Ve	-		Stag	-			ins	trean	n Veg: None 🗌 🛚	Algae	Moss	s 🗆 v	ascular	r [
				· · · · · ·											
reach u/s from	ı site Ü	TM rises ou	nt of mea	adow and lac	ks con	tinuous site = U	channe	el bed c	or flu	ile - squishy mea ivium and contair ach. FPC of R. 0	s no a				

BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

ILP#

1.0 93L.060

STREAM REFERENCING																
Gazetted Nar	ne:							Local N	lame	:						
Watershed Co	ode: 000-0000	00-00000-0	0000-0000-000	0-000-0	00-00	0-000-0	000-000		11	.P M	iap #: 93L	.060		ILI	<b>杂</b>	60800
					R	EAG	H									
Reach #: 1.	n		UTM{Zone/Ea	ct/North	)• 0 60	00000	EDE 4 ED 0	`	******	****				<del>.</del>	Dies	
Length (km):			oupling:	SUNOTUI	y. <i>9</i> .08		nitude:	,				3	ample : BGC :		Bias	eu
Gradient (%):			nement: Frequ	ently Co	nfin		Order:	1				Ор	en wat			
US Elev (m):	1242		Islands:			Rip	arian Ve	getatio	n:							
Bars: None	Side	Diagonal	Mid-channe	ei 🗌 S	pan [	Br	aid 🗌	Land	use:							
						SIT	E									
Site #: Site Length			M 9.690747.6 TM 10.303212.		i		-	ncy: C0 ncy Nar		INS ·	Crew: Consulting	SR/ Ltd.		Date:	2002/0	7/23
					C)	IAN	NEL	•	****							
No Vis.Ch.:	Intermitte	nt:		ΓΑ	vg	Min	Max	#	1	*****	***************************************	Γ	Avg	Min	Max	T#
Dewatered:	Triba	s.: 🗌 🦵	Channel Width		62	0.5	0.800	6	l		Gradien	t %:	12.50	10	14	4
Stage:       Low ✓       Wetted Width (m):       0.45       0.200       0.800       6       Pool Depth (m):       0.04       0.03       0.06       4         Med       Bankfull Depth (m):       0.10       0.1       0.1       3       Turbidity.:       Turbidity.:       Turbid       Low																
Med	=	L_	Bankfull Depth	(m): 0.	10	0.1	0.1	3	İ		7	Furbic	ity.:	Turbid		Low
High [	Ter	np (C): 9	pH: 8	3.4		C	Conductiv	vity: 30					M	oderate		Clear 🗹
				M	OR	PHO	LOG	Y								
			D95 (cm	): 15.00		- 1	Bars: No	on 🗹	Sid	е 🗌	Diagon	al 🗌	] Mid-	channe	. 🗌 🥫	Span 🔲
Bed Material: Dominant: Fines D95 (cm): 15.00 Bars: Non 🗹 Side 🗌 Diagonal 🗍 Mid-channel 🗍 Span 🗍 Subdominant: Cobble D (cm): 1.00 Braid 🗍																
	ttern: Sinuous		island	s: None	ı		RBANCE		В	1	B2 B	3	D1	D2 [	3	
1	oling: Coupled	u. ce					ATORS	اسمامسا		11	1111		Ш.	Ш	4	1
ſ	ment: Frequent plogy: CP (	ny Commed Cascade Po			-	C1	C2 (	C3 (	<b>&gt;4</b>	C5	S1	S2	S3	\$4 	S5	
					_					با	1 —	ш				
						O.V									•	
Total Cover:	Trace		Amo	`	VD T	LWE		B N	T	-	DP D	O	_	IV N		
LWD:		Г	Location: P/S		-					$\dashv$			,		ا ا	
	Evenly Distribu										<u> </u>		اإلا	_الــالـــ	4	iZ:
Right Bank:	Shape: V -	·=	xture: Fines		_			=	Roc		Manmad	=		Cı	own Ck	
Left Bank: Right Bank:	Shape: V - Rip.Veg: Co	-	xture: Fines	Stage: N				cer	Roc	ĸШ	Manmad	1e []			47	-70%
Left Bank:	Rip.Veg:			Stage: N				inst	tream	ı Vəç	g: None [	A	lgae 🗌	Moss	<b>√</b> Va	scular 🔲
					******		EAT		\$	****		*****	-			
NID Map	NID Type	Hgt	Method	La l	Metho	od T	Ph	oto	<b>~~</b>		UTM (Z/E/	N)	1 1	Method	<b>T</b>	
	31071 BMA		AL	-	GE	R:		F:	士		90765.60			GIS	1	
Comments:	mouth mappe	ed wrong - s	ite utm = real l	ocation (	~60m	u/s fro	m mapp	ed)								
						FIS	H					****				
Site Number	Capture	Number o	f Length fis	hed	Total	ı	Voltage	, S	peck	 2 <b>S</b>	Total		Minin	num	Ma	cimum
	Method	Events	(m)		Time	,					Fish		Length	(mm)	Leng	th (mm)
107	EF	1	100		109 se	ec	700		NFC		0	- (			<u> </u>	
Roll# 5, Frame# 15, CD# 1, Image#86, Direction: Upstream, Scale/Comment:cam bag - note subflow Roll# 5, Frame# 16, CD# 1, Image#87, Direction: Downstream, Scale/Comment:cam bag - note organic steps steps = 60m u/s from mapped mouth. note: Pierre C. still >5m channel here (barely) - still S2. Spawning Habitat - none - no gravels, too steep. Overwintering Habitat - none - (obvious - too shallow). Other - stream flows more to west than mapped - steep and shallow with no usable fish habitat anyway, maybe accessible near mouth, but S6 from here. Rearing Habitat - none - steep valley wall trickle with frequent long stretches of subflow																
[																

BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

ILP#

.0 93L.070

Gazetted Name: Watershed Code: 000-000000-00000-0000-0000-0000-000-00	y. 71	e: LP Map #: 93L.070	il.P#: 70718
	y. 71	LP Map #: 93L.070	H D 4 70740
ı			ILP#: 70718
	REACH		
Reach #: 1.0 UTM(Zone/East/North): 9.6	89482.6054005	Sample 1	Type: Biased
Length (km): .74 Coupling:	Magnitude:	BGC Z	• •
Gradient (%): 6.4 Confinement: Frequently Confin	Order: 1	Open wat	er:
US Elev (m): 1282 Islands:	Riparian Vegetation:		
Bars: None Side Diagonal Mid-channel Span	Braid Landuse:	:	
	SITE		
Site #: 108 Field UTM 9.690127.6054297 Site Length (m): 100 GIS UTM 10.302568.6054609	Agency: C016 Agency Name: F	Crew: SR/MJ FINS Consulting Ltd.	Date: 2002/07/23
c	HANNEL		
No Vis.Ch.: ✓ Intermittent: ☐ Avg	Min Max #	Avg	Min Max #
Dewatered: Tribs.: Channel Width (m): 0.00	0 0 0	Gradient %: 0.00	0 0 0
Stage: Low Wetted Width (m): 0.00	0 0 0	Pool Depth (m): 0.00	0 0 0
Med Bankfull Depth (m): 0.00	0 0 0	•	Turbid Low L
High Temp (C): pH:	Conductivity:	Mo	oderate Clear
	PHOLOGY	1	]
Bed Material: Dominant: D95 (cm):  Subdominant: D (cm):	Bars: Non 📙 Sid	de Diagonal Mid-	channel   Span
			Braid
Channel Pattern: Islands:  Coupling:	DISTURBANCE O1 E	31 B2 B3 D1 [	<u>)2 D3</u>
Confinement:	C1 C2 C3 C4	C5 S1 S2 S3	S4 S5
Morphology:			
-	COVER	<u> </u>	
	LWD B U	DP OV	īv
Amount	LWD B 0	DF OV	-14
LWD: LWD Dist: Location: P/S/O:			FSZ:
	Cobble Boulder Roc	k Manmade	Crown Closure
, = =	Cobble Boulder Roc	= =	Clowii Closule
Right Bank: Rip.Veg: Stage:			
Left Bank: Rip.Veg: Stage:	Instream	n Veg: None 🗌 Algae 🗌	Moss Vascular
Roll# 5, Frame# 19, CD# 1, Image#90, Direction: Upstream, site = 40m from mouth. stream is seasonally moist, seepage none		nel bed, no flow, no wate	er, no habitat. Other -

#### BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

ILP#

1.0 93L.070

70719

STREAM REFERENCING Local Name: Gazetted Name: ILP Map #: 93L.070 ILP#: 70719 REACH Sample Type: Biased UTM(Zone/East/North): 9.689961.6055081 Reach #: 1.0 Magnitude: **BGC Zone:** Coupling: Length (km): .58 Confinement: Occasionally Con Order: 1 Open water: Gradient (%): 9.7 Riparian Vegetation: US Elev (m): 1305 Islands: Bars: None Side Diagonal Mid-channel Span Braid Landuse: SITE Date: 2002/07/23 Agency: C016 Crew: SR/MJ Site #: 109 Field UTM 9.689839.6054409 Agency Name: FINS Consulting Ltd. GIS LITM 10 302179 6054926 Site Length (m): 300 CHANNEL Min Max # Max Intermittent: Avg Min Avg No Vis.Ch.: 0.85 0.600 1.100 6 Gradient % 3 25 Tribs.: Channel Width (m): Dewatered: Wetted Width (m): Pool Depth (m): 0.07 0.06 80.0 2 0.35 0 0.800 6 Low 🗸 Stage: Bankfull Depth (m): 0.13 0.1 0.2 Low Turbid Turbidity.: Med Clear 🗹 Moderate Conductivity: 30 Temp (C): 9 pH: 8.3 High MORPHOLOGY Side Diagonal Mid-channel Bars: Non 🗹 Span Bed Material: Dominant: Fines D95 (cm): 1.00 Braid 🔲 D (cm): 0.05 Subdominant: Not Applicable Channel Pattern: Sinuous Islands: None DISTURBANCE Coupling: Decoupled **S**1 52 53 СЗ CA C5 Confinement: Unconfined Morphology: RP Riffle Pool COVER ĺ٧ SWD LWD Type: Total Cover: Trace N Amount N Ν D LWD: None Location: P/S/O: FSZ: LWD Dist: Not Applicable Shape: Sloping (g Texture: Fines ✔ Gravel Cobble Boulder Rock Manmade Crown Closure Right Bank: Shape: Sloping (g Texture: Fines ✔ Gravel Cobble Boulder Rock Manmade 41-70% Left Bank: Stage: Not Applicable Right Bank: Rip.Veg: Shrubs Instream Veg: None Algae Moss Vascular Stage: Not Applicable Left Bank: Rip.Veg: FEATURES NID Map UTM (Z/E/N) Method Method Method NID Туре Hgt 9.689707.6054564 GIS GE 093L.070 31091 BMA Comments: mouth mapped wrong - site utm real mouth FISH Total Number of Length fished Total Voltage Minimum Site Number Capture Time Fish Length (mm) Length (mm) Method **Events** (m) 700 NFC 88 sac 300 Roll# 5, Frame# 20, CD# 1, Image#91, Direction: Downstream, Scale/Comment:SR - channel at mouth Roll# 5, Frame# 21, CD# 1, Image#92, Direction: Upstream, Scale/Comment:cam bag - NCDish section site = UTM = mouth, stream flows parallel to Pierre for 100m before finally entering, no habitat for 60m at mouth - all dry, then almost NCD (crap over organics, shrubs), crap creek from mouth. Rearing Habitat - none - dry and inaccessible at mouth, then all organic substrate. Overwintering Habitat - none - dry. Spawning Habitat - none - all fines. Other - when water appears, frequent intermittent, percolating - no flow, no habitat

BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

!LP#

93L070

		STR	EAM	REFE	RE)	ICIN	G						
Gazetted Name	:				1	Local N	ame:						Ì
Watershed Cod	e: 000-000000-0000	0-00000-0000-0000-00	00-000-00	00-000-0	000-000		ILP	Map #: 931	.070		iLi	P#: 7	0720
			1	REAC	Ħ								
Reach #: 1.0		UTM(Zone/East/N	orth): 9.6	88961.6	055157				S	ample '	Туре:	Biase	d
Length (km): .6		Coupling:		Mag	nitude:					BGC 2			
Gradient (%): 6.		onfinement: Occasiona	ally Con	-	Order:				Op	en wat	er:		
US Elev (m): 13		Islands:	1		_	getatio							
Bars: None	Side Diagona	Mid-channel _	Span	<u> </u>	aid 🔝	Land	use:		******				
<b>.</b>		1 173 t D COCODO COE 4	740	SITI		·····	16	Crew:	SR/	Rail	Date	2002/07	723
Site #: 11 Site Length (m		UTM 9.689200.60547 S UTM 10.301675.6055			•	ncy: C0 ncy Nan		S Consultin			Date.	200201	123
			C	HAN	NEL								
No Vis.Ch.:	= =		Avg	Min	Max	#	_			Avg	Min	Max	#
Dewatered:	Tribs.:	Channel Width (m):	_	0	0	0	-	Gradier Pool Depth		0.00	0	0	0
Stage: Low		Wetted Width (m): Bankfull Depth (m):		0	0	0	▎└	<u> </u>	(m): Turbi		Turbid		Low
Med_ High	Temp (C):	pH:		C	onducti	vity:	1		1 uno		oterate	=	Clear 🗌
			MOF	(PHO	1.00	Y							
Bed Material:		D95 (cm):		1	Bars: N	on 🗌	Side	Diago	nai [	Mid	channe		pan 🗌
Sui	bdominant:	D (cm):											raid [_]
Channel Patte		Islands:			RBANC ATORS		<u>B1</u>	B2E	33	<u>D1</u>	<u>D2                                    </u>	<u>)3</u>	
Coupti Confineme	•			C1		لـــــــا	<u> </u>		S2		 S4	S5	
Morpholo				$\overline{\Box}$	$\overline{\Box}$				$\overline{\Box}$	ΤĒ			
				COV									
Total Cover:		Туре:	SWD	LWI		в	U	DP	<u> </u>	V	IV	7	
LWD:		Amount:										1	
LWD Dist:		Location: P/S/O:										FS	z: 🗌
Right Bank:	Shape:	Texture: Fines G	ravel	Cobble	☐ Bou	ılder	Rock	Manma	ide 🗌	]	С	rown Ck	sure
Left Bank:	Shape:	Texture: Fines 🔲 G	ravel	Cobble	☐ Bou	ılder	Rock	Manma	de	]			
Right Bank:	Rip.Veg:	Sta						4 N		٦ ٦	7 <b></b>	. 🗀 🗤 -	nouln-
Left Bank:	Rip.Veg:	Sta	ge:			Ins	tream \	/eg: None	<u> </u>	rugae L	ivioss		SCURIT L
site = UTM = i stream, but no	mapped mouth, w	alked 200m radius fr luvium present	rom mag	pped m	outh, fo	ound a	couple	wet spots	; that	ma ha	ive bee	en the m	napped

#### BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

11 P#

5.0 STREAM REFERENCING **Gazetted Name:** ILP Map #: ILP#: REACH UTM(Zone/East/North): 9.687107.6054182 Biased Reach #: 5.0 Sample Type: Length (km): .14 Coupling: Magnitude: **BGC Zone:** Gradient (%): 4.3 Confinement: Frequently Confin Order: 2 Open water: US Elev (m): 1316 Islands: Riparian Vegetation: Bars: None Side Diagonal Mid-channel Span Braid Landuse: SITE Crew: SR/MJ Agency: C016 Date: 2002/07/29 Site #: 111 Field UTM 9.687246.6054245 Agency Name: FINS Consulting Ltd. GIS LITM 10 299689 6054758 Site Length (m): 140 CHANNEL Min Max # No Vis.Ch.: Intermittent: Min Max Avg Tribs.: 0.800 Gradient % 3.00 4 Dewatered: Channel Width (m): 1.43 0.800 Wetted Width (m): Pool Depth (m): 0.24 2 1.15 1.9 6 0.230 0.26 Stage: Low 🗸 Bankfull Depth (m): 0.23 0.2 0.3 Low Med Turbidity.: Turbid Moderate Clear V High | Temp (C): 11 pH: 8.6 Conductivity: 40 MORPHOLOGY D95 (cm): 35.00 Side Diagonal Mid-channel Bed Material: Dominant: Cobble Braid ... Subdominant: Fines D (cm): 6.00 DISTURBANCE Channel Pattern: Sinuous islands: None INDICATORS Coupling: Decoupled 53 **S1** 52 Confinement: Occasionally Confine C3 C5 Morphology: CP Cascade Pool COVER SWD LWD В Total Cover Moderate Type s N D S N Amount LWD: Few Location: P/S/O: FSZ: 🔲 LWD Dist: Evenly Distributed Shape: V - shape Texture: Fines ♥ Gravel Cobble ♥ Boulder Rock Manmade Crown Closure Right Bank: Shape: Sloping (g Texture: Fines ✔ Gravel Cobble ✔ Boulder Rock Manmade 41-70% Left Bank: Rip.Veg: Shrubs Stage: Not Applicable Right Bank: instream Veg: None 🗸 Algae 🗌 Moss 🔲 Vascular 🗍 Stage: Mature forest Left Bank: Rip.Veg: FISH Maximum Length fished Total Voltage Total Minimum Site Number Capture Number of Length (mm) Length (mm) Events (m) Time Fish FF 140 168 sec 0 111 Roll# 9, Frame# 24, CD# 2, Image#195, Direction: Upstream, Scale/Comment:cam bag Roll# 9, Frame# 25, CD# 2, Image#196, Direction: Downstream, Scale/Comment:cam bag FPC may change to S3 if wider u/s. more incised, confined channel than u/s wetland reaches, narrower channel width. flatter, more fines, wider in u/s section of reach. but CT caught u/s?. NFC - S4 - deferred to u/s channel width - S3. site = UTM. Spawning Habitat - none - lacks substrate (all cobble/fines). Rearing Habitat - F-M - pretty shallow cascade pools over cobbles. Overwintering Habitat - poor - to shallow - more likely in u/s wetland reaches

#### BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

11 P#

			STR	EAMR	EFEREN	CING			
Gazetted Nan	ne:				1	ocal Name:			
Watershed Co	ode: 480-8021	00-79900-000	00-0000-0000-00	0-000-000-0	000-000-000	ILP	Map #:	ILP	#:
				RE	ACH				
Reach #: 7.	n	U1	M(Zone/East/No	orth): 9.686	487 6054464			Sample Type:	Biased
Length (km):	=		pling:	•	Magnitude:			BGC Zone:	Diased
Gradient (%):			ment: Unconfine		Order:	2		Open water:	
US Elev (m):	1321	lsi	ands:		Riparian Ve	getation:			į
Bars: None	Side	Diagonal 🗌	Mid-channel	Span [	Braid 🗌	Landuse:			
				S	ITE				
Site #:	112	Field UTM	9.686702.60543	193	Agen	cy: C016	Crew: S	R/MJ Date:	2002/07/29
Site Length			10.299169.6055		•	•	S Consulting Li		
				C H	ANNEL				
No Vis.Ch.:	Intermitte	nt: 🔲 _		Avg M	lin Max	#		Avg Min	Max #
Dewatered:	Tribs		annel Width (m):		200 1.9	6	Gradient %		0.5 2
Stage: Low	<b>7</b>	<del> </del>	etted Width (m):		200 1.9	6	Pool Depth (m	): 0.24   0.21	0.270 2
Med	<del></del>		nkfuil Depth (m):	0.50 0	.4 0.6	3	Tur	bidity.: Turbid	Low
High	Ter	пр (С): 11	pH: 8.6		Conductiv	rity: 40		Moderate	Clear ✔
				MORP	HOLOG	Y	_		
	: Dominant: F		D95 (cm): 14		Bars: No	n 🗹 Side	☐ Diagonal	Mid-channel	- · = i
S	Subdominant: C	Cobble	D (cm): 0.	.01					Braid 🔲
	ttern: Irregular		Islands: Oc		STURBANCE NDICATORS	01 B1	B2 B3	D1 D2 D	3
-	oling: Decoupk ment: Unconfir					~2 C4 C	:5 S1 S	2 S3 S4	
		Riffle Pool		C	1 C2 (	23 C4 C	20 21 24	33 34	<u> </u>
Worpik	NOSY. IXI I	\(\(\text{inite}\) \(\text{inite}\)		L					
				C C	OVER				
Total Cover:	Abundant		Type:			3 U	DP	OV IV	
LWD:	None		ocation: P/S/O:	N	N I	N S	D	s s	
LWD Dist:	Not Applicable		DCalon. PISIO.	الللي					FSZ:
Right Bank:	Shape: V -	•	ure: Fines 🗹 Gr	=	bble 🔲 Boul	der Rock	Manmade [	Cn	own Closure
Left Bank:	Shape: Un		ure: Fines 🗹 Gr			der Rock	Manmade		1-20%
Right Bank:	Rip.Veg: Gr	ass	-	ge: Not Appli		t •	lom Non-	Al [] .a	
Left Bank:	Rip.Veg:		Stag	ge: Not Appli	cadie	instream V	reg: None 🗀	Algae Moss	U Vascular <b>⊻</b>
				F	ISH				
Site Number	Capture	Number of	Length fished	Total	Voltage	Species	3	Minimum	Maximum
	Method	Events	(m)	Time		1150	Fish	Length (mm)	Length (mm)
112	EF	1 1	300	387 sec	700	NFC	0		
Roll#10 Fra	me#3 CD#	2 Imane#10	9, Direction: U	nstream S	cale/Comm	ent:M.)			·····
			0, Direction: D				ag		
site = UTM. (	CT presence	from 1999 s	urvey (observa	tion) may t	ре ептопеои	s, should hav	ve captured o	ne by now - Ele	
								ne what's going s/fines. Rearing	
								tation. Overwint	
			start of reach	-	•		_		

#### BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

ILP#

8.0 STREAM REFERENCING **Gazetted Name:** Local Name: ILP Map #: ILP#: REACH Reach #: 8.0 UTM(Zone/East/North): 9.686336.6054493 Sample Type: Length (km): .12 Coupling: **BGC Zone:** Magnitude: Gradient (%): 11.7 Confinement: Frequently Confin Order: 1 Open water: US Elev (m): 1337 islands: Riparian Vegetation: Bars: None Side Diagonal Mid-channel Span Braid Landuse: SITE Agency: C016 Site #: 113 Field UTM 9.686469.6054464 MJ/SR Date: 2002/07/30 Crew: Agency Name: FINS Consulting Ltd. Site Length (m): 150 GIS UTM 10.298931.6055069 CHANNEL No Vis.Ch.: Intermittent: Avg Min Max # Min Max # Avg Dewatered: Tribs.: Channel Width (m): 0.95 0.400 Gradient % 4.67 1.5 6 9 3 Wetted Width (m): 0.62 0.300 1 6 Pool Depth (m): 0.20 0.12 0.280 4 Stage: Low 🗸 Bankfull Depth (m): 0.1 0.4 0.23 Low Turbidity.: Turbid pH: 8.6 Moderate Clear 🗸 Temp (C): 6 Conductivity: 40 High MORPHOLOGY Bars: Non 🗹 Side Diagonal Mid-channel Bed Material: Dominant: Cobble D95 (cm): 25.00 Span Braid [ Subdominant: Not Applicable D (cm): 0.10 Channel Pattern: Sinuous Islands: None INDICATORS Coupling: Coupled S1 **S2 S**3 Confinement: Confined C3 C4 C5 Morphology: CP Cascade Pool COVER Total Cover: Trace SWD LWD Type: Amount 1 WD: Few Location: P/S/O: **V V** FSZ: 🔲 LWD Dist: Evenly Distributed Shape: Sloping (g Texture: Fines ♥ Gravel Cobble ♥ Boulder Rock Manmade Crown Closure Right Bank: Left Bank: 21-40% Stage: Mature forest Right Bank: Rip. Veg: Coniferous Instream Veg: None Algae Moss V Vascular Left Bank: Rip.Veg: Stage: Mature forest FISH Maximum Site Number Capture Number of Length fished Total Voltage Species Total Minimum Length (mm) Method **Events** (m) Time Fish Length (mm) 113 EF 150 223 sec 700 NFC 0 Roll# 10, Frame# 17, CD# 3, Image#213, Direction: Upstream, Scale/Comment:SR Roll# 10, Frame# 18, CD# 3, Image#214, Direction: Downstream, Scale/Comment.cam bag creek flows through small gully, than small W, gully again and originates in meadow ~150m u/s from start of reach. Actually creek is a continuation of -79900, site = UTM. Overwintering Habitat - no. Spawning Habitat - no. Other - overall poor habitat, stream flows between cobbles, easily accessible to its HW from lower reaches. Rearing Habitat - fair in few shallow pools and amongst cobbles

# FDIS Reach/Site Summary BFP FFHI 2002/03 - Pierre/Twain Resamplin

		ı waın Kesampi	_					R	each #	ILP Map	#	ILP#
Watershe	ed Code: 480-802100-	-79900-00000-0000-0	000-000-0	000-000	-000-000	-000		9.	0			
		5.1	REAM	REF	ERE	NCIN	G					
Gazetted Nam	ne:					Local N	lame:					
Watershed Co	ode: 480-802100-7990	00-00000-0000-0000-	0-000-000	000-000-	-000-000		ILI	P Map#:		ILI	9 #:	
				REA	CH							
Reach #: 9.0	D	UTM(Zone/East/I	North); 9.	686152	.6054636	3			Sample	Type:	Biase	ad
Length (km):	.30	Coupling:		Mag	gnitude:				BGC	Zone:		
Gradient (%):		onfinement: Unconfir	ned		Order:				Open w	ater:		
US Elev (m):		Islands:	_	_	arian Vo	_						
Bars: None	_ Side Diagona	al Mid-channel	_ Span		raid 📙	Land	use:					
				SIT	***********							
Site #: 1 Site Length (		3 UTM 9.686336.6054 S UTM 10.298812.605			_	ncy: C0		Crew: 1 NS Consulting I	MJ/SR td	Date:	2002/07	7 <i>1</i> 30
	,,,,,,,,,	001111101200012000	N. 1111111111111	HAN		ncy Iva		to consuming t				
No Vis.Ch.:	Intermittent:		Avg	Min	Max	#			Avg	Min	Max	#
Dewatered:	Tribs.:	Channel Width (m		0	0	0	Г	Gradient <sup>c</sup>		0 Nin	Max 0	0
Stage: Low	7	Wetted Width (m)		0	0	0		Pool Depth (n		0	0	0
Siage. Low [ Med [	-	Bankfull Depth (m	): 0.00	0	0	0	ן '	Tu	rbidity.:	Turbid		Low
High [	Temp (C):	pH:		•	Conducti	vity:			•	/loderate	=	Clear
			MO	3 P.H.(	) L O G	Y						
Bed Material:		D95 (cm):			Bars: N	on 🗌	Side	Diagonal	☐ Mi	d-channel	ı 🗌 s	Span 🔲
S	ubdominant:	D (cm):									В	Braid
Channel Pat		Islands:			RBANC		<u>B1</u>	B2 B3	D1	D2 [	3	
Coup	•				CATORS							
Confinen Morpho				C1	C2	C3 (	<b>4</b>	C5 S1 S	2 \$3	<b>S4</b>	S5	
inorphic				ا لــاــ							ليا	
T-1.10				COV				T es T	T		1	
Total Cover:		Type: Amount:		LWI	-	В	υ	DP	ov	IV	ł	
LWD: LWD Dist:		Location: P/S/O		1 [ ]	T I	* 1	1 1					z: 🗌
	Ob	T				<u> </u>			<u>  [</u>		•	_
Right Bank: Left Bank:	Shape: Shape:		Gravel	Cobble			Rock Rock	==		Cr	own Clo	sure
Right Bank:	Rip.Veg:	_	age:	Coppie			NOCK	INIGITING CO	Ш			
Left Bank:	Rip.Veg:		age:			inst	ream '	Veg: None	Algae	Moss	☐ Vas	scular [
<del></del>												
Rol# 10, Fran	me# 19, CD# 3, Ima	age#215, Direction:	Upstrea	ım, Sca	sle/Com	ment:N	IJ					
		shy meadow where				nannel	(conti	nuous), no flu	vium. c	hannel d	lisconti	nuous
in HW meado	ow, no connection to	o reach d/s. Other -	NO TISTI	nabitat								
l												
I												

#### BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

!LP#

1.0 93L.070

70721

STREAM REFERENCING Local Name: ILP Map #: 93L.070 II P# 70721 REACH Reach #: 10 UTM(Zone/East/North): 9.686477.6054274 Sample Type: Length (km): .44 Coupling: Magnitude: **BGC Zone:** Gradient (%): 0.9 Confinement: Unconfined Order: 1 Open water: US Elev (m): 1324 Islands: Riparian Vegetation: Bars: None Side Diagonal Mid-channel Span Braid Landuse: SITE Site #: 115 Field UTM 9.686754.6054295 Agency: C016 Crew: SR/MJ Date: 2002/07/29 Site Length (m): 100 GIS UTM 10.299209.6054889 Agency Name: FINS Consulting Ltd. CHANNEL No Vis.Ch.: Intermittent: Avg Min Max Avg Min Max # Dewatered: Tribs.: Channel Width (m): 0.00 0 0 Gradient %: 0.00 ō Wetted Width (m): Pool Depth (m): 0.00 O n n 0.00 0 0 Low Bankfull Depth (m): 0.00 0 0 Med Turbidity.: Turbid \_\_ Low High 🗌 Temp (C): pH: Conductivity: Moderate Clear MORPHOLOGY Bed Material: Dominant: D95 (cm): Bars: Non Side Diagonal Mid-channel Span T Subdominant: D (cm): Braid Channel Pattern: DISTURBANCE Islands: INDICATORS Coupling: Confinement: СЗ C4 C5 S1 Morphology: COVER SWD LWD DP OV В Ū īV Total Cover: Type: Amount LWD: Location: P/S/O FSZ: LWD Dist: Texture: Fines Gravel Cobble Boulder Rock Manmade Right Bank: Shape: Crown Closure Texture: Fines Gravel Cobble Boulder Rock Manmade Left Bank: Shape: Rip.Veg: Right Bank Stage: Stage: instream Veg: None Algae Moss Vascular Left Bank: Rip.Veg: Roll# 10, Frame# 1, CD# 2, Image#197, Direction: Downstream, Scale/Comment:cam bag - 10m from "mouth" facing parent pond drainage not FPC stream - any water from u/s absorbed into wetland water table, no connection and no channel present, no fish habitat. site = UTM = edge of wetland. Other - none

#### BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

ILP#

2.0 93L070

70722

STREAM REFERENCING **Gazetted Name:** ILP Map #: 93L.070 ILP#: 70722 REACH Sample Type: Biased UTM(Zone/East/North): 9.686578.6054990 Reach #: 2.0 Magnitude: **BGC Zone:** Length (km): .54 Coupling: Confinement: Occasionally Con Open water: Order: 1 Gradient (%): 6.5 Riparian Vegetation: US Elev (m): 1360 islands: Bars: None Side Diagonal Mid-channel Span Braid Landuse: SITE Crew: SR/MJ Date: 2002/07/29 Agency: C016 Field UTM 9.686788.6054545 Site #: 116 Agency Name: FINS Consulting Ltd. Site Length (m): 100 GIS LITM 10.299273.6055138 CHANNEL Max # Min No Vis.Ch.: Intermittent: Avg Min Max Avg Gradient %: 0.00 0 0 Tribs.: Channel Width (m): 0.00 0 0 0 Dewatered: Pool Depth (m): 0 0.00 Wetted Width (m): 0.00 0 n 0 Low Bankfull Depth (m): 0.00 0 ō Turbia Low Turbidity.: Med Moderate Clear Conductivity: Hìgh 🗌 Temp (C): MORPHOLOGY Side Diagonal Mid-channel Span | Bed Material: Dominant: D95 (cm): Braid D (cm): Subdominant Channel Pattern: Islands: INDICATORS Coupling: S2 **S3** C5 **S1** C3 Confinement: Morphology: COVER IV SWD LWD В Type: Total Cover: Amount LWD: Location: P/S/O: FSZ: LWD Dist: Texture: Fines Gravel Cobble Boulder Rock Manmade Crown Closure Right Bank: Shape: Texture: Fines Gravel Cobble Boulder Rock Manmade Left Bank: Shape: Stage: Right Bank: Rip.Veg: Instream Veg: None Algae Moss Vascular Stage: Left Bank: Rip.Veg: Roll# 10, Frame# 5, CD# 3, Image#201, Direction: Upstream, Scale/Comment:cam bag flow = 100ml/min. R.1 W was called S3 is actually just a wetland, back channel from parent stream. site = UTM. "stream" lacks continuous channel bed = discontinuous mud channel, no fish habitat or passage. Other - none

BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

ILP#

1.0 93L.070

			STR	EAM	REF	ERE	NCIN	G						
Gazetted Name	<b>:</b>						Local N	lame:						
Watershed Cod	le: 000-000000-0000	0-000	00-0000-0000-00	0-000-0	00-000-	000-000		ILI	P Map #: 93	L.070		ĮLI	P供	70723
					REAG	2.8								
Reach #: 1.0		רט	M(Zone/East/No	orth): 9.	686269.	605496	5			s	ample		Bias	ed
Length (km): .6			pling:			initude:				_	BGC 2			
Gradient (%): 7. US Elev (m): 13			ment: Frequently ands:	Contin		Order: arian V		ъ.		O	pen wat	ter:		]
Bars: None	Side Diagona		Mid-channel	Span	_ `	raid 🗍	Land							
Dars. Note	Side   Diagonia	" L	Wind-Caldillies	) Opan	SIT		Land							
Site #: 11	17 Field	LITA	9.686575.60545	ภาจ			ncy: C0	16	Crew:	SR	/MJ	Date	2002/	07/29
Site Length (m			10.299062.6055			-	•		NS Consultin			Date.	2002	
	<u>*                                      </u>			C	HAN									
No Vis.Ch.:	Intermittent:			Avg	Min	Max	#	1			Avg	Min	Max	#
Dewatered:	Tribs.:	Ch	annel Width (m):	0.00	0	0	0	1 E	Gradie	nt %:	0.00	0	0	0
Stage: Low	]		etted Width (m):	0.00	0	0	0	Į L	Pool Depti	h (m):	0.00	0	0	
Med		Ba	nkfull Depth (m):	0.00	0	0	0	1		Turbi	•	Turbid		Low
High	Temp (C):		pH:			Conducti	-				M	oderate		Clear
				##.OX		) L O C			□ <u>-</u> .	· . г	¬		. 🗀	
Bed Material:	Dominant: bdominant:		D95 (cm): D (cm):			Bars: N	on 📙	Side	B Diago	nal [	_] Mid-	-channe	_	Span       Braid
Channel Patte			Islands:		ודפות	RBANC	F 01	R1	1 R2	B3	D1	ו מח	n3	
Coupli			isiailus.			CATORS								ļ
Confineme	ent:				C1	C2	С3 (	C4	C5 S1	S2	S3	S4	S5	
Morpholo	ogy:													
					COY	ER								
Total Cover:			Туре:	SWD	LW	D	В	U	DP	1	)V	īV	]	Ī
LWD:		_	Amount: ocation: P/S/O:	r ir st				1 1				u u	1 _	]
LWD Dist:		Ц			_ال_ال			<u> 1 1</u>	<u> </u>		<u></u>	<u> </u>	_	sz: 📋
Right Bank:	Shape:		= =	ravei	Cobble	=	ulder	Rock	=		] ]	C	rown C	losure
Left Bank: Right Bank:	Shape: Rip.Veg:	I ext	ure:Fines ∐ Gr Star	_	CODDI		1061	NOON	· I IVIZIIII		J			
Left Bank:	Rip.Veg:		Sta	-			Ins	tream	Veg: None		Algae [	Moss	: U	ascular 🗌
<del></del>														
not an FPC str	ne# 2, CD# 2, Ima; ream - no channel site = UTM = "mou	prese	ent, only moist	ownstra ground	eam, S	cale/Co	mment aked in	:MJ -	parent stre nund, no fis	eam i	n back bitat, no	ground o passa	l age, n	D

#### BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

93L.070

ILP#

			STR	EAM	REF	ERE	I C II N	iG					
Gazetted Nan	ne:						Local P	Name:					
Watershed Co	ode: 000-0000	000-00000-000	00-0000-0000-00	00-000-00	00-000	-000-000		iLP I	<b>#ap #: 93</b> 1_070	)	ILF	#: 1	70725
				j	(EA	CH							
Reach #: 1.0	)	וט	M(Zone/East/N	orth): 9.6	87416	5.6055186				Sample	Type:	Biase	ed
Length (km):	.17		pling:	<b>,</b>		ignitude:				-	Zone:		<del></del>
Gradient (%):	5.3	Confine	ment: Unconfine	rd		Order:	1		0	pen wa	ter:		
US Elev (m):	1311	isi	ands:		Ri	p <del>a</del> rian Ve	getatio	on:					
Bars: None	Side	Diagonal	Mid-channel	Span		Braid 🗌	Land	iuse:					
					817	E							
Site #:	118	Field UTM	9.687399.60550	)60		Ager	cy: C0	<b>)</b> 16	Crew: SF	t/MJ	Date:	2002/0	7/29
Site Length	(m): 120	GIS UTM	10.299949.6055	5585		Age	ncy Na	me: FINS	Consulting Ltd	i. 			
				C	HAI	NEL							
No Vis.Ch.:	Intermitte	nt: 🗹		Avg	Min	Max	#	] _		Avg	Min	Max	#
Dewatered:	Trib		annel Width (m):	1.20	0.800		6	1	Gradient %:	2.75	2	3	4
Stage: Low	<b>7</b>	<u> </u>	etted Width (m): nkfull Depth (m):	0.20	0.3	0.7	3	┨┖┸	ool Depth (m):	0.18	0.170	0.19	2
Med		h	<del> </del>	0.37	0.3		<del></del>	J	Turb	idity.:	Turbid	$\exists$	Low
High [	Tei	mp (C): 10	pH: 8.4			Conducti	*			M	oderate	(	Clear 🗹
				MOR	PH	orog				_			
	Dominant: I		D95 (cm): 8.			Bars: No	on 🗹	Side [	Diagonal [	Mid	-channei		pan 📋
	ubdominant: (	araveis	D (cm): 2.									В	Iraid 🔝
	ttem: Sinuous	_	Islands: No	ne		URBANCE ICATORS	<u> </u>	B1	B2 B3	D1	D2 C	3	
l .	oling: Decoupl ment: Unconfir				C1		C3 (	C4 C5	S1 S2		54	 S5	
l		Riffle Pool		-			.₃ ¬ ⊤ ⊤		31 32		34   [ ] ]	33	
Worpho	nogy. Iti	111110 7 001		-	بليا		لللك	<u> </u>	1 1 1 1		الاا	للل	
					SOV	ER							
Total Cover:	Trace		Туре:	SWD	LΝ		3	U		ΟV	IV		
LWD: I	None	-	Amount: ocation: P/S/O:	T	<u> </u>		7	S		S	N	l	_
LWD Dist:	Not Applicable	,	Jocation. F13/O.			الااللا	اللا	<b>Y</b>				] FS	z: 📋
Right Bank:	Shape: V	•	ure: Fines 🗹 Gr	$\equiv$	Cobbl	=	=	Rock	Manmade	]	Cr	own Ck	
Left Bank:	Shape: Ur		ure: Fines 🗹 Gr		Cobbl		der	Rock _	Manmade	]		21-	40%
Right Bank: Left Bank:	Rip.Veg: Sh Rip.Veg:	rubs	`	ge: Not A ge: Not A			inc	troom Vo	g: None 🗹	Alasa [	Moce	□ v <sub>2</sub>	scular
Leit bank.	rap.veg.			JE. NUL A	phicai		1112	Sueam ve	g. None v	Nyae L	IVRASS	Va:	
					FI	9 H							
Site Number	Capture Method	Number of Events	Length fished (m)	Tota Tim	1	Voltage	•   •	Species	Total Fish	Mini: Lenati	mum h (mm)		dmum th (mm)
118	EF	1	120	88 se	-	700	_	СТ	1	<u>-</u>	<u>, ,</u>		88
			<b>'</b>	•	•								
Rol# 10, Fra	me# 6. CD#	3. Image#20	2, Direction: U	pstream	. Sca	le/Comm	ent:ca	ım baq -	note strande	d. dea	d CT be	side ca	am baq
			3, Direction: D	•				-		•			•
			el is almost ent										
			abitat (isolated before emerge							ers pres	sent in p	DOOL CTE	isis,
		,,,						<b>P</b>	,				
1													
1													

#### BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

ILP#

2.0 93L.070

			STR	EAM	REF	EREN	IC II	4 G					
Gazetted Nam	ie:						ocal	Name:					
Watershed Co	de: 000-0000	00-00000-0000	00-0000-0000-00	0-000-00	0-000-	000-000		ILP N	fap #: 93L.070	)	ILP	#:	70725
				F	EA	CH							
Reach #: 2.0	1	HT	M(Zone/East/No	with). G R	R7704	6055429				Sample	Tyne:	Biase	ed .
Length (km):			oling:	<b>ли</b> ј. 0.0		gnitude:			•	-	Zone:	5.00	
Gradient (%):	6.7	Confiner	ment: Occasiona	ally Con		Order:	1		0	pen wa	ter:		
US Elev (m):	1337	lsi:	ands:		Rip	oarian Ve	getati	ion:					
Bars: None	] Side [	Diagonal 🗌	Mid-channel	] Span	В	raid 🗌	Lan	duse:					
					SIT	E							
Site #: 1	119	Field UTM	9.687530.60553	102		_	cy: C			VMJ	Date:	2002/0	7/29
Site Length (	m): 100	GIS UTM	10.300068.6055	821		Age	ncy Na	ame: FINS	Consulting Ltd	1.			
	_			C	HAN	NEL		_					
No Vis.Ch.:	Intermitte	= -		Avg	Min	Max	#	<b></b>		Avg	Min	Max	#
Dewatered:	_		ennel Width (m): etted Width (m):	0.40	1 0	1.600	6	┥┝	Gradient %: ool Depth (m):		0.090	14 0.21	3
Stage: Low	4	·	nkfuli Depth (m):		0.3	0.4	3	┧└	• • • • • •	idity.:	Turbid	7	LOW [
Med High	_  ☐ Ter	np (C): 10	pH: 8.4			Conducti	/itv: 40		1 010	-	oderate	₫ ,	Clear
			F ·	MAR		OLOG						_	
Bed Material:	Dominant: C	Cobble	D95 (cm): 35		2.002.620.	Bars: No		Side	Diagonal [	Mid	-channel	Πs	pan 🗍
1	ubdominant: F		D (cm): 4				(2.)						Braid 🗌
Channel Pat	tem: Irregular	, Wandering	Islands: No	ne	DISTU	JRBANCI	<u> </u>	1 B1	B2 B3	D1	D2 D	3	
Coup	ling: Decouple	ed			INDI	CATORS							
1	nent: Occasio	•		_	C1	C2 (	C3	C4 C5	S1 S2	S3	S4	S5	
Morpho	logy: CP	Cascade Pool		-									
					COY	ER							
Total Cover: 1	race		Туре:	SWD	LW		В	Ü		OV	IV		
LWD: F	-ew		Amount: ocation: P/S/O:	T	T		T	T	D Call	s	N	١	
LWD Dist: 1	Evenly Distrib	nted [								<u>          </u>	ـــالــالـــ		sz:
Right Bank:	Shape: Un		rre: Fines 🗹 Gr			_	=	│ Rock	」Manmade ∟	_  -	Cr	own Clo	osure -40%
Left Bank: Right Bank:	Shape: Sk Rip.Veg: Sh		ıre: Fines ✔ Gı Star	ravel ne:NotA		_	cer[_	_ Rock [_	∫ Manmade [	J		21.	<del>40 %</del>
Left Bank:	Rip.Veg:	1000	`	e: Not A			in	stream Ve	g: None 🗹	Algae [	Moss	☐ Va	scular [
					*****	***********	*******					*******	***********
Site Number	Capture	Number of	Length fished	Tota	F15	Voltage	<u>.  </u>	Species	Total	Misi	mum	Mer	kimum
Site number	Method	Events	(m)	Tim		Voltage		opecies	Fish		h (mm)		rth (mm)
119	EF	1	100	264 s	ес	700		NFC	0				
Roil# 10, Fra	me# 8, CD#	3, lmage#20	4, Direction: U	pstream	, Scal	e/Comm	ent:c	am bag	_				
			5, Direction: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon: Dewelon							tv stee	per grad	fient. s	ite =
UTM, but wa	ked all read	h. trickle thro	ugh cobble, fre	quently	dry se	ections,	CT us	se limited	to section ne	ar mo	uth, pro:	cimal t	o Pierre,
would have g	ot them her	e. Spawning l erv shallow a	Habitat - none and seasonal, l	- all larg lacks de	en no	ble mixe ol habita	ed with	h fines/or far from	ganics. Over Pierre	winteri	ng Habi	tat - no	one.
Treating ridb	itat - poor - t	cty shallow t	and dedocras,	2010 00	op po	OI IIGDIG	.,						
1													
1													

BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

ILP# 70726

.0 93L.070

		STR	EAM	REF	ERE	NGIN	G					
Gazetted Nam	ie:					Local N	ame	:				
Watershed Co	de: 000-000000-0000	00-00000-0000-0000-00	0-000-0	00-000-	000-000		11	LP Map #: 93L.070		IL	P#:	70726
				REA(	; H							
Reach #: 1.0	)	UTM(Zone/East/No	orth): 9.	687209.	6054993	3		5	ample	Type:	Bia	sed
Length (km):	.17	Coupling:	•		mitude:				BGC	• •		
Gradient (%):	B.8 Co	onfinement: Frequently	/ Confin		Order:	1		0	pen wa	ter:		
US Elev (m):	1320	Islands:		Rip —	arian V	egetatio	n:					
Bars: None	Side Diagona	al Mid-channel	Span	Br	aid 🗌	Land	use:					
				SIT	E							
Site #: 1 Site Length (i		UTM 9,687303,60550 S UTM 10,299822,6055			_	ncy: C0 ncy Nar		Crew: SR INS Consulting Ltd	/MJ	Date:	2002/	07/29
			C	HAN	NEL							
No Vis.Ch.:	Intermittent:		Avg	Min	Max	#	1		Avg	Min	Max	#
Dewatered:	Tribs.:	Channel Width (m):	0.00	0	0	0	1	Gradient %:	0.00	0	0	0
Stage: Low	7	Wetted Width (m):	0.00	0	0	0		Pool Depth (m):	0.00	0	0	0
Med	j	Bankfull Depth (m):	0.00	0	0	0	J	Turbi	dity.:	Turbid		Low
High	Temp (C):	pH:		(	Conducti	vity:			М	oderate		Clear 🗌
			MOI	RPH C	LOG	Y						
Bed Material:	Dominant:	D95 (cm):			Bars: N	on 🗌	Sid	le 🔲 Diagonal 🛭	Mid	-channe	ı 🗌	Span 🔲
Sı	ubdominant	D (cm):										Braid
Channel Pat		Islands:			RBANC		E	1 B2 B3	D1	D2 [	03	
Coup					CATORS		لل	11111	111	لللا	للـ	
Confinen				C1	C2	C3 (	<b>74</b>	C5 S1 S2	S3	S4	S5	ì
Morpho	logy.			لـــــــــــــــــــــــــــــــــــــ							<u>                                     </u>	<u> </u>
				COV	E R							
Total Cover:		Туре:	SWD	LWI	)	В	υ	DP (	)V	IV	1	
LWD:		Amount:		1			8		8 1	11.11		C
LWD Dist:									<u></u>	11		sz:
Right Bank:	Shape:	=	avel	Cobble	=	=	Roc	= =	]	С	rown C	Closure
Left Bank:	Shape:		avel	Cobble	∐ Bo∟	ilder	Roc	k Manmade	J			
Right Bank: Left Bank:	Rip.Veg: Rip.Veg:	Stag Stag				inst	tream	r Veg: None 🗌	Algae [	Moss	$\square v$	ascular
-5.1 501111.	- op. r og.		,						-3-0 L			
site = UTM =	mouth. channelize	age#206, Direction: t d at mouth, but only tial. Other - none - e	d/t Pier	re C. s/	c flow,	channe of Pien	sw k		ercolat	es imm	nediate	ely u/s

#### BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

ILP#

1.0

93L.070 70727

STREAM REFERENCING **Gazetted Name:** Local Name: ILP Map #: 93L.070 70727 REACH Reach #: 1.0 UTM(Zone/East/North): 9.686681.6055077 Sample Type: Biased Length (km): .66 Coupling: Magnitude: **BGC Zone:** Gradient (%): 7.6 Confinement: Confined Order: 1 Open water: **US Elev (m): 1358** Islands: Riparian Vegetation: Bars: None Side Diagonal Mid-channel Span Braid Landuse: SITE Agency: C016 Site #: 121 Field UTM 9.687252.6055195 Date: 2002/07/29 SR/MJ Crew: GIS UTM 10.299793.6055733 Agency Name: FINS Consulting Ltd. Site Length (m): 150 CHANNEL No Vis.Ch.: Avg Min Max Min Intermittent: # Avg Max Dewatered: Tribs.: Channel Width (m): 0.00 ō 0 ō Gradient % 0.00 0 0 O Wetted Width (m): Pool Depth (m): 0.00 0 0 0 0.00 0 0 0 Stage: Low Bankfull Depth (m): 0.00 0 0 0 Low Med Turbidity.: Turbid Moderate Clear High Temp (C): pH: Conductivity: MORPHOLOGY Bars: Non Side Diagonal Mid-channel Span Bed Material: Dominant: D95 (cm): Braid \_\_ Subdominant D (cm): Channel Pattern: Islands: INDICATORS | | | | Coupling: Confinement: C3 C4 C5 S1 **S2 S3** Morphology: COVER Total Cover: Туре: SWD LWD DP ΟV Amount LWD: Location: P/S/O: FSZ: LWD Dist: Texture: Fines Gravel Cobble Boulder Rock Manmade Right Bank: Shape: Crown Closure Texture: Fines Gravel Cobble Boulder Rock Manmade Left Bank: Shape: Right Bank: Instream Veg: None Algae Moss Vascular Left Bank: Rip.Veg: Stage: Roll# 10, Frame# 11, CD# 3, Image#207, Direction: Downstream, Scale/Comment:cam bag - showing NCD'ish nature Roll# 10, Frame# 12, CD# 3, Image#208, Direction: Upstream, Scale/Comment:cam bag - showing channelized section "creek" also enter a small Pierre C. s/c and is occasionally channelized but discontinuous and inaccessible to CT, contains no usable fish habitat anyway, channelized sections - 1cm deep and 0.3m wide. site = UTM. Other - none

#### BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

70728

1.0 93L.070

				STR	EAM	REF	ERE	VCIN	G					
Gazetted Nam	e:							Local N	ame:	:				
Watershed Co	de: 000-00	0000-0000	0-0000	00-0000-0000-00	0-000-0	00-000-	000-000		IL	.P Map #: 93L.07	D	ILF	#:	70728
						REA(	) H							
Reach #: 1.0	)		UT	M(Zone/East/No	orth): 9.	687348.	6056084				Sample	Туре:	Bias	ed
Length (km): .	.88		Coup	oling:	-	Mag	initude:				BGC 2	Zone:		
Gradient (%):		Co		nent: Confined			Order:			•	)pen wa	ter:		
US Elev (m):		_		ands:		_ `	arian Vo	egetatio	n:					
Bars: None	Side	Diagonal	ı 📙	Mid-channel	Span	∐ Ві		Land	use:					
						SIT	E							
Site #: 1 Site Length (i				9.686860.60555 10.299384.6056			•	ncy: C0		Crew: S INS Consulting Li	R/MJ d	Date:	2002/	07 <i>1</i> 29
Olle Cengui (i		O.		10.233001.0000		HAN		incy iva			<b></b>			
No Vis.Ch.:	ntermi	ttent:	********		Avg	Min	Max	#	**************************************		Avg	Min	Max	T # 7
Dewatered:	=	ribs.: 🔲 [	Cha	nnel Width (m):	0.00	0	0	0	l	Gradient %	<u> </u>	31	31	1 7
Stage: Low	- ··			etted Width (m):	0.00	0	0	0		Pool Depth (m		0	0	0
Med Med	1		Bar	nkfull Depth (m):	0.00	0	0	0	]	Tur	oidity.:	Turbid	_	Low
High [	<u> </u>	Temp (C):		pH:		(	Conducti	vity:			M	oderate		Clear
					), O	(P.)	) L O C	Y						
Bed Material:				D95 (cm):			Bars: N	on 🗌	Sid	e Diagonal	Mid-	-channel	_	Span 🗌
	ubdominani	t:		D (cm):										Braid 📙
Channel Pat				Islands:			RBANC		<u>B</u>	1 B2 B3	<u>D1</u>	<u>D2                                     </u>	3	
Coup	•					C1		نطا	 `4	C5 S1 S	S3	54	 S5	
Morphol							$\overline{\Box}$		<del>-</del>					
						COV	ER							
Total Cover:				Type:	SWD	LW		В	U	DP	ov	IV	1	
LWD:				Amount									1	
LWD Dist:			L	ocation: P/S/O:								1	F	sz: 🗌
Right Bank:	Shape:		Textu	re: Fines 🔲 Gr	avel	Cobble	Bou	ider 🔙	Roc	k Manmade		Cı	rown C	losure
Left Bank:	Shape:		Textu		avei	Cobble	Bou	ider	Roc	k Manmade				
Right Bank:	Rip.Veg:			Sta				lne	lman	ı Veg: None 🗌	Alesa [	Moce	□ v.	ecular [
Left Bank:	Rip.Veg:			Stag				uis	u edifi	. vey. HUNE [_]	-was [		V	-SCHOOL [
drainage is ju	st a steep	gully see	page/	09, Direction: trickle down P = 10m from m	ierre C.	valley	wall wit			oag abitat/passage (	or potent	tial, not	an FF	PC

BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

ILP#

1.0

93L.070

		STR	EAM	REFE	RE	ICIN	G						
Gazetted Name:						Local N	lame:						
Watershed Code	e: 000-000000-0000	0-00000-0000-0000-00	00-000-00	00-000-00	000-000		ILP	Map #: 93L	_070		11.5	<b>*</b> 7	0729
			F	REAC	H								
Reach #: 1.0		UTM(Zone/East/N	orth): 9.6	86387.60	)55391		•••••		S	ample '	Type:	Biase	d
Length (km): .39	•	Coupling:	•	Magn						BGC 2	Zone:		
Gradient (%): 14		nfinement: Confined			Order:				Op	en waf	ter:		
US Elev (m): 13	84	islands:	,	_	_	getatio	n:						
Bars: None	Side Diagona	I Mid-channel _	Span			Land	use:						
				SITE									
Site #: 123 Site Length (m)		UTM 9.686717.60555 S UTM 10.299274.6056			-	ncy: C0		Crew: S Consulting	SR/		Date:	2002/07	7/29
Site Length (III)	, 100 GK	3 O I W 10.293274.0030		****		ncy Iva		O CONSUMIN	y c.u.				
No Vis.Ch.: ✓	Intermittent:		Avg	HANN Min	Max	#	7		·····	Avg	Min	Max	# 1
Dewatered:	Tribs.:	Channel Width (m):	0.00	0	0	0	┨┌	Gradier	nt %.	0.00	0	0	0
Stage: Low		Wetted Width (m):	0.00	0	0	0	] [	Pool Depth		0.00	0	0	0
ivied		Bankfull Depth (m):	0.00	0	0	0	] –		Turbio	dity.:	Turbid		LOW
High 🗌	Temp (C):	pH:		Co	onducti	vity:				M	oderate		Clear
			MOR	PHO	<b>000</b> 0	Y							
Bed Material: 1	Dominant:	D95 (cm):		В	ars: N	on 🗌	Side	Diagor Diagor	nai 🗌	] Mid-	-channe	_	pan 🗌
Sub	dominant:	D (cm):										В	raid 🔲
Channel Patter		Islands:		DISTUR			B1	B2 B	33	D1	D2 [	<u>73</u>	
Couplin Confinemen	•				C2	ш.	C4 (	.5 S1	 S2	S3	1 1 1 1 S4	 	
Morpholog									$\overline{\Box}$	ΤΠ		$\overline{\Box}$	
construction of the second				COVE									
Total Cover:		Туре:	SWD	LWD		вТ	U	I DP	Ιο	v I	īV	7	
		Amount:	0112	1	+			-	Ť	+		1	
LWD:		Location: P/S/O:										FS	z: 🗌
Right Bank:	Shape:	Texture: Fines G	ravel	Cobble	Bou	lder	Rock	Manma	de	]	С	rown Clo	sure
Left Bank:	Shape:	=	ravel	Cobble	Bou	ider 🗌	Rock	Manma	ide				
-	Rip.Veg:	Sta	-						П.		٦		
Left Bank: 1	Rip.Veg:	Sta <sub>2</sub>	ge:			Ins	tream \	/eg: None	<u> </u>	Vgae L	_ Moss	U Vas	cular
no drainage (FF	PC) present, one	NCD observed d/s o	n Pierre	, but it v	vas al	so NCI	) with	no fish hat	bitat o	or pote	ntial - ı	nothing	to
photograph. site	e = UTM = "moutl	h". Other - none											
1													
1													
L													

BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

ILP#

1.0 93L.070

			318	EAM I	(EFE	R.E.R.						
Gazetted Nam	e:					Lo	cal Nar	ne:				
Watershed Co	de: 000-00000	00-00000-0000	00-0000-0000-00	0-000-00	0-000-00	000-000		ILP M	ap #: 93L.070	ILP	<b>#</b> : 7	0730
				R	EAC	H						
Reach #: 1.0		UT	M(Zone/East/No	orth): 9.6	86857.60	056128				Sample Type:	Biase	d
Length (km): .	.41		oling:		Magn					BGC Zone:		
Gradient (%):			ment: Confined			Order: 2			0	pen water:		
US Elev (m):	1385	lsi —	ands:		_ `	rian Veg	etation:	:				
Bars: None	SideI	Diagonal L	Mid-channel	Span (			Landus	ie:				
					SITE							
Site #: 1			9.686662.60558			-	y: C016			VMJ Date:	2002/07	/29
Site Length (	m): 150	GIS UTM	10.299245.6056				y Name	; FINS	Consulting Ltd	1.	***********	
	_	F-3			HANN		<u> </u>			F. 1.0		
No Vis.Ch.:	=	=	Maran / S	Avg	Min	Max	#	_	Gradient %:	Avg Min	Max 18	#
Dewatered:	_j Tribs	_	annel Width (m): etted Width (m):	1.25 0.70	0.9	1.600	6	┝	ool Depth (m):	14.00 10 0.09 0.06	0.12	3
Stage: Low 🔽	₫		nkfull Depth (m):	0.70	0.3	0.4	3	<u> </u>		·		
Med	_	<u> </u>		0.00					Turb	idity.: Turbid L Moderate	=	Low
High [	len	np (C): 8	pH: 8.5			onductivil	•			Moderates		Nesai (A)
						LOGY						
	Dominant: C ubdominant: G		D95 (cm): 35		В	ars: Non		Side _	_ Diagonal (	Mid-channel	_	pan [ raid [
		i avers	D (cm): 4.		DICTIO	DANCE	04	D4	D2 D2	D4 D2 D	,	
	tem: Sinuous ling: Coupled		Islands: No	ne	DISTUR		O1	BI	<u>BZ B3</u>	D1 D2 D	הלי	
	nent: Frequent	lly Confined			C1	C2 C	3 C4	C5	S1 S2	S3 S4	 S5	
	=	Cascade Pool		-	$\overline{\Box}$		77 [					
				-	OVE	P						
Total Cover: 1	[mca		Type:	SWD	LWD	В	1	υĪ	DP (	ov I iv		
			Amount:	N	N	s		T	D	T N		
LWD: N	vone Not Applicable	, ,	ocation: P/S/O:								FS	z: 🗌
Right Bank:	Shape: V -	shape Text	ure: Fines 🗹 Gr	ravel 🗸	Cobble	<b>✓</b> Bould	er  F	Rock _	Manmade [	Cr	own Clo	sure
Left Bank:	Shape: Un		ure: Fines 🗹 Gi					Rock _	Manmade [		21-	40%
Right Bank:	Rip.Veg: Co	niferous	Star	ge: Matur	e forest		,				_	_
Left Bank:	Rip.Veg:		Stag	ge: Matur	e forest		Instre	eam Ve	g: None 🔛	Algae Moss	<b>✓</b> Va:	cular _
					F	EATU	RES					
NID Map	NID Type	Hgt	Method Lg	Meth		Phol			UTM (Z/E/N)	Method	4	
	31241 C	4.0	AL 14	GE	R:	10 F	1		86662.60558	14 GIS		
Comments:	steep gradier	nt commencing	with bedrock ch	nute, cont	ains med	uent ster	)S WITH T	to poor	s, impassable			
					FIS	1						
Site Number	Capture	Number of	Length fished	Tota		Voltage	Sp	ecies	Total Fish	Minimum Length (mm)		cimum th (mm)
	Method	Events	(m)	Tim 364 s	- 1	700	1.	NFC	0	Lengur (mm)	reng	Li (iiiii)
124	EF	1	150	304 5	eri	100	<u> </u>	•••	1 0	1	L	
Roll# 10, Fra Roll# 10, Fra infer use (CT below C is 0.	me# 15, CD me# 16, CD ) to C, then .1, above is pawning Hab	# 3, Image# # 3, Image# S6. seasona 1.0. NFC bel itat - none -	ow as well, site no uniform gra	Upstrea Downsto perman = UTM	m, Scai ream, S ent hab = start	le/Comn cale/Co itat, no t of new	nent:do mment overwii reach.	og bcam t nter u/s Other	pag s to support - all isolated	n features isolated popula . Overwintering p enough but v	Habit	at - none
1												

BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

ILP# 70732

1.0 93L.070

	STRE	AM REFERENCI	NG	
Gazetted Name:		Loca	Name:	
Watershed Code: 000-000000-000	00-00000-0000-0000-000	-000-000-000-000-000	ILP Map #: 93L.070	ILP#: 70732
		REACH		
Reach #: 1.0	UTM(Zone/East/No	th): 9.686259.6055747	Sample	Type: Biased
Length (km): .07	Coupling:	Magnitude:		Zone:
	onfinement: Confined	Order: 2	Open wa	iter:
US Elev (m): 1371	Islands:	Riparian Vegeta Span Braid La	uon: nduse:	į
Bars: None Side Diagon	al     Mid-Crianner	SITE	ruse.	
5: 1.400 E.	d UTM 9.686323.605572		C016 Crew: MJ/SR	Date: 2002/07/30
	IS UTM 10.298900.60563	• •	lame: FINS Consulting Ltd.	Date. 2002/07/30
		CHANNEL		
No Vis.Ch.: Intermittent:		Avg Min Max #	Avg	Min Max #
Dewatered: Tribs.: ✓	Channel Width (m):	0.00 0 0 0 0.00 0 0 0	Gradient %: 15.00 Pool Depth (m): 0.00	15 15 1
Stage: Low	Wetted Width (m): Bankfull Depth (m):	0.00 0 0 0	Turbidity.:	Turbid Low
Med Temp (C):	pH:	Conductivity:	•	Abderate Clear
		MORPHOLOGY		
Bed Material: Dominant:	D95 (cm):	Bars: Non	Side Diagonal Mic	d-channel Span
Subdominant:	D (cm):			Braid 📙
Channel Pattern:	islands:	DISTURBANCE INDICATORS	01 B1 B2 B3 D1	D2 D3
Coupling: Confinement:		C1 C2 C3	C4 C5 S1 S2 S3	S4 S5
Morphology:				TOTO
		COVER		
Total Cover:	Type:	SWD LWD B	U DP OV	IV
LWD:	Amount:			
LWD Dist:	Location: P/S/O:			FSZ:
Right Bank: Shape:	Texture: Fines Gra	avel Cobble Boulder	Rock Manmade	Crown Closure
Left Bank: Shape:	•	vei Cobbie Boulder	Rock Manmade	
Right Bank: Rip.Veg: Left Bank: Rip.Veg:	Stag Stag		nstream Veg: None Algae	Moss Vascular
Edit Dalle, 14p. 10g.	3	FEATUR		
NID Map NID Type H	nt Method Lg	Method Photo	UTM (Z/E/N)	Method
093L.070 31261 TRB	AL	GE R: F:	9.686323.6055729	GIS
Comments: unmapped R8 tribu	tary, flows at BRG 050 or	25% slope		
Roll# 10, Frame# 20, CD# 3, In site = UTM = ~60m d/s from me	nage#216, Direction: U	Ipstream, Scale/Commer	t:cam bag r 60m on 15% slope d/s from	meadow some
scoured sections, but in 80% e	ntirely vegetated by sh	rubs and saplings, snow	nelt runoff. Other - No fish ha	bitat
:				

BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

ILP#

1 93L.070

			STR	EAMF	REFE	RENC	ING			
Gazetted Name	e:					Loc	al Name:			
Watershed Cod	de: 000-00000	0-00000-0000	0-0000-0000-00	0-000-000	0-000-00	00-000	ILP N	<b>tap #</b> : 93L.070	) ILP	<b>#</b> : 70732
				R	EAC	Ħ				
Reach #: .1		תט	A(Zone/East/No	orth): 9.68	36337.6	055740			Sample Type:	Biased
Length (km):	19	Coup	•	•		ritude:			BGC Zone:	
Gradient (%): 1	1.6	Confinen	ent: Confined			Order: 2		O	pen water:	
US Elev (m): 1	1362	Isla	nds:	_	Ripa	rian Veget	ation:			
Bars: None	Side 🗌 [	Diagonal 🔲 I	Mid-channel	Span [	Bra	ıid 🗌 L	anduse:			
					SITE					
Site #: 1	25	Field UTM	9.686476.60558	28		Agency:				2002/07/30
Site Length (r	n): 150	GIS UTM	10.299061.6056	446		Agency	Name: FINS	Consulting Ltd	i.	
				C)	IANI	VEL				
No Vis.Ch.:	Intermitter	=		Avg	Min		#		Avg Min	Max #
Dewatered:	Tribs		nnel Width (m):		0.600		6	Gradient %		15 4 0.230 4
Stage: Low	3		tted Width (m):		0.400		6   LF	Pool Depth (m)		
Med	<b>≓</b>	<u> </u>		0.20				Turt	oldity.: Turbid	_ Low _ Clear ✔
High _	Ten	ıp (C); 5	pH: 8.3			onductivity	: 30		Moderate	Crear 💌
						LOGY		¬	¬	
Bed Material:			D95 (cm): 50		Ε	Bars: Non	✓ Side	_ Diagonal [	Mid-channel	Span [_] Braid
	ubdominant: G	raveis	D (cm): 6			2041105	04 04	DO D2	D4 D2 D	_
}	tem: Sinuous		Islands: No	ne		RBANCE ATORS [	01 <u>B1</u>	B2 B3	D1 D2 D	<u>3</u>
1	ling: Coupled sent: Confined				C1	C2 C3	C4 C	5 S1 S2	S3 S4	 S5
1		Cascade Pool		-	$\overline{\Box}$					
	•			-	OVE					
Total Cover: T		1	Type:	SWD	LWD		Ιυ	DP	ov iv	1
1			Amount:	T	T	D	T	s	T	
LWD: F	·ew Evenly Distribu	ted L	ocation: P/S/O:	$\mathbf{Z} \Box \Box$						FSZ:
	Shape: V -		re: Fines 🗹 G	ravel	Copple	✓ Boulde	r Rock	Manmade	Cı	own Closure
Right Bank: Left Bank:	Shape: V -		re: Fines 🗸 G					= =	=	21-40%
Right Bank:	Rip.Veg: Sh			ge: Not A				_	_	
Left Bank:	Rip.Veg:		Sta	ge: Not A	pplicable	Ð	Instream V	eg: None	Algae  Moss	✓ Vascular L
					F15	H				
Site Number	Capture	Number of	Length fished	Tota	******	Voltage	Species	Total	Minimum	Maximum
	Method	Events	(m)	Tim	е			Fish	Length (mm)	Length (mm)
125	EF	1	150	173 s	ес	700	NFC	0	L	l
D ## := =		# O 1 "	47 Din4-	llaste :	- C	la/Com-	ont-be-al-			
Roll# 10, Fra	me#21,CD me#22 CD	#3, Image#2 #3_Imane#2	17, Direction: 18, Direction:	Opstreat Downstr	ream. S	Scale/Con	mentcam	bag		
flows through	narrow qui	v with freque	nt small (0.5m	ı) fails ar	nd casc	ædes. site	e ≕ UTM = r	nouth. Overv	vintering Habita	it - none - too
shallow and	short pools.	Other - creek	accessible from	om Pierre	e. Rear	ring Habit	at - fair at k	w/moderate	flow, mainly an	nong
cobble/bould	er and shalk	ow pools. Spa	awning Habita	ı - none	- sudst	1416 100 g	arge and Mi	AGU, MUNS N	olding areas an	u idəl iləw iil
abru.a										
i										
ı										

BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

ILP# 70735

.0 93L.070

					STR	EAM	REF	ERE	VCIA	G					
Gaze	tted Nan	ne:							Local I	lame:					
Wate	rshed Co	ode: 000	-00000-0000	0-000	00-0000-0000-00	0-000-0	00-000-	000-000	•	ILI	P Map #: 9310	70	1LI	P#:	70735
							REA(	2.8							
Rea	ach #: 1.0	)		UT	M(Zone/East/N	orth): 9.0	586871.	605746	9			Sample	Type:	Bias	sed
_	pth (km):				pling:		Mag	gnitude:					Zone:		
l l	ient (%):		Co		ment: Frequently	y Confin	<b>m</b> ?.	Order				Open wa	iter:		
]	Elev (m):	_	□		ands:	۱ ۵	_ `	arian V	•						
Bars:	None L	_  Side	Diagonal	•	Mid-channel	」 Span			Lanc	iuse:					
	<u> </u>				0.000404.00500		SIT		~		C	4.VCD	Deter	2002/	07/20
Site	Site #: Length (				9.686421.60569 110.299102.6057			-	ncy: C( encv Na		Crew: NS Consulting	MJ/SR Ltd.	Date:	2002	01/30
		,					HAN		•						
No \	Vis.Ch.: [	inte	rmittent: 🗸			Avg	Min	Max	#	7		Avg	Min	Max	#
	vatered:	j	Tribs.:	Cha	annel Width (m):	0.88	0.600	1.200	6	<b>j</b> r	Gradient	Ť	7	8	4
Stage:	Low	7	l		etted Width (m):	0.00	0	0	6	] [	Pool Depth (r	n): 0.00	0	0	6
	Med	5	l	Ba	nkfull Depth (m):	0.13	0.1	0.2	3		Tu	rbidity.:	Turbid	=	Low
	High [	_]	Temp (C):		pH:			Conduct				N	łoderate	L	Clear
		_					***********	) L O C							• 🗀
Bed			nant: Cobble nant: Gravels		D95 (cm): 15 D (cm): 4			Bars: N	on 🔽	Side	Diagona	Mic	l-channe	1 []	Span
Ch	annel Par				Islands:	.00	DISTI	IDBANC	E 01	D.4	1 B2 B3	D1	ו פח	<b>13</b>	
Cna			ruous rtially Coupled		isianus.			CATORS		B1 ]	B2 B3		D2 I		
		•	equently Confir	ned			C1	C2	СЗ	C4	C5 S1 S	2 S3	S4	S5	
	Morpho	ology: C	P Cascade	Pool											
							COV	ΕR							
Tota	il Cover: I	None			Туре:	SWD	LW	_	В	U	DP	ov	iV	]	
	LWD:	Few			Amount: ocation: P/S/O:	N	N	<del>,   -  </del>	N	N	N	N	N	-	
LV	VD Dist:	Evenly D	Distributed	L		<u> </u>	_الــالــــــــــــــــــــــــــــــــ	<u>الال</u> —	اللت	اللا	<u> </u>			_	sz:
1 -	ht Bank:	-	oe: Sloping (g		ure: Fines 🗹 G						_		С	rown C	losure 1-70%
1	eft Bank: ht Bank:	-	e: Sloping (g eg: Coniferous	i ext	ure: Fines 🗹 Gr Star	ravel <b>⊻</b> ] qe: Matu			iiGer	Rock	Manmade			4	1-1076
1	eft Bank:	Rip.Ve	-		`	ge: Matu			ins	atream	Veg: None ₩	Algae	Moss	. □ v	ascular _
					· · · · · · · · · · · · · · · · · · ·									<del></del>	
Roll#	10, Fra	me# 23	, CD# 3, Ima	ge#2	19, Direction:	Upstrea	m, Sca	le/Con	ment:	am b	ag				
Rol#	10, Fra	me# 24	, CD#3, Ima	ge#2 = 117	20, Direction: 6 M = end of me	Downst	ream, S	Scale/C	omme	nt.can	n bag er - No fish ha	hitat - ee	asonal	and	
mode	erately s	teep str	eam with no	instr	eam cover whe	en flowir	ng durii	ng snov	vmelt r	unoff.	Overwinterin	g Habita	t - none	. Rea	ring
			vning Habitat												
1															
1															
1															

BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

ILP#

1.0 93L.070

		STR	EAM	REF	EREN	ICIN	G					
Gazetted Name	·:					Local N	ame:		_			)
Watershed Cod	le: 000-000000-0000	0-00000-0000-0000-00	0-000-0	00-000-0	000-000		ILF	P Map #: 93L.070		HLF	*	70736
				REA(	; <b>#</b> 1							
Reach #: 1.0		UTM(Zone/East/No	orth): 9.0	685856.	6057082	2		S	ample	Type:	Biase	ad
Length (km): .2	28	Coupling:	•		mitude:				BGC 2	Zone:		
Gradient (%): 8	.6 <b>C</b> c	onfinement: Occasiona	ally Con		Order:			O	pen wat	er:		
US Elev (m): 1		Islands:	,	_	arian Ve	-						;
Bars: None	Side Diagona	al Mid-channel	Span		aid 🔝	Land	use:		*********			
				SIT	**********							
Site #: 12 Site Length (m		IUTM 9.686080.60571 SUTM 10.298782.6057			-	ncy: C0 ncy Nar		Crew: MJ NS Consulting Ltd	/SR -	Date:	2002/0	7 <i>1</i> 30
			C	HAN	NEL							
No Vis.Ch.:	Intermittent:		Avg	Min	Max	#			Avg	Min	Max	#
Dewatered:	Tribs.:	Channel Width (m):	0.00	0	0	0	[	Gradient %:	4.00	4	4	1
Stage: Low [	]	Wetted Width (m): Bankfull Depth (m):	0.00	0	0	0	L	Pool Depth (m):	0.00	<u> </u>	0	<u> </u>
Med	]	1	0.00	\			i	Turb	-	Turbid oderate	=	Low
High	Temp (C):	pH:			Conducti	-			IVS	ocerate		Clear [_]
			M(O)		) L O C		····	. [ _ <del>5</del> ; [	7	-channe	. 🗆	· □
Bed Material:	Dominant: bdominant:	D95 (cm): D (cm):			Bars: N	on 🗀	Side	B Diagonal	IVIICI-	-cnanne		Span 🔲 Braidi 🗌
Channel Patt		Islands:		DISTI	IRBANC	E 01	В1	t B2 B3	D1	D2 [	<b>)</b> 3	
Coupl		isianos.			CATORS		ΙĔ					
Confinem	•			C1	C2	C3 (	<b>:</b> 4	C5 S1 S2	S3	S4	S5	
Morpholo	ogy:											
				COV	F.R							
Total Cover:		Type:	SWD	LW	D	В	Ū	DP (	OV	ΙV	]	
LWD:		Amount:								· 1 · 1	4	
LWD Dist:		Location: P/S/O:	باليال	_الـاالـ	لاالا				<u> </u>		<u>)</u> ] F9	sz: 📋
Right Bank:	Shape:	_	ravel	Cobble	=	ulder	Rock	= =	]	c	rown Cl	osure
Left Bank:	Shape:	L.,	ravel	Cobble	Bou	ulder	Rock	k ∐ Manmade ∐	J			
Right Bank: Left Bank:	Rip.Veg: Rip.Veg:	Star Star	_			Ins	tream	Veg: None	Algae [	Moss	. 🗌 Va	scular 🗌
								<del></del>				
drains subalpi	ne# 25, CD# 3, Im ine meadow, some No fish habitat	age#221, Direction: le short channelized s	Upstrea ections	am, Sca	ale/Com steepe	nment:c	am b	ag ent, otherwise s	eepage	throug	hout. s	site =

#### BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

1.0 93L\_070

ILP# 70737

	SIR	EAM			&******	•					
Gazetted Name:				ı	Local N	ame:	:				
Watershed Code: 000-000000-0000	0-00000-0000-0000-00	0-000-00	00-000-0	000-000		11	P Map #: 93L.070		ILP	#:	70737
		ŗ	EAC	Н							
Reach #: 1.0	UTM(Zone/East/No	orth): 9.6	85655.0	6057174			S	ample	Туре:	Biase	d
Length (km): .44	Coupling:	•		nitude:				BGC 2	one:		
Gradient (%): 6.1 Co	onfinement: Unconfine	d		Order:	1		O	pen wat	er:		
US Elev (m): 1445	islands:		Rip	arian Ve	getatio	n:					
Bars: None 🗌 Side 🔲 Diagona	i Mid-channel	Span	☐ Br	aid 🗌	Land	use:					
			SIT	Ē.							
Site #: 129 Field	UTM 9.686032.60572	280			ncy: C0			/SR	Date:	2002/0	7/30
Site Length (m): 100 GI	S UTM 10.298765.6057	906		Age	ncy Nar	ne:F	iNS Consulting Ltd	-			
		C	HAN	NEL							
No Vis.Ch.: ✓ Intermittent:		Avg	Min	Max	#			Avg	Min	Max	#
Dewatered: Tribs.:	Channel Width (m):	0.00	0	0	0		Gradient %:	0.00	0	0	0
age: Low	Wetted Width (m):	0.00	0	0	0	1	Pool Depth (m):	0.00	0	0	0
Med	Bankfull Depth (m):	0.00	0	0	0	!	Turb	idity.:	Turbid		Low
High Temp (C):	pH:		(	Conducti	vity:			M	oderate	∐ .	Clear
		M O F	PHC	LOC	Y						
Bed Material: Dominant:	D95 (cm):			Bars: N	on 🗌	Sic	de 🔲 Diagonal [	Mid	-channe	_	Span
Subdominant	D (cm):										3raid
Channel Pattern:	Islands:			RBANC		E	31 B2 B3	D1	D2 [	03	
Coupling:				CATORS	Ц.	Ш		44	للبل	<u> </u>	
Confinement			C1	C2	C3 (	<u> </u>	C5 S1 S2	S3	\$4 	S5	
Morphology:				_ L L I	لللا	لل			1 [1	للا	
			COY	ER						-	
	Type:	SWD	LW	D	В	υ	DP (	OV	IV	1	
Total Cover:											
Total Cover: LWD:	Amount:					-1			л. н	1	_
						1				F	sz: 🗌
LWD:	Amount: Location: P/S/O:	ravel	Cobble	Boi	ulder 🗌	Ros	ck Manmade		c	F:	
LWD: LWD Dist:	Amount: Location: P/S/O: Texture: Fines  G	ravel	Cobble		ulder	Roc	= =		c	_	-
LWD: LWD Dist: Right Bank: Shape: Left Bank: Shape: Right Bank: Rip.Veg:	Amount: Location: P/S/O: Texture: Fines G Texture: Fines G Sta	ravel 🗍 ge:			ulder	Ro	ck Manmade	Ĵ		rown C	osure
LWD: LWD Dist: Right Bank: Shape: Left Bank: Shape:	Amount: Location: P/S/O: Texture: Fines Gr Texture: Fines Gr	ravel 🗍 ge:			ulder	Ro	= =	Ĵ		rown C	osure
LWD: LWD Dist: Right Bank: Shape: Left Bank: Shape: Right Bank: Rip.Veg: Left Bank: Rip.Veg:	Amount: Location: P/S/O: Texture: Fines G Sta	ravel [] ge: ge:	Cobble	Bou	ulder Ins	Roo	n Veg: None	Ĵ		rown C	
LWD: LWD Dist: Right Bank: Shape: Left Bank: Shape: Right Bank: Rip.Veg: Left Bank: Rip.Veg:	Amount: Location: P/S/O: Texture: Fines G Sta	ge:	Cobble	Bou	lns	Rooter	n Veg: None	Ĵ		rown C	osure
LWD: LWD Dist: Right Bank: Shape: Left Bank: Shape: Right Bank: Rip.Veg: Left Bank: Rip.Veg:	Amount: Location: P/S/O: Texture: Fines G Sta	ge:	Cobble	Bou	lns	Rooter	n Veg: None	Ĵ		rown C	osure
LWD: LWD Dist: Right Bank: Shape: Left Bank: Shape: Right Bank: Rip.Veg: Left Bank: Rip.Veg:	Amount: Location: P/S/O: Texture: Fines G Sta	ge:	Cobble	Bou	lns	Rooter	n Veg: None	Ĵ		rown C	osure
LWD: LWD Dist: Right Bank: Shape: Left Bank: Shape: Right Bank: Rip.Veg: Left Bank: Rip.Veg:	Amount: Location: P/S/O: Texture: Fines G Sta	ge:	Cobble	Bou	lns	Rooter	n Veg: None	Ĵ		rown C	osure
LWD: LWD Dist: Right Bank: Shape: Left Bank: Shape: Right Bank: Rip.Veg: Left Bank: Rip.Veg:	Amount: Location: P/S/O: Texture: Fines G Sta	ge:	Cobble	Bou	lns	Rooter	n Veg: None	Ĵ		rown C	osure
LWD: LWD Dist: Right Bank: Shape: Left Bank: Shape: Right Bank: Rip.Veg: Left Bank: Rip.Veg:	Amount: Location: P/S/O: Texture: Fines G Sta	ge:	Cobble	Bou	lns	Rooter	n Veg: None	Ĵ		rown C	osure
LWD: LWD Dist: Right Bank: Shape: Left Bank: Shape: Right Bank: Rip.Veg: Left Bank: Rip.Veg:	Amount: Location: P/S/O: Texture: Fines G Sta	ge:	Cobble	Bou	lns	Rooter	n Veg: None	Ĵ		rown C	osure
LWD: LWD Dist: Right Bank: Shape: Left Bank: Shape: Right Bank: Rip.Veg: Left Bank: Rip.Veg:	Amount: Location: P/S/O: Texture: Fines G Sta	ge:	Cobble	Bou	lns	Rooter	n Veg: None	Ĵ		rown C	osure
LWD: LWD Dist: Right Bank: Shape: Left Bank: Shape: Right Bank: Rip.Veg: Left Bank: Rip.Veg:	Amount: Location: P/S/O: Texture: Fines G Sta	ge:	Cobble	Bou	lns	Rooter	n Veg: None	Ĵ		rown C	osure
LWD: LWD Dist: Right Bank: Shape: Left Bank: Shape: Right Bank: Rip.Veg: Left Bank: Rip.Veg:	Amount: Location: P/S/O: Texture: Fines G Sta	ge:	Cobble	Bou	lns	Rooter	n Veg: None	Ĵ		rown C	osure
LWD: LWD Dist: Right Bank: Shape: Left Bank: Shape: Right Bank: Rip.Veg: Left Bank: Rip.Veg:	Amount: Location: P/S/O: Texture: Fines G Sta	ge:	Cobble	Bou	lns	Rooter	n Veg: None	Ĵ		rown C	osure
LWD: LWD Dist: Right Bank: Shape: Left Bank: Shape: Right Bank: Rip.Veg: Left Bank: Rip.Veg:	Amount: Location: P/S/O: Texture: Fines G Sta	ge:	Cobble	Bou	lns	Rooter	n Veg: None	Ĵ		rown C	osure
LWD: LWD Dist: Right Bank: Shape: Left Bank: Shape: Right Bank: Rip.Veg: Left Bank: Rip.Veg:	Amount: Location: P/S/O: Texture: Fines G Sta	ge:	Cobble	Bou	lns	Rooter	n Veg: None	Ĵ		rown C	osure
LWD: LWD Dist: Right Bank: Shape: Left Bank: Shape: Right Bank: Rip.Veg: Left Bank: Rip.Veg:	Amount: Location: P/S/O: Texture: Fines G Sta	ge:	Cobble	Bou	lns	Rooter	n Veg: None	Ĵ		rown C	osure

BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # !LP Map #

ILP#

.0 93L.070

			STR	EAM	REFE	RENC	ING					
Gazetted Name: Local Name:												
Watershed Co	<b>de:</b> 000-0000	00-00000-0000	00-0000-0000-00	00-000-00	0-000-00	0-000	IL	P Map #: 93L.0	70	ILP :	#:	70738
				R	EAC	H						
Reach #: 1.0		UT	M(Zone/East/No	orth): 9.6	86309.60	57374			Sample	Type:	Biase	ed
Length (km):	23	-	oling:		Magn	itude:				Zone:		
Gradient (%):			ment: Occasiona	ally Con		Order: 1			Open wa	iter:		
US Elev (m):			ands: 	, ,	_ `	ian Vegel	ation:					
Bars: None	Side	Diagonal L	Mid-channel	Span			anduse:		~			
					SITE	***************************************						
Site #: 130 Field UTM 9.686119.6057274 Agency: C016 Crew: MJ/SR Date: 2002/07/30												
Site Length (m): 100 GIS UTM 10.298816.6057941 Agency Name: FINS Consulting Ltd.  CHANNEL												
	7	<b>-</b> 7			***************************************		# ]		Aven	Min	Max	# 1
No Vis.Ch.: Dewatered:	_intermitte Trib:	=	annel Width (m):	Avg   0.82	Min 0.600		<u>*</u>	Gradient	Avg %: 4.25	Win 2	Max 6	4
	_		etted Width (m):	0.02			6	Pool Depth (		0.050	0.06	2
Stage: Low	=	<u></u>	nkfuli Depth (m):		0.1		3 1		rbidity.:	Turbid	1	Low
Med High	<b>≓</b>	np (C): 5	pH: 8.5		Cc	nductivity:	:30		-	foderate	j ,	Clear 🔽
				MOR		OGY						
Bed Material:	Dominant: C	Cobble	D95 (cm): 10			ars: Non	<b>√</b> Sid	e Diagona	Mic	l-channel		Span 🗌
										Braid 🗌		
Channel Pat	tem: Sinuous		Islands: No	ne	DISTUR		O1 B	1 B2 B3	D1	D2 D3	<u>.</u>	
	ling: Decouple				INDICA	L					Ц	
i	nent: Unconfin			_		C2 C3	C4	C5 S1 S	S2 S3	S4	S5	
Morpho	logy: RP I	Riffle Pool		-	<b>✓</b>							
					COVE	R						
Total Cover: 1	lone		Type:	SWD	LWD	В	U	DP	OV	IV		
LWD: F	ew	г .	Amount: ocation: P/S/O:	N	N	N	N	N	N	N		
LWD Dist: I	Evenly Distribu	nted [			الللا	<u> </u>	<u> </u>	<u> </u>	<u> </u>		FS	sz: 🗌
Right Bank:	Shape: Sk		re: Fines 🗹 Gr					=	=	Сго	wn Ck	
Left Bank:	Shape: Slo		re: Fines 🗹 Gr			Boulder	Roc	k Manmade			21	-40%
Right Bank: Left Bank:	Rip.Veg: Sh Rip.Veg:	rubs	· · · · · · · · · · · · · · · · · · ·	ge: Not Ap ge: Not Ap			Instream	Veg: None	Aigae [	Moss	<b>7</b> ∨a	scular
	p. 1 og.			g == 1 + 1 + 1 + 1								
	-		-	1	F151	***********	_	I = .	T			
Site Number	Capture Method	Number of Events	Length fished (m)	Tota Time		Voltage Spe		es Total Fish	1	imum th (mm)		ximum jth (mm)
130	EF	1	2	23 se		700	NFC	0				
			3, Direction: U									
Rol# 11, Fran	me# 3, CD# )ther - No fir	3, lmage#22 sh habitat - er	4, Direction: D nall, almost dr	ownstre:	am, Sca	le/Comm	ent:cam	bag Howing char	nnel exrv	sed lad	s R	S and O
habitat	zuiei - NO IIS	ni navitat - Si	iiaii, asiilost Ul	y su call	i, IIU IIIS	isain w	- 01 WHO	<del></del>	o. expt	AUGU, REUI	~ ·	- u U
}												
1												

BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

ILP # 70739

1.0 93L.070

	STRI	AM I	REFEI	REN	CIN	G					
Gazetted Name:				L	ocal N	ame:					
Watershed Code: 000-000000-0	000-0000-0000-0000-000	<b>3-000-0</b> 0	000-000	-000		ILP	Map #: 93L0	70	ILI	P#:	70739
		F	EACH								
Reach #: 1.0	UTM(Zone/East/Nor	rth\• 9 6	85676 605	7389	**********	*********		Sample	Type:	Biase	ad
Length (km); .36	Coupling:	i ui y. 5.0	Magnit					-	Zone:	D.a.c.	-
Gradient (%): 7.8	Confinement: Frequently	Confin	-	rder:	1			Open wa	iter:		
US Elev (m): 1450	Islands:		Riparia	an Ve	getatio	n:					
Bars: None Side Diag	onal 🔲 Mid-channel 🗌	Span	☐ Braid		Land	use:					
			SITE								
Site #: 131 F	eld UTM 9.686014.605741	13		Agen	cy: C0	16	Crew:	MJ/SR	Date:	2002/0	7/30
Site Length (m): 100	GIS UTM 10.298735.60580	057		Ager	ncy Nan	ne: FINS	S Consulting	Ltd.			
		C	HANN	E L							
No Vis.Ch.: Intermittent:		Avg	Min N	/lax	#			Avg	Min	Max	#
Dewatered: Tribs.:	Channel Width (m):	0.00		0	0		Gradient		0	0	0
Stage: Low	Wetted Width (m):	0.00	0	0	0	L	Pool Depth (r	n): 0.00	0		
Med	Bankfull Depth (m):	0.00				ļ.	Ti	irbidity.:	Turbid	=	Low
High Temp (C	): pH:		Con	ductiv	rity:			N	loderate		Clear
		MOR	PHOL	O G	Y						
Bed Material: Dominant:	D95 (cm):		Ba	rs: No	n 🗌	Side	Diagona	I Mic	t-channe		Span 📙
Subdominant:	D (cm):									E	Braid
Channel Pattern:	islands:		DISTURB		01	<u>B1</u>	B2 B3	D1	D2	D3	
Coupling:			C1 C		33 C	4 C	5 S1 S	32 S3		∟⊥. Տ5	
Confinement:  Morphology:		-		7 1 1	~ ·	717		<del>2</del> 33	T 🗀		
p.icogy.		-		11							
			OVE				1 1				
Total Cover:	Type: Amount:	SWD	LWD	-	B	υ	DP	ov	IV	-	
LWD:	Location: P/S/O:	1(1)(1)	1	1 1	111	u u			I II	1	· []
LWD Dist:						<u> </u>	<u> </u>		<u> </u>		sz: 📋
Right Bank: Shape:	=	=	Cobble		der	Rock [	Manmade	$\equiv$	С	rown Ch	osure
Left Bank: Shape: Right Bank: Rip.Veg:	Texture: Fines Gra		Cobble	Boul	cer	Rock	Manmade	·L]			
Left Bank: Rip.Veg:	Stage				Inst	tream V	eg: None	Algae	Moss	i ∐ Va	scular 🗌
		<del></del>									
Roll# 11, Frame# 4, CD# 3, In											
site = UTM. discontinuous cha		p (22%	) drop to	pare	nt strea	am, ina	ccessible a	nyway, r	io fluviu	ım, not	а
stream. Other - No fish habita											
1											
<b>\</b>											

BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

ILP#

1.0 93L.070

					STR	EAM	REF	ERE	ICIN	G						
Gazetted Na	me:								Local N	ame:						
Watershed C	ode: 00	000000	-00000-	00000-00000	-0000-00	0-000-0	00-000	000-000		ILP	Map #: 93L	.070		ILP	#: 1	70740
REACH																
Reach #: 1	.0			UTM(Zon	/East/N	orth): 9.0	585849	.6057657	,	•		San	nple 1	Гуре:	Biase	ed be
Length (km)	: .19		(	Coupling:			Mag	gnitude:					SGC Z			
Gradient (%)			Conf	inement: L	Inconfine	d		Order:				Opei	n wat	er:		
US Elev (m)		_		Islands:	. —	٦.		oarian Ve	-							ĺ
Bars: None	∐ Sid	de ∐ Di	agonal	Mid-ch	annel _	J Span		raid 📙	Land	use:						
							511		00	A.D.	Canada	MJ/SF	······	Date	2002/0	7/30
Site # Site Length		ю		TM 9.6859 JTM 10.298				-	ncy: C0 ncy Nar		Crew: S Consulting		•	Date.	2002)0	1130
						C	HAN	NEL								
No Vis.Ch.:	<b>☑</b> Ir	termittent:				Avg	Min	Max	#	l _			٩vg	Min	Max	#
Dewatered:		Tribs.:		Channel V		<del></del>	0	0	0	1 F	Gradien		0.00	0	0	0
Stage: Low				Wetted Width (m): Bankfull Depth (m):			0	0	0 0		Pool Depth	V /1	0.00	0	0	$ldsymbol{\square}$
Med	=	_	L			0.00		1	1	3	7	Furbidit	-	Turbid   oderate	_	Low
High		Temp	(C)		pH:			Conduct						-30/G(8)		
Bed Materia		-in-o		D.C.E	(cm):	15 (7)	. Total	OLOC Bars: N		Side	☐ Diagor	al 🗀	Mid	channe	. 🗀 ,	Span 🗌
Bed Materia	u: Dor Subdor				(cm):			Dais. N	<b></b>	ONG	Diagoi				_	Braid
Channel P					lands:		DIST	JRBANC	E 01	В1	B2 B	3 D	1	D2 [	03_	
	upling:							CATORS				] [	$\prod$		l l	
Confin	ement:						C1	C2	C3 (	C4 (	C5 S1	S2	S3	S4	S5	
Morp	nology:															
							COV	E R								
Total Cover	:				Type:	SWD	LW	/D	В	U	DP	ΟV		ΙV	]	
LWD	:				Amount:		1_			u			-	1/ 1/		
LWD Dist	:			Location	n: P/S/O:			ـــالــالــ	<u>البال</u>		<u> </u>		Щ			SZ:
Right Bank	:: SI	hape:	-	Fexture: Fin	= -	iravel	Cobbl	=	older 🗌	Rock		=		С	rown Ci	osure
Left Bani		hape:	•	Texture: Fin	🗀	iravel	Cobbl	e Bo	ulder	Rock	Manma	de 💹				
Right Bani Left Bani		.Veg: .Veg:				ige:			Ins	tream '	Veg: None	☐ Ak	gae [	Moss	☐ Va	iscular [
Len Da	·	. vog.				· · · · · · · · · · · · · · · · · · ·		FEAV								
NID Map	NID	Туре	Hgt	Method	Lg	Me	thod		noto	- T	UTM (Z/E	JN)	<u> </u>	Method	1	
093L.070	3132		1.8.	AL	50			ર	F:		9.686001.60		工	GIS	ユ	
Commen	s: usal	ole habitat	from mo	uth for 50m	)											
Rol# 11, F	rame#	5, CD# 3	, Image	#226, Din	ection: \	Jpstrear	m, Sca	le/Com	ment:do	og - UTD	4 Other s	Iminas		ooosibl	o and	usable
seepage, d	rains s m fron	ubalpine n mouth t	meado han NC	w, with dis D from U	icontinu FM	ous cna	ınneı, ı	10 nuviu	m. site	- 011	n. Ourei - C	JI atti larg	j <del>e</del> ac	Cessivi	e and	usabio
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BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

ILP#

1.0 93L.070

STREAM REFERENCING **Gazetted Name:** Local Name: 70741 ILP Map #: 93L.070 ILP #: REACH UTM(Zone/East/North): 9.686080.6057714 Sample Type: Reach #: 1.0 Length (km): .11 Coupling: **BGC Zone:** Confinement: Unconfined Order: 1 Open water: Gradient (%): 6.4 Riparian Vegetation: US Elev (m): 1440 Islands: Bars: None Side Diagonal Mid-channel Span Braid Landuse: SITE Agency: C016 Date: 2002/07/30 Field UTM 9.686028.6057695 Crew: MJ/SR Site #: 133 Agency Name: FiNS Consulting Ltd. GIS UTM 10.298769.6058358 Site Length (m): 100 CHANNEL Min Max Avg Min Max Avg No Vis.Ch.: 🗸 # Intermittent: Tribs.: Channel Width (m): 0.00 0 0 0 Gradient %: 0.00 0 0 Dewatered: Pool Depth (m): 0.00 0 0 Wetted Width (m): 0.00 0 0 0 Low Bankfuli Depth (m): 0 Low Turbid Turbidity.: Med pH: Moderate Clear Conductivity: High 🗌 Temp (C): MORPHOLOGY Bars: Non 🗌 Side Diagonal Mid-channel Span 📋 Bed Material: Dominant: D95 (cm): Braid Subdominant: D (cm): Channel Pattern: Islands: DISTURBANCE INDICATORS Coupling: C4 C5 **\$**1 S3 C3 Confinement: Morphology: COVER SWD LWD īV Total Cover: Туре: Amount: LWD: Location: P/S/O: FSZ: 🔲 LWD Dist: Texture: Fines Gravel Cobble Boulder Rock Manmade Crown Closure Right Bank: Shape: Texture: Fines Gravel Cobble Boulder Rock Manmade Left Bank: Shape: Stage: Right Bank: Rip.Veg: Instream Veg: None Algae Moss Vascular Left Bank: Rip.Veg: Stage: Roll# 11, Frame# 6, CD# 3, Image#227, Direction: Upstream, Scale/Comment:mi site = UTM, just squishy meadow. Other - No fish habitat

#### BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

11 P#

20

93L.070

			STR	EAM	REF	EREN	ICIN	G					
Gazetted Name: Local Name:													
Watershed Co	de: 000-0000	00-00000-000	00-0000-0000-0	9 <del>0-000-0</del> 0	0-000-	000-000		ILP I	<b>fap #:</b> 93L.	070	ILF	#:	70742
				R	E/A(	2.11							
Reach #: 2.0 Length (km): Gradient (%): US Elev (m): Bars: None	.33 8.2 1489	Cou Confine Isi	M(Zone/East/N pling: ment: Occasion lands: Mid-channel	ally Con	Mag Rip	gnitude: Order: Parian Ve	2			Sample BGC Open wa	Zone:	Bias	ed
Site #	Site #: 134 Field UTM 9.686306.6058100 Agency: C016 Crew: MJ/SR Date: 2002/07/30												
Site Length (m): 150 GIS UTM 10.299085.6058714 Agency Name: FINS Consulting Ltd.													
CHANNEL  No Vis.Ch.: Intermittent:   Avg Min Max # Avg Min Max #													
No Vis.Ch.: Dewatered: Stage: Low	annel Width (m): etted Width (m): inkfull Depth (m):		0.9 0 0.1	1.3 0.200 0,1	# 6 6 3		Gradient Pool Depth	Min 4 0	Max 5	3 3			
Med High	_  │ Ter	np (C): 5	pH: 8.4	11	(	Conductiv	rity: 30	3	1	urbidity.: N	Turbid   loderate	=	Low
	_			MOR		LOG						_	
Bed Material: Dominant: Cobble D95 (cm): 10.00 Bars: Non V Side Diagonal Mid-channel Span Dubdominant: Gravels D (cm): 2.00 Braid Channel Pattern: Sinuous Islands: None DISTURBANCE O1 B1 B2 B3 D1 D2 D3 INDICATORS													
1	nent: Occasio logy: RP	nally Confine Riffle Pool		-	C1	C2 (	C3 (	C4 C5	S1	S2 S3	\$4 	S5	
				(	: O V	ER							
Total Cover: I LWD: I LWD Dist: I	lone	, [	Type: Amount: ocation: P/S/O:	SWD	LWI N		B V	U N	DP N	OV N	iV N	F	sz: 🗌
Right Bank: Left Bank: Right Bank: Left Bank:	Right Bank: Shape: Sloping (g Texture: Fines  Gravel Cobble  Boulder Rock Manmade Crown Closure  Left Bank: Shape: Sloping (g Texture: Fines  Gravel Cobble  Boulder Rock Manmade 41-70%  Right Bank: Rip. Veg: Shrubs Stage: Not Applicable												
					FIS							******	
Site Number	Capture Method	Number of Events	Length fished (m)	Tota Time	ı	Voltage	, s	ipecies	Total Fish		mum h (mm)		ximum gth (mm)
134	EF	1	150	48 se	С	700		NFC	0				
Roll# 11, Fransite = UTM. fl	me# 8, CD# ows through	3, Image#22 shrubby cor	8, Direction: U 9, Direction: D ridor. usable h then watered,	ownstrea abitat in	am, So Rol/s	æle/Cor (R 1.1 -	nment (S4)).	:MJ Other -					mittent

BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

11 D#

1.0 93L.070

					STR	EAM	REF	ERE	4CIN	G						
Gazetted Name:									Local N	ame:	•		·			
Watershed Code	: 000-000000	-00000	-0000	0-0000-0	000-00	90-000-00	00-000-0	000-000		IL	P Map #: 9	3L.070	•	<b>ILI</b>	P #:	70743
						F	(EAC	H								
Reach #: 1.0			UT	M(Zone/E	ast/N	orth): 9.6	86283.	6057972	2			5	Sample	Туре:	Bias	ed
Length (km): .12	<u>:</u>		Coup	_			Mag	nitude:					BGC			
Gradient (%): 9.2		Co		nent: Oci ends:	casion	aily Con	p:-	Order:				0	pen wa	ter:		
US Elev (m): 144 Bars: None		agonal		mus: Mid-chan		Coop		aid	getatio: Land							
Bars: None	SRE U	agonai	<u></u>	Mid-Cran	nea _	_ Span	SIT		Lano	use.						
Site #: 135		Eigld I	1778.8	9.686179	E059	122	****		ncy: C0	16	Crev	e Mai	/SR	Date	2002/0	17/30
Site Length (m)				10.29896				-	-		NS Consu			Date.	200270	,,,,,,
						C	HAN									
No Vis.Ch.:	Intermittent					Avg	Min	Max	#				Avg	Min	Max	#
Dewatered:	Tribs.:		Cha	nnel Wid	th (m):	0.00	0	0	0	[	Grad	lient %:	0.00	0	0	0
Stage: Low		L		etted Wid		0.00	0	0	0		Pool De	oth (m):	0.00	0	0	0
Med		L	Bar	nkfull Dep		0.00	0	0	0	i		Turb	idity.:	Turbid		Low
High 🔝	Temp	(C):		рH	:			Conducti		**********			M	oderate		Clear
						## <b>!</b>	PHC					. г	¬		. 🗆	
Bed Material: [	Dominant: dominant:			D95 (c D (c	-			Bars: N	on 📋	Sid	e 💹 Dia	gonal [	Mid	-channe	_	Span 📙 Braid 🗍
Channel Patter				Islar	-		ונדפוח	RBANC	E 01	В	1 B2	R3	D1	D2 F	13	
Couplin				15101	ius.			ATORS		ΤĔ		$\tilde{\Box}$				
Confinemer	nt:						C1	C2	<b>C3</b> (	<b>.</b> 4	C5 S1	S2	S3	S4	S5	
Morpholog	ià:															
							COV	- <b>R</b>								
Total Cover:					Туре:	SWD	LWI	2	В	IJ	DP	1	OV	IV	]	
LWD:			لِــا	An ocation: I	ount.	1 1 3								71-71	1	
LWD Dist:			L	ocauon. r	-1310.	للا				1 1	<u>الالال</u>	<u> </u>	<u> </u>	<u> </u>	F	SZ:
Right Bank:	Shape:			re: Fines	_	=	Cobble	=	ilder 🔙	Roc	=	made_	]	C	rown C	losure
Left Bank: Right Bank: f	Shape: Rip.Veg:		Textu	re: Fines	∐ G Sta	ravei	Cobble	∏ Bor	ılder	Roc	K 🔛 Maani	made _	_1			
i -	Rip.Veg:				Sta	_			Ins	tream	Veg: No	ne 🗌	Algae [	] Moss	□ Va	scular
							· ·	EAT	URE	S						
NID Map N	ID Type	Hgt	N	lethod	Lg	Meth	nod	Pt	oto	Τ	UTM (			Method	I	
	351 BMA			AL.		GE	R		F:		9.686182	.60580	39	GIS	Ц	
Comments: no	o drainage pr	esent														
no any kind of d	trainana pre	eent s	t mai	nned loc	ation	or 100m	vicinit	v site =	: LITM							
lio any kiiki oi c	namage pre	scill a	it maj	pped loc	auon	01 100111	• • • • • • • • • • • • • • • • • • •	y. Site	01111							
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#### BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

ILP#

1.0 93L.070

STREAM REFERENCING Gazetted Name: Local Name: ILP Map #: 93L.070 70746 REACH Reach #: 1.0 UTM(Zone/East/North): 9.685708.6056085 Sample Type: Biased Length (km): .35 Coupling: Magnitude: **BGC Zone:** Gradient (%): 5.7 Confinement: Frequently Confin Order: 2 Open water: US Elev (m): 1390 Riparian Vegetation: Bars: None Side Diagonal Mid-channel Span Braid Landuse: SITE Site #: 136 Field UTM 9.685909.6056232 Crew: SR/MJ Date: 2002/07/31 Agency: C016 Site Length (m): 100 GIS UTM 10.298543.6056888 Agency Name: FINS Consulting Ltd. CHANNEL No Vis.Ch.: Min Max Min intermittent: Max # Avg Avg Dewatered: Tribs.: Channel Width (m): 1.67 1.4 1.9 6 Gradient % 6.50 5 4 8 Wetted Width (m): 1.50 1.9 6 Pool Depth (m): 0.31 0.270 0.360 3 Low 🗸 Bankfull Depth (m): 0.33 0.3 0.4 LOW Med Turbid Turbidity.: Moderate Clear 🗸 High 🗌 Temp (C): 7 pH: 8.6 Conductivity: 40 MORPHOLOGY Side Diagonal Mid-channel Bars: Non 🗹 Bed Material: Dominant: Cobble D95 (cm): 40.00 Span D (cm): 6.00 Braid Subdominant: Boulders Channel Pattern: Sinuous Islands: None DISTURBANCE INDICATORS Coupling: Partially Coupled C4 C5 S1 S2 S3 S4 Confinement: Frequently Confined C3 Morphology: CP Cascade Pool COVER Total Cover: Abundant SWD LWD īV Type: S ח N Amount N N S LWD: None Location: P/S/O: FSZ: 🔲 LWD Dist: Not Applicable Texture: Fines 

Gravel Cobble Boulder Rock Manmade Manmade 

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Gravel Cobble Boulder 

Rock Manmade 

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Manmade Shape: V - shape 1-20% Right Bank: Rip.Veg: Shrubs Stage: Not Applicable Instream Veg: None ☐ Algae ☐ Moss ✔ Vascular ☐ Rip.Veg: Left Bank: Stage: Not Applicable FISH Total Total Minimum Maximum Site Number Length fished Voltage Capture Number of Species Fish Length (mm) Length (mm) Method Events Time (m) 204 sec 57 146 EF 100 700 Roll# 11, Frame# 16, CD# 3, Image#237, Direction: Upstream, Scale/Comment:cam bag Roll# 11, Frame# 17, CD# 3, Image#238, Direction: Downstream, Scale/Commentcam bag site = UTM = ~80m u/s from mouth, reach is fairly strait, confined section draining meadow reach 2, moderately steep and v. shrubby gully. Spawning Habitat - poor/fair - substrate too large, no gravels present - small uniform gravels in low gradient sections. Overwintering Habitat - good - likely permanent flow/deep pools. Rearing Habitat - good - exc. - abundant step/cascade pools covered by overstream vegetation, boulders, some cutbanks

#### BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

ILP#

2.0 93L070

			SIR	EAM	: X = 3 X	ERENC	ING				
Gazetted Nam	ie:					Lo	cal Name:				
Watershed Co	xde: 000-0000	00-00000-0000	00-0000-0000-00	00-000-00	0-000-	-000-000	ILP M	<b>iap #:</b> 93∟07	0	ILP	t: 70746
				Ŗ	EA.	CH					
Reach #: 2.0	)	UT	M(Zone/East/N	orth): 9.6	85093	.6055665			Sample Ty	/pe:	Biased
Length (km):		-	oling:		Mag	gnitude:			BGC Zo		
Gradient (%):			nent: Unconfine	d		Order: 2		•	Open water	r:	
US Elev (m):			ands:	n	-	arian Vege					
Bars: None	_ Side	Diagonal 🔲	Mid-channel	J Span [			anduse:				
					SIT	***********					
Site #: Site Length (			9.685085.60557 10.297680.6056			Agency Agency	: C016 Name: FINS			Date: 2	062/07/31
				C)	HAN	NEL					
No Vis.Ch.:	Intermitte	=		Avg	Min		#				Max #
Dewatered:	Tribs		annel Width (m):	1.58	1.4			Gradient %		0.5	0.5 2
Stage: Low	]		etted Width (m): nkfull Depth (m):	1.58 0.60	0.4	0.8	6 P	ool Depth (m)	<del></del>		0.71 5
Med High	=	np (C): 7	pH: 8.6	0.00		Conductivity		Turt		urbid terate	Low Clear ✔
				MOR	P.H.(	DLOGY					
Bed Material:	Dominant: G	iravels	D95 (cm): 12	2.00		Bars: Non	✓ Side [	Diagonal	Mid-cl	hanne! (	☐ Span ☐
s	ubdominant: F	īnes	D (cm): 2	.00							Braid
Channel Pat	tem: Irregular	Meanders	Islands: Oc	casiona		RBANCE CATORS	01 B1	B2 B3	D1 D	2 D3	<b>a</b>
1	ling: Decouple					L		1111		111	∐ >E
1	nent: Unconfin logy: RP I	ea Riffle Pool		-	C1	C2 C3	C4 C5	S1 S2	: <b>S3</b>	S4 :	S5 
Могрис	ogy. ru	(IIIIO   GO.		-	الل	ليا اليا			1111		
					OV						
Total Cover: /	Abundant		Type: Amount:	SWD	LW		U T	DP D	ov s	T	
LWD: I		, i	ocation: P/S/O:								FSZ:
1	Not Applicable	•	ıre: Fines 🗸 Gı		<u> </u>	Boulde		Manmade	<del></del>		wn Closure
Right Bank:	Shape: Un Shape: V -		ire: Fines 👿 Gi ire: Fines 😿 Gi				= =	Manmade Manmade	_	Clo	1-20%
Right Bank:	Rip.Veg: Sh			ge: Not Ap					_,		
Left Bank:	Rip.Veg:		Star	ge: Not Ap	plicab	le	Instream Ve	g: None 🗌	Algae 🗹	Moss	] Vascular ▼
					FIS	311					
Site Number	Capture	Number of	Length fished	Tota	**********	Voltage	Species	Total	Minimu	um	Maximum
	Method	Events	(m)	Time				Fish	Length (		Length (mm)
137	EF	1	400	487 s	ec	700	СТ	1	162		162
Roll# 11, Fra site in upper abundant ver	me# 22, CD/ reach, but w y deep secti	# 3, Image#2 alked and sho ons (0.8-1.0	42, Direction: 43, Direction: 43, Direction: 60 coked entire, con). Spawning han sections, ex	Downstro only 1 C1 labitat -	eam, s caug mod -	Scale/Com ht!. Overw frequent o	mentcam be intering Hab gravels suital	itat - good-e ble at pool o	rests.Re		

BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

ILP#

3.0 93L.070

		STR	EAM	REFE	RE	ICIN	G						
Gazetted Name	2:					Local N	lame:						
Watershed Cod	te: 000-000000-0000	0-00000-0000-0000-0	00-000-00	00-000-00	00-000		ILF	Map #: 93L	.070		ILF	<b>数</b>	70746
			,	REAC	H								
Reach #: 3.0		UTM(Zone/East/N	orth): 9.6	584477.6	055440	)			S	ample `	Type:	Biase	d
Length (km): .5	51	Coupling:		Magn	itude:					BGC 2	Zone:		
Gradient (%): 8.		onfinement: Occasion	ally Con		Order:				Op	en wat	ter:		
US Elev (m): 14		Islands:	Span	_ `	_	getatio Land							
Bars: None	Side Diagona	II [ MID-channel [_		SITE		Lano	use:			*******			
0:4- H- 40	10 F.U	LITTAL O COADOD EDEE	enn		**********	····· C0	46	Crour	SR/	N 8 1	Date	2002/07	7/31
Site #: 13 Site Length (m		UTM 9.684980.6055 S UTM 10.297551.605			-	ncy: C0 ncv Nar		Crew: IS Consulting			Dale.	2002101	,,,,,
	· · · · · · · · · · · · · · · · · · ·			HANN					•				
No Vis.Ch.: ✔	Intermittent:		Avg	Min	Max	#	1	***************************************	ſ	Avg	Min	Max	#
Dewatered:	Tribs.:	Channel Width (m):	+	0	0	0	1 [	Gradier	1t %:	0.00	0	0	0
Stage: Low	]	Wetted Width (m):		0	0	0	] [	Pool Depth	(m):	0.00	0	0	0
Med	ļ	Bankfull Depth (m)	0.00	0	0	0	1		Turble	-	Turbid	_	Low
High [	Temp (C):	pH:			onducti	-	**********			M	oderate	(	Clear
			MOR	RPHO						7			
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Channel Patte Coupli		islanos:		INDICA			B1		3				
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Morpholo	pgy:		,										
				COVE									
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LWD:		Amount: Location: P/S/O:					н я						_
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Right Bank:	Shape:	=	=	Cobble	=	ider	Rock Rock	Manma Manma	=	] 1	C	rown Ck	sure
Left Bank: Right Bank:	Shape: Rip.Veg:		ravei[] ge:	Cobble		idei []	ROCK	wanna	ge[]	J			
Left Bank:	Rip.Veg:		ge:			Ins	tream '	Veg: None		Vgae [	Moss	☐ Vas	scular [
Roll# 11, Fram	ne# 24, CD# 3, 1ma	age#245, Direction:	Upstrea	m, Scale	e/Com	ment:S	SR	_					
"channel" is m	arginally accessible	le to site UTM (= R. Ily dry; no continuity	2.1), onl	ly 1 CT i hahitat a	in reac	th belo v: whe	w (R.2 n appe	2), at site, c earing, cha	:hann nnei	iel disp is cobl	oerses bles/fin	in Willo\ es. Ord:	w jałi, anics.
dry and moss	covered. site = UT	M. Other - none	, 110 01	nabitat t	yu	y, <b>11</b> 110.	п орр	Januay, Gran		.0 0002		, 3	
1													

#### BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

ILP# 70747

1.0 93L.070

			STR	EAM	REF	ERE!	ICIN	G					
Gazetted Nar	ne:					1	Local N	ame:					
Watershed Co	ode: 000-0000	00-00000-000	00-0000-0000-00	0-000-0	00-000-	000-000		iLP	Map #: 93L.07	D	ILP	<b>#</b> :	70747
					REA(	214			<u>·</u>				
										_	_	<u> </u>	
Reach #: 1. Length (km):			'M(Zone/East/No pling:	orth): 9.6		6055881 Initude:				Sample : BGC 2	• .	Biase	ed
Gradient (%):			pang: ment: Unconfine	d	maç	Order:	1			pen wal			ł
US Elev (m):			ands:	•	Rip	arian Ve		n:	`	shell ma	ier.		
Bars: None		Diagonal 🗌	Mid-channel	Span	_ `	raid 🗌	Land						
				, opa	SIT							******	
0.1.1	400				*****								
Site #: Site Length			9.685364.60558 110. <b>297</b> 95 <b>3.</b> 6056			•	icy: C0		Crew: Si S Consulting Lt	R/MJ a	Date: 3	2002/0	1/31
One Longer	(11): 100	GISTON	110.237 000.0000		******		iky ivan		3 CONSUMING L	···	**********		
3.77	¬	. 🗆			HAN							••••	
No Vis.Ch.: Dewatered:	Intermitte	=	annol Midth (m)	Avg 0.37	Min 0.300	Max 0.5	#		Gradient %	Avg	Min	Max	1 # 1
	_		ennel Width (m): etted Width (m):	0.37	0.300	0.400	6	-	Pool Depth (m)		0.5 0.06	2 0.21	3 4
Stage: Low	<b>⊈</b>		nkfull Depth (m):	0.23	0.2	0.3	3	_		·	<u></u>	7	
Med High		np (C): 6	pH: 8.6			Conductiv	rity: 30	1	i un	oldity.: Ma	Turbid _ oderate	╡.	Low Clear
		<del></del>	pr. 0.0			LOG	_	********		**********			Ologi (g)
Dad Makada	. D/		DOT () 0					a:. I		······································		······································	
	: Dominant: F Subdominant: P		D95 (cm): 0. D (cm): 0.			Bars: No	on 💌	Side	Diagonal	Mid-	-channei		Span 🔝 Braid 🔲
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l	ttem: Irregular pling: Decoupl		Islands: No	ne		RBANCE CATORS	<u>- 01</u>	<u>B1</u>	B2 B3	<u>D1</u>	D2 D:	<u>3</u> ┐	
	ment: Unconfir				C1		C3 C	4 C	5 S1 S2	S3	S4	11 S5	
		Large Channel			<u> </u>			7 7		11 🗀		$\frac{\infty}{\Box}$	
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					COA								
Total Cover:	Trace		Type:	SWD	LWI		В	U		ov	īV		
LWD:	None	<u> </u>	Amount: ocation: P/S/O: [	N	N		N .	S	T	D	T		_
LWD Dist:	Not Applicable	, L				الــالــالـــــــــــــــــــــــــــــ						FS	iZ:
Right Bank:	Shape: Ur		ıre: Fines 🗹 Gr		Cobble	=	der	Rock	Manmade [	]	Cro	wn Cl	osure
Left Bank:	Shape: V		ıre: Fines 🗹 Gr		Cobble	_	der	Rock	Manmade			1-2	20%
Right Bank:	Rip.Veg: Gr	ass	-	e: Not A							٦ ١	$\neg$	
Left Bank:	Rip.Veg:		Stag	je: Not A	ррікаві	0	inst	ream v	eg: None 🗌	Algae L	_ Moss (	va:	scular 🗹
					FIS	Ħ							
Site Number	Capture	Number of	Length fished	Tot	al	Voltage	S	pecies	Total	Minin	num	Max	cimum
	Method	Events	(m)	Tim	ie				Fish	Length	ı (mm)	Leng	th (mm)
139	EF	1	100	188 s	sec	700		NFC	0	L			
D-144 64 E	# 40 00		no D: :										
			39, Direction: U 40, Direction: D							w, shalk	ow orga	nic chi	annel
			lid red, as FPC						•	ntering h	labitat -	coupl	e deep
t.		•	Rearing Habita	•		ow grad	lient, ad	cessit	ole and chann	elized r	neadow	reach	ı, but
tiny, shallow	with low fish	enes values.	Spawning Hab	itat - no	ne								
1													
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BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

ILP#

2.0 93L.070

				STR	EAM	REF	ERE!	ICIN	G						
Gazetted Name	e:							Local N	lame	:					
Watershed Cod	te: 000-00	0000-0000	0-000	<b>00-0000-0000-</b> 00	0-000-0	00-000-	000-000		il	L <b>P Map #:</b> 93	L.070		IL.	P#:	70747
						REA(	239								
Reach #: 2.0				M(Zone/East/No	orth): 9.			3			S	ample		Bia	ed
Length (km): .2		_		pling:		Mag	nitude:				_	BGC 2			
Gradient (%): 8		Cc		ment: Confined		Di-	Order:				O	pen wat	ter:		
US Elev (m): 1		٦		ands:	1 .		arian Ve								
Bars: None	Side [	_ Diagona	il [	Mid-channel	Span		raid 📙	Land	luse:				***********		************
						SIT				-	·····				
Site #: 14 Site Length (n				9.685265.60558 10.297859.6056			-	ncy: C( ncv Na		Crew: INS Consultii		/MJ	Date:	2002/	07/31
One Ecrigar (ii	,. 100	<u> </u>		, 10:20:000		HAN						•			
No Vis.Ch.: ✓	Intermi	ttent-	*******		Avg	Min	Max	#	·········· 7			Avg	Min	Max	T #
Dewatered:	5	ribs.:	Ch	annel Width (m):	0.00	0	0	0	1	Gradie	nt %:	0.00	0	0	70
tage: Low	- ··	ا ت		etted Width (m):	0.00	0	0	0	1	Pool Dept		0.00	0	0	0
Med	) ]	,	Ba	nkfull Depth (m):	0.00	0	0	0	1		Turbi	dity.:	Turbid		Low
High _	ו [	Temp (C):		pH:		•	Conducti	vity:					oderate		Clear
					M O	(P.H.C	)(0,0	Y							
Bed Material:	Dominant	t		D95 (cm):			Bars: N	on 🗌	Sic	de 🗌 Diago	nal [	Mid	-channe	_	Span [
Su	bdominant	t		D (cm):											Braid L
Channel Patte				Islands:			RBANC		<u> </u>	31 B2	B3	D1	D2 1	D3	
Coupl	•							L.I		C5 S1	S2	S3	<u> </u>	يا	
Confinem Morphok						C1	C2	C3 +	C4	C5 S1	- S-Z		S4	S5	
Worphox	-83·				***********				الا				ш		
						COV		<u> </u>	····	Lon	1 /	I		7	
Total Cover:				Type: Amount:	SWD	LWI	-	В	u	DP	+-	DV	IV	┨	
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	~.							<u> </u>				<u> </u>		rown C	
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Left Bank:	Rip.Veg:			Stag				Ins	trean	n Veg: None		Algae [	Moss	v	ascular
				241, Direction:											
channel, drain UTM = start o				adow - no cha	nnel/wa	iter pre	sent u/s	s from	site,	no fish habi	tat, p	assage	or pot	tential.	site =
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BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

iLP#

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		STR	EAM	REF	REN	CIN	3					
Gazetted Name:					1	Local Na	me:					
Watershed Code: 0	000-000000-00000	-00000-0000-0000-00	0-000-00	00-000-0	000-000		ILP	Map #: 93L.070		ILF	#: 7	0748
			ı	(E/A(6	; <b>;</b> ;							
Reach #: 1.0		UTM(Zone/East/No	rth): 9.6	84842.0	6055119	)		S	ample '	Туре:	Biased	d
Length (km): .60		Coupling:		Mag	nitude:			_	BGC 2			
Gradient (%): 8.0		nfinement: Occasiona	illy Con	Din	Order: arian Ve			Ot	en wat	er:		
US Elev (m): 1455		Islands:	6	_ `	aid 🗍	•						
Bars: None S	ide Diagonal	Mid-channel	Span			Land	se:					
				SIT		CO		Crew: SR	TNA 1	Date.	2002/07	<i>1</i> 31
Site #: 141 Site Length (m): 1		UTM 9.685091.60555 UTM 10.297642.6056				ncy: C0 ncy Nan		S Consulting Ltd.		Date.	20020.	
Site Length (In).		0114 10:23:012:000		HAN								
N-16- OL - 💆	Intermittent:		Avg	Min	Max	#			Avg	Min	Max	#
No Vis.Ch.: ✓ □  Dewatered: □	Tribs.:	Channel Width (m):	0.00	0	0	0	Г	Gradient %:	0.00	0	0	0
_		Wetted Width (m):	0.00	0	0	0		Pool Depth (m):	0.00	0	0	0
Stage: Low Med	[	Bankfull Depth (m):	0.00	0_	0	0	l	Turbi	dity.:	Turbid	=	Low
High 🗌	Temp (C):	pH:		(	Conducti	ivity:			M	oderate		Clear
			MO	(PH)	98.030	8			_			
Bed Material: Do	ominant:	D95 (cm):			Bars: N	ion 🗌	Side	Diagonal	Mid	-channe		pan 📙
Subdo	ominant	D (cm):										raid [
Channel Pattern		islands:			RBANC		<u>B1</u>	B2 B3	D1	D2	D3	
Coupling: Confinement				C1	C2	ــــــــــــــــــــــــــــــــــــــ	<u> </u>	C5 S1 S2	S3	\$4	\$5	
Morphology												
				COV	ER							
Total Cover:		Type:	SWD	LW	D	В	U	DP (	OV	ΙV	]	
LWD:		Amount:									_	
LWD Dist:		Location: P/S/O:									FS	iz: 🗌
Right Bank:	Shape:	Texture: Fines G	ravel	Cobble	□ Bo	ulder	Rock		]	C	rown Cla	osure
1 -	Shape:		ravel	Cobble	Bo	uider	Rock	Manmade	_			
1	ip.Veg:	Sta Sta	-			Ins	tream '	Veg: None	Algae [	Moss	s 🗌 Va	scular [
Left Bank: Ri	ip.Veg:	J:62	<del></del>									
to here will he R	0.1  site = UTM	age#244, Direction: "channel" is margir ail and loses continu	naily ac	cessible	e to site	) MIU e	v. sna	llow crap) and ential. Other - I	only 1 none	CT inR	2.2 of pa	irent. a

#### BFP FFHI 2002/03 - Pierre/Twain Resampling

Rea

Reach # ILP Map #

ILP#

3.0

93L.070

		STR	EAM	REF	E R E I	I C I N	G					
Gazetted Name:			·	,		Local N	ame:	1	-			
Watershed Code: 000	2-000000-0000	0-00000-0000-0000-00	0-000-0	00-000-0	000-000		Щ	.P Map #: 93L070		ILI	9 #: 7	0750
				REAC	) H							
Reach #: 3.0		UTM(Zone/East/No	orth): 9.6	85022.	6057491		******	5	ample	Type:	Biase	d
Length (km): .29		Coupling:	•		nitude:				BGC			
Gradient (%): 9.3	Co	nfinement: Occasiona	ally Con		Order:			O	pen wa	ler:		
US Elev (m): 1464		Islands:				egetatio						
Bars: None Side	Diagonal	Mid-channel	Span		aid [_]	Land	use:					
				SIT	**********							
Site #: 142 Site Length (m): 150		UTM 9.685196.60572 S UTM 10.297927.6058				ncy: C0 ncy Nar		Crew: MJ NS Consulting Ltd	/SR	Date:	2002/07	/30
			C	HAN	NEL							
No Vis.Ch.: 🗹 Inte	ermittent:		Avg	Min	Max	#	]		Avg	Min	Max	#
Dewatered:	Tribs.:	Channel Width (m):	0.00	0	0	0		Gradient %:	6.00	6	6	1
Stage: Low	}	Wetted Width (m): Bankfull Depth (m):	0.00	0	0	0		Pool Depth (m):	0.00	0	0	
Med High	Temp (C):	pH:	0.00		Conducti		1	Turb	-	Turbid oderate	=	lear 🗌
			MOF	(PHC	) L O C	Y						
Bed Material: Domii Subdomii		D95 (cm): D (cm):			Bars: N	on 🗌	Sid	e Diagonal	] Mid	channe		pan 🗌
Channel Pattern:		Islands:		DISTU	RBANC	E 01	В	1 B2 B3	D1	D2 I	03_	
Coupling:				INDIC	CATORS					ПП		
Confinement:				C1	C2	C3 (	24	C5 S1 S2	S3	S4	S5	
Morphology:												
				COA	E R							
Total Cover:		Туре:	SWD	LWI	2	В	U	DP (	ΟV	IV	]	
LWD:		Amount: Location: P/S/O:		1		7/1	Γ,		7/1	1 1	FS	z: 🗀
		Texture: Fines Gr	avel	Cobble		ider 🗌	Roc	k Manmade	<del></del>		rown Clo	
Right Bank: Sha Left Bank: Sha			avei	Copple		ider		k Manmade	Ξ.	·	IOWIT CIO	3416
Right Bank: Rip.V	•	Stag							•			
Left Bank: Rip.V	eg:	Stag	je:			ins	tream	Veg: None 🔲	Algae [	Moss	☐ Vas	cular 🗌
Roll# 11, Frame# 11 site = UTM =start of channel present, on habitat	reach. creek	from R.4 through o	obble ru	ıbble, n	nostly u	ındergr	ound	l, entire reach ve				

BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

ILP# 70751

2.0 93L.070

			STR	EAMI	REF	EREN	CIN	G					
Gazetted Nam	e:		·			ı	ocal N	ame:					
Watershed Co	de: 000-0000	00-00000-0000	00-0000-0000-00	0-000-00	0-000-0	000-000		ILP M	ap#: 93L.070		ILP	#:	70751
				R	EAC	) H							
Reach #: 2.0		UT	M(Zone/East/No	orth): 9.6	85322.0	6057445			5	ample	Туре:	Biase	ed
Length (km):	15	Cour	oling:		Mag	mitude:				BGC 2	Zone:		
Gradient (%):			ment: Confined			Order:			0	pen wat	ter:		
US Elev (m):	-		ands:	n r	_ `	arian Ve	-						
Bars: None	」Side □	Diagonal	Mid-channel	Span		aid 📗	Land	use:					
				***************************************	SIT	************							
Site #: 1 Site Length (			9.685332.60573 10.298058.6058			•	cy: C0 ncy Nan		Crew: MJ Consulting Ltd	/SR L	Date:	2002/0	7/30
				C	HAN	NEL							
No Vis.Ch.:	Intermitte			Avg	Min	Max	#			Avg	Min	Max	#
Dewatered:	_j Tribs		ennel Width (m): etted Width (m):	0.55	0.300	0.800	6	D,	Gradient %: ol Depth (m):	12.75 0.00	10 0	16 0	1
Stage: Low			nkfull Depth (m):		0.1	0.000	3	🖺		· · · · · · · · · · · · · · · · · · ·		٦	
Med     High [	_] Ter	np (C): 6	pH: 8.4	·					1 010	•	7	<u> </u>	
				MOR	PHC	LOG	Y						
	Med   High   Temp (C): 6       pH: 8.4       Conductivity: 30       Moderate   Clear ✓         MORPHOLOGY         Bed Material: Dominant: Cobble       D95 (cm): 15.00       Bars: Non ✓       Side   Diagonal   Mid-channel   Span												
S	ubdominant: F	ines	D (cm): 0.										Braio
ì	tem: Sinuous		Islands: No	ne		RBANCE		<u>B1</u>	<u>B2 B3</u> □	<u>D1</u>	D2 D	3	
1 .	ling: Coupled nent: Confined	i			C1		لللليا	24 C5	S1 S2	S3	S4	S5	
1		Cascade Pool		-						ΤΟ			
					COV	ER							
Total Cover.	lone		Type:	SWD	LWI		В	U	DP (	OV	ΙV	l	
LWD: F			Amount:	N	N		N	N	N	N	N	1	
1	Evenly Distrib	uted L	ocation: P/S/O:									F	sz: 🗌
Right Bank:	Shape: V -		ıre: Fines 🗹 Gr					Rock 🗌	Manmade	]	Cr	own Cl	osure
Left Bank:	Shape: V -	shape Textu	ıre: Fines 📝 Gr				lder	Rock 🗌	Manmade	]		21	40%
Right Bank:	Rip.Veg: Co	niferous		ge: Matun ge: Matun			ine	tmam Vor	g: None 🗌	Alnae [	Moss	<b>⊘</b> l va	scular [
Left Bank:	Rip.Veg:			ge. Matur			1113	ucan ve	j. 110118	- Iguo [			
					FIS							· ·	
Site Number	Capture Method	Number of Events	Length fished (m)	Tota	- 1	Voltage	S	pecies	Total Fish	Mini: Lengti	mum h (mm)		ximum gth (mm)
143	EF	1	100	18 se	90	700	+	NFC	0				
			· · · · · · · · · · · · · · · · · · ·										
Roll# 11, Fran site = UTM. fl	ne# 10, CD# ows on fores	# 3, Image#23 sted slope wit	0, Direction: Up 31, Direction: I th some subflo tere is flowing;	Downstre w section	eam, S ns. Ot	cale/Co	ımmen	tcambag	g teep, no ins	tream o	over wh	nen wa	atered, a
1													

BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

ILP# 70753

0 93L.070

			STR	EAM	REFI	RE	ICIN	G					
Gazetted Name:							Local N	lame	e:				
Watershed Code:	: 000-000000-0000	0-0000	00-0000-0000-0	00-000-00	0-000-0	000-000		i	LP Map #: 93L.07	)	ILI	P#:	70753
				F	EAC	:#1							
Reach #: 1.0		UΤ	M(Zone/East/N	orth): 9.6	84765.6	056525	 5	*****		Sample	Туре:	Biase	ed
Length (km): .26			oling:	•		nitude:				•	Zone:		
Gradient (%): 1.2			nent: Unconfine	ed		Order:			c	pen wa	ter:		
US Elev (m): 142	_		ands:	-		_	egetatio						
Bars: None	Side Diagona	<u>ا ا</u>	Mid-channel _	Span		aid 🔛	Land	use:			***********		
					SITI	***********							
Site #: 144 Site Length (m):			9.684585.6056 10.297222.605			•	ncy: C0		Crew: SF INS Consulting Ltd:	VMJ 1	Date:	2002/0	7/31
Site Length (in).	100 38	OIW	10.231222.003		HAN		ricy Ivai		1143 CONSULING LE	<i>-</i>			
No Vis.Ch.: ✓	Intermittent:			Avg	Min	Max	#	***** 1		Avg	Min	Max	# 1
Dewatered:	Tribs.;	Cha	annel Width (m):		0	0	0	1	Gradient %		0	0	<del>  "</del>
Stage: Low			etted Width (m):	<del></del>	0	0	0	1	Pool Depth (m)	0.00	0	0	0
Med	[	Baı	nkfull Depth (m)	0.00	0.	0	0	]	Turt	idity.:	Turbid		Low
High 🗌	Temp (C):		pH:		C	onducti	vity:			M	oderate		Clear 🗌
				MOR	PHO	) (O) (C	γ						
Bed Material: D	ominant:		D95 (cm):		1	Bars: N	on 🗌	Six	de 🗌 Diagonal	Mid	-channe	_	Span 🔲
Subd	lominant:		D (cm):									E	Braid
Channel Pattern			Islands:			RBANC		<u>_</u>	B1 B2 B3	D1	D2	D3	
Coupling Confinemen	•				C1			LLL1 24	C5 S1 S2	S3	54	LLL S5	
Morpholog				-	$\overline{\Box}$	ĦΤ		<u> </u>					
				-	COVI	= 1 = 1							
Total Cover:		******	Type:	SWD	LWD		вТ	U	I DP I	ov I	IV	7	
			Amount:	0	1		-			-	<del></del> -	1	
LWD: LWD Dist:			ocation: P/S/O:									FS	sz: 🗌
Right Bank:	Shape:	Textu	re: Fines 🗌 G	ravel	Cobble	Bou	lder	Ro	ck Manmade	]		rown Cl	osure
1	Shape:	Textu	ıre: Fines 🗌 G	ravel	Cobble	☐ Bou	lder	Ro	ck Manmade				
•	Rip.Veg:			ge:						г	٦	Π.,	
Left Bank: R	Rip.Veg:		Sta	ge:			Ins	trear	m Veg: None	Algae L	Moss	∵ Va	scular [_
Roll# 12, Framestream is only a none	# 1, CD# 3, Imag willow shrub con	ge#24	7, Direction: U	pstream el presen	i, Scale	ater, n	nent:ca	m b	ag - shows morp at. site = UTM =	hology ~40m t	? from m	nouth. C	Other -

#### BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

ILP#

1.0 93L.070

		STR	EAM	REF	ERE	NCIN	G					
Gazetted Nam	e:					Local N	lame:					
Watershed Co	de: 000-000000-000	06-00000-0000-0000-00	0-000-00	00-000-	000-000	•	H.	.P Map #: 93L.070		iLi	P#:	70754
			,	REA(	) H							
Reach #: 1.0	)	UTM(Zone/East/N	orth): 9.6	84997.	605638	7		S	ample	Туре:	Biase	ed .
Length (km): .		Coupling:		Mag	mitude:				BGC :			
Gradient (%): ' US Elev (m): '		onfinement: Occasiona Islands:	ally Con	Die	Order: arian V			Oį	en wa	ter:		
Bars: None			Span	_ `	raid	Land						
Dars: None		al	j Span	SIT		Laiki	use.					
Site #: 1	AS Eigh	UTM 9.684688.60563	ee	****		ncy: C0	16	Crew: SR	TNA 1	Date	2002/0	7/31
Site Length (		IS UTM 10.297325.6057			•	•		NS Consulting Ltd.		Date.	20020	1,01
			C	HAN	NEL	-						
No Vis.Ch.:	Intermittent:		Avg	Min	Max	#	1		Avg	Min	Max	# 1
Dewatered:	Tribs.:	Channel Width (m):	0.00	0	0	0	] [	Gradient %:	0.00	0	0	0
Stage: Low		Wetted Width (m):	0.00	0	0	0		Pool Depth (m):	0.00	0	0	
Med		Bankfull Depth (m):	0.00	<u> </u>			3	Turb	-	Turbid	=	Low
High [	Temp (C):	pH:			Conduct				M	oderate	LJ '	Clear
	-		**************************************		) L O C				→		. 🗆 .	
Bed Material:	Dominant: ubdominant:	D95 (cm): D (cm):			Bars: N	on	Side	e 🔝 Diagonal 📗	_] Mild-	-channe	_	Span 🔲 i Sraid 🗍
Channel Pat		Islands:		DISTU	RBANC	E 01	В	1 B2 B3	D1	D2 I	- D3	
Coup		idailes.			CATORS		ΙĨ		$\Box$			
Confinen	nent			C1	C2	C3 (	24	C5 S1 S2	S3	S4	S5	
Morphol	logy:		-									
				COA	ER							
Total Cover:		Type:	SWD	LWI	D	В	U	DP C	v	īV	]	
LWD:		Amount: Location: P/S/O:							7 1	11 11		
LWD Dist:		<u> </u>					!!		<u>_    </u>		_	:Z:
Right Bank:	Shape:	=	avel	Cobble Cobble	=	ulder[] ulder[]	Roci	= =		С	rown Ck	osure
Left Bank: Right Bank:	Shape: Rip.Veg:	Texture: Fines [_] Gr Stay	_	CODDIE	,,	11001	NOC	K   Wallifiede	ı			
Left Bank:	Rip.Veg:	Stag	_			ins	tream	Veg: None 🗌 /	Vgae [	Moss	□ Va	scular _
background drainage is jus	st very local bank r	age#246, Direction: \ unoff, no fluvium, no outh". Other - none										
1												

BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

ILP# 70756

1.0 93L.070

		STR	EAM	REF	EREI	4 C I N	G					
Gazetted Name:						Local N	ame	:				
Watershed Code	: 000-000000-0000	o-00000-0000-0000-00	0-000-0	00-000-	000-000		11	LP Map #: 93L.070		ILI	P#: 7	70756
				REA(	2 H							
Reach #: 1.0		UTM(Zone/East/No	orth): 9.	684123.	6056765	5		s	ample	Type:	Biase	ed .
Length (km): .12		Coupling:		Mag	nitude:	_		_	BGC 2			
Gradient (%): 0.8		nfinement: Unconfine Islands:	d	Din	Order:	: 1 egetatio		O	oen wat	ter:		
US Elev (m): 142 Bars: None	$\overline{}$		ennn		raid	Land						
Bars; None	Side Diagonal	Mio-channes _	) Span	SIT		Land	use.					
Cit. #- 446	Ciald	UTM 9.684224.60567	'AD			ncy: C0	16	Crew: SR	ЛМJ	Dato.	2002/07	7/31
Site #: 146 Site Length (m):		SUTM 10.296899.6057			•	•		INS Consulting Ltd		Date.	20020	1,01
,			C	HAN	_	-						
No Vis.Ch.:	Intermittent:		Avg	Min	Max	#			Avg	Min	Max	#
Dewatered:	Tribs.:	Channel Width (m):	0.00	0	0	0	1	Gradient %:	0.00	0	0	0
Stage: Low	l	Wetted Width (m):	0.00	0	0	0		Pool Depth (m):	0.00	0	0	0
Med 🗌	I	Bankfull Depth (m):	0.00	0	0	0	j	Turbi		Turbid	=	Low
High 🗌	Temp (C):	pH:			Conducti				М	oderate	·	Clear
			MO	RPH(							. 🗀	
Bed Material: [		D95 (cm):			Bars: N	on 📙	Six	de [ Diagonal [	Mid	-channe		Span       Sraid
1	dominant:	D (cm):		Diox.	IDD A NO	F 04		D4 D2 D3	D1	D23	D3 E	.an [_]
Channel Patter Coupling		Islands:			IRBANC CATORS		1	B1 B2 B3	H			
Confinemen	-			C1	C2	c3 C	24	C5 S1 S2	S3	S4	S5	
Morpholog	gy:											
				COV	ER							
Total Cover:		Type:	SWD	LW	D	В	U	DP (	)V	ΙV	]	
LWD:		Amount:									4	_
LWD Dist:		Location: P/S/O:			لالالا					_!_!_	∯ FS	sz: 🗌
Right Bank:	Shape:		ravel		=	ulder		ck Manmade	]	C	rown Ck	osure
Left Bank:	Shape:	_	ravei 🗌	Cobble	∌∐ Bou	ulder	Ro	ck Manmade	J			
_	Rip.Veg: Rip.Veg:	Stay Stay				Ins	trear	m Veg: None 🔲	Algae [	_ Mos:	s 🔲 Va	scular [
Luit Dalik.	Np. Toy.								J L			
site = UTM. rea	ech 1 from UTM is	ge#248, Direction: Us dispersed with no fistream" is actually a as potentially and ac	łuvium lake ba	orcont ack cha	inuous innel: fr	channe om 100	ei be Om te	ed and is not an F o site UTM (R0.1	PC str	eam; n nel is o	io fish h dry mos	SV.

BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

ILP#

1.0 93L.070

STREAM REFERENCING **Gazetted Name:** Local Name: ILP Map #: 93L.070 ILP#: 70757 REACH UTM(Zone/East/North): 9.684323.6057248 Sample Type: Biased Reach #: 1.0 Magnitude: BGC Zone: Length (km): .38 Coupling: Confinement: Occasionally Con Order: 1 Open water: Gradient (%): 3.2 US Elev (m): 1433 Islands: Riparian Vegetation: Bars: None Side Diagonal Mid-channel Span Braid Landuse: SITE Agency: C016 Crew: MJ/SR Date: 2002/07/30 Site #: 147 Field UTM 9.684252.6056961 Agency Name: FINS Consulting Ltd. GIS LITM 10.296955.6057767 Site Length (m): 100 CHANNEL Min No Vis.Ch.: Avg Max Max Intermittent: Min Avg # Tribs.: Gradient %: 0.00 0 n n Dewatered: Channel Width (m): 0.00 0 n O Wetted Width (m): Pool Depth (m): ō 0.00 0 ō 0 0.00 0 Low Stage: Bankfull Depth (m): 0.00 0 0 Low Med Turbidity.: Turbid \_\_\_ Moderate Clear High 🗌 Temp (C): Conductivity: MORPHOLOGY Side Diagonal Mid-channel Span Bed Material: Dominant: D95 (cm): Braid D (cm): Subdominant Channel Pattern: Islands: DISTURBANCE B1 INDICATORS Coupling: 53 СЗ C4 C5 **S1** S2 Confinement: Morphology: COVER i۷ Type: SWD LWD В Total Cover: Amount: LWD: Location: P/S/O: FSZ: I WD Dist: Texture: Fines Gravel Cobble Boulder Rock Manmade Crown Closure Right Bank: Texture: Fines Gravel Cobble Boulder Rock Manmade Left Bank: Shape: Right Bank: Stage: Rip.Veg: Instream Veg: None Algae Moss Vascular Stage: Left Bank: Rip.Veg: FEATURES NID Map UTM (Z/E/N) Method Method Lg Method Photo NID Туре 9.684252.6056961 GIS GE 093L.070 31471 BMA Comments: no drainage present Roll# 11, Frame# 12, CD# 3, Image#233, Direction: Upstream, Scale/Comment:SR site = UTM = "mouth", no drainage present at mapped location or 100m radius

BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

ILP# 70758

.0 93L.070

			STR	EAMI	REF	EREN	CIN	G						
Gazetted Nam	ie:					L	ocal N	lame:						
Watershed Co	de: 000-0000	00-00000-0000	0-0000-0000-00	0-000-00	0-000-	-000-000		ILP N	<b>931.07</b>	)	ILP	#: 7	0758	
				R	EA(	CH								
Reach #: 1.0	)	UT	M(Zone/East/No	orth): 9.6	83862.	.6056730				Sample	Type:	Biase	d	
Length (km):		-	oling:		Mag	gnitude:	_		_	BGC :				
Gradient (%):			nent: Unconfine	d	D:-	Order:			(	)pen wa	ter:			
U\$ Elev (m):		_	ands: 	ا م (	_ `	oarian Ve raid 🗌	-							
Bars: None	_ Side	Diagonal 📙	Mid-channel				Land	use:						
					SIT	************		40	•	R/MJ	D-4	2002107		
Site #: 1 Site Length (			9.683883.60568 10.296566.6057			•	cy: C0 ncy Nan		Crew: SI Consulting Lt		Date;	2002/07	731	
				C)	IAN	NEL								
No Vis.Ch.:	Intermitte	=		Avg	Min	Max	#	I _		Avg	Min	Max	#	
Dewatered:	Dewatered:													
Stage: Low	Wetted Width (m): 1.52 1.200 2 6   Pool Depth (m): 0.22 0.12 0.310 4													
1 =	Bankfull Depth (m): 0.33 0.3 0.4 3 Turbidity.: Turbid Low													
	High ☐ Temp (C): 7 pH: 8.6 Conductivity: 40 Moderate ☐ Clear ☑													
Bed Material:	Dominant: F	ines	D95 (cm): 20	.00		Bars: No	on 🗹	Side	Diagonal	Mid	channel	□ s	pan 🔲	
s	ubdominant: C	cobble	D (cm): 1.	00								В	raid 🔲	
Channel Pat	tem: Irregular	Meanders	Islands: No	ne		JRBANCE	01	B1	B2 B3	D1	D2 D	3		
	ling: Decouple					CATORS						4		
i	nent: Unconfin			_	C1	C2 (	C3 (	C4 C5	S S1 S2	S3	\$4 1 1	S5		
Morpho	logy:RPI	Riffle Pool		-			الل					<u> </u>		
					YO:	ER								
Total Cover.	Abundant		Type:	SWD	LW		В	U		ov	IV			
LWD: I	None		Amount: ocation: P/S/O:	N	N		N r	S	T	D	N	_		
LWD Dist:	Not Applicable	<u> </u>	5024011.17570.	<u> </u>				<u> </u>		<u> </u>		•	Z:	
Right Bank:	Shape: Un		re: Fines 🗹 Gr	_	Cobble		=	Rock	∐ Manmade [	亅	Cr	own Cic		
Left Bank:	Shape: Un		re: Fines 🗹 Gr	avel ge: Not Ap			lder	Rock	_ Manmade			7-4	20%	
Right Bank: Left Bank:	Rip.Veg: Sh Rip.Veg:	ruos	•	je: Not Ap je: Not Ap	-		ins	tream Ve	eg: None	Algae [	Moss	<b>√</b> Vas	cular [	
							*********				**********			
Site Number	Capture	Number of	Length fished	Tota	FIS	Voltage	, s	Species	Total	Mini	mum	Max	imum	
Site (Valider	Method	Events	(m)	Tim					Fish	I.	h (mm)	Leng	th (mm)	
148	EF	1	120	261 s	ес	700		CT	1		51		61	
Roll# 12, Fra	# 2 CD#	2 1	0 Dimetion: L											

BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

2.0

ILP#

93L\_070

	STREAMI	REFERENCING		
Gazetted Name:		Local Nam	e:	
Watershed Code: 000-000000-0000	0-00000-0000-0000-000-000-00	0-000-000-000	ILP Map #: 93L_070	ILP#: 70758
	R	EACH		
Reach #: 2.0	UTM(Zone/East/North): 9.6	83150 6056498	Sample T	vpe: Biased
Length (km): .43	Coupling:	Magnitude:	BGC Z	
	onfinement: Frequently Confin	Order: 1	Open wate	
US Elev (m): 1480	Islands:	Riparian Vegetation:	•	
Bars: None Side Diagona	i Mid-channel Span	Braid Landuse	<b>::</b>	
		SITE		
Site #: 149 Field	UTM 9.683614.6056503	Agency: C016	Crew: SR/MJ	Date: 2002/07/31
Site Length (m): 100 Gi	S UTM 10.296282.6057357	Agency Name:	FINS Consulting Ltd.	
	C	HANNEL		
No Vis.Ch.: / Intermittent:	Avg	Min Max #	Avg	Min Max #
Dewatered: Tribs.:	Channel Width (m): 0.00	0 0 0	Gradient %: 0.00	0 0 0
Stage: Low	Wetted Width (m): 0.00	0 0 0	Pool Depth (m): 0.00	0 0 0
Med 🗍	Bankfull Depth (m): 0.00	0 0 0	Turbidity.:	Turbid Low
High Temp (C):	pH:	Conductivity:	Mo	oderate Clear
	MOR	PHOLOGY		
Bed Material: Dominant:	D95 (cm):	Bars: Non 🗌 S	ide Diagonal Mid-	channel 🗌 Span 🔲
Subdominant:	D (cm):			Braid
Channel Pattern:	Islands:	DISTURBANCE 01	B1 B2 B3 D1 I	D2 D3
Coupling:		INDICATORS		
Confinement:		C1 C2 C3 C4	C5 S1 S2 S3	S4 S5
Morphology:	-			
		COVER		
Total Cover:	Type: SWD	LWD B	U DP OV	IV
	Amount:			
LWD: LWD Dist:	Location: P/S/O:			FSZ:
i	Texture: Fines Gravel	Cobble Boulder R	ock Manmade	Crown Closure
Right Bank: Shape:			ock Manmade	CIONII CIOCLIO
Left Bank: Shape: Right Bank: Rip.Veg:	Stage:	COBDIE DOGICO T	SOK MANMAGO	
Left Bank: Rip.Veg:	Stage:	Instre	am Veg: None 🔲 Algae 🗌	Moss Vascular
Roll# 12, Frame# 6, CD# 3, Ima at site channel becomes discon UTM = junction with 70759. note R.1.1). NCD from here, (S3) to I	tinuous with no fish habitat o e - shocked to here, NFC but	r potential, no passage	u/s. ribbon "1+230 North, bitat suitable and accessi	1+125 E". site = ble to site UTM (=

#### BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

1.0 93L-070 70759

		STR	EAMI	(EF	ERE)	ICIN	G					
Gazetted Name:						Local N	ame:					]
Watershed Code: (	000-000000-00000	<b>3-00000-0000-0000-00</b>	0-000-00	0-000-0	000-000		ILP	Map #: 93L.070		ILP	#:	70759
			R	EAC	; jj							
Reach #: 1.0	-	UTM(Zone/East/No	orth): 9.68	83204.0	6056637	,		S	ample	• •	Bias	ed be:
Length (km): .47		Coupling:		Mag	nitude:			_	BGC 2			
Gradient (%): 6.8		nfinement: Frequently	Confin	D:	Order:			O <sub>I</sub>	en wat	ter:		1
US Elev (m): 1480	_	Islands:	ا م (	_ ·	_	getatio						İ
Bars: None S	ide Diagonal	Mid-channel			aid [	Land	ıse:			***********		
				SIT			•••	000		D-4	2002/	07/21
Site #: 150		UTM 9.683614.60565 SUTM10.296282.6057			•	ncy: C0		Crew: SR. IS Consulting Ltd		Date:	20021	1/131
Site Length (m): 1	oo Ga	U 1M 10.290282.0037		******	_	nicy ivan	PG. 1 114	10 Consuming Etc	•			
				HAN		- 4		-	Aug	Min	Max	T # 1
	Intermittent:	Channel Width (m):	Avg 0.00	Min 0	Max 0	# 0	r	Gradient %:	Avg 19.50	19.5	19.5	
Dewatered:	Tribs.: 🔲	Wetted Width (m):	0.00	0	0	0	l ⊦	Pool Depth (m):	0.00	0	0	0
Stage: Low	1	Bankfull Depth (m):		0	0	0		Turbi	dity:	Turbid	$\overline{}$	Low
Med High	Temp (C):	pH:		(	Conducti	vity:		10.5.	•	oderate	5	Clear
			MOR	PHC	LOC	Y						
Bed Material: Do	ominant:	D95 (cm):			Bars: N	on 🗌	Side	Diagonal [	Mid	channel		Span 🗌
Subdo	ominant:	D (cm):										Braid 🗌
Channel Pattern:	:	Islands:			RBANC		<u>B1</u>	B2 B3	D1	D2 [	3	
Coupling:	:				CATORS	لسلبا				Ш	للـ	
Confinement:			_	C1	C2	C3 (	4 (	C5 S1 S2	S3	\$4	S5	ı
Morphology:	:		-									j
				3 O Y	ER						•	
Total Cover:		Туре:	SWD	LWI	D	В	υ	DP C	ΟV	IV		
LWD:		Amount: Location: P/S/O:					ų į			7( )(		sz: 🗌
LWD Dist:			<u>ئىالىالىا</u>	1	<u> </u>		<u>ائے انہ</u>		<u></u>	<u></u>	•	
1 *	Shape:		- =	Cobble		ılder	Rock Rock		1	Cı	rown C	Closure
1	Shape:	Texture: Fines Gr		Cobble	BOI	ulder	ROCK	IVIAITITIAUE	J			
	p.Veg: p.Veg:	Stag	-			ins	tream '	Veg: None	Algae [	Moss	□ v	ascular [
										<del></del>		
ribbon - "T = 1+3	300N, 1+155E, s	ge#251, Direction: U tream at 155E*. stre r (dry). site = UTM =	am lack	s cont	inuity -	channe	l occa	asionally preser	nt but n	ot cont	inuou	s, not

#### BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

ILP#

93L.070

				EAM I		*****		G					
Gazetted Name:						ι	_ocal N	lame:					1
Watershed Code: 000	H000000-000f	00-0000	0-0000-0000-00	0-000-00	0-000-0	000-000		ILP Ma	ı <b>p #:</b> 93∟.070		ILP	#: 7	0760
				R	EAC	;H							
Reach#: .1		uт	M(Zone/East/No	rth): 9.6	83286.6	6057539			S	ample	Type:	Biase	d
Length (km): .72		Coup	•	•		mitude:				BGC 2	Zone:		
Gradient (%): 3.6	C		nent: Frequently	Confin		Order:			O	pen wat	ter:		
US Elev (m): 1447		_	ınds:		_ `	arian Ve	•						ĺ
Bars: None Side	Diagon:	al 📙	Mid-channel	Span [		aid 🔝	Land	luse:					
					SIT			_			-		
Site #: 151			9.683882.60571 10.296573.6057				cy: C0		Crew: MJ Consulting Ltd	/SR	vate:	2002/07	/30
Site Length (m): 150	G	SUIM	10.290373.0037		HAN		iicy iiai		2y	-			
				Avg	Min	Max	#	7		Avg	Min	Max	#7
No Vis.Ch.: Inte	rmittent:	Cha	nnel Width (m):	1.55	1.4	1.8	6	1	Gradient %:	1.50	1	2	4
			etted Width (m):	$\rightarrow$	0.800	1.4	6	Po	ol Depth (m):	0.26	0.230	0.280	2
Stage: Low Med ✔		Bai	nkfuli Depth (m):	0.20	0.2	0.2	3	_	Turbi	dity.:	Turbid	$\supseteq$	Low
High 🗌	Temp (C):	7	pH: 8.4		(	Conducti	vity: 40			M	oderate		Clear 🗹
				MOR	PH	) L O G	Y		-	_			]
Bed Material: Domi			D95 (cm): 15			Bars: N	on 🗌	Side 🗹	Diagonal	Mid	-channel		pan 📙 raid 🗍
	nant: Gravels		D (cm): 1.			<b>.</b>			DO DO	D4	D0 D		1410 🗀
Channel Pattern: In		ering	Islands: No	ne		IRBANCI CATORS		<u>B1</u>	B2 B3			<u>3</u>	
Coupling: De		onfine			C1	C2	СЗ	C4 C5	S1 S2	S3	S4	<b>S</b> 5	
Morphology: I				-									
					COV	ER							
Total Cover: Abunda	nt	***********	Туре:	SWD	LW		В	U	DP (	OV	ΙV	]	
LWD: None			Amount:	T	N		s	S	D	T	T	]	
LWD Dist: Not App	olicable		ocation: P/S/O:	$\mathbf{V}$								FS	sz: 🗌
			-: <b>a</b>	ravel		Bou	ılder	Rock 🗌	Manmade	7	Cı	rown Cl	osure
Right Bank: Sha	ape: Undercut	Text	ine: Fines 💌 Gi						=	=			
Left Bank: Sha	ape: Undercut		ure: Fines 🗹 G	ravel		e 🗹 Bou		Rock _	Manmade [	=		1-3	20%
Left Bank: Sha Right Bank: Rip.\	ape: Undercut /eg: Shrubs		ure: Fines 🗹 Gi Sta	ravel ge: Not A	pplicab	ee√ Bou xe	ılder	, _	Manmade [	]	✓ Moss		20% scular [
Left Bank: Sha	ape: Undercut /eg: Shrubs		ure: Fines 🗹 Gi Sta	ravel	pplicab pplicab	e√ Bou xie xie	ılder	, _	=	]	✓ Moss		_
Left Bank: Sha Right Bank: Rip.\	ape: Undercut /eg: Shrubs /eg:	Texto	ure: Fines 📝 G Star Star	ravel ge: Not A ge: Not A	pplicab pplicab	e Bou ole ole	ilder	stream Veç	Manmade	Algae [		∐ Va	scular
Left Bank: Sha Right Bank: Rip.\ Left Bank: Rip.\ Site Number Cap	ape; Undercut /eg: Shrubs /eg: ture Num		ure: Fines 🗹 Gi Sta	ravel ge: Not A	pplicab pplicab F 1 5	e√ Bou xie xie	ilder	, _	Manmade [	Algae (	Moss	☐ Va	_
Left Bank: Sha Right Bank: Rip.\ Left Bank: Rip.\ Site Number Cap Met	ture Num	Textu	ure: Fines   G Star Star	ravel ge: Not A ge: Not A 	pplicab pplicab F15 al	e Bou ole ole	ilder	stream Veç	Manmade :	Algae Mini	mum	☐ Va	scular
Left Bank: Sha Right Bank: Rip.\ Left Bank: Rip.\ Site Number Cap Met  151 E	ape: Undercut /eg: Shrubs /eg: ture Num shod Ev	Texto	Length fished (m)	ge: Not A ge: Not A ge: Not A Tot Tim	pplicab pplicab F15 al ie	Bounder Bounder Bill Worklag	in:	Species	Manmade  g: None  Total Fish	Algae Mini	imum th (mm)	☐ Va	scular kimum
Left Bank: She Right Bank: Rip.\ Left Bank: Rip.\ Site Number Cap Met  151 E	ape: Undercut /eg: Shrubs /eg: ture Num hod Ev	Texto	Length fished (m) 150	ge: Not A ge: Not A Tot Tim 207:	pplicab pplicab pplicab pplicab pplicab pplicab pplicab pplicab	Bounder Bot Nee State Voltage 7000	in:	Species  CT	g: None Total Fish 6	Algae Mini	imum th (mm)	☐ Va	scular kimum
Left Bank: Sha Right Bank: Rip.\ Left Bank: Rip.\ Site Number Cap Met 151 E  Roll# 11, Frame# Roll# 11, Frame#	ppe: Undercut //eg: Shrubs //eg: ture Num thod Ev F 14, CD# 3, In th. Spanning	ber of ents  1  mage#	Length fished (m) 150 235, Direction:	ge: Not A ge: Not A  Tot Tim 207: Upstrea	pplicab pplicab pplicab pplicab pplicab pricab pricab pricab pricab pricab pricab pricab pricab pricab pricab pricab pricab pricab	Boulde  Wolfag  700  cale/Corr Scale/Crr grave	In:	Species  CT  :SR entcam berved, so	Total Fish 6	Algae Mini Lengt	imum th (mm) 69	Ma. Leng	kimum gth (mm) 84
Left Bank: She Right Bank: Rip.\ Left Bank: Rip.\ Left Bank: Rip.\ Site Number Cap Met  151 E  Roll# 11, Frame# Roll# 11, Frame# site = UTM = moul - excellent in abun	ppe: Undercut //eg: Shrubs //eg: ture Num thod Ev F 14, CD# 3, In th. Spanning	ber of ents  1  mage#	Length fished (m) 150 235, Direction:	ge: Not A ge: Not A  Tot Tim 207: Upstrea	pplicab pplicab pplicab pplicab pplicab pricab pricab pricab pricab pricab pricab pricab pricab pricab pricab pricab pricab pricab	Boulde  Wolfag  700  cale/Corr Scale/Crr grave	In:	Species  CT  :SR entcam berved, so	Total Fish 6	Algae Mini Lengt	imum th (mm) 69	Ma. Leng	kimum gth (mm) 84
Left Bank: Sha Right Bank: Rip.\ Left Bank: Rip.\ Site Number Cap Met 151 E  Roll# 11, Frame# Roll# 11, Frame#	ppe: Undercut //eg: Shrubs //eg: ture Num thod Ev F 14, CD# 3, In th. Spanning	ber of ents  1  mage#	Length fished (m) 150 235, Direction:	ge: Not A ge: Not A  Tot Tim 207: Upstrea	pplicab pplicab pplicab pplicab pplicab pricab pricab pricab pricab pricab pricab pricab pricab pricab pricab pricab pricab pricab	Boulde  Wolfag  700  cale/Corr Scale/Crr grave	In:	Species  CT  :SR entcam berved, so	Total Fish 6	Algae Mini Lengt	mum th (mm) 69	Ma. Leng	kimum gth (mm) 84
Left Bank: She Right Bank: Rip.\ Left Bank: Rip.\ Left Bank: Rip.\ Site Number Cap Met  151 E  Roll# 11, Frame# Roll# 11, Frame# site = UTM = mout - excellent in abun	ppe: Undercut //eg: Shrubs //eg: ture Num thod Ev F 14, CD# 3, In th. Spanning	ber of ents  1  mage#	Length fished (m) 150 235, Direction:	ge: Not A ge: Not A  Tot Tim 207: Upstrea	pplicab pplicab pplicab pplicab pplicab pricab pricab pricab pricab pricab pricab pricab pricab pricab pricab pricab pricab pricab	Boulde  Wolfag  700  cale/Corr Scale/Crr grave	In:	Species  CT  :SR entcam berved, so	Total Fish 6	Algae Mini Lengt	mum th (mm) 69	Ma. Leng	kimum gth (mm) 84
Left Bank: She Right Bank: Rip.\ Left Bank: Rip.\ Left Bank: Rip.\ Site Number Cap Met  151 E  Roll# 11, Frame# Roll# 11, Frame# site = UTM = mout - excellent in abun	ppe: Undercut //eg: Shrubs //eg: ture Num thod Ev F 14, CD# 3, In th. Spanning	ber of ents  1  mage#	Length fished (m) 150 235, Direction:	ge: Not A ge: Not A  Tot Tim 207: Upstrea	pplicab pplicab pplicab pplicab pplicab pricab pricab pricab pricab pricab pricab pricab pricab pricab pricab pricab pricab pricab	Boulde  Wolfag  700  cale/Corr Scale/Crr grave	In:	Species  CT  :SR entcam berved, so	Total Fish 6	Algae Mini Lengt	mum th (mm) 69	Ma. Leng	kimum gth (mm) 84
Left Bank: She Right Bank: Rip.\ Left Bank: Rip.\ Left Bank: Rip.\ Site Number Cap Met  151 E  Roll# 11, Frame# Roll# 11, Frame# site = UTM = mout - excellent in abun	ppe: Undercut //eg: Shrubs //eg: ture Num thod Ev F 14, CD# 3, In th. Spanning	ber of ents  1  mage#	Length fished (m) 150 235, Direction:	ge: Not A ge: Not A  Tot Tim 207: Upstrea	pplicab pplicab pplicab pplicab pplicab pricab pricab pricab pricab pricab pricab pricab pricab pricab pricab pricab pricab pricab	Boulde  Wolfag  700  cale/Corr Scale/Crr grave	In:	Species  CT  :SR entcam berved, so	Total Fish 6	Algae Mini Lengt	mum th (mm) 69	Ma. Leng	kimum gth (mm) 84
Left Bank: She Right Bank: Rip.\ Left Bank: Rip.\ Left Bank: Rip.\ Site Number Cap Met  151 E  Roll# 11, Frame# Roll# 11, Frame# site = UTM = mout - excellent in abun	ppe: Undercut //eg: Shrubs //eg: ture Num thod Ev F 14, CD# 3, In th. Spanning	ber of ents  1  mage#	Length fished (m) 150 235, Direction:	ge: Not A ge: Not A  Tot Tim 207: Upstrea	pplicab pplicab pplicab pplicab pplicab pricab pricab pricab pricab pricab pricab pricab pricab pricab pricab pricab pricab pricab	Boulde  Wolfag  700  cale/Corr Scale/Crr grave	In:	Species  CT  :SR entcam berved, so	Total Fish 6	Algae Mini Lengt	mum th (mm) 69	Ma. Leng	kimum gth (mm) 84
Left Bank: She Right Bank: Rip.\ Left Bank: Rip.\ Left Bank: Rip.\ Site Number Cap Met  151 E  Roll# 11, Frame# Roll# 11, Frame# site = UTM = moul - excellent in abun	ppe: Undercut //eg: Shrubs //eg: ture Num thod Ev F 14, CD# 3, In th. Spanning	ber of ents  1  mage#	Length fished (m) 150 235, Direction:	ge: Not A ge: Not A  Tot Tim 207: Upstrea	pplicab pplicab pplicab pplicab pplicab pricab pricab pricab pricab pricab pricab pricab pricab pricab pricab pricab pricab pricab	Boulde  Wolfag  700  cale/Corr Scale/Crr grave	In:	Species  CT  :SR entcam berved, so	Total Fish 6	Algae Mini Lengt	mum th (mm) 69	Ma. Leng	kimum gth (mm) 84

#### BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

ILP#

1.0 93L.070

000-00000		0-000-000-00									
000-00000		00-0000-0000-00			Loc	al Name	 :				
			0-000-00	0-000-0	000-000	II	.P Map #: 93L.07	0	ILP	<b>#</b> : 7	0760
			R	EAC	: 11						
	H	M(Zone/East/No	orth): 9.68	83229.1	6057586			Sample	Type:	Biase	d
	Coup	-	au,, o.o.		nitude:			•	Zone:		
	Confiner	nent: Frequently	Confin		Order: 1		•	Open wa	ter:		
)	Isla	ands:		Rip	arian Vege	tation:					
ide 🔲 D	Diagonal 🗌	Mid-channel	Span [	Br	aid 🗌 i	anduse:					
				SIT	Ē						
	Field UTM	9.683283.60575	47						Date: 3	2002/07	731
00	GIS UTM	10.296023.6058	426		Agency	Name: F	INS Consulting L	ld.			
			C)	HAN	NEL						
Intermitten	nt: 🔲		Avg	Min	Max	#		Avg	Min	Max	#
Tribs.			0.80	0.5	1.200	_			3	5	4
	<u> </u>						Pool Depth (m	):[ 0.21			
	<u> </u>		0.17				Tur	•	Turbid	=	Low
Tem	p (C): 9	pH: 8.4			-	. 40		IV	ocerate		Clear 🗹
							]				
		` '			Bars: Non	<b>⊻</b> Sid	le [] Diagonal	Mid	l-channel		pan [_] raid [_]
	raveis	, ,									iaiu []
		Islands: No	ne			01 [	11 B2 B3	D1	<u>D2 D</u>	<u>3</u>	
				C1	1		C5 S1 S	2 53	S4	 S5	
	tiffle Pool		-	$\overline{\Box}$							
			-		E 8						
to		Type	************			U	DP	ov I	īV		***********
		Amount:	N	N	N	s	T	D	N		
i Annlicable	L	ocation: P/S/O:								FS	z: 🗌
		ire: Fines 🗸 Gr	avei 🗸	Cobble	Roulde	r Ros	k Manmade	<u> </u>	Cn	own Clo	sure
-							=	=	-		20%
•											
p.Veg:		Stag	ge: Not Ap	plicab	le	Instrear	n Veg: None 🗌	Algae	Moss	<b>√</b> Vas	cular
apture	Number of	Length fished	Tota	***********		Spec	es Total	Mini	mum	Max	dmum
ethod	Events	(m)	1				Fish	Lengt	th (mm)	Leng	th (mm)
EF	1	100	267 s	өс	700	СТ	6		64	<u></u>	153
	minant: Comminant: Comminant: Comminant: Grant Coupled Confined RP F	mtermittent: Characteristics.: Characteristics.: Characteristics.: Characteristics. Characteristics. Characteristics. Characteristics. Characteristics. Characteristics. Characteristics. Characteristics. Characteristics. Characteristics. Characteristics. Characteristics. Characteristics. Characteristics. Characteristics. Characteristics. Characteristics. Characteristics. Characteristics. Characteristics. Characteristics. Characteristics. Characteristics. Characteristics. Characteristics. Characteristics. Characteristics. Characteristics. Characteristics. Characteristics. Characteristics. Characteristics. Characteristics. Characteristics. Characteristics. Characteristics. Characteristics. Characteristics. Characteristics. Characteristics. Characteristics. Characteristics. Characteristics. Characteristics. Characteristics. Characteristics. Characteristics. Characteristics. Characteristics. Characteristics. 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Characteristics. Characteristics. Characteristics. Characteristics. Characteristics. Characteristics. Characteristics. Characteristics. Charact	mtermittent:  Tribs.:  Channel Width (m): Wetted Width (m): Bankfull Depth (m): Bankfull Depth (m):  Temp (C): 9 pH: 8.4  minant: Cobble p95 (cm): 25 minant: Gravels D (cm): 1. Sinuous Islands: No Coupled Confined RP Riffle Pool  Type: Amount: Location: P/S/O: Shape: V - shape thape: Undercut by Cycle; Shrubs Coveg: Shrubs Coveg: Shrubs Coveg: Stage  Texture: Fines   Texture: Fines   Texture: Fines   Texture: Fines   Texture: Fines   Texture: Fines   Texture: Fines   Texture: Fines   Texture: Fines  Texture: Fines  Texture: Fines  Texture: Fines  Texture: Fines  Texture: Fines  Texture: Fines  Texture: Fines  Texture: Fines  Texture: Fines  Texture: Fines  Texture: Fines  Texture: Fines  Texture: Fines  Texture: Fines  Texture: Fines  Texture: Fines  Texture: Fines  Texture: Fines  Texture: Fines  Texture: Fines  Texture: Fines  Texture: Fines  Texture: Fines  Texture: Fines  Texture: Fines  Texture: Fines  Texture: Fines  Texture: Fines  Texture: Fines  Texture: Fines  Texture: Fines  Texture: Fines  Texture: Fines  Texture: Fines  Texture: Fines  Texture: Fines  Texture: Fines  Texture: Fines  Texture: Fines  Texture: Fines  Texture: Fines  Texture: Fines  Texture: Fines  Texture: Fines  Texture: Fines  Texture: Fines  Texture: Fines  Texture: Fines  Texture: Fines  Texture: Fines  Texture: Fines  Texture: Fines  Texture: Fines  Texture: Fines  Texture: Fines  Texture: Fines  Texture: Fines  Texture: Fines  Texture: Fines  Texture: Fines  Texture: Fines  Texture: Fines  Texture: Fines  Texture: Fines  Texture: Fines  Texture: Fines  Texture: Fines  Texture: Fines  Texture: Fines  Texture: Fines  Texture: Fines  Texture: Fines  Texture: Fines  Texture: Fines  Texture: Fines  Texture: Fines  Texture: Fines  Texture: Fines  Texture: Fines  Texture: Fines  Texture: Fines  Texture: Fines  Texture: Fines  Texture: Fines  Texture: Fines  Texture: Fines  Texture: Fines  Texture: Fines  Texture: Fines  Texture: Fines  Texture: Fines  Texture: Fines  Texture: Fines  Texture: Fines  Texture: Fines  Texture: Fines  Textu	Field UTM 9.683283.6057547  GIS UTM 10.296023.6058426  Contermittent:  Tribs.:  Channel Width (m): 0.80  Wetted Width (m): 0.62  Bankfull Depth (m): 0.17  Temp (C): 9 pH: 8.4  MC R  minant: Cobble D95 (cm): 25.00  minant: Gravels D (cm): 1.00  Sinuous Islands: None  Coupled Confined RP Riffle Pool  crate Type: SWD  Amount: N  Location: P/S/O:  Channel Width (m): 0.80  Wetted Width (m): 0.80  MC R  MC R  MC R  MC R  MC R  MC R  Temp: V - Shape Shape: V - Shape Shape: Undercut over the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of the color of t	Field UTM 9.683283.6057547  OD GIS UTM10.296023.6058426  C. H. A. N  Intermittent: Avg Min  Tribs.: Channel Width (m): 0.80 0.5  Wetted Width (m): 0.62 0.200  Bankfull Depth (m): 0.17 0.1  Temp (C): 9 pH: 8.4  MORPH:  Intermit Cobble D95 (cm): 25.00  Intermit Gravels D (cm): 1.00  Sinuous Islands: None DISTU INDIC Coupled INDIC Confined C1  RP Riffle Pool  Intermit N N N  Location: P/S/O: LW Amount: N N N  Location: P/S/O: Cobble Shape: Undercut over the cook of the cook of the cook of the cook of the cook of the cook of the cook of the cook of the cook of the cook of the cook of the cook of the cook of the cook of the cook of the cook of the cook of the cook of the cook of the cook of the cook of the cook of the cook of the cook of the cook of the cook of the cook of the cook of the cook of the cook of the cook of the cook of the cook of the cook of the cook of the cook of the cook of the cook of the cook of the cook of the cook of the cook of the cook of the cook of the cook of the cook of the cook of the cook of the cook of the cook of the cook of the cook of the cook of the cook of the cook of the cook of the cook of the cook of the cook of the cook of the cook of the cook of the cook of the cook of the cook of the cook of the cook of the cook of the cook of the cook of the cook of the cook of the cook of the cook of the cook of the cook of the cook of the cook of the cook of the cook of the cook of the cook of the cook of the cook of the cook of the cook of the cook of the cook of the cook of the cook of the cook of the cook of the cook of the cook of the cook of the cook of the cook of the cook of the cook of the cook of the cook of the cook of the cook of the cook of the cook of the cook of the cook of the cook of the cook of the cook of the cook of the cook of the cook of the cook of the cook of the cook of the cook of the cook of the cook of the cook of the cook of the cook of the cook of the cook of the cook of the cook of the cook of the cook of the cook of the cook of the cook of the cook of the coo	OD GIS UTM 10.296023.6058426 Agency  C HANNEL  Tribs.:    Channel Width (m): 0.80	Field UTM 9.683283.6057547  Agency: C016  Agency Name: F  C HANNEL  Tribs.:    Channel Width (m): 0.80	Field UTM 9.683283.6057547  Agency: C016	Field UTM 9.683283.6057547   Agency: C016   Crew: SR/MJ	Field UTM 9.683283.6057547   Agency: C016   Crew. SR/MJ   Date:	Field UTM 9.683283.6057547   Agency: C016   Crew: SR/MJ   Date: 2002/07

#### BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # ILP Map #

ILP#

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NID Map	NID Type	Hgt	Method	Lg	Meti	hod	Pi	noto	T	UTM (Z/E/N)		Method	<del>.</del> T	
093K.051	31531 C	2.0	AL	8	GE	hod F	P1 ≿ 1	roto F: 3	10	0.316974.60539	55	Method GIS		
093K.051		2.0	AL	8	GE	hod F	P1 ≿ 1	roto F: 3	10	0.316974.60539	55		<del>-</del>	
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Site Number  153  Roll# 1, Fran Roll# 1, Fran Roll# 1, Fran Roll# 1, Fran Roll# 1, Fran	Capture Method EF  capture Method EF  me# 4, CD# 'ne# 4, CD# 'g d/s from cs	Number Events  1, Image# 1, Image# 1, Image#	AL ed (1999), but of Length (m 20 3, Direction 4, Direction on tributes sights start of	fished i) i) i) Upstric: Upstric: Downingnificar	Tot Tim 313: eam, S eam, S stream ant flow-	hod   F   S   S   S   S   S   S   S   S   S	Pict 1 Sh absen  Voltage  600  Commercommere/Commere/Commere/Commercade for cascade	F: 3 ce u/s - ttMj - ce ttent intention RB the	no jump  Species  NFC  ascade bag bbe re?. site 6 - nice	Total Fish 0  // Deginning of e = UTM = from a pools to show	Mini Lengt steep:	mum th (mm) section	in featu	rth (mm
O93K.051 Comments:  Site Number 153  Roll# 1, Fran Roll# 1, Fran Roll# 1, Fran natural confirm fish a Rearing Hab	Capture Method EF  capture Method EF  me# 4, CD# 'ne# 4, CD# 'g d/s from cs	Number Events  1, Image# 1, Image# 1, Image# ascade coscade mar	AL ed (1999), but of Length (m 20 3, Direction 4, Direction on tributes sights start of	fished i) i) i) Upstric: Upstric: Downingnificar	Tot Tim 313: eam, S eam, S stream ant flow-	hod   F   S   S   S   S   S   S   S   S   S	Pict 1 Sh absen  Voltage  600  Commercommere/Commere/Commere/Commercade for cascade	F: 3 ce u/s - ttMj - ce ttent intention RB the	no jump  Species  NFC  ascade bag bbe re?. site 6 - nice	Total Fish 0	Mini Lengt steep:	mum th (mm) section	in featu	rth (mm
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#### BFP FFHI 2002/03 - Pierre/Twain Resampling

Reach # !LP Map #

ILP#

1.0

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							F	EA	CH								
Reach #: 1.0	•••••	**********	•	UTN	/(Zone/E	ast/No	rth): 10.	.31627	0.605414	5			s	ample	Type:	Biase	d
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Gradient (%): 1	8.0		Сог		ent: Con	fined			Order:				Oį	en wa	ter:		1
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Site #: 1 Site Length (r	-				10.31704 10.31 <mark>703</mark>					icy: C0 ncy Nar			Crew: SR onsulting Ltd	· WN	Date:	2002/07	7/04
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Dewatered:	j <b>.</b>	Tribs.:	= -	Cha	nnel Widt	th (m):	1.45	1.3	1.700	6	] [		Gradient %:	5.50	4	7	4
Stage: Low	٦				tted Widt	<u> </u>	0.12	0	0.7	6	Į [	Poo	l Depth (m):	0.08	0.08	0.08	
Med v	ź		C	Bar	kfull Dep	th (m):	0.23	0.2	0.3	3	7		Turb	•	Turbid		Low
High [	]	Tem	(C): 8		рH	: 9.1			Conducti	vity: 110	) 			N	loderate		Clear 🗹
							MOI	(P.H	OLOG	Y		<u> </u>	-	_			
Bed Material:	Domir	nant: Co	bble		•	m): 20.			Bars: N	on 🗹	Side		Diagonal	Mid	i-channel	_	ipan 🔲   Iraid 🔲
Sı	imobdu	nant: Gr	avels		D (c	m): 8.0	00										stato 🗀
Channel Pat	tern: Sir	านอนร			Islan	ids: Occ	casiona		URBANC ICATORS		B1	1 1	B2 B3	<u>D1</u>	D2 [	3	
1 .	ling: Co	•	. 06-					C1	-	حـــا	C4	LLI C5	S1 S2	 S3	 S4	 S5	
Confinen			ffle Poo					$\ddot{\neg}$		$\Box$		$\overline{\Box}$		ТП	ТПТ	$\overline{\Box}$	
Morpho	ogy. I									<u> </u>					1		
								CON			••••	••••	DD	ov T	ΙV	1	***********
Total Cover: 1	race					Type:	SWD	LV	AD _	B N	U N	╫	DP (	s	N	1	
LWD: F					ocation: I		1 1	1				71		$\neg$		FS	sz: 🗍
LWD Dist: I	•							<u> </u>	le 🗹 Bou		Rock	. 🗆	Manmade	7		rown Cl	nsure
Right Bank:		pe:Slop pe:V-:	•		ire: Fines ire: Fines				ie ❤️ Boo ie ✔ Boo		Rock	=	Manmade	์ โ	Ŭ.		-70%
Left Bank: Right Bank:		eg:Shn		I <del>G</del> ALL	110. 1 11103		ge: Not /				•	_	_	_			
Left Bank:	Rip.V	•				_	e: Not /			Ins	stream	Veg:	None 🗌	Algae	✓ Moss	☐ Va	scular
									FEAT	URE	S						
NID Map	NID	Туре	Hgt	] 1	<b>Nethod</b>	Lg	Med	hod	P	oto			TM (Z/E/N)		Method	$\Box$	
	31541	SP	I	I	AL		G		R:	F:		10.3	17003.60539	76	GIS		
Comments:	docum	nented,	but conf	limed	location												
								FI	SH								
Site Number	Capt		Numbe		Length		To		Voltaç	je	Specie	s	Totai Fish		imum th (mm)	L	ximum gth (mm)
	Het	1	Ever		(m	•	t	ne 	600		NFC		0	Leng	(······)		g (······)
154	E	<u>- 1</u>	1		10	<u>.</u>	39	Sec .	1 000		.4.0			l		<u> </u>	
Roll# 1, Fran Roll# 1, Fran seasonal cre pool with no mod-hi flow lacks sufficie	ne# 2, eek, raq habita	CD# 1 ges in s t, other	, Image spring v wise n	e#2, I with г ice ty n Hah	Direction to appar pes of c sitat - not	: Dowi ent IN: over w ne - ali	nstrear STREA then flo ready d	n, Sca VM CC Iwing ( Irv. no	ite/Comr VER to (right). sa Lakes u	nent:ca provide ampled 's. Spa	am bag e fish I d u/s ir wning	habit 199 Hat	99. aiready oitat - none	- large	w wnen	omers	ં તા

# Reconnaissance (1:20,000) Fish and Fish Habitat Inventory

# Resampling in the Pierre and Twain Sub-units 2002/03

Addendum to Pierre and Twain Sub-units Fish Inventory - 1999

• Appendix II: Photographs

# index of Photos Arranged by Roll and Frame \* See Reach/Site Summary for Site Photo Reference Information

Roll #	Frame #	Neg #	CD #	Image #	Site	Watershed Code	Gazetted Name	ILP Map	ILP	Reach	Dir	Owner	Focal Length	Date	Scale/Comments
1	1	1	1	1	154	480-816400-06800-04500				1	U	SITE	STD	2002-07-04	cam bag
1	2	2	1	2	154	480-816400-06800-04500				1	D	SITE	STD	2002-07-04	
1	3	3	1	3	153	480-816400-06800				2.1	Ü	SITE	STD		MJ - cascade/beginning of steep section in features
1	4	4	1	4	153	480-816400-06800				2.1	U	SITE	STD	2002-07-04	
1	5	5	1	5	153	480-816400-06800				2.1	D	SITE	STD	2002-07-04	
1	14	14	1	6	14	480-802100-16400				1	U	SITE	STD	2002-07-06	MJ - note LWD clump
1	15	15	1	7	14	480-802100-16400				1	D	SITE	STD	2002-07-06	
1	16	16	1	8	15			93K.061	61731	1	U	SITE	STD	2002-07-06	cam bag
1	17	17	1	9	16			93K.061	61734	1	U	SITE	STD	2002-07-06	cam bags
1	18	18	1	10	17			93K.061	61735	1	U	SITE	STD	2002-07-06	MJ
1	19	19	1	11	17			93K.061	61735	1	D	SITE	STD	2002-07-06	
1	20	20	1	12	17			93K.061	61735	1	U	SITE	STD	2002-07-06	cam bag - BD in features
1	21	21	1	13	19			93K.061	61740	1	U	SITE	STD	2002-07-07	
1	22	22	1	14	19			93K.061	61740	1	D	SITE	STD	2002-07-07	
2	1	1	1	15	21	480-802100-42400				1	Ú	SITE	STD	2002-07-07	
2	2	2	1	16	21	480-802100-42400				1	D	SITE	STD	2002-07-07	SR
2	3	3	1	17	26	480-802100-42400-09600				1	U	SITE	STD	2002-07-07	
2	4	4	1	18	26	480-802100-42400-09600				1	D	SITE	STD	2002-07-07	cam bag
2	5	5	1	19	27	480-802100-42400-09600				2	Ū	SITE	STD	2002-07-07	
2	6	6	1	20	27	480-802100-42400-09600				2	D	SITE	STD	2002-07-07	
2	7	7	1	21	22	480-802100-42400				4	BD	SITE	STD	2002-07-07	probe - excellent spawning substrate
2	8	8	1	22	22	480-802100-42400				4	D	SITE	STD	2002-07-07	
2	9	9	1	23	22	480-802100-42400				4	Ü	SITE	STD	2002-07-07	SR
2	10	10	1	24	40	480-802100-43000				1	U	SITE	STD	2002-07-07	
2	11	11	1	25	40	480-802100-43000				1	D	SITE	STD	2002-07-07	MJ
2	12	12	1	26	41			93K.061	61748	1	U	SITE	STD	2002-07-07	cam bag/book
2	13	13	1	27	41			93K.061	61748	1	D	SITE	STD	2002-07-07	cam bag
2	14	14	1	28	44			93K.061	61750	1	U	SITE	STD	2002-07-08	SR
2	15	15	1	29	44			93K.061	61750	1	D	SITE	STD	2002-07-08	cam bag
2	16	16	1	30	42			93K.061	61749	1	Ū	SITE	STD	2002-07-08	MJ
2	17	17	1	31	42			93K.061	61749	1	D	SITE	STD	2002-07-08	cam bag
2	18	18	1	32	43			93K.061	61749	2	Ū	SITE	STD	2002-07-08	
2	19	19	1	33	28	480-802100-42400-09600				4	U	SITE	STD	2002-07-08	cam bag
2	20	20	1	34	28	480-802100-42400-09600				4	D	SITE	STD	2002-07-08	cam bag
2	21	21	1		23	480-802100-42400				4.1	U	SITE	STD	2002-07-08	MJ
2	22	22	1	36	23	480-802100-42400		i		4.1	D	SITE	STD	2002-07-08	cam bag
2	23	23	1	37	24	480-802100-42400				5	U	SITE	STD	2002-07-08	
2	24	24	1	38	24	480-802100-42400				5	D	SITE	STD	2002-07-08	cam bag - end of roll
3	1	1	1	39	25	480-802100-42400				6	U	SITE	STD	2002-07-08	cam bag
3	1 2	2	1	40	25	480-802100-42400				6	D	SITE	STD	2002-07-08	cam bag
3	3	3	1	41	24	480-802100-42400				5	U	SITE	STD	2002-07-08	cam bag - cascade in features
3	5	5	1	42	30	480-802100-42400-54400				1	U	SITE	STD	2002-07-08	cam bag
3	6	6	1	43	30	480-802100-42400-54400				1	D	SITE	STD	2002-07-08	
3	+	7	1	44	31	480-802100-42400-54400				3	D	SITE	STD		MJ - stacking photos of BD making pond in r. 3 of -54400
3	8	8	1	45	31	480-802100-42400-54400				3	D	SITE	STD	2002-07-08	none
3	9	9	1	46	34			93L.070	70704	0.1	Ü	SITE	STD	2002-07-08	
3	10	10	+-	47	34			93L.070		0.1	D	SITE	STD		cam bag - fish photo #3-11
3	11	11	1	48	34		<del></del>	93L.070		0.1	BD	FISH	STD	2002-07-08	
3	12	12	++	49	31	480-802100-42400-54400		1		3	U	SITE	STD	2002-07-08	
3	13	13	$+\frac{1}{1}$	50	31	480-802100-42400-54400	<del> </del>			3	<u> </u>	SITE	STD	2002-07-08	
3	15	15	1	51	66	480-802100-66400-29800	<del>                                     </del>			1	Ü	SITE	STD	2002-07-09	cam bag
3	16	16	++	52	66	480-802100-66400-29800				<del>                                     </del>	D	SITE	STD	2002-07-09	
3	17	17	++	53	65	-00-002100-00-29000		93L.060	60730	1 1	Ü	SITE	STD	2002-07-09	
<u> </u>	1, 1/	1 17		1 00	1 00	<u></u>	<u> </u>	JUL.000	00700	<del></del>	<u> </u>		<u> </u>		

# Index of Photos Arranged by Roll and Frame \* See Reach/Site Summary for Site Photo Reference Information

Roli #	Frame #	Neg #	CD #	lmage	Site	Watershed Code	Gazetted Name	ILP Map	ILP	Reach	Dir	Owner	Focal Length	Date	Scale/Comments
3	18	18	1	54	55			93L.060	60714	1	D	SITE	STD	2002-07-09	
3	19	19	1	55	55			93L.060	60714	1	U	SITE	STD	2002-07-09	cam bag
3	20	20	1	56	9	480-802100	Pierre C.			16	D	SITE	STD	2002-07-09	SR
3	21	21	1	57	9	480-802100	Pierre C.			16	U	SITE	STD	2002-07-09	SR
3	22	22	1	58	51	480-802100-64500	1 .0			1	Ū	SITE	STD	2002-07-09	tape - BD in features
3	23	23	1	59	51	480-802100-64500				1	X	SITE	STD	2002-07-09	no scale - 2nd BD in features
	24	24		60	51	480-802100-64500				1	Ū	SITE	STD		cam bag - channel in W/meadow
3		25	1	61	51	480-802100-64500				1	Ū	SITE	STD	2002-07-09	cam bag - channel near Pierre C.
3	25	1		62	47	460-802 100-04300		93L.060	60710	1	<del>Ŭ</del>	SITE	STD	2002-07-09	
4	1		1		47			93L.060	60710	1	<del>-</del> <del>-</del> <del>-</del> -	SITE	STD	2002-07-09	cam bag
4	2	2	1	63	47			93L.060	60710	1	Ü	SITE	STD		cam bag - cascade in features
4	3	3	1	64				93L.060	60711	0.1	Ü	SITE	STD	2002-07-09	cam bag
4	4	4	1	65	48			93L.060	60711	0.1	<del>-</del>	SITE	STD	2002-07-09	cam bag
4	5	5	1	66	48				60711	0.1	U	SITE	STD	2002-07-09	cam bag - FSB in features
4	6	6	1	67	48			93L 060		1	U	SITE	STD	2002-07-09	cam bag
4	7	7	1	68	49			93L.060	60711			SITE	STD	2002-07-09	cam bag
4	8	8	1	69	49			93L.060	60711	1	D			2002-07-09	can bag
4	9	9	1	70	46			93L.060	60709	11	U	SITE	STD		
4	10	10	1	71	45			93L.060	60708	1	U	SITE	STD	2002-07-09	cam bag
5	1	1	1	72	36			93L.070	70705	1	U	SITE	STD	2002-07-23	DOOT
5	2	2	1	73	35			93L.070	70704	1	D	SITE	STD		cam bag - no channel
5	3	3	1	74	35			93L.070	70704	1	U	SITE	STD	2002-07-23	cam bag - "pool"
5	4	4	1	75	37			93L.070	70706	0.1	U	SITE	STD	2002-07-23	cam bag
5	5	5	1	76	37			93L.070	70706	0.1	D	SITE	STD	2002-07-23	
5	6	6	1	77	37			93L.070	70706	0.1	U	SITE	STD		cam bag - falls in features
5	7	7	1	78	38			93L.070	70706	1	U	SITE	STD	2002-07-23	cam bag - showing cobble channel area
5	8	8	1	79	38			93L.070	70706	1	D	SITE	STD	2002-07-23	cam bag - showing impounded water area
5	9	9	1	80	32	480-802100-42400-54400				3.1	U	SITE	STD		probe - cobble channel section
5	10	10	1	81	32	480-802100-42400-54400				3.1	D	SITE	STD	2002-07-23	cam bag - cobble channel section
5	11	11	1	82	32	480-802100-42400-54400				3.1	C	SITE	STD	2002-07-23	lower gradient pooled water section = repeating sequence over fines/detritus
<u>-</u> -	12	12	1	83	32	480-802100-42400-54400				3.1	U	SITE	STD	2002-07-23	SR - cascade in features = EFU
5		13	1	84	33	480-802100-42400-54400		;		4	Ü	SITE	STD	2002-07-23	cam bag
5	13	14	1	85	33	480-802100-42400-54400		!		4	Ď	SITE	STD	2002-07-23	
5	14				107	480-802100-42400-34400		93L.060	60800	1	Ü	SITE	STD	2002-07-23	cam bag - note subflow
5	15	15	1	86	107			93L.060	60800	1	D	SITE	STD		carn bag - note organic steps
5	16	16	1	87	107	480-802100	Pierre C.	332.000	00000	17	U	SITE	STD	2002-07-23	SR
5	17	17	1	88		480-802100	Pierre C.			17	D	SITE	STD	2002-07-23	dog
5	18	18	1	89	10	480-802100	Plette C.	93L.070	70718	1	Ü	SITE	STD	2002-07-23	MI
5	19	19	1	90	108			93L.070	70718	1	D	SITE	STD		SR - channel at mouth
5	20	20	1	91	109					1	U	SITE	STD		cam bag - NCD'ish section
5	21	21	1	92	109			93L.070	70719			SITE	STD	2002-07-23	cam bag - IVCD ISH Section
5	22	22	1	93	72			93L.060	60731	1	U		STD	2002-07-24	
5	23	23	1	94	72			93L.060	60731	1	D	SITE			
5	24	24	_1_	95	73			93L.060	60732	1	U	SITE	STD	2002-07-24	cam bag - shows lack of continuous channel
5	25	25	1	96	73			93L.060	60732	1	D	SITE	STD		cam bag - channelized section
6	1	1	1	97	67	480-802100-66400-29800				2	U	SITE	STD	2002-07-24	cam bag - typical channel
6	2	2	1	98	67	480-802100-66400-29800				2	D	SITE	STD	2002-07-24	dog - typical pool
6	3	3	1	99	68	480-802100-66400-29800				3	U	SITE	STD	2002-07-24	
6	4	4	1	100	68	480-802100-66400-29800			L	3	D	SITE	STD	2002-07-24	cam bag
6	5	5	2		74			93L.060	60733	1	U	SITE	STD	2002-07-24	
6	6	6	2	102	77			93L.060	60734	1	U	SITE	STD	2002-07-24	
6	7	7	2	103	78			93L.060	60735	1	U	SITE	STD	2002-07-24	cam bag - dry "channel"
6	8	8	2	103	75	480-802100-66400-29800-8750		1		1	U	SITE	STD	2002-07-24	cam bag
	9	9	2			480-802100-66400-29800-6750				1	D	SITE	STD	2002-07-24	
6	<u> </u>	1 3	12	100	1 /3	1400-002 100-00400-20000-0750		<del></del>							· · · · · · · · · · · · · · · · · · ·

# Index of Photos Arranged by Roll and Frame \*See Reach/Site Summary for Site Photo Reference Information

Roll	Frame #	Neg	CD	Image	Site	Watershed Code	Gazetted Name	iLP Map	ILP	Reach	Dir	Owner	Focal Length	Date	Scale/Comments
6	10	# 10	<b>#</b>	# 106	76	480-802100-66400-29800-6750	Maine			2	Ū	SITE	STD	2002-07-24	dog - creek source - bog
6	11	11	2	107	76	480-802100-66400-29800-6750				2	Ď	SITE	STD	2002-07-24	
6	12	12	2	108	81	155 552 155 55 155 25 57 57		93L.060	60739	1	Ū	SITE	STD	2002-07-24	cam bag
6	13	13	2	109	71	480-802100-66400-29800				9	U	SITE	STD	2002-07-24	cam bag
6	14	14	2	110	71	480-802100-66400-29800				9	D	SITE	STD	2002-07-24	cam bag
6	15	15	_ <del>_</del>	111	70	480-802100-66400-29800				8	U	SITE	STD	2002-07-24	MJ
6	16	16	2	112	70	480-802100-66400-29800				8	D	SITE	STD	2002-07-24	cam bag
6	17	17	2	113	80			93L.060	60738	1	U	SITE	STD	2002-07-24	cam bag
6	18	18	2	114	69	480-802100-66400-29800				6	U	SITE	STD	2002-07-24	cam bag
6	19	19	2	115	69	480-802100-66400-29800				6	D	SITE	STD	2002-07-24	cam bag
6	20	20	2	116	79			93L.060		2	U	SITE	STD	2002-07-24	cam bag
6	21	21	2	117	79			93L.060	60736	2	D	SITE	STD	2002-07-24	cam bag
6	22	22	2	118	82			93L.060		11	U	SITE	STD	2002-07-25	vest
6	23	23	2	119	82			93L.060		1	U	SITE	STD		cam bag - almost channelized
6	24	24	2	120	87			93L.060	60743	1	U	SITE	STD		view from "mouth", MJ standing at lake outlet
6	25	25	2	121	83			93L.060	60742	1	U	SITE	STD	2002-07-25	cam bag
7	1	1	2	122	83			93L 060	60742	1	D	SITE	STD	2002-07-25 2002-07-25	cam bag
7	2	2	2	123	88			93L 060	60744	0.1	D	SITE	STD	2002-07-25	cam bag
7	3	3	2	124	88			93L.060	60744	0.1	U	SITE	STD	2002-07-25	no scale
7	4	4	2	125	89			93L.060	60744	1	D	SITE	STD	2002-07-25	
7	5	5	2	126	89			93L.060	60744	1	U	SITE	STD	2002-07-25	
7	6	6	2	127	90			93L.060		1	U	SITE	STD	2002-07-25 2002-07-25	cam bag
7	7	7	2	128	84			93L.060		2	J	SITE		2002-07-25	probe
7	8	8	2	129	84			93L.060	60742	2	D U	SITE	STD	2002-07-25	cam bag - no more photos necessary - can't see channel
7	9	9	2	130	91			93L.060	60746	2	U	SITE	STD	2002-07-25	cam bag - no more priotos necessary - carri see channel
7	10	10	2	131	91			93L.060	60746 60742	5	Ü	SITE	STD	2002-07-25	cam bag - rails in reduces
7	11	11_	2	132	85			93L.060 93L.060	60742	5	D	SITE	STD	2002-07-25	cam bag
7	12	12	2	133	85 86			93L.060	60742	6	B	SITE	STD	2002-07-25	SB
7	13	13	2	134	86			93L.060	60742	6	Ü	SITE	STD	2002-07-25	dog - lake in background
7	14	14	2	135	102			93L.060	60754	1	Ü	SITE	STD	2002-07-25	cam han
7	15	16	2	136	53	480-802100-66400		33L.000	00734	10	U	SITE	STD	2002-07-25	cam bag - forested area
	16	17	2	138	53	480-802100-66400				10	D	SITE	STD		cam bag - shrubby area
7	18	18	2	139	54	480-802100-66400				12	X	SITE	STD	2002-07-25	
7	19	19	2	140	106	480-002100-00-00		93L.060	60758	1	Û	SITE	STD	2002-07-25	no scale - squishy meadow
7	20	20	2	141	104			93L.060	60756	2	Ŭ	SITE	STD	2002-07-26	dog
7	21	21	2	142	104	<del> </del>		93L.060	60756	2	D	SITE	STD	2002-07-26	
7	22	22	2	143	101			93L.060	60753	1	D	SITE	STD	2002-07-26	SR
7	23	23	2	144	100			93L.060	60752	1	Ū	SITE	STD	2002-07-26	cam bag
7	24	24	2	145	52	480-802100-66400				8	U	SITE	STD	2002-07-26	
7	25	25	2	146	52	480-802100-66400				8	D	SITE	STD	2002-07-26	dog
8	1	1	2	147	99			93L.060	60751	1	U	SITE	STD	2002-07-26	MJ - channelized section
8	2	2	2	148	99			93L.060	60751	1	D	SITE	STD	2002-07-26	
8	3	3	2	149	92	480-802100-66400-72600				1	U	SITE	STD	2002-07-26	SR
8	4	4	2	150	92	480-802100-66400-72600				1	D	SITE	STD	2002-07-26	
8	5	5	2	151	96			93L.060		2	U	SITE	STD	2002-07-26	
8	6	6	2	152	96			93L.060	60747	2	D	SITE	STD	2002-07-26	cam bag
8	7	7	2	153	95			93L.060	60747	1	U	SITE	STD	2002-07-26	
8	8	8	2	154	95			93L.060	60747	1	D	SITE	STD	2002-07-26	
8	9	9	2	155	93	480-802100-66400-72600				2	U	SITE	STD	2002-07-26	SR
8	10	10	2	156	93	480-802100-66400-72600				2	D	SITE	STD	2002-07-26	
8	11	11	2	157	97			93L.060		1	U	SITE	STD		cam bag - cascacle in features
8	12	12	2	158	97	<u> </u>		93L.060	60748	1	D	SITE	STD	2002-07-26	J000I

# Index of Photos Arranged by Roll and Frame \* See Reach/Site Summary for Site Photo Reference Information

Roll #	Frame #	Neg #	CD #	Image #	Site	Watershed Code	Gazetted Name	ILP Map	ILP	Reach	Dir	Owner	Focal Length	Date	Scale/Comments
8	13	13	2	159	98		, , unit	93L 060	60749	1	Х	SITE	STD	2002-07-26	no scale - visible W on left and embankment on right
8	14	14	2	160	94	480-802100-66400-72600				4	U	SITE	STD	2002-07-26	
8	15	15	2	161	63			93L 060	60724	1	U	SITE	STD	2002-07-26	cam bag
8	16	16	2	162	57			93L.060	60715	7	U	SITE	STD	2002-07-26	cam bag
8	. 17	17	2	163	64			93L.060	60727	1	U	SITE	STD	2002-07-26	cam bag
8	18	18	2	164	64			93L.060	60727	1	D	SITE	STD	2002-07-26	cam bag
8	19	19	2	165	62			93L.060		1	U	SITE	STD	2002-07-26	
8	20	20	2	166	61			93L.060		1	X	SITE	STD	2002-07-26	no scale
9	20	20	2	191	58			93L.060	60716	1	D	SITE	STD	2002-07-29 2002-07-29	cam bag
9	21	21	2	192	58			93L.060		1	U	SITE	STD	2002-07-29	can bag
9	22	22_	2	193	60			93L.060		1	U D	SITE	STD	2002-07-29	on en
9	23	23	2	194	59	480-802100-79900	<del> </del>	93L.060	60718	5	U	SITE	STD	2002-07-29	
9	24	24 25	2	195	111	480-802100-79900				5	D	SITE	STD	2002-07-29	
9	25	1	2	196 197	111	480-802100-79900		93L.070	70721	1	D	SITE	STD	2002-07-29	cam bag - 10m from "mouth" facing parent pond
10	1	2		197	117			93L.070	70723	1	D	SITE	STD	2002-07-29	MJ - parent stream in background
10	3	3	2	199	112	480-802100-79900		33L.070	10123	7	U	SITE	STD	2002-07-29	
10	4	4	2	200	112	480-802100-79900				7	D	SITE	STD	2002-07-29	cam ban
10	5	5	3	201	116	400-002 100-70000		93L.070	70722	2	Ū	SITE	STD	2002-07-29	cam bag
10	6	6	3	202	118			93L.070		1	Ü	SITE	STD	2002-07-29	cam bag - note stranded, dead CT beside cam bag
10	7	7	3	203	118			93L.070		1	D	SITE	STD	2002-07-29	
10	8	8	3	204	119			93L.070		2	Ū	SITE	STD	2002-07-29	
10	9	9	3	205	119		<b> </b>	93L.070		2	D	SITE	STD	2002-07-29	cam bag
10	10	10	3	206	120			93L.070	70726	1	U	SITE	STD	2002-07-29	no scale
10	11	11	3	207	121			93L.070		1	D	SITE	STD	2002-07-29	cam bag - showing NCD'ish nature
10	12	12	3	208	121			93L.070	70727	1	U	SITE	STD	2002-07-29	cam bag - showing channelized section
10	13	13	3	209	122			93L.070	70728	1	U	SITE	STD	2002-07-29	cam bag
10	14	14	3	210	124			93L.070	70730	1	U	SITE	STD	2002-07-29	MJ - cascade/chute in features
10	15	15	3	211	124			93L.070	70730	1	U	SITE	STD	2002-07-29	dog
10	16	16	3	212	124			93L.070	70730	1	D	SITE	STD	2002-07-29	cam bag
10	17	17	3	213	113	480-802100-79900				8	U	SITE	STD	2002-07-30	SR
10	18	18	3	214	113	480-802100-79900				8	D	SITE	STD	2002-07-30	
10	19	19	3	215	114	480-802100-79900				9	U	SITE	STD	2002-07-30	
10	20	20	3	216	126			93L.070		1	U	SITE	STD	2002-07-30	cam bag
10	21	21	3	217	125			93L.070	70732	0.1	U	SITE	STD	2002-07-30	book
10	22	22	3	218	125			93L.070	70732	0.1	D	SITE	STD	2002-07-30	
10	23	23	3	219	127			93L.070		1	U	SITE	STD	2002-07-30	
10	24	24	3	220	127			93L.070		1	D	SITE	STD	2002-07-30	cam bag
10	25	25	3	221	128			93L.070	70736	11	U	SITE	STD	2002-07-30	
11	1	1	3	222	129			93L.070	70737	1	D	SITE	STD		MJ - overview
11	2	2	3	223	130			93L.070	70738	1	U	SITE	STD	2002-07-30	cam bag
11	3	3	3	224	130			93L.070	70738	1 1	D	SITE	STD	2002-07-30	cam bag
11	4	4	3	225	131			93L.070	70739	1	D	SITE	STD	2002-07-30	MJ
11	5	5	3	226	132			93L.070		1	U	SITE	STD	2002-07-30	aog
11	6	6	3	227	133			93L.070	70741	1	U	SITE	STD	2002-07-30	
11	7	7	3	228	134			93L.070	70742	2	U	SITE	STD	2002-07-30	
11	88	8	3	229	134			93L.070		2	D	SITE	STD	2002-07-30	
11	9	9	3	230	143			93L.070		2	n	SITE	STD	2002-07-30	
11	10	10	3	231	143			93L.070		2	D	SITE	STD	2002-07-30	cam bag
11	11	11	3	232	142			93L.070	70750	3	U	SITE	STD	2002-07-30 2002-07-30	can bag
11	12	12	3	233	147	122 222 22	-	93L.070	70757	1 22	U	SITE	STD		
11	13	13	3	234	11	480-802100	Pierre C.	021 076	70700	0.1	U	SITE	STD	2002-07-30	
11	14	14	_3	235	151	L		93L.070	70760	U.I	<u> </u>	SILE	חופו	2002-07-30	30

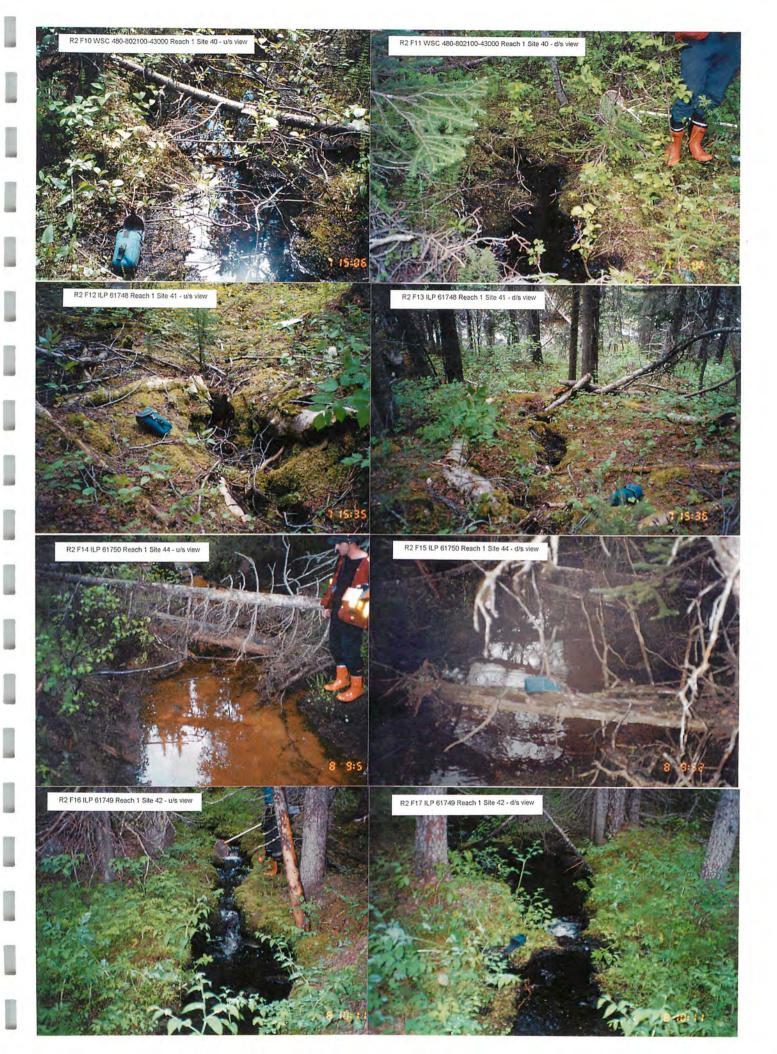
# index of Photos Arranged by Roll and Frame \* See Reach/Site Summary for Site Photo Reference Information

Roll	Frame #	Neg #	CD	lmage	Site	Watershed Code Gazette Name	i ILP Map	ILP	Reach	Dir	Owner	Focal Length	Date	Scale/Comments
11	15	# 15	#	236	151	Name	93L.070	70760	0.1	D	SITE	STD	2002-07-30	cam bag
11	16	16	3	237	136		93L.070	70746	1	U	SITE	STD	2002-07-31	
11	17	17	3	238	136		93L.070	70746	1	D	SITE	STD	2002-07-31	
11	18	18	3	239	139		93L.070	70747	1	Ū	SITE	STD	2002-07-31	cam bag - note narrow, shallow organic channel
11	19	19	3	240	139		93L.070	70747	1	D	SITE	STD	2002-07-31	cam bag
11	20	20	3	241	140		93L.070	70747	2	U	SITE	STD	2002-07-31	dog
11	21	21	3	242	137		93L.070	70746	2	Ú	SITE	STD	2002-07-31	cam bag
11	22	22	3	243	137		93L.070	70746	2	٥	SITE	STD	2002-07-31	
11	23	23	3	244	141		93L.070	70748	1	U	SITE	STD	2002-07-31	
11	24	24	3	245	138		93L.070	70746	3	Ú	SITE	STD	2002-07-31	
11	25	25	3	246	145		93L.070	70754	1	U	SITE	STD		dog - cobble collection - note lack of channel in background
12	1	1	3	247	144		93L.070	70753	1	U	SITE	STD		cam bag - shows morphology?
12	2	2	3	248	146		93L.070	70756	1	Ü	SITE	STD		probe = start of reach 1 = EFU = NOD
12	3	3	3	249	148		93L.070	70758	1	U	SITE	STD	2002-07-31	
12	4	4	3	250	148		93L.070	70758	1 1	D	SITE	STD	2002-07-31	
12	5	5	3	251	150		93L.070	70759	1	Ü	SITE	STD	2002-07-31	
12	6	6	3	252	149		93L.070	70758_	2	U	SITE	STD	2002-07-31	
12	7	7	3	253	152		93L.070	70760	1	D	SITE	STD	2002-07-31	
12	8	8	3	254	152		93L.070	70760	1	U	SITE	STD	2002-07-31	
15	3	3	4	325	1		93K.061	61702	11	U	SITE	STD	2002-08-15	
15	4	4	4	326	1		93K.061	61702	1	D	SITE	STD	2002-08-15	
15	5	5	4	327	3		93K.061	61705	2	Ų	SITE	STD	2002-08-15	
15	6	6	4	328	3		93K.061	61705	2	D	SITE	STD	2002-08-15	
15	7	7	4	329	2		93K.061	61705	1	U	SITE	STD	2002-08-15	
15	8	8	4	330	2		93K.061	61705	1	D	SITE	STD	2002-08-15	
15	9	9	4	331	5	480-793000-13100-30021			1	U	SITE	STD	2002-08-15	
15	10	10	4	332	5	480-793000-13100-30021			1	D	SITE	STD	2002-08-15	
15	11	11	4	333	6		93K.061	61713	1	U	SITE	STD	2002-08-15	
15	12	12	4	334	6		93K.061	61713	11	D	SITE	STD	2002-08-15	
15	13	13	4	335	4	480-793000-13100			4	BD	SITE	STD	2002-08-15	
15	14	14	4	336	4	480-793000-13100			4	D	SITE	STD	2002-08-15	
15	15	15	4	337	12	480-802100-03500			2	U	SITE	STD	2002-08-16	
15	16	16	4	338	12	480-802100-03500			2	D	SITE	STD	2002-08-16	
15	17	17	4	339	12	480-802100-03500			2	D	SITE	STD	2002-08-16	fish photo - in Pierre C. at mouth

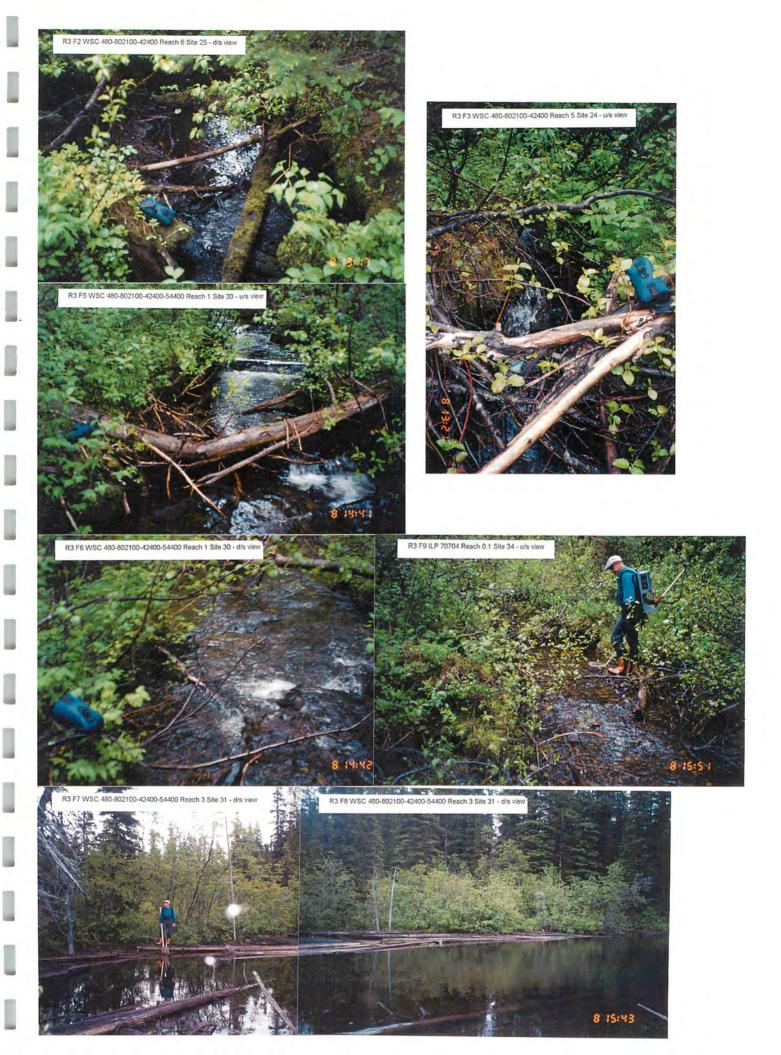


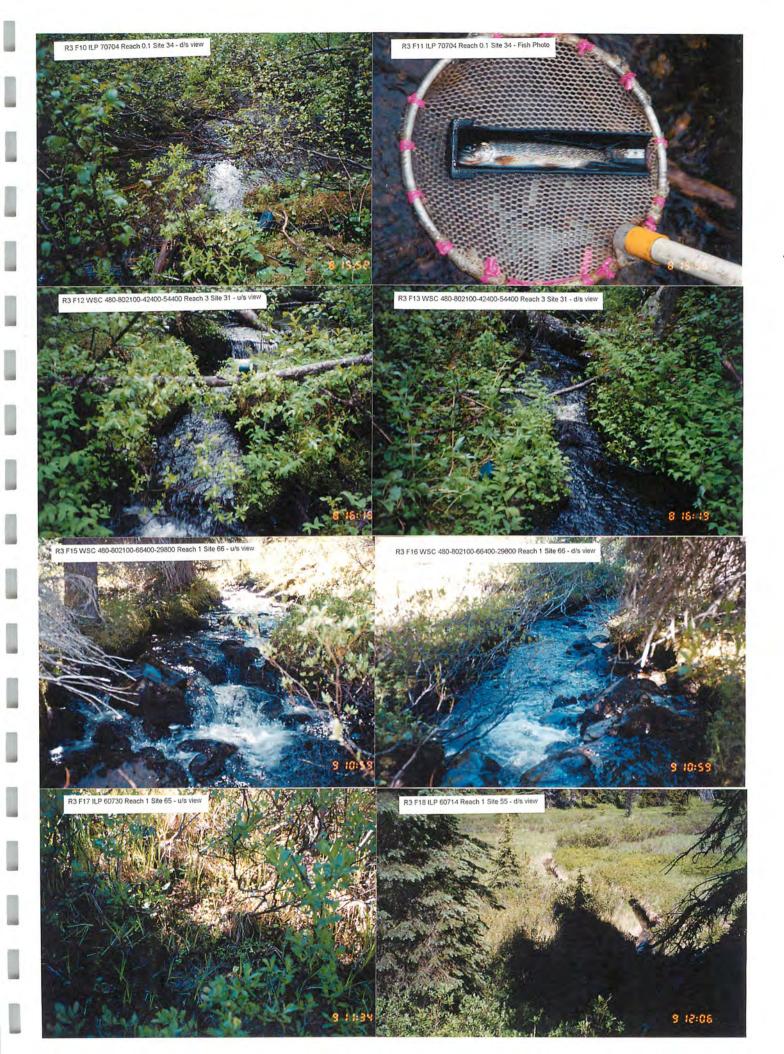


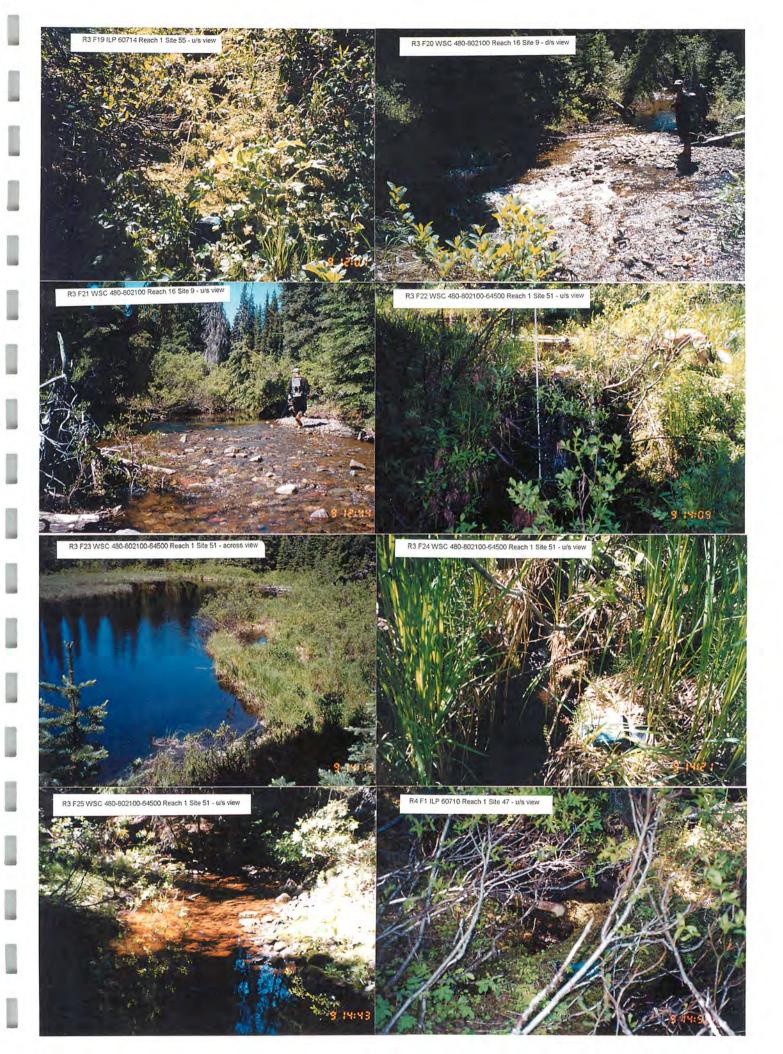


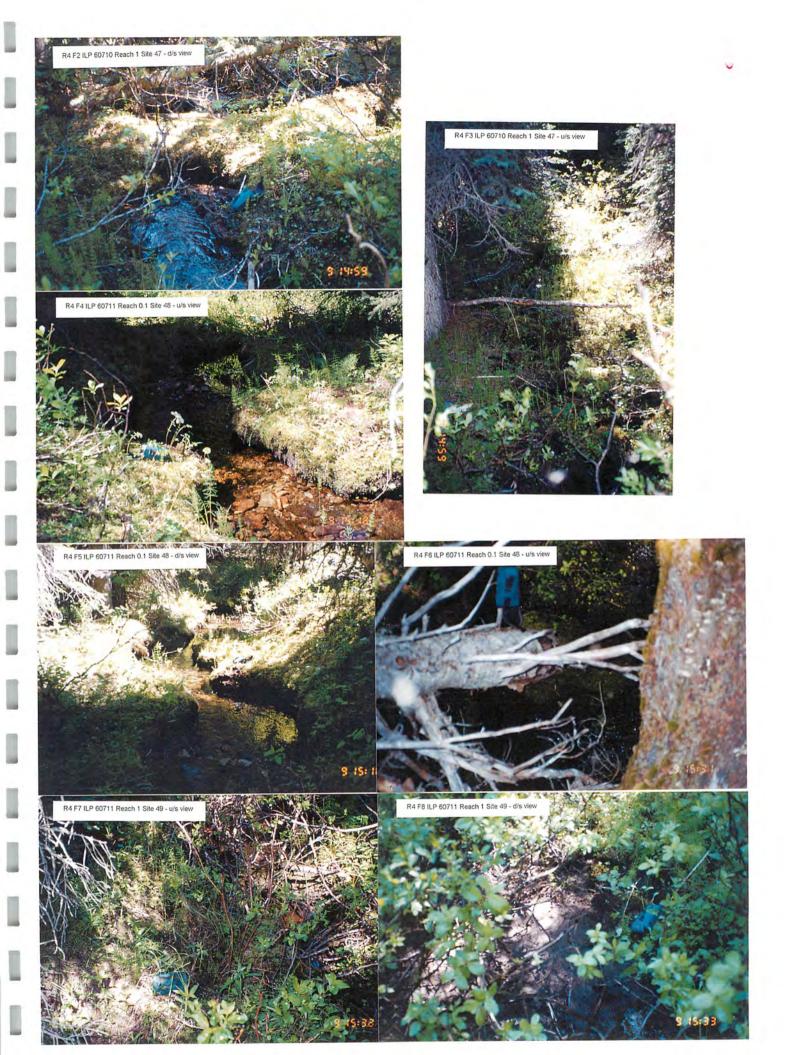








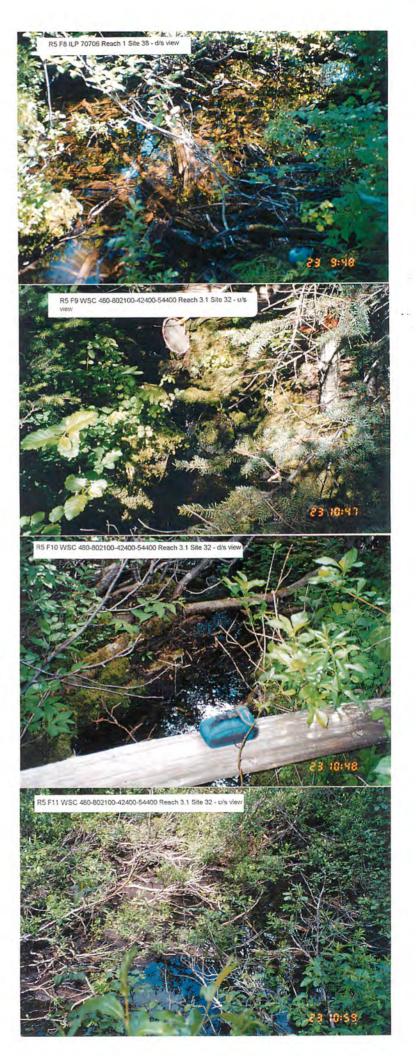


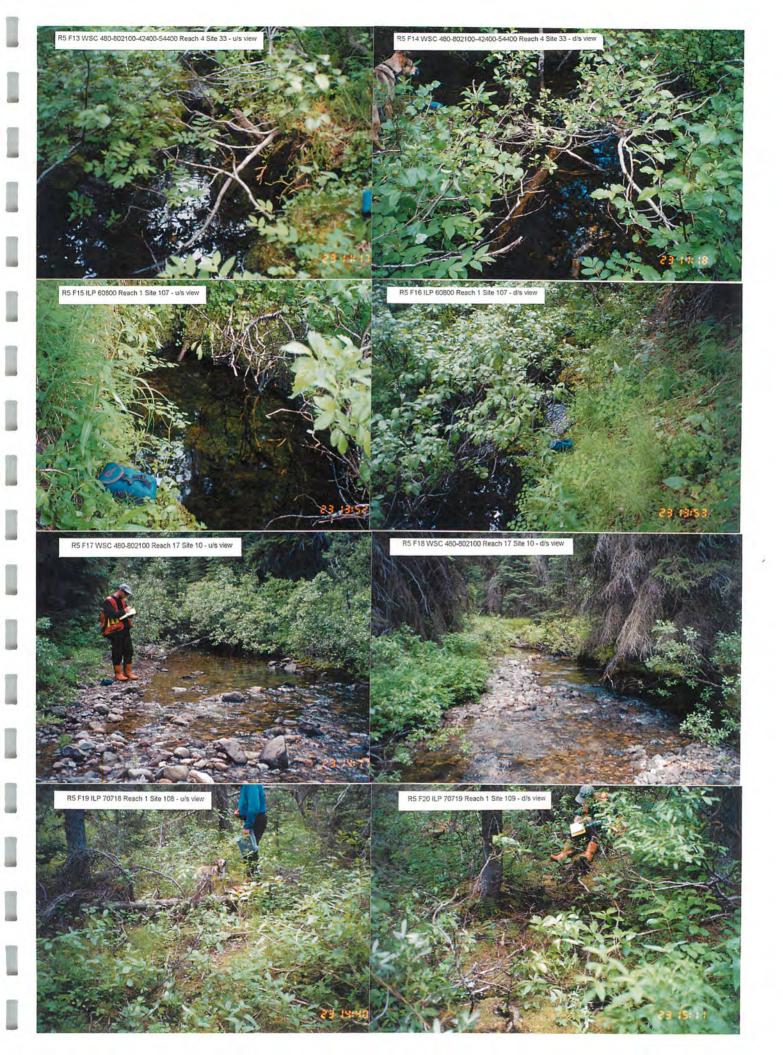






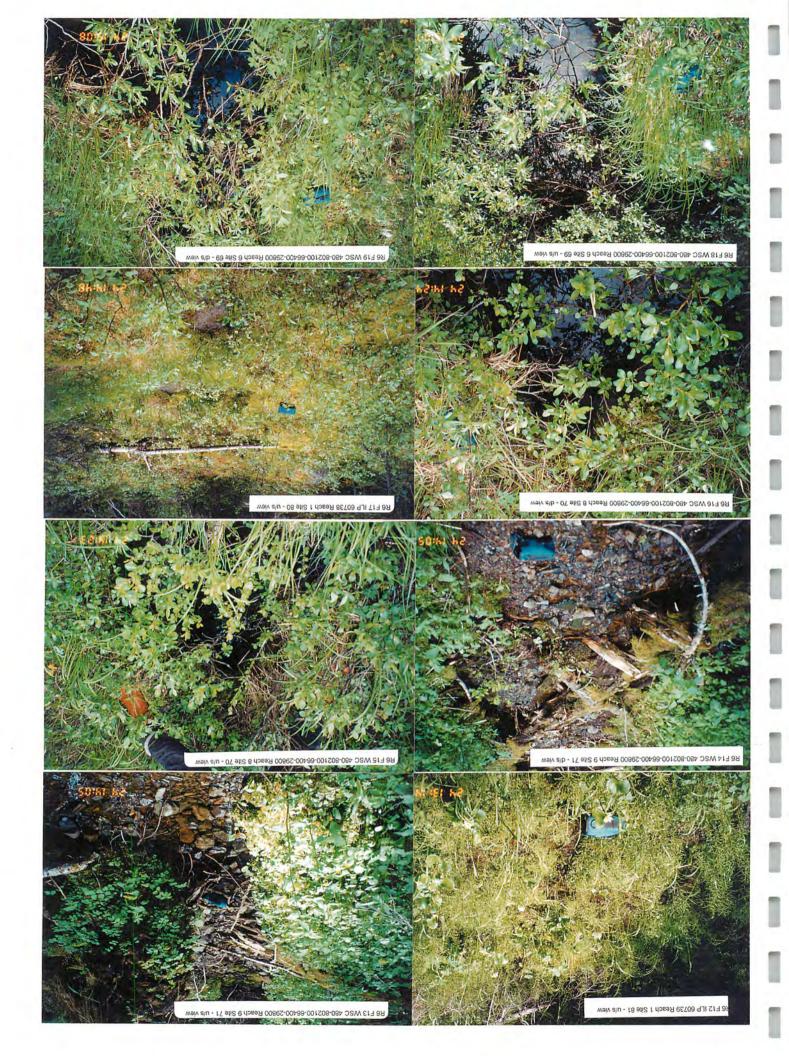




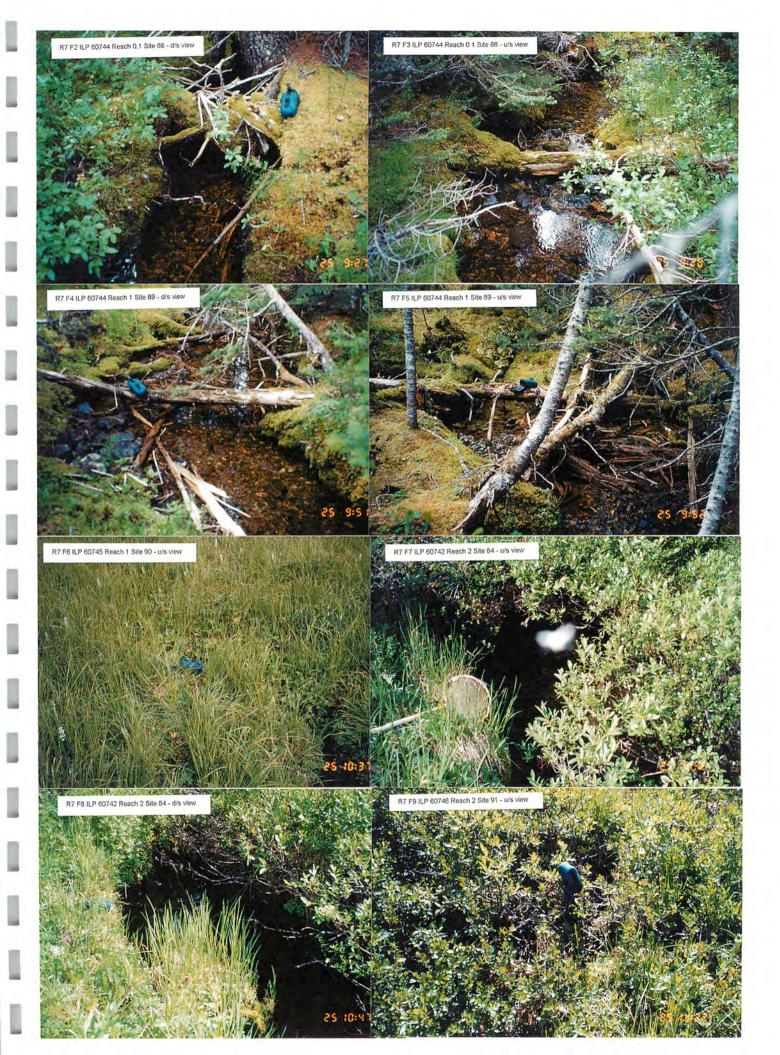






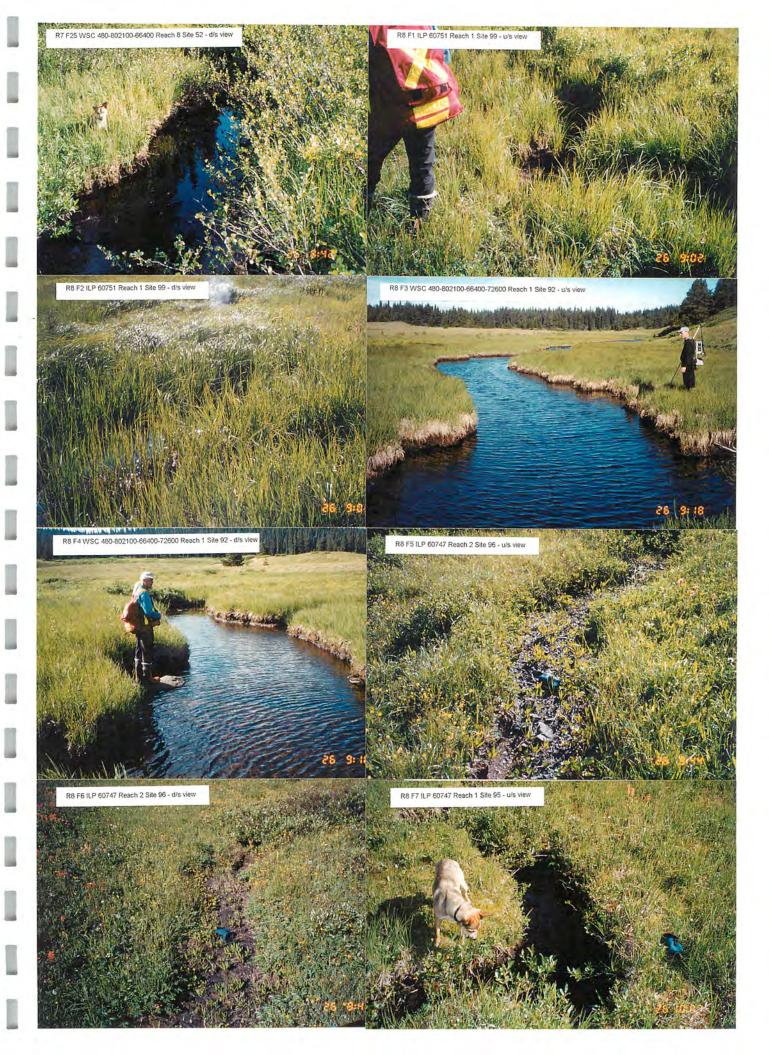


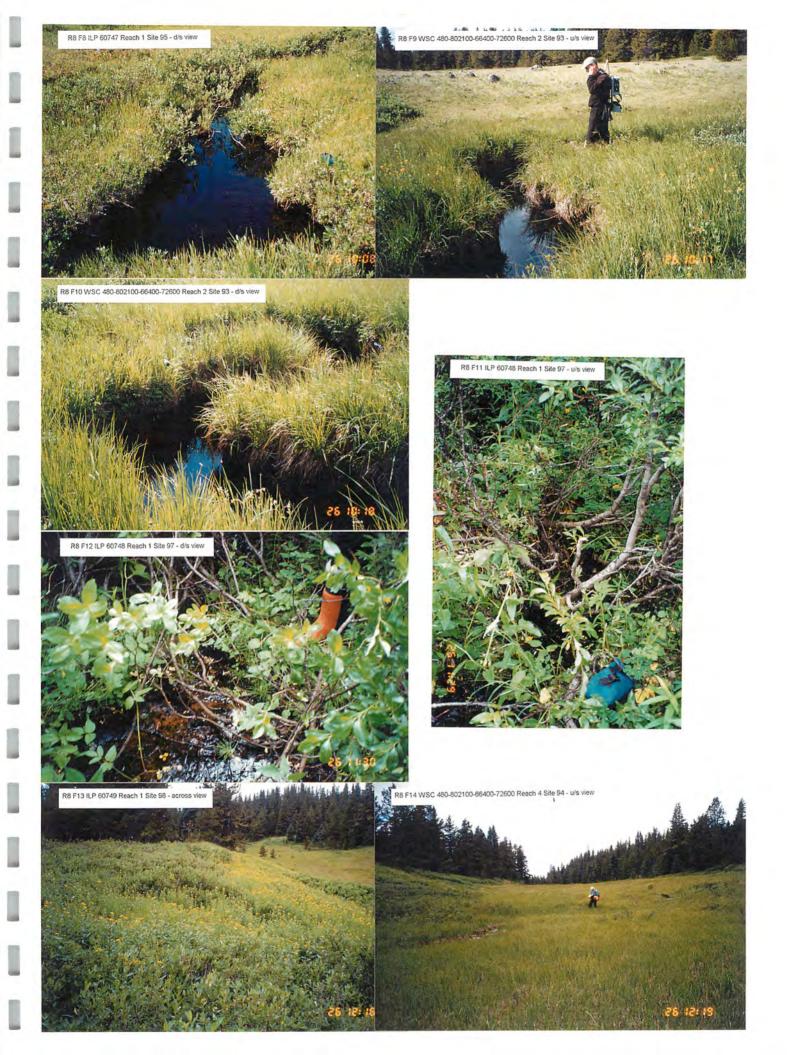






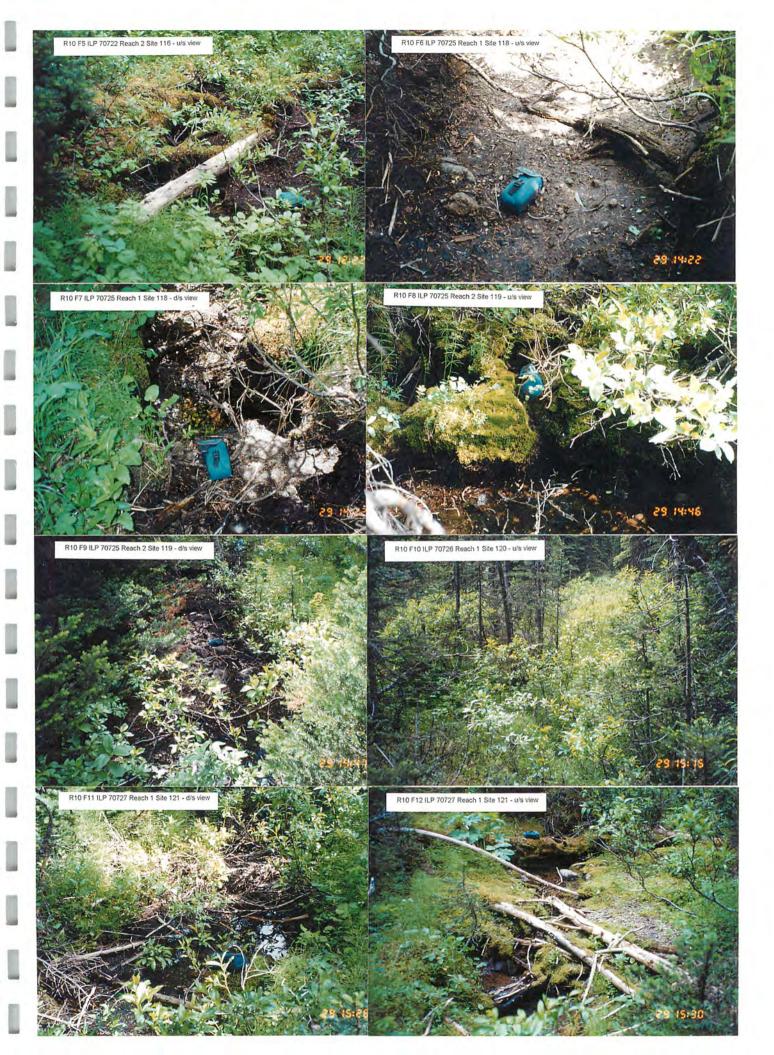










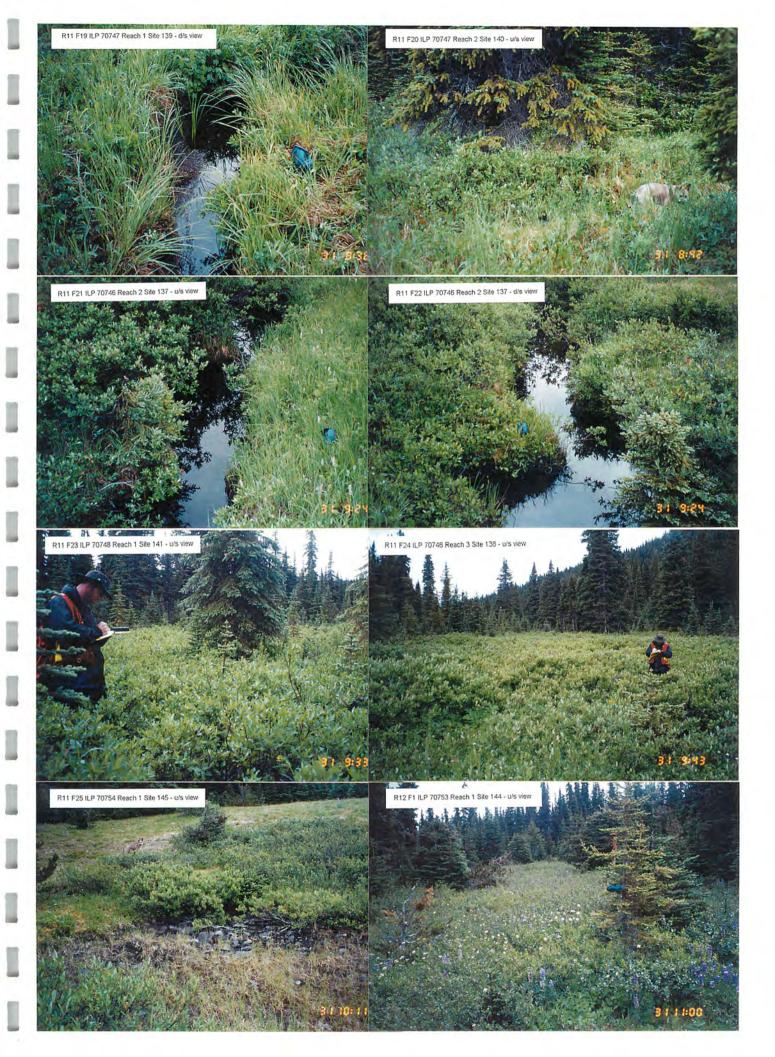


















## Reconnaissance (1:20,000) Fish and Fish Habitat Inventory

## Resampling in the Pierre and Twain Sub-units 2002/03

Addendum to Pierre and Twain Sub-units Fish Inventory - 1999

• Appendix III: Hardcopy Maps